

TWENTY  
**15**  
RESEARCH  
REPORT



**RHODES UNIVERSITY**  
*Where leaders learn*



*The future is here  
– it's female*

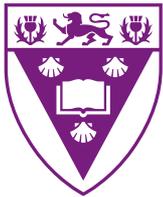


RHODES UNIVERSITY

TWENTY

15

RESEARCH REPORT



RHODES UNIVERSITY  
*Where leaders learn*

A publication of the Rhodes University Research Office,  
compiled and edited by Tarryn Gillitt, Busi Goba,  
Patricia Jacob, Jill Macgregor and Jaine Roberts

Design & Layout: Sally Dore

Research Office  
Director: Jaine Roberts  
j.roberts@ru.ac.za  
Tel: +27 (46) 603 8756/7572

[www.ru.ac.za](http://www.ru.ac.za)

**Cover:** Rhodes University researchers Pam Maseko, Nomalanga Mkhize, Heila Lotz-Sisitka, Ruth Simbao, Anthea Garman and Catriona Macleod

**Cover Photos:** Paul Greenway/[www.3pphotography.com](http://www.3pphotography.com)

# CONTENTS

01	FOREWORD	Dr Sizwe Mabizela, Vice-Chancellor
03	INTRODUCTION	Dr Peter Clayton, Deputy Vice-Chancellor: Research & Development
05	TOP 30 RESEARCHERS	
06	PHD GRADUATES	
11	VICE-CHANCELLOR'S BOOK AWARD	Professor Anthea Garman
13	VICE-CHANCELLOR'S DISTINGUISHED SENIOR RESEARCH AWARD	Professor Catriona Macleod
15	VICE-CHANCELLOR'S DISTINGUISHED RESEARCH AWARD	Dr Adrienne Edkins
17	SARChI CHAIRS	Professor Heila Lotz-Sisitka, Professor Ruth Simbao and Dr Adrienne Edkins
23	AFRICAN LANGUAGES, SCHOOL OF LANGUAGES AND LITERATURE	Associate Professor Pamela Maseko
25	DEPARTMENT OF HISTORY	Dr Nomalanga Mkhize

## DEPARTMENT PUBLICATIONS

28	Publications from the Vice-Chancellorate and Administration
29	Centre for Higher Education Research, Teaching and Learning (CHERTL)
32	Community Engagement Division
34	Library Services
38	Department of Accounting
40	Department of Anthropology
43	Department of Biochemistry and Microbiology
48	Rhodes University Biotechnology Innovation Centre (RUBIC)
50	Department of Botany
54	Department of Chemistry
62	Department of Computer Science
66	Department of Drama
72	Department of Economics and Economic History
75	Faculty of Education
80	Department of English
83	Department of English Language and Linguistics
86	Department of Environmental Science
91	Department of Fine Art
96	Department of Geography
99	Department of Geology
102	Department of History
105	Department of Human Kinetics and Ergonomics
108	Department of Ichthyology and Fisheries Science
113	Department of Information Systems
116	School of Journalism and Media Studies
119	Faculty of Law
122	Department of Management
124	Department of Mathematics
126	Department of Music and Musicology
128	International Library of African Music (ILAM)
130	Faculty of Pharmacy
135	Department of Philosophy
138	Department of Physics and Electronics
144	Department of Political and International Studies
148	Department of Psychology
154	Rhodes Business School
156	School of Languages and Literature
159	Department of Sociology
163	Department of Statistics
165	Department of Zoology and Entomology

## AFFILIATES, INSTITUTES AND UNITS

173	Albany Museum
176	Electron Microscopy Unit (EMU)
177	Institute for Environmental Biotechnology (EBRU)
179	Institute for the Study of English in Africa (ISEA)
182	Institute of Social and Economic Research (ISER)
186	Institute for Water Research (IWR)
189	Public Service Accountability Monitor (PSAM)
191	Rhodes University Mathematics Education Project (RUMEP)
193	South African Institute for Aquatic Biodiversity (SAIAB)
200	Unit for the Humanities at Rhodes University (UHURU)

# FOREWORD

Dr Sizwe Mazibela, Vice-Chancellor



Rhodes University Vice-Chancellor Dr Sizwe Mazibela  
Photo: Paul Greenway/3pphotography

Rhodes is a research led university, and, despite its relatively small size, is one of the pre-eminent research institutions on the continent, which produces world leading research for the betterment of humanity and the natural world.

Building on the foundation of intellectual rigour which has defined Rhodes University for generations, the diverse student body, outstanding pass and graduation rates, and amongst the highest per capita research output of institutions in South Africa, our priorities for the coming years for growing and improving scholarship are to:

- Protect our intellectual space by ensuring that there is little or no encroachment into the research time and resources of our academics;
- Increase the percentage of academics with doctoral level qualifications;
- Raise the total research output for the institution by encouraging and supporting all academic staff members to produce at least one accredited output per year;
- Grow the Postgraduate proportion of the student body to 30% whilst, at the same time, ensuring the diversity of the Postgraduate population; and

- Grow the number of research focus areas with significant critical mass behind them, for which the university is known as a place of scholarly excellence

Every year, Distinguished Professor Tebello Nyokong does something amazing that brings honour to her work, this University, and the reputation of African Scholarship. And year after year, it just gets more impressive. During 2015, Professor Nyokong and her group produced 63 ISI accredited journal papers, a new record and an absolutely astounding achievement. Many respected academics are proud to have achieved this kind of track record across a career. In the April 2015 Science Graduation ceremony, Professor Nyokong set a new all-time record as a supervisor at Rhodes University, graduating 6 PhD candidates in one ceremony. Also during the course of the year, she was appointed by UN Secretary-General Ban Ki-moon to the new high-level panel exploring the Technology Bank and Science and Technology Innovation Mechanism for Development, was recognised by CEO (Celebrating Excellence in Organizations) as the most influential woman in Education & Training in the SADC (Southern African Development Community) region, and was awarded a Laureate of UNESCO Medal for her contribution to the development of Nanoscience and Nanotechnologies. Professor Nyokong was amongst the the first SARChI Chairs awarded in South Africa in 2006, and has proved what a good research investment the SARChI programme has been for South Africa. We are extremely privileged to have this intellectual voice at Rhodes University.

Engaged research is a feature of research at Rhodes University that received a special validation in 2015, when the recipient of the Vice-Chancellor's Distinguished Senior Research Award was also part of the group which received the Vice-Chancellor's Distinguished Community Engagement award - a real example of how outstanding research and meaningful community engagement should co-exist. The Vice-Chancellor's Distinguished Senior Research Award for 2015 was awarded to Professor Catriona Macleod, SARChI Chair in the Department of Psychology, for the national and international impact of her research over a sustained period, spanning critical health psychology, feminist psychology, and theoretical psychology.

The Vice-Chancellor's Distinguished Research Award (in the age group 40 and below) for 2015 was awarded to Dr Adrienne Edkins, SARChI Chair in the Department of Biochemistry & Microbiology, whose research has made considerable advances to fundamental understanding, in the fields of cell stress biology and cancer biology, addressing issues of foundational importance to human health, and to breast cancer studies in particular. The Vice-Chancellor's Book Award for 2015 went to Professor Anthea Garman of the School of Journalism and Media Studies, for her book entitled *Antjie Krog and the Post-apartheid Public Sphere: Speaking Poetry to Power* (UKZN Press, 2015).

A further feature of research at Rhodes University has long been international collaborations, many of them responsible for raising the international competitiveness and voice of scholarship involving Rhodes academics and students. In March 2015, Rhodes University became a founder member of the African Research Universities' Alliance (ARUA), launched at the African Higher Education Summit in Senegal. Leading universities with strong programmes of research and Postgraduate training formed the network of 16 institutions, which aim to bring together intersecting and complementary strengths in the interest of building critical mass in the key development priorities of the African continent.

We were delighted to receive the news in 2015 that Rhodes University has been awarded three more SARChI Chairs. The new Rhodes Chairs are:

- Professor Heila Lotz-Sisitka (Environmental Learning Research Centre) - Global Change Social Learning Systems Development: Transformative Learning and Green Skills Learning Pathways;
- Professor Ruth Simbao (Fine Art) - Geopolitics and the Arts of Africa;
- Dr Adrienne Edkins (Biochemistry and Microbiology) - Molecular and Cellular Biology of the Eukaryotic Stress Response.

Many other individual academics receive widespread acknowledgement of their work. Particularly noteworthy examples were:

- Professor Martin Hill and the Biological Control Research Group, who were the recipients of the NSTF-GreenMatter Award for outstanding contributions to biodiversity conservation, environmental sustainability and a Greener Economy;
- Professor Olaf Weyl, of SAIAB, who received the Water Research Commission Knowledge Tree Award;
- Professor Ros Dowse, who was inducted as an honorary life member of the Academy of Pharmaceutical Sciences; and
- Professor Heila Lotz-Sisitka, who, as head of a multi-institutional consortium, attracted an International Social Science Council grant of R13,5 million for a three-year programme to build a Transformative Knowledge Network. It is one of only three grants awarded across the globe, and the only one to a country in the South.

As one of a range of transformation imperatives at Rhodes University, the institution was part of an Andrew W. Mellon Foundation funded consortium for redressing the skewed demographics of senior academic levels within the university. Until now, most of our efforts at improving the demographic make-up of our academic body has been aimed at the emerging scholar levels. Our next challenge is to find resources for this kind of initiative to be rolled out within scholarly areas outside of the Humanities.

I extend my congratulations and thanks to all of our researchers, collaborators, funders, donors, and partners who contributed to making 2015 a year in which research at Rhodes University flourished. Your expertise, integrity, dedication, rigour and generosity make Rhodes University the rich and distinctive intellectual space that it is.

My commitment is to use my leadership to further our shared objective of strengthening our university's position as a distinct and distinctive institution providing outstanding education to young people of our country and beyond, generating and disseminating knowledge of high quality which advances human understanding and wisdom; knowledge that helps us build and sustain a better society and a better world.

**Dr Sizwe Mabizela**  
Vice-Chancellor

## INTRODUCTION

Dr Peter Clayton, Deputy Vice-Chancellor, Research & Development



Rhodes University Deputy Vice-Chancellor: Research & Development,  
Dr Peter Clayton  
Photo: Paul Greenway/3pphotography

**2015 is the year in which women researchers at Rhodes University really shone, achieving high profile accomplishments across the institution. This research report consequently highlights the achievement of women.**

It is the year in which, for the first time in the history of the Vice-Chancellor's Awards at Rhodes University, all of the awards were made to women - the research awards, the teaching awards, and the book award. The Community Engagement award went to a group of four, three of whom were women. None of this was by design; it was how the results of various peer selection processes fell, on the basis of evidence.

It is the year in which three new SARCHI Chairs were awarded to Rhodes University, all of the incumbents women. This took



Launch of the new SARCHI Chairs in Cape Town, September 2015. From Left to Right: Dr Adrienne Edkins, Dr Peter Clayton, Professor Heila Lotz-Sisitka and Professor Ruth Simbao

the number of SARCHI Chairs at Rhodes to 14, or 7% of all chairs awarded nationally (to an institution that represents 0.75% of the sector - not a bad achievement), but, worth noting on the theme of women, it took the proportion of women held Chairs at Rhodes to 50% (the national percentage of women SARCHI Chairs is 40%).

It is the year in which the research outputs of a leading researcher smashed all records, as highlighted in the Vice-Chancellor's foreword. This researcher happens to be a woman, Africa's iconic woman researcher, Distinguished Professor Tebello Nyokong, who from her laboratories in the Nanotechnology Innovation Centre at Rhodes University has become amongst the most productive and influential researchers on the continent, attracting accolades and recognition from across the globe. A supreme role model without doubt, and perhaps one of the reasons why women at Rhodes know they can.

2015 is also the year in which the university's first woman Deputy Vice-Chancellor was appointed, Dr Chrissie Boughey, herself a leading researcher and scholarly role model.

So, all in all, it is fitting that this 2015 annual report turns out to be one that honours the women of Rhodes University.

While the presence of an international research icon, a high concentration of SARCHI Chairs, and high performing scholar-teachers across the institution does wonderful things for the intellectual space that is Rhodes University, so too does the presence of support

staff who not only think in scholarly terms, but increasingly contribute to the formal scholarly output of the university. It is a delight to see the number of support staff contributions to formal research outputs grow each year, from a wide range of divisions. Here we must celebrate successive Vice-Chancellors who lead by example as active scholars. A flip through this report will reveal publications by our current Vice-Chancellor, and our immediately past Vice-Chancellor who remains affiliated to Rhodes University as a Visiting Professor.

---

All of those highlighted here, and the many others whose intellectual work is listed in this report, contribute wonderfully to the intellectual space of the university, and to the academic capacity and the scholarly reputation that Rhodes continues to raise.

---

I add my warm thanks and congratulations to all of our researchers, funders, collaborators and partners who contributed to the strong accredited research results of 2015, as well as those generating the many forms of scholarship that are not counted in the accreditation exercise, but which contribute much to the rich intellectual space that is Rhodes. I also thank all of the administrators who play a crucial role in preparing the university's meticulous audited submissions, and all who support the research endeavor intellectually, administratively, technically, creatively, and by maintaining our physical space as one that facilitates and encourages our diverse intellectual activity.

**Dr Peter Clayton**

Deputy Vice-Chancellor: Research and Development

## TOP 30 RESEARCHERS

Rhodes University acknowledges and congratulates the following for their accredited research outputs (Journal publications, Books & Chapters, and Masters/Doctoral students graduated) in 2015:

- 01 **Distinguished Professor Tebello Nyokong**  
Department of Chemistry
- 02 **Professor Catriona Macleod**  
Department of Psychology
- 03 **Associate Professor Kirk Helliker**  
Department of Sociology
- 04 **Professor Charlie Shackleton**  
Department of Environmental Science
- 05 **Associate Professor Barry Irwin**  
Department of Computer Science
- 06 **Associate Professor Nicole Richoux**  
Department of Zoology & Entomology
- 07 **Distinguished Professor Christopher McQuaid**  
Department of Zoology & Entomology
- 08 **Associate Professor Gilton Klerck**  
Department of Sociology
- 09 **Professor Brett Pletschke**  
Department of Biochemistry & Microbiology
- 10 **Professor Marc Schafer**  
Department of Education
- 11 **Professor Martin Villet**  
Department of Zoology & Entomology
- 12 **Professor Lilla Stack**  
Department of Accounting
- 13 **Professor Dan Wylie**  
Department of English
- 14 **Professor Martin Hill**  
Department of Zoology & Entomology
- 15 **Dr Dan Parker**  
Department of Zoology & Entomology
- 16 **Professor Mellony Graven**  
Faculty of Education
- 17 **Associate Professor Joanna Dames**  
Department of Biochemistry & Microbiology
- 18 **Associate Professor Ozlem Tastan-Bishop**  
Department of Biochemistry & Microbiology
- 19 **Dr William Bennett**  
Department of English Language and Linguistics
- 20 **Professor Adrian Craig**  
Department of Zoology & Entomology
- 21 **Professor Gavin Fraser**  
Department of Economics and Economic History
- 22 **Dr Arthur Mukenge**  
School of Languages & Literatures: French Studies
- 23 **Associate Professor Richard Foss (Emeritus)**  
Department of Computer Science
- 24 **Professor Jen Snowball**  
Department of Economics and Economic History
- 25 **Dr Joy Owen**  
Department of Anthropology
- 26 **Dr Anton Krueger**  
Department of Drama
- 27 **Professor Denis Hughes**  
Institute for Water Research (IWR)
- 28 **Dr Ken Ngcoza**  
Faculty of Education
- 29 **Professor Heila Lotz-Sisitka**  
Environmental Learning Centre
- 30 **Associate Professor ES Nwauche**  
Faculty of Law

## PhD GRADUATES

### Faculty of Commerce (2PhDs)

#### DEGREE OF DOCTOR OF PHILOSOPHY

**CHIPUMURO, Juliet**, MBA (Azaliah), in Management, in the Department of Management. Degree by thesis. Thesis: *The relationship between leaders' Emotional Intelligence (EI) and followers' motivational behavior and organizational commitment*. Supervisor: Professor L Louw. Co-supervisor: Professor R van Niekerk (NMMU).

**MURIITHI, Samuel Muiruri**, MA (Wheaton College), in Management, in the Department of Management. Degree by thesis. Thesis: *The relationship between leadership and organisational effectiveness among indigenous banks in Kenya*. Supervisor: Professor L Louw.

### Faculty of Education (9 PhDs)

#### DEGREE OF DOCTOR OF PHILOSOPHY

**BEHARI-LEAK, Kasturi**, MEd (UCT), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *Conditions enabling or constraining the exercise of agency among new academics in higher education, conducive to the social inclusion of students*. Supervisor: Professor CM Boughey. Co-supervisor: Professor C Jacobs.

**KACHILONDA, Dick Daffu Kachanga**, MEd (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *Investigating and expanding learning in co-management of fisheries resources to inform extension training*. Supervisor: Professor H Lotz-Sisitka. Co-supervisor: Professor A Wals.

**MASEHELA, Langutani Meriam**, BAHons (UWC), HED (North), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *An exploration into the conditions enabling and constraining the implementation of quality assurance in higher education: The case of a small comprehensive university in South Africa*. Supervisor: Professor CM Boughey.

**MKHIZE, Thandeka Fortunate**, MCom (UKZN), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *An analysis of the certificate of the theory of accounting knowledge and knower structures: A case study of professional knowledge*. Supervisor: Professor S McKenna.

**PAUSIGERE, Peter**, MEd (Wits), in Education, in the Department of Education. Degree by thesis. Thesis: *Primary Maths teacher learning and identity within a numeracy in-service community of practice*. Supervisor: Professor M Graven.

**RIVERS, Nina**, BAHons (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *The mediating processes within social learning: Women's food and water security practices in the rural Eastern Cape*. Supervisor: Professor H Lotz-Sisitka.

**SCHECKLE, Eileen Margaret Agnes**, MPhil (Stell), in Education, in the Centre for Higher Education Research, Teaching and Learning. Degree by thesis. Thesis: *Reading identities: A case study of Grade 8 learners' interactions in a reading club*. Supervisor: Professor CM Boughey. Co-supervisor: Professor M Hendricks.

**SEARLE, Ruth Lesley**, MSc (Surrey), in Education, in the Centre for Higher Education, Research Teaching and Learning. Degree by thesis. Thesis: *The supervisor's tale: Supervisors' experiences in a changing environment*. Supervisor: Professor CM Boughey.

**STOTT, Deborah Ann**, MEd (Rhodes), in Education, in the Department of Education. Degree by thesis. Thesis: *Learners' numeracy progression and the role of mediation in the context of two after school mathematics clubs*. Supervisor: Professor M Graven.

### Faculty of Humanities (16 PhDs)

#### DEGREE OF DOCTOR OF PHILOSOPHY

**BHATASARA, Sandra**, MSc (Zimbabwe), in Sociology, in the Department of Sociology. Degree by thesis. Thesis: *Understanding climate variability and livelihoods adaptation in rural Zimbabwe: A case of Charewa, Mutoko*. Supervisor: Professor K Helliker.

**COETZEE, Paulette June**, MA (Rhodes), in English, in the Department of English. Degree by thesis. Thesis: *Performing whiteness: Representing otherness: Hugh Tracey and African music*. Supervisor: Professor M Marais. Co-supervisor: Professor CE Lucia (Stellenbosch).

**COWLING, Lesley Janet**, MA (Ohio), in Journalism & Media Studies, in the School of Journalism and Media Studies. Degree by thesis. Thesis: *Saving the Sowetan: The public interest and commercial imperatives in journalism practice*. Supervisor: Professor L Strelitz. Co-supervisor: Professor LN Steenveld.

**EDLMANN, Tessa Margaret**, MA (Rhodes), in History, in the Department of History. Degree by thesis. Thesis: *Negotiating historical continuities in contested narrative terrain: A narrative-based reflection on the post-apartheid psychological legacies of conscription into the South African Defence Force*. Supervisor: Professor G Baines. Co-supervisor: Professor L Willbraham.

**GIMENEZ AMOROS, Luis**, MMus (Rhodes), in Music & Musicology, in the Department of Music and Musicology. Degree by thesis. Thesis: *Transnational habitus: Mariem Hassan as the transcultural representation of the relationship between Saharawi and Nubenegra records*. Supervisor: Dr L Watkins.

**KERSEBOOM, Simone**, MA (Stell), in History, in the Department of History. Degree by thesis. Thesis: *Pitied plumage and dying birds. The public mourning of national heroines and post-apartheid foundational mythology construction*. Supervisor: Professor G Baines.

**KINGMA, Graham**, MA (Rhodes), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *Minding your own game: Self-regulation and psychological momentum among golfers*. Supervisor: Professor C Young. Co-supervisor: Dr C Meijen (Kent).

**MAALIM, Haroun Ayoub**, MTesol (Melbourne), in African Languages, in the School of Languages. Degree by thesis. Thesis: *Exploring the relationship between an "English-only" language-in-education policy and bilingual practices in secondary schools in Zanzibar*. Supervisor: Professor R Kaschula. Co-supervisor: Dr D Nkomo.

**MAGOQWANA, Babalwa Mirianda**, MSS (Rhodes), in Sociology, in the Department of Sociology. Degree by thesis. Thesis: *The call centre labour process: A study of work and workers' experiences at Joburg Connect, South Africa*. Supervisor: Professor JO Adesina (UNISA).

**MNGOMEZULU, Nosipho Sthabiso Thandiwe**, BAHons (Rhodes), in Anthropology, in the Department of Anthropology. Degree by thesis. Thesis: *Re-imagining the nation*. Supervisor: Professor R Boswell.

**MONA, Godfrey Vulindlela**, MA (Rhodes), in African Languages, in the School of Languages. Degree by thesis. Thesis: *A century of isiXhosa written poetry and the ideological contest in South Africa*. Supervisor: Professor R Kaschula.

**MWESHI, John**, MA (Zambia), in Philosophy, in the Department of Philosophy. Degree by thesis. Thesis: *Environmental conflict resolution: A critical analysis of the role of interests and value*. Supervisor: Professor S Vice.

**PAPHITIS, Sharli Anne**, MA (Rhodes), in Philosophy, in the Department of Philosophy. Degree by coursework and thesis. Thesis: *Control and authenticity: Reflections on personal autonomy*. Supervisor: Professor PA Tabensky.

**PILLAY, Morigenie**, MA (Rhodes), in Political & International Studies, in the Department of Political and International Studies.

Degree by thesis. Thesis: *A constructivist deconstruction of post-apartheid South Africa's trade negotiation strategies: The politics of development and global value chains*. Supervisor: Professor PH Bischoff.

**WEBER, Undine Susanne**, Staatsexamen I (Bonn), in German Studies, in the School of Languages. Degree by thesis. Thesis: *Wolfgang Koeppen and Tradition: Aspects of Intertextuality in the so-called Postwar Trilogy*. Supervisor: Professor T Martin. Co-supervisor: Professor G Pakendorf.

**ZOCCOLA, Diana**, MA (North-West), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: *Neurocognitive effects of head and body collisions on club level rugby union players*. Supervisor: Professor A Edwards.

## Faculty of Law (1 PhD)

### DEGREE OF DOCTOR OF PHILOSOPHY

**VAN NIEKERK, Hester Aletta**, MEd (UP), in the Faculty of Law. Degree by thesis. Thesis: *Determining the competency of children with developmental delays to testify in criminal trials*. Supervisor: Dr KD Muller.

## Faculty of Pharmacy (1 PharmD and 4 PhDs)

### DEGREE OF DOCTOR OF PHARMACY

**JUGATHPAL, Vishen**, BPharm (Rhodes)

### DEGREE OF DOCTOR OF PHILOSOPHY

**CHIWAKATA, Maynard Tendai**, MSc (Pharmacy) (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: *Synthesis and biological evaluation of truncated sarganaphthoquinoid acid derivatives as Hsp90 inhibitors*. Supervisor: Dr DR Beukes.

**FAKEE, Jameel**, BPharm, MSc (Pharmacy) (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: *The isolation, characterisation and chemotaxonomic significance of secondary metabolites from selected South African Laurencia spp. Rhodophyta*. Supervisor: Dr DR Beukes.

**NGQWALA, Nosiphiwe Patience**, MSc (Rhodes), in Pharmaceutical Chemistry, in the Faculty of Pharmacy. Degree by thesis. Thesis: *Modification and application of decentralised wastewater treatment technology for greywater treatment to reduce water needs*. Supervisor: Dr R Tandlich.

**PATEL, Sonal**, BPharm (Rhodes), in Pharmacy Practice, in the Faculty of Pharmacy. Degree by thesis. Thesis: *The design and evaluation of targeted patient-centred health information to improve knowledge and behavioural outcomes in tuberculosis patients with limited literacy*. Supervisor: Professor R Dowse.

## Faculty of Science (42 PhDs)

### DEGREE OF DOCTOR OF PHILOSOPHY

**ADAMS, Ross Montague**, BScHons (Wits), MSc (Rhodes), in Mathematics, in the Department of Mathematics (Pure and Applied). Degree by thesis. Thesis: *Contributions to the study of a class of optimal control problems on the orthogonal groups  $SO(3)$  and  $SO(4)$* . Supervisor: Dr CC Remsing. Co-supervisor: Dr W Holderbaum (Reading).

**BERGAMINO ROMAN, Leandro**, MSc (Uruguay), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Spatial and temporal variations in trophic connectivity within an estuarine environment: Benthic-pelagic and terrestrial-aquatic linkages via invertebrates and fishes*. Supervisor: Dr NB Richoux.

**BIGGS, Rory**, MSc (Rhodes), in Mathematics, in the Department of Mathematics (Pure and Applied). Degree by thesis. Thesis: *Invariant control systems and sub-Riemannian structures on Lie groups: Equivalence and isometries*. Supervisor: Dr CC Remsing. Co-supervisor: Professor NT Nagy (Budapest).

**BIZABANI, Christine**, BScHons (Midlands State), MSc (Rhodes), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *The diversity of root fungi associated with Erica species occurring in the Albany centre of endemism*. Supervisor: Professor JF Dames.

**BRYJA, Malgorzata Anna**, BA (Toronto), MSc (York, Canada), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: *An evaluation of the potential for implementing adaptive co-management in the Waodani social-ecological system in the Ecuadorian Amazon*. Supervisor: Professor SE Shackleton.

**CECH, Alexandra Louise**, BSc (Wits), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: *Towards a mobile bioethanol unit for point of source conversion of sugar sources to bioethanol: Design and feasibility study for South Africa*. Supervisor: Professor JL Limson. Co-supervisors: Dr R Fogel and Dr G Cambray.

**CHAMBERS, Craig Brian**, MSc (UKZN), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Production of *Cydia pomonella* granulovirus (CpGv) in a heterologous host, *Thaumatotibia leucotreta* (Meyrick) (False codling moth)*. Supervisor: Professor MP Hill. Co-supervisors: Dr C Knox and Dr SD Moore (CRI).

**CLIFFORD-HOLMES, Jai Kumar**, BAHons (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: *Fire and water: A transdisciplinary investigation of water governance in the lower Sundays River Valley, South Africa*. Supervisor: Professor CG Palmer. Co-supervisors: Professor CJ de Wet and Prof J Slinger (DELFT).

**DALU, Tatenda**, MSc (Zimbabwe), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Spatio-temporal variation in the phyto-benthos and phytoplankton community structure and composition of particulate matter along a river-estuary continuum assessed using microscopic and stable isotope analyses*. Supervisor: Dr NB Richoux. Co-supervisor: Professor PW Froneman.

**DALY, Ryan**, MSc (Rhodes), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Feeding ecology, residency patterns and migration dynamics of bull sharks (*Carcharhinus leucas*) in the southwest Indian Ocean*. Supervisor: Professor PW Froneman. Co-supervisor: Dr M Smale (Bayworld).

**DE ALMEIDA, Louise Kashiyavala Sophia**, MSc (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *The detection of glyphosate and glyphosate-based herbicides in water, using nanotechnology*. Supervisor: Professor BI Pletschke. Co-supervisor: Professor C Frost (NMMU).

**DHANANI, Karim Colin Hassan**, MSc (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Human FN1 is regulated by the heat-shock response*. Supervisor: Dr AL Edkins.

**EDEKI, Oghenekume Gerald**, MSc (Ilorin), in Environmental Biotechnology, in the Institute for Environmental Biotechnology. Degree by thesis. Thesis: *Bacterial degradation of fossil fuel waste in aqueous and solid media*. Supervisor: Professor AK Cowan (EBRU).

**FASHINA, Adedayo Alabi**, MSc (Ibadan), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Photophysical studies of Zinc phthalocyanine-silica nanoparticle conjugates*. Supervisor: Distinguished Professor T Nyokong.

**FILMALTER, John David**, MSc (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *The associative behavior of silky sharks, *Carcharhinus falciformis*, with floating objects in the open ocean*. Supervisor: Dr P Cowley (SAIAB). Co-supervisor: Dr L Dagorn (IRD).

**FOX, Helen Elizabeth**, MSc (Rhodes), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: *Social-ecological resilience for well-being: A critical realist case study of Boksburg Lake, South Africa*. Supervisor: Professor CG Palmer. Co-supervisor: Professor R O'Donoghue.

**GENNARI, Enrico**, MSc (Degli Studi (La Sapienza)), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Thermal physiology and behavioural ecology of the white shark, *Carcharodon carcharias**. Supervisor: Dr P Cowley (SAIAB). Co-supervisor: Mr R Johnson (Oceans Research).

**GOLA, Nontutuzelo Pearl**, BScHons (UPE), MSc (Stell), in Water Resource Science, in the Institute for Water Research. Degree by thesis. Thesis: *The value of locally isolated freshwater micro-*

*algae in toxicity testing for water resource management in South Africa.* Supervisor: Professor CG Palmer. Co-supervisor: Dr NJ Muller (Amatola Water Board).

**JONES, Roy William**, NDip (Technikon SA), MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Aquatic invasions of the Nseleni river system: causes, consequences and control.* Supervisor: Professor MP Hill. Co-supervisors: Dr O Weyl and Dr JM Hill.

**KHOZA, Phindile Brenda**, BSc (UKZN), BScHons (Zululand), MSc (UJ), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Phthalocyanine-nanoparticle conjugates for photodynamic therapy of cancer and phototransformation of organic pollutants.* Supervisor: Distinguished Professor T Nyokong.

**MAAKE, Pholoshi Abram**, MSc (Limpopo), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: *Systematics and phylogeography of mormyrid fishes in South Africa.* Supervisor: Dr G Gouws (SAIAB). Co-supervisors: Dr E Swartz (SAIAB) and Mr O Gon (SAIAB).

**MAGWA, Nomampondo Penelope**, BSc (NMMU), BScHons, MSc (Rhodes), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *The development of amine-based extractants for separation of base metals in a sulfate medium.* Supervisor: Professor Z Tshentu (NMMU). Co-supervisor: Professor GW Watkins.

**MARINGA, Audacity**, BScHons (Zimbabwe), MSc (Wits), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Electrode surface modification using metallophthalocyanines and metal nanoparticles: Electrocatalytic activity.* Supervisor: Distinguished Professor T Nyokong.

**MAY, Bronwen**, BScHons (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Investigations into insect-induced plant responses of Water Hyacinth, (Eichhornia crassipes) (Pontederiaceae).* Supervisor: Dr JA Coetzee.

**MOHOBANE, Thabiso**, BScHons (Lesotho), MSc (Waikato), in Hydrology, in the Institute for Water Research. Degree by thesis. Thesis: *Water resources availability in the Caledon River basin: Past, present and future.* Supervisor: Professor DA Hughes. Co-supervisor: Dr SK Mantel.

**MOKOENA, Fortunate**, BScHons (Limpopo), MSc (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: *Characterization of the co-chaperones of Hsp70 and Hsp90 in Trypanosoma brucei and their potential partnerships.* Supervisor: Dr A Boshoff. Co-supervisor: Dr AL Edkins.

**MTHETHWA, Thandekile Phakamisiwe**, BScHons (Zululand), MSc (UJ), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Metallophthalocyanine-gold nanoparticle conjugates for photodynamic antimicrobial chemotherapy.* Supervisor: Distinguished Professor T Nyokong.

**OGBODU, Racheal Odiri**, MSc (Ibadan), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Photophysicochemical properties and in vitro photodynamic therapy activities of zinc phthalocyanine conjugates with biomolecular and single-walled carbon nanotubes.* Supervisor: Distinguished Professor T Nyokong.

**OTTEN, Frederick John**, BSc (UKZN), MSc (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: *Network simulation for professional audio networks.* Supervisor: Professor RJ Foss.

**PUCCINELLI, Eleonora**, MSc (Pisa), in Marine Biology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Diet of coastal filter feeders: impact of factors operating at different scales.* Supervisor: Distinguished Professor CD McQuaid. Co-supervisor: Dr M Noyon (UCT).

**SANUSI, Sikiru Olukayode**, MSc (Obafemi Awolowo), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: *Nonlinear optical studies of phthalocyanines and their conjugates with nanomaterials.* Supervisor: Distinguished Professor T Nyokong.

**SLATER, Cindy**, BScHons (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Analysis of the role of Hsp90 in colon cancer and cancer stem-like cell biology in vitro using a genetically paired cell line model.* Supervisor: Dr AL Edkins.

**SPIRES, Meggan Hazel**, BScHons (UKZN), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: *Barriers to and enablers of climate change adaptation in four South African municipalities, and implications for community based adaptation.* Supervisor: Professor SE Shackleton.

**STERREBERG, Jason Neville**, MSc (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: *Establishment of human OCT4 as a putative Hsp90 client protein: A case for Hsp90 chaperoning pluripotency.* Supervisor: Dr AL Edkins.

**SWART, Ignatius Petrus**, MTech (Tshwane), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: *Pro-active visualization of cyber security on a national level: A South African case study.* Supervisor: Professor BVW Irwin. Co-supervisor: Professor M Grobler (CSIR/DPSS).

**TALWANGA, Matiki**, BScHons (Fort Hare), MSc (Rhodes), in Mathematics, in the Department of Mathematics (Pure and Applied). Degree by thesis. Thesis: *Counting of finite fuzzy subsets with applications to fuzzy recognition and selection strategies.* Supervisor: Professor V Murali.

**TUMBO, Madaka Harold**, MSc (Dar-es-Salaam), in Hydrology, in the Institute for Water Research. Degree by thesis. Thesis: *Uncertainties in modelling hydrological responses in gauged and ungauged sub-basins.* Supervisor: Professor DA Hughes. Co-supervisor: Dr DM Mulungu (Dar-es-Salaam).

---

**UYI, Osariyekemwen**, MPhil (Ghana), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Aspects of the biology, thermal physiology and nutritional ecology of Pareuchaetes insulata (Walker) (Lepidoptera: Erebidae: Arctiinae), a specialist herbivore introduced into South Africa for the biological control of Chromolaena odorata (L.) King and Robinson (Asteraceae)*. Supervisor: Professor MP Hill. Co-supervisor: Dr C Zachariades (Cedara).

---

**VAN DER WAAL, Benjamin Wentzel**, BSc (North-West), BScHons, MSc (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: *Sediment connectivity in the upper Thina catchment, Eastern Cape, South Africa*. Supervisor: Professor KM Rowntree.

---

**VILANCULOS, Agostinho Chuquelane Fadulo**, MSc (Zimbabwe), in Hydrology, in the Institute for Water Research. Degree by thesis. Thesis: *The use of hydrological information to improve flood management-integrated hydrological modelling of the Zambezi River basin*. Supervisor: Professor DA Hughes.

---

**WEYL, Philip Sebastian Richard**, MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Friend or foe? Resolving the status of the submerged macrophyte Myriophyllum spicatum L. (Haloragaceae) in southern Africa*. Supervisor: Dr JA Coetzee.

---

**WILLIAMS, Kirstin Alexa**, MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: *Molecular systematics and biology of two closely related blowflies: Lucilia sericata and Lucilia cuprina*. Supervisor: Professor MH Villet.

---

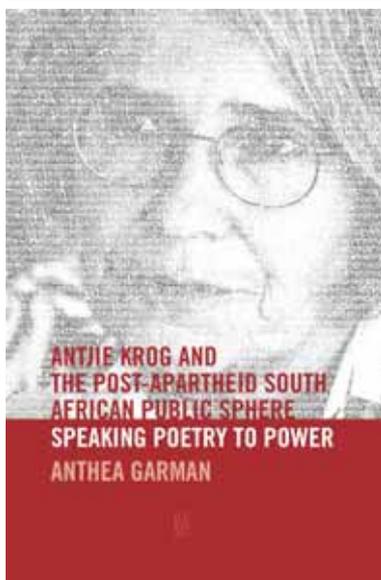
## THE VICE-CHANCELLOR'S BOOK AWARD 2015

*Antjie Krog and the Post-Apartheid Public Sphere: Speaking Poetry to Power*  
Anthea Garman



Professor Anthea Garman  
Photo: Paul Greenway/3pphotography

PROFESSOR ANTHEA Garman has always been fascinated by Antjie Krog. Over the years such fascination has circled closer and further away, but it was really sharpened when Krog led the SABC radio's coverage of the Truth and Reconciliation Committee's first sitting in 1996 using her maiden name, Antjie Samuel. "I realised this in retrospect because we're out of step generationally - she was born in 1952, so she's a chunk older - but I first encountered her at the TRC when I was working for the Natal Witness. I didn't know her at all because she wasn't a journalist and she was heading up the SABC's team. Then *Country of my Skull* came out and just took off like a rocket. And suddenly many of my interests coalesced."



Professor Anthea Garman's book, *Antjie Krog and the Post-apartheid Public Sphere: Speaking Poetry to Power*, which won the Vice-Chancellor's Book Award in 2015.  
Photo: Paul Greenway/3pphotography

Garman watched the book, how it was translated, prescribed and received. She realised that it became mandatory reading in approximately 20 universities worldwide. With this immediate post-apartheid fetting of Krog as an informal spokesperson and authority, so Garman found the mystery deepening. How, she asked herself, had Krog attained her status? How was she able to create and maintain the authority that allowed her, in Garman's words "to become everyone's favourite go-to Afrikaner." What factors - public, intellectual and private - fused so conveniently to give her the privileged speaking position she so clearly had?

Along with the refinement of her intrigue, Garman did a course on research methodology while on sabbatical. "In it I encountered phenomenology," she says. "And I realised that you could use one person's life and concentrate on them and tell their story, and in doing that, tell more than just their story."

And so Garman set out to write her PhD thesis about Krog, a thesis which metamorphosed into her lauded book, *Antjie Krog and the Post-Apartheid Public Sphere: Speaking Poetry to Power*. The book, stresses Garman, is not a biography in the traditional sense; neither is it an exegesis of Krog's writing. Rather it is about how circumstance - and frequently Krog herself - have fashioned a unique position in the post-Apartheid public sphere.

It is a fascinating story, largely because it has so many strands, and it begins when Krog, daughter of a mother with literary pretensions (she published in Afrikaans magazines under her maiden name) and a farmer father, had three poems published in the Kroonstad High magazine in 1969, Krog's matric year.

One of the poems is called *My Mooi Land* and details how a white girl and a young black boy of the same age lie down in the grass together. The poem is a local sensation and Kroonstad High's headmaster receives a parental delegation post-publication; they demand an explanation. By now the damage - if this is what it is - has been done. *Beeld* get hold of the story. "A furore unfolds," says Garman with winning understatement.

"While the Kroonstad High parents argue that this poem is not within the bounds of decency," says Garman. "Dot Serfortein, Antjie's mother, believes she's dealing with an artistically gifted child. *Beeld* get hold of the story and give it a kind of salacious Sunday-newspaper treatment, and follow-up articles are pursued in the English press. A week or two later some bright spark on the *Beeld* desk suggests that they ask two Afrikaans literary heavyweights, DJ Opperman and Ernst van Heerden, what they think of Krog's poems. 'This is marvellous,' they say. 'We think they have great value.' And so suddenly Krog goes off to the University of the Orange Free State with a collection of poems [*Eerste Gedigte*] under her arm as a published author."

Garman argues that these unfolding events are deeply significant in Krog's future development. In many ways they set in motion the sweep of currents which allow Krog her longevity and pre-eminence. "That incident at 17 sets her trajectory across those three fields - literature, journalism and politics - and every future moment, in a sense, becomes a public moment. She does an Honours degree under Opperman at Stellenbosch and then does her Masters about his poetry at Tukkies before returning to teach in Kroonstad at the coloured school because she didn't have a teaching diploma and so couldn't teach at the white school."

For a poem first published in a high school yearbook, *My Mooi Land*, has remarkable durability, travelling far and wide. It reaches Ronnie Kasrils, sitting in Tanzania. "The ANC in exile take it as a sign that maybe young Afrikaners are more open," says Garman. "Ahmed Kathrada reads the poem in *Huisgenoot* while imprisoned on Robben Island and he reads it again at his homecoming in Soweto in 1984. A young Weekly Mail journalist is there and he asks: 'Who the hell is this person?'"

The mid-1980s are a tough time for Krog. She becomes profoundly disaffected and throws her lot in with the township Comrades. Still, her artistic capital is high. Her poetry books sell in the thousands, seldom going out of print and regularly being anthologised. No self-respecting lover of Afrikaans literature - particularly women - are without either a full or a close-to full, collection.

In the late 1980s she becomes part of the Afrikaans literary and political delegations to visit the ANC overseas. These delegations, with figures like Van Zyl Slabbert and Breyten Breytenbach prominent, serve to keep her name in the public milieu. And Pippa Green and Frantz Kruger ask her to join their SABC team to cover the TRC, as South Africa begins her path to democracy, a choice both confounding (Krog has no journalistic credentials) and entirely plausible (given her public standing created all those years ago). "There have been ways in which she's been extraordinarily brave - in the 1980s for example," says Garman. "And she's been brave in ways I haven't, where I've been far more careful about risk and reward. She seems to me to be very impulsive and supremely self-confident. I like and I'm interested in women who will not be constrained and censored."

Luke Alfred

# THE VICE-CHANCELLOR'S DISTINGUISHED SENIOR RESEARCH AWARD

Professor Catriona Macleod



Professor Catriona MacLeod  
Photo: Paul Greenway/3pphotography

She wrote her PhD on the subject of scientific and professional practices around teenage pregnancy. It was from this work that the programme's ambit was developed, although broadened to include a range of issues concerning sexualities and reproduction. The research programme aims to conduct critical research that addresses the social and human dynamics underpinning the slow progress towards full sexual and reproductive citizenship for all. Researchers in the programme scrutinise the politics and practicalities of sexualities, reproductive decision-making, pregnancy and abortion in ways that re-frame them, allowing us to think about them with new insight and the shock of fresh recognition. "For example," says Macleod, "one of the key contributions this unit would like to make would be to re-theorise our thinking around unintended pregnancies through the notion of supportability. We see this type of re-theorising as an emancipatory project."

From her days 20-odd years ago at the Wits Rural Clinic and working alongside various community-based health projects, Macleod was always interested in what she calls "technologies of representation and intervention". "I was interested in how the rural teachers and nurses were talking about teenage pregnancy," she says. "They would tut-tut and wring their hands and say, 'oh, isn't this terrible', but we discovered that age per se isn't the problem [as far as teenage pregnancy is concerned], it's rather the intersection of access to health care and poverty. The revisionists argue that early reproduction is beneficial when you live in circumstances of poverty as you have more access to care resources."

Indeed, the programme aims to get beyond rights-based practises and discourses in its study of sexuality and reproductive health. The unit is generally suspicious of the language of rights in the public health domain, noting that not only is it far from an ideal foundation for legislation but that its practical failings are transparent. "The practice of abortion provision doesn't flow naturally from a rights framework," says Macleod. "Something like just above 50% of the facilities are actually working. What we find is that there isn't always the will to exercise the rights framework because the rights framework doesn't necessarily gel with how people think about sexuality and reproduction."

As an alternative to a moribund (and sometimes practically inefficient) rights-based abortion discourse, Macleod and the programme suggest a discourse around "Reproductive Justice, Ubuntu and an ethics of care". The advantage of such a language would be, according to Macleod, "to extend a rights

**ONE SENSES SOMETHING** quietly challenging lingering in the air when stepping into the home of the Critical Studies in Sexualities and Reproduction programme in the south-eastern corner of the Rhodes campus. The impression is given added weight when meeting Professor Catriona Macleod, head of the programme and a SARChI Chair since 2014. She's friendly yet formidably clear-sighted, warm yet almost zealously unsentimental.

discourse within a more grounded and grassroots type-approach to the philosophy of rights."

Whether they take place within the context of a rights-based or a Reproductive Justice, Ubuntu-framed "ethics of care", such interventions - and investigations - often require understanding, time and extreme sensitivity. Many of the subjects under investigation are effectively taboo, and it can take weeks - if not months - to gain subjects' trust and co-operation. This said, there are times when Macleod and her Postgraduate researchers have been pleasantly surprised.

Research has recently been done by one of Macleod's students into the talk of young black men to menstruation, with the work being driven by a young white man. While, common-sensically, such enquiry might have appeared destined to fail, the results were quite the opposite: "When we asked them [the young black men] about their experiences of the focus group discussions, they said that having a white man facilitate allowed them to speak, because to do so was taboo in isiXhosa 'culture'" says Macleod. "It allowed them the space and the freedom to talk openly."

Another Postgraduate researcher in the programme has undertaken fieldwork in Zimbabwe in order to come to a deeper understanding of unsafe abortions. Very little work (or field work, for that matter) has been done in the rest of Africa into the topic, particularly from psychologists, and although the male researcher might have expected to be confronted with closed doors and uncooperative, frightened subjects, given the stigma surrounding the issue, this wasn't the case. Indeed, those interviewed often felt relieved, even unburdened, by talking out their pain.

While there is a great deal of personal and institutional empathy towards women who suffer as result of sexual or reproductive related trauma (e.g. sexual violence or undertaking their own abortions), Macleod is wide-ranging in her analysis of the limitations which seem inimical to the public health care system. Take the role of what she calls "health service providers" in antenatal care, for example. "What's fascinating is that they sit between two pressures: pressure for them to avert maternal mortality - there is an expectation from above for them to accommodate and deliver excellent service - and, on the other hand, the hard reality of queues and queues of people. They have to find creative ways of negotiating these contradictory pressures. Being caught, as they are, between two pressures, makes it easy to pass the pressure downward and moralise. Nurses are systemically in extremely invidious positions."

Macleod's final quote not only shows how the unit thinks but how she goes about theorising her way through the maze that is sexuality and reproduction in contemporary South Africa. Firstly, there is a close reading, something subtle and nuanced. Behind that is the wellspring of compassion, an understanding that nurses and public health care providers are often in jammed, contradictory positions. It makes for a robust project, one about which Macleod, who has just a pinch of the evangelist about her, is justifiably proud.

Such pride extends to the university community as a whole, who recognised Macleod's intellectual pedigree when she was awarded the Vice-Chancellor's Distinguished Senior Research Award for 2015. It was the second time Macleod's has won a Vice-Chancellor's award - the first was the 2012 Book Award.

A scholar with "an outstanding critical profile", peer reviewers have chosen to characterise Macleod as "the most eminent critical feminist psychologist" at work in South Africa today. She has published widely and over long period, combining methodological sophistication with a sensitivity to 'down-to-earth' issues around pregnancy, reproductive sexuality and citizenship that are mainly of a social justice nature. Not only is she highly regarded as an academic and a supervisor but she was appointed as editor-in-chief of *Feminism & Psychology*, the prestigious international journal in 2013, and was selected as the convenor of the International Conference of Critical Health Psychology last year.

**Luke Alfred**

# THE VICE-CHANCELLOR'S DISTINGUISHED RESEARCH AWARD

Dr Adrienne Edkins



Dr Adrienne Edkins stands at the Graduation Ceremony, as Dr Peter Clayton, DVC: Research and Development, reads the citation for the Vice-Chancellor's Distinguished Research Award  
Photo: Paul Greenway/3pphotography

In conversation about her high-school education, several themes emerge. She talks about the school dress code (tastefully conservative) and the fact that students at her all-girls school weren't allowed to bring school lunches. "Food and unequal access to different types of food can very easily breed inequality," she says, as she goes on to detail the egalitarianism and stress on fairness of her high school upbringing.

To her comment about food she adds the more general reflection that her school inculcated an ethic not only of equality but one of hard work. The prevailing ethos was that working hard was a value in itself - there were no short-cuts to understanding and success.

Such an ethic has served Edkins well. She already ranks amongst some of the most productive researchers at the university, although she is at a relatively early stage of her academic career, and this she combines with an impressive publication and Postgraduate supervision record. As far as publications are concerned, she has edited two books, six chapters of books, as well as writing 26 journal papers. To this impressively long list can be added a range of conference and other presentations.

While a hard worker, Edkins is also fundamentally curious. One doesn't automatically associate curiosity with research into cell stress and cancer biology but it is this very curiosity which has driven her research and quest for knowledge, as it relates to human health in general and breast cancer studies in particular. Her review of cancer stem cells and metastasis (Lawson et al., 2009) has attracted a high number of citations, including several from top international researchers in the field of cancer biology. This, when combined with all the other facets of her output and research, is what has led to her receiving the prestigious Vice-Chancellor's Distinguished Research Medal.

In 2011 she was appointed Director of the Biomedical Biotechnology Research Unit (BioBRU) alongside her scholarly and teaching role in the Department of Biochemistry and Microbiology. She quickly established a highly productive 20-person research team, which contains a wide range of personalities with some fascinating outside interests. The team includes three Postdoctoral Fellows and nine PhD candidates; Edkins has supervised or co-supervised eight PhD and 22 Masters graduates to completion.

Adrienne Edkins has won competitive research grants from the MRC, CARISA, CANSA and the NRF, including a major

WHILE Dr Adrienne Edkins' research and teaching record in the Department of Biochemistry and Microbiology is impeccable, it is perhaps more germane to hone in on the value system which underpins her quest for academic excellence. Edkins, for example, was educated at secondary school level in post-independence Zimbabwe, an excellent system based on the British model, which gave her an enviably solid foundation on which to build her future interest and career.

NRF equipment grant. Moreover, she has translated these grants into publications and Postgraduate training, and into collaboration opportunities with leading researchers both national and international (such as with Professor Didier Picard, University of Geneva, through an NRF-Swiss Collaboration Grant).

In addition to her exceptional research contribution, Dr Edkins has a strong track record in promoting the public understanding of science, and has excelled in teaching at both undergraduate and Postgraduate levels. She was nominated for a teaching award in 2014.

In 2015 Dr Edkins was awarded the prestigious National Research Foundation SARChI Chair in Molecular and Cellular Biology of the Eukaryotic Stress Response, enabling her to devote her working time to research and Postgraduate students.

Her referees have the following to say about her: "Dr Edkins has already achieved national recognition as an expert in her field of research, and is well on her way to broader recognition... through invitations to review journal articles from well-respected international journals, and invitations to review grants from international funding bodies."

To quote another: She is an "outstanding researcher for her career stage" with "an impressive research track record".

**Luke Alfred**

# THE SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE

RESEARCH CHAIR: *Global Change Social Learning Systems Development: Transformative Learning and Green Skills Learning Pathways* - Professor Heila Lotz-Sisitka.



Professor Heila Lotz-Sisitka  
Photo: Paul Greenway/3pphotography

Such work dovetails neatly with Lotz-Sisitka's work as the SARChI Chair in Global Change Social Learning Systems Development (GCSLS). Her and the Centre's work is explicitly concerned with transformative social learning and green skills learning pathways development. As Lotz-Sisitka writes in her proposal for the SARChI Chair, awarded in February 2015: "[The work] addresses the core research question on social learning in the Global Change National Research Plan (DST 2010), which seeks insight into processes and systems for enhancing global change social learning."

Before continuing, a word or two about the concept of social learning. The phrase is best understood via the pioneering work done by the developmental psychologist, Lev Vygotsky, who was trying to develop a form of transformative, collective learning in the USSR in the 1930s. He argued, according to Lotz-Sisitka, that all learning takes place on the social plane first, and is then internalised by individuals. Such learning gets further transformed and ingrained by engaging communally - in social activities.

What this means, in effect, is that learning emerges via social dialogue, application and participation in activity. Social learning is a key medium through which groups, classes and communities develop, coming to a deeper understanding of their environment by acting within it. As Lotz-Sisitka says in her motivation for the SARChI Chair: "Learning leads development."

Learning also allows groups and communities to develop an understanding of the environment and the challenges facing people in environments, whether these relate to global warming or water scarcity. As Lotz-Sisitka points out: "The mean annual temperature in southern Africa is expected to rise by between six to eight degrees in the next 100 years - that is if there is no substantive mitigation. It is difficult to understand the impact of this because it lies so far in the future. And for many, what isn't that immediate doesn't seem to be too pressing. Yet such impacts of global environmental change will impact on each and everyone's life in fundamental ways."

A good practical example of an activity leading to social learning would be the activity of clearing alien species vegetation from the mountain slopes of Mpumalanga. In the Blyde River Canyon, says Lotz-Sisitka, there are several bodies doing pretty much the same thing: a high altitude clearing team, a Department of Water Affairs clearing team and several supportive NGOs. Yet none of them talk to each other and

IT IS NOT EASY summarising the work of Professor Heila Lotz-Sisitka and that of the Environmental Learning Research Centre in a word, let alone two or three. They stand at the junction of many things, most obviously at the interface between new research in the fields of climate change, biodiversity, water scarcity and environmental politics, and the way in which such learnings can be practically applied, whether these are in school curriculums or in civil society at large.

there is no pooling of knowledge or resources. While the ecologically-sensitive attitude is there, more is needed to strengthen collaboration and cohesion for greater impact. "They do parts of the whole - and can do those parts quite well - but they don't get together to synergise the whole," she says. "This is a real issue in our society, where people and organisations tend to stay in their silos." Hence the need for greater attention to transformative social learning and green skills learning pathways.

Besides learning that much work in the broad environmental and water scarcity sphere tends to lack social cohesion, the Environmental Learning Research Centre is also aware of a need to work on "underlying issues". "We've learned to work on the underlying issues around transformation - both practical and theoretical," says Lotz-Sisitka. "We have a reflection-based side to our research and that has been useful because it generates new forms of action and reflection. We've also learnt that you have to work simultaneously at the level of system and practice. That dialectic has been important over the years because if you just concentrate on the one that can be a problem."

Lotz-Sisitka is also sensitive to what's going on in the rest of the world in terms of green and environmental issues. She says that social justice activism in Latin America routinely deals with environmental issues, and she is interested in the new ecological economics being developed internationally by, say, Bob Jessop and former student, Leigh Price. "Elsewhere in the world there is a far bigger commitment to thinking through the issues and politics of green economics," she says, adding later that she would always plump for an expanded view of what constitutes that old South African chestnut, 'transformation'. "Transformation should ideally include thinking about water scarcity and climate change," she says. "Activist groups in India and Latin America are busy compiling an atlas of environmental justice movements, which sounds like a very interesting initiative."

One of the problems with transformation is a certain distance between theory and practice, something about which Lotz-Sisitka is keenly aware. "There's a lot of science going on - take research into water scarcity, for example - but it's not always applied," she says. "The research is produced in reports but that doesn't mean that it always finds its way into social systems. As a Centre we work with research-based knowledge on specific issues like biodiversity and then work on programmes that activate knowledge of these issues in local community contexts, bringing scientific and everyday

## knowledge together in various educational settings."

So, for example, the Environmental Learning Research Centre has pioneered some high school Life Science curriculum training for teachers around an issue like biodiversity. The Centre has found that while such knowledge is instinctively and warmly received, those driving it can struggle with what is called a 'newness factor', meaning that the knowledge is often new to people. "We generally concentrate on a broader science-society interface," says Lotz-Sisitka, adding that social learning is philosophically and practically important in changing views and mind sets because it is less abstract than purely academic learning.

"In the SARChI Chair, we are trying to support collective learning at multiple levels as a way of contributing to changes in human activity," she continues. "Often such learning processes are supported at community level but you can also have social learning at, say, teacher education level. Ultimately we're trying to strengthen the education system as a whole to make it more sensitive to green issues. How, for example, do you train electricians around green issues and renewable energy and get that new technical knowledge into the education system?"

"Some of our earlier research shows that the country is reactive to responding to environmental concerns from an education and training system perspective. In building the green skills that we need for current policies, the system is literally 10 years behind. And so, for example, one finds that South Africa currently doesn't actually have enough skilled scientists or technicians to enact the environmentally friendly practices that are required by our policies, so there is a real disconnect there".

This, perhaps, is one of the most institutionally challenging aspects of this SARChI Chair. You get the feeling with talking to Lotz-Sisitka that she believes that when confronted with the scale of the environmental crisis facing the world, that most individuals and communities respond seriously to the perceived threat. When it comes to dealing with larger institutions and organisations, however, their capacity for change is suddenly in inverse proportion to their size.

How to cross boundaries between small individual groups and larger societal structures with social learning in order to effect change in response to critical issues is an interesting research challenge for the Chair. It might be helpful to understand the Environmental Learning Research Centre as a kind of hinge, in that they hold the frame of new knowledge to the constantly swinging door of society. There is an open, welcoming house, supporting 50-60 Postgraduate students currently as they seek to understand and address - and even ameliorate - some of the most pressing environmental issues of our time.

Luke Alfred

## THE SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE

RESEARCH CHAIR: *Geopolitics and the Arts of Africa: Agency, Diversity and Democratisation* - Professor Ruth Simbao.



Professor Ruth Simbao  
Photo: Paul Greenway/3pphotography

radical expressions of contemporary geopolitics. I'm probably most comfortable at those intersections, and in my view it is in these interdisciplinary interstices that the most cutting-edge work is being done."

In her capacity as the National Research Foundation SARCHI Chair in 'Geopolitics and the Arts of Africa', Simbao argues that artists and scholars in Africa need to find a way of challenging - and subverting - dominant perspectives from the 'north', an intellectual strategy she refers to as 'strategic southernness'. Simbao has a strong awareness of the complexities of what the 'south' might mean, and her notion of 'strategic southernness' focuses on strategic acts of re-writing that are based on self-identification and the production of knowledge that is contextually embedded. "Strategic southernness' and 'sideways' engagement with the rest of Africa and other parts of the 'global south' are critical at this socio-political and socio-economic juncture", says Simbao, "but it is important to view such strategies as temporary and conceptually fluid. We shouldn't need the same strategies in the future if the disruptions to dominant discourses have significant impact."

Simbao has been instrumental in attracting Postgraduate students to the Fine Art Department at Rhodes University, and there are currently 19 Postgraduates in the SARCHI Arts of Africa Research Team (AART). "We are at a critical point in the shaping of the international discourse of the contemporary visual and performing arts of Africa, and there is a need for more scholarly writers on the African continent to play leading roles in shifting the centre of gravity of the global academy so that the artwork on the continent is not predominantly theorised by the 'north' as if it is merely raw material for the consumption of scholars elsewhere". Much of the research of the SARCHI Arts of Africa Research Team is about re-positioning Africa and situating the production of knowledge on the continent without being territorial or theoretically regressive.

"There is a tendency in the discourse of contemporary art", she suggests, "to falsely assume that an emphasis on the African continent is driven by a conservative, continentalist perspective, as if Africa is not characterised by transcontinental and contra-flow movement". Her interest in spatiality is driven by the art world's simplistic fetishisation of mobility, and the

BY HER OWN admission, Professor Ruth Simbao is difficult to pin down as a scholar. While she trained as an art historian, she finds certain aspects of the discipline constricting. "Art history in the traditional sense can be quite boring and certain traits of its Eurocentric roots stubbornly and problematically persist," she says. "I prefer to talk about visual studies and to engage in an interdisciplinary way, bringing in, for example, issues of spatiality and mobility in human and cultural geography, as well as

false assumption that small, local places are not profoundly touched by movement too. "I have developed the term 'cosmolocalism'" she says, "as a way of moving beyond elitist notions of cosmopolitanism that too facilely imply that smaller spaces or specific local places are inevitably parochial".

The discourse is changing, however, and inroads are being made in terms of moving the dominant discourse of 'African art' away from the privileged institutions of Western Europe and North America. "It's an exciting time for our team to be engaging with these discussions, and in light of South African exceptionalism, it's important for the team to be made up of students, visiting writers and artists from other parts of Africa". In 2016 students, scholars and artists from Zambia, Zimbabwe and Uganda engaged with the SARChI programme, and the Chair is planning collaborations with scholars and artists in Ghana, Nigeria, Kenya and Ethiopia, as well other parts of the 'global south' such as Brazil, Cuba and Jamaica.

As part of the SARChI research programme, Simbao will launch a pan-African database and website in 2017 that connects and raises the profile of scholars in the visual and performing arts who are based on the African continent. The database and website aim to share knowledge in the discipline and increase the visibility of scholarly writers through monthly profiles, featured writers and links to scholarly articles. This year she also launched a publishing workshop that focuses on the production of articles in the discipline and which in the future will take place annually in different African cities. These activities, she argues gently, are a way of 'writing back' against the structures that have, since the early 1990s, dominated this relatively new international discourse. She views these activities as a means of hollowing out space for scholarly interventions by Africans in a discourse that is largely defined elsewhere and that tends to have a self-congratulatory tone.

**"The rhetoric typical of exhibitions of contemporary African art on international platforms is riddled with language of the 'first', the 'biggest' and the 'best'", she says. "This perpetuates the dominance of privileged arts institutions and ignores a lot of really good work that might take place in smaller spaces or alternative venues and that are not documented by exhibition catalogues and books that receive hefty funding".**

In response to such grandstanding, Simbao finds herself increasingly open to theoretical concepts of smallness, modesty and so-called failure, all of which cannily subvert the deforming gaze of the 'north'. "I've started to write about issues of scale and the positive embrace of failure in a non-linear and non-

hierarchical way", she says. Her goal is to prise open a strategic discursive space for her and others to explore "the small, everyday episodes and modest gestures in art and culture that subvert representations of spectacle that continue to plague perceptions of 'Africa' and 'African art'".

Simbao first engaged with alternative views of failure when she curated a performance by Athi Patra-Ruga, which according to the paying art audience did not pan out as expected, but which, to Simbao, was "a beautiful 'flop' that subverted the gaze of a privileged audience and instead communicated more meaningfully with passersby on the street."

In 2016, the SARChI Chair will revive the Residencies for Artists and Writers (RAW) programme that Simbao founded in 2014, which links scholarly writers from the African continent to artists. She is eager to invite the Ghanaian artist, Ibrahim Mahama, who drapes jute sacks once used to carry cocoa over large buildings as temporary installations. "Mahama's intervention could be a very power statement if he draped just sacks over a colonial building on campus or an apartheid-era building elsewhere in Grahamstown" she says with the merest hint of a smile.

## THE SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE

RESEARCH CHAIR: *South African Research Chairs Initiative (SARChI) Research Chair in Molecular and Cellular Biology of the Eukaryotic Stress Response. Dr Adrienne Edkins*



Dr Adrienne Edkins  
Photo: Paul Greenway/3pphotography

reason that there are nearly 300,000 species of beetle known, and perhaps more, as compared with somewhat less than 9,000 species of birds and a little over 10,000 species of mammals".

In the same way that the creator had a passion for beetles - according to Haldane - so Edkins has an inordinate passion for the cutting edge research that produces new bio-tech and pharmaceutical knowledge. She is also big on good, old-fashioned curiosity, a word that seems to have retreated from the everyday vocabulary almost completely. "I believe you cannot innovate or produce products without any emphasis on the fundamental processes at the molecular level," says the recently awarded Department of Science and Technology and National Research Foundation SARChI Chair in molecular and cellular biology. "Research becomes the bedrock upon which you look for products and that research is founded on curiosity."

"In the States they have a really strong emphasis on curiosity-based research - that research, however, only takes place after the requisite attention to the fundamentals."

Edkins took up the SARChI Chair last November, and other than the immediate kudos of her appointment, come the far more important - and tangible - benefits of academic and research freedom. With the grant, perspectives widen. Research becomes more widespread. "This funding allows you to be more fluid," she says. "And you have a programme which includes a whole lot of discrete projects. The grants gives you time and space and resources. You can free yourself from a narrow view and a perspective on a tight, targeted area. We've got quite a diverse set of personalities at Postgraduate level in the department but they are united in their desire to know more. Questions should open onto and find other questions."

Her research and the research of those around her is still intimately focussed on how cells respond to environmental and physical stress. The cells' stress response - which is primarily about the disruption of their ideal 3-D structure - can lead in one of two directions: towards the promotion or the prevention of disease. In certain diseases (such as Alzheimer's) you ideally want to activate the stress response to overcome the clumping of protein in the brain; in others (like cancer) one is ultimately looking to inhibit the stress response as the best

NOT FAR FROM THE front door of Dr Adrienne Edkins' office in the Rhodes Biological Sciences building is a mounted cabinet. Situated diagonally across the hall, the glass cabinet is illustrated with the famous JBS Haldane quote about him having "an inordinate fondness for beetles". The quote is slightly misleading, for what Haldane actually said is that the "creator" appears to have both a passion for stars and a passion for beetles, "for the simple

way of fighting cancerous tumours and malignant growth. "Researchers are finding now that some of the drugs which weren't appropriate for dealing with cancer might be useful for Alzheimer's patients."

Given the foundation of stress-response-related research in Edkins' team, they are well-placed to make good on her ambition to become "world-renowned" in their field. Edkins says her labs are well-equipped in international terms and that her and her colleagues are capable of competing with the best. She confronts, however, a range of problems peculiar to South Africa. "I get somewhat disheartened by the brain drain," she says. "I want to keep the Postgraduate students and researchers here but I also want to exchange knowledge with the international scientific community. International relevance translates into local relevance. Not only do I want to provide opportunities for students for travel and training but I want to realise some tangible benefits from our research for the man on the street."

The other very real issue that affects her and the department is that of the falling Rand. "If the Rand slips suddenly relative to stronger currencies, then our grant is halved," she says philosophically, adding that chemicals that might take a day to order in Europe can take six weeks in South Africa. Local intermediaries don't hold sufficient stock, so orders from the department need to be passed on the suppliers in Europe before being routed through locals. "Our productivity would go through the roof if we found ourselves able to order chemicals in a day," she says. "This means that I tend to order six weeks in advance because I don't want to waste any time - I sometimes feel as though I'm conducting a war."

Almost in the same breath she concedes that South Africa's distinctive features - distance from Europe, a volatile currency - can have hidden advantages. It can make for better long-term planning, for example, and more care. On the down side, because she has to plan so far in advance, research experiments can take on a slightly deterministic and pre-programmed feel. If experiments get planned in groups of five, what happens if the findings of the first experiment render the outcomes of the next four null and void, she asks? Such constraints, Edkins believes, compromise competitiveness. "Unfortunately we just can't be

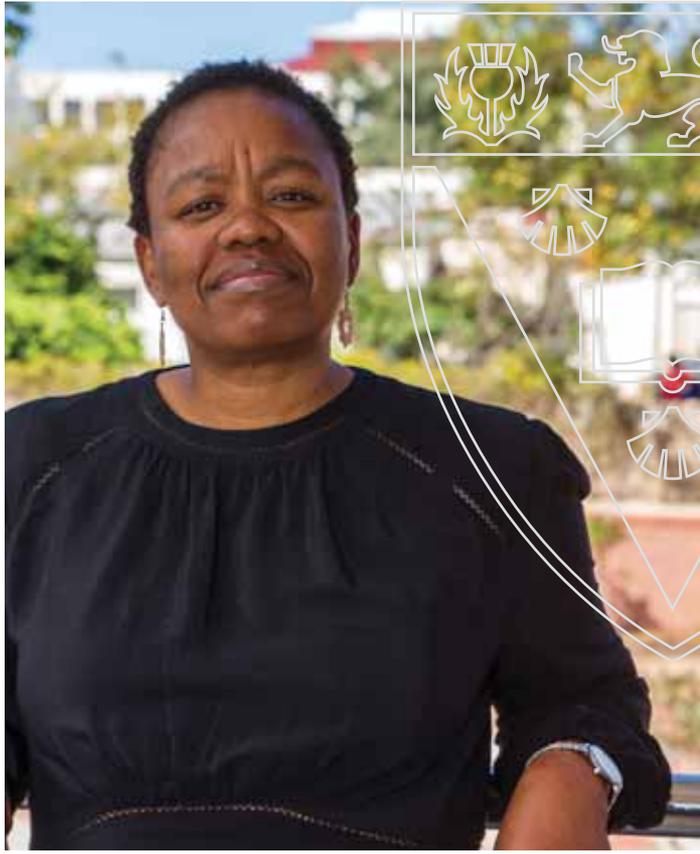
as efficient as the international laboratories," she says. "So we have to make up for it by being unique in our approach."

Besides the petty irritations of the job, Edkins is quick to point out that she will always be eternally grateful to the institution for supporting her SARChI application. "I'm fairly young to have a Chair and I recognise that I've been given a wonderful opportunity," she says. "I'll always be thankful to the institution to be one of the nominated people. They always supported me. I was never prevented from trying by Rhodes University. I'm appreciative that my age and relative inexperience weren't seen as barriers by the university supporting my application."

**Luke Alfred**

## AFRICAN LANGUAGES

*In nothing, we have everything* - Nomfazwe Mankomo



Associate Professor Pamela Maseko  
Photo: Paul Greenway/3pphotography

**DURING THE FIRST** twenty minutes of our interview, Associate Professor Pamela Maseko of the African Languages Studies Section of the School of Languages and Literature, mentions her departed grandmother three times. This she does casually, almost unthinkingly. It transpires when questioned that her grandmother, Nomfazwe, was probably the singular most significant influence on her life.

While sense of place remains important - Maseko comes from Clarkebury, approximately 60kms west of Umtata - her grandmother occupies a privileged place as singularly the most important influence on her life. Although she died in 1981, there was something precious

and vital about her. She was, in many ways, an emotional and intellectual spring. "She was proud of self and did everything to instil pride in her children and grandchildren," Maseko remembers. "She instilled the culture of pride and hard work and an appreciation for the other as well as for yourself. She often told us: 'In nothing, we have everything'."

Despite the profound influence of her grandmother, education was traumatic for Maseko, as it was for others of her generation. She attended the Mount Arthur Girls School in Lady Frere, a school with vestiges of its missionary past, although by the time she got there it had been taken over by the Transkei education authorities.

Having seen her grandmother interact with and manipulate her natural environment using indigenous ways of knowledge, as well as hear her predict in isiXhosa when the rain would come, it was a wrench to suddenly learn everything in English. Her language and culture, she felt instinctively, was being subtly repudiated (the word Maseko uses is 'rebuked') and with it all the assumptions about her linguistic heritage were being threatened. The gauntlet having been thrown down, the young Maseko responded: "It wasn't a challenge I was prepared to give up. My studying would always be accompanied with a Thesaurus, a Dictionary and an encyclopaedia. I persisted."

The experience of being hauled out of one language and - symbolically - being 'baptised' in another, left a profound impression on Maseko. It sharpened her sensitivity to the ideological imperatives of dominant languages and probably started her lifelong quest to study and preserve isiXhosa. "My experience is the experience of how language and society interact," she says. "Of how certain languages are given prestige and take dominance and others are dominated and marginalised. My relation to language while growing up gave rise to my professional interests. More importantly, it has also made me aware of the power of education, how this institution can maintain and transmit some languages and knowledge, therefore constructing "power and prestige" around them, while craftily marginalising others."

Having said this, Maseko gets mildly annoyed with those who harangue others about indigenous languages' moral claims. She points out that except for them being used as forms of communication, there are far more important claims to be made about the value of indigenous languages in terms of cognition. The right to speak your language, as enshrined in the Bill of Human Rights, is not enough, if one cannot use this linguistic right to understand and process new knowledge in the context of one's past experiences, and ways of knowing. Therefore, one's language should benefit one in the acquisition

and production of new knowledge, especially in the learning process.

She doesn't fully expand on the point but presumably what's important is the growth of the young brain and the widening of the synapses when languages are being learned and acquired side-by-side. Access to both repertoires enrich and grow the young student. It is important, she concludes, that teaching in a second language is of high quality, and draws from one's past experiences and knowledge.

Given her openness to language and the way in which it is transmitted, Maseko gravitated naturally to what was going on in isiXhosa society during the second half of the 19th century. As subjects of the Cape Colony and the British Empire, amaXhosa had rich cultural and linguistic capital - but with the missionaries driving the writing and documentation of the language, this knowledge was often censored from written sources because it was seen as 'sabotaging' the purpose of the missionaries and imperialists - to evangelise the 'natives' and turn them into British subjects. So, as a way of escaping this bowdlerisation, the Xhosa literates of the time turned to newspapers and wrote about Xhosa society: its political history, politics of governance, law-making, language, culture, contemporary politics, and genealogy of uXhosa. Indeed, some of these newspapers - like *isigidimi SamaXhosa* (Xhosa Express) 1870-1888, *Izwi Labantu* (People's Voice 1897-1909) and *Imvo zabaNtsundu* (Black Opinions 1884-1998) - were less like newspapers as we understand them today, and more like encyclopaedic handbooks capable of commenting upon and preserving virtually everything deemed culturally important.

They contained everything from the interpretations of historical events such as the great Cattle Killing, to folk tales and stories, according to Maseko. Writing and letters to the Editor came from far and wide and engagement was robust, although the papers were read primarily in the Eastern Cape area around King William's Town, where they were printed. "All the literates would read the same newspapers," says Maseko with the verbal equivalent of a wink and a nudge.

Censorship by the missionaries, however, was ever-present, so having your own indigenous newspaper with an isiXhosa-speaking editor was a way of shoring up a nation's culture and identity against outside threat. "These newspapers wrote about folk tales and ordinary stories, but also other knowledge about ways of knowing of amaXhosa, for example, their conceptual understanding of, and relationship with, nature, the relationship between the physical and the spiritual world," she says. "They wrote what I was familiar with. I have also come to debunk some

of the widely held myths over gender relations in Xhosa society especially about submissiveness of women - that once married, for example, that they couldn't own property - land or livestock, the chief repositories of wealth in precolonial Xhosa society. Gender relations get clarified and deepened by reading these newspapers. [William Wellington] Gqoba writes intricately about what warfare entails in Xhosa society...and in part his writing about this are a rebuttal of reasons often given about the catastrophic cattle killing of 1856 - that the intention was for amaXhosa to go to war, and drive the White people away from their territory."

Many of Gqoba's letters are taken from Jeff Opland's vast collection of Xhosa newspapers. They have recently been anthologised in a volume edited by Jeff Opland, Pam Maseko and Wandile Kuse, entitled *William Wellington Gqoba: Isizwe Esinembali - Xhosa Histories and Poetry* (1873-1888). Gqoba, a Xhosa polymath and man of letters, who wrote subversive poetry, collected anecdotes and preached for much of his life, was also compulsive letter writer. The unique - and often good-natured - flavour of his letters have been preserved to wonderful effect in the recently-published book. "Don't grow weary from my daily appearance in this newspaper," Gqoba writes winningly in the opening sentence to yet another missive to the editor, an introduction which prompts Maseko to remark that, as editors, they wanted to retain the letters' authentic feel and style of writing.

"If we translated them into 'good' English we would be losing their 'Xhosa-ness' if I can say that," she says. It's a well-made point, one both ideological and literary, because reading Gqoba's letters - even if only briefly - takes us back to a time where forms of address were not only quaint but charming.

Luke Alfred

The writings have been collected in a series, *Publications of the Opland Collection of Xhosa Literature*, with Jeff Opland, Pam Maseko, Peter T. Mtuzi and Wandile Kuse as General Editors of the series published by UKZN Press. *WILLIAM WELLINGTON GQOBA ISIZWE ESINEMBALI Xhosa Histories and Poetry* (1873-1888), was the first in the series. This was followed by *D.L.P YALI-MANISI IIMBALI ZAMANYANGE Historical Poems*. Both volumes were published in 2015. The third volume is *JOHN SOLILO UMOYA WEMBONGI Collected Poems* (1022-1935), and the fourth, in preparation to be published in 2017, is by SEK Mqhayi, the most prolific Xhosa writer in the late 19th century and first half of the 20th century. One volume per year will be published for the next 8 to 10 years. Publishing these collections has enabled reconstruction of a historical literary past that was erased for various reasons after contact with the West. As Pam Maseko says, the intention is not to glorify this literary past but to understand where we are and where we are going.

## DEPARTMENT OF HISTORY

*'To be rooted, is perhaps the most important and least recognised need of the human soul.'* - Simone Weil



Senior Lecturer Dr Nomalanga Mkhize  
Photo: Paul Greenway/3pphotography

**NOMALANGA Mkhize** (Senior Lecturer, Department of History) attended six different primary schools before her first year in high school. Her father's ANC affiliations meant that her early education was essentially a journeying between places of safety, a ceaseless shuttling between Mpumalanga, KwaZulu-Natal, Swaziland and Zimbabwe.

While disruptive, such movements afforded her the privilege of staying away from South Africa's endemic violence in the late 1980s. She was also, she says, able to see South Africa from a very different vantage point, living in a highly intellectualised environment in which nostalgia for home was so deep it qualified as a form of identity. "My parents were very sensible," says Mkhize matter-of-factly about the exile days and days on the road. "We always had a suitcase

packed and a passport close. When we were younger we were always encouraged to like our passport stamps."

After years of to-ing and fro-ing, Mkhize finally settled down in 1994, earning a scholarship to Epworth, a Methodist school for girls in Pietermaritzburg. Listening to her carefully suggests that she was ambivalent about the school. On the one hand, she talks of "the seclusion of the bubble," something, she says, which can drive black kids crazy; on the other, she admits that she was "not unhappy" at Epworth, despite the culture shock and the sense of seclusion. For the first time in her life she wasn't moving around. There was continuity - even if a sense of complete belonging remained elusive - and she matriculated from Epworth in 1998.

Mkhize has spent all her university years at Rhodes, with the exception of her PhD thesis, which was done through UCT. When it came to her PhD, a study of the politics of game farming in the Cradock area of the Eastern Cape, she found that her exile experiences in Zimbabwe and Swaziland served her well. She saw in the townships of Cradock, for example, kindred spirits and at-odd souls, exiles - or partial exiles - like herself.

"To me everyone in Cradock feels like an exile person - and many of them are, a high proportion having received military training in the former East Germany," she says. "I lived in Cradock [while researching some of her PhD thesis] because it felt like exile. People felt the specialness there. The people carried something and it felt like a community that loved itself, although the ANC guys I met are just like shattered souls."

Her research was done in conjunction with two Dutch anthropology students from the Vrije Universiteit, Amsterdam but Mkhize frequently found doors being slammed in her face before she had even knocked on them. Local game farmers didn't want to have anything to do with her project, despite the fact that access had in some cases been brokered beforehand and it was a struggle from beginning to end to get going. She describes the early months of her research in the area as "hell".

Farmers young and old certainly didn't want to help, and she found it a debilitating few months, with academic pressures from the one side and lack of co-operation from possible interviewees, on the other. Eventually, finding game farm gates locked and minds bolted, Mkhize called in a favour or two. She made some calls to old contacts in the Karoo and suddenly she was given the access she had struggled for.

At the same time, she was finding that her thesis was subtly changing shape. It was transforming itself from an investigation

into the practices of game farming, to a more orthodox social history, looking at the lives of labouring families and their long years on Karoo farms. With a change in perspective, came a change in approach. "I realised that people didn't express an immediate rootedness to land," she says. "I had to talk to people differently because their access to the land had been broken. So I was forever telling my fellow researchers that you couldn't approach things directly. You had to be more subtle and listen more carefully."

She also realised as she was embarking on her social history that labourers and former labourers became used to engaging in a type of emotional subterfuge - a matter of survival as much as anything else. "It became very clear to me that you realise that you have to suppress dislike in order to survive. There's pretence working," she says. "You might have to play to the master sometimes because one day you might need someone to take you to hospital. So we found ourselves in a situation where everything isn't as it seems."

She doesn't say this in so many words but reading between the lines suggests that Mkhize was happy she had the intellectual courage to change the gist of her thesis. It felt more honest to her, less pre-defined, particularly as she is generally suspicious of an academic practice that uses research to arrive at foregone conclusions. "The whole irony at the end of it was that the black woman was said by the farmers to be more objective," she said.

Spending months in Cradock and its township also sensitised her to the mess that is contemporary land reform. "A lot of the original white farmers in the area shot out the original inhabitants," she says. "At the same time you can't really talk about land restitution in Cradock because not even the Nats could keep people there - it needs too much water. It's a mess. You need intelligent land reform and that's not something people are getting."

**Luke Alfred**

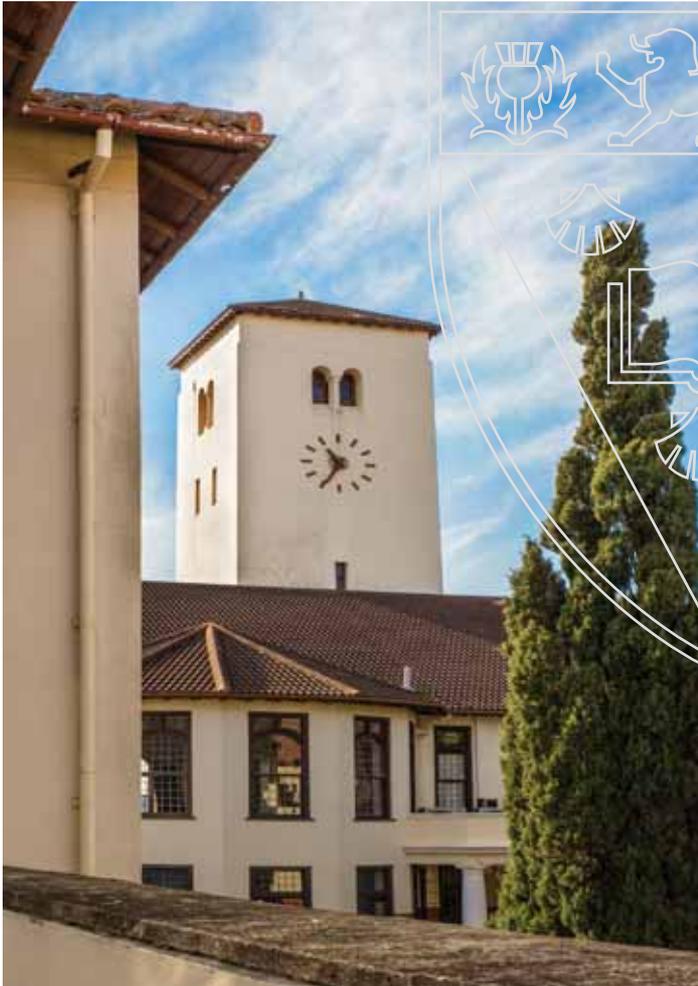
TWENTY

15

Departments



## VICE-CHANCELLORATE & ADMINISTRATION



The Rhodes University Main Administration Building  
Photo: Paul Greenway/3pphotography

### Peer Reviewed Subsidy-Earning Journal Research Publications

**Mabizela, S**

Ballim, Y., **Mabizela, S.** and Mubangizi, J.C. (2014) Professional bodies and quality assurance of higher education programmes in South Africa: Towards an appropriate framework. *South African Journal of Higher Education*. 28 (4). p 1140 -1155.

**Obers, N.**

**Obers, N.** (2015) Influential structures: understanding the role of the head of department in relation to women academics' research careers. *Higher Education Research and Development*. 34 (6). p.1220-1232.

### Concerts, Exhibitions, Performances, Workshops, Events

**Jacob, A.P.**

**Jacob, A.P.** Presentation. Optimising Research Partnerships for a sustainable future: Improving Partnerships - Best Practices at Rhodes University. *6th Annual NRF Research Administrators Workshop*. Summerstrand Hotel, Port Elizabeth. South Africa. 30 September - 3 October 2015.

### Peer-reviewed Proceedings

**De Klerk, V.A.**

**Botha, F., Snowball, J.D., De Klerk, V.A.** and **Radloff, S.** Determinants of Student Satisfaction with Campus Residence Life at a South African University. *XI International Society for Quality-of-Life Studies (ISQOLS) Conference*. Ca' Foscari University of Venice, Venice. Italy. November 2012.

**Halse, G.A.**

**Halse, G.A.** Extending Eduroam into South African Townships. *TNC15 - Connected Communities*. Alfândega Congress Centre, Porto. Portugal. June 2015.

**Kohly, N.**

**Tandlich, R., Luyt, C.D., Irwin, B., Thinyane, H.** and **Kohly, N.** Proposed Paradigm and Potential Problems with Non-Governmental Information Sources About Microbial Drinking Water Quality Information in South Africa. *15th International Multidisciplinary Scientific GeoConference SGEM 2015: Ecology, Economics, Education and Legislation*. Albena Resort, Albena. Bulgaria. June 2015.

# CENTRE FOR HIGHER EDUCATION RESEARCH, TEACHING & LEARNING

The Centre for Higher Education Research, Teaching and Learning (CHERTL) undertakes academic staff and student development through a variety of qualifications, short courses and other initiatives. Researching higher education processes and practices is a significant focus for the Centre and underpins much of our work.

In 2015, CHERTL celebrated as five (5) PhD and twenty-five (25) Postgraduate Diploma in Higher Education scholars crossed the stage at graduation. CHERTL staff, students and associates also published six (6) book chapters, fifteen (15) journal articles and presented eleven (11) conference papers.

## Postgraduates / Graduations

Twenty-five (25) academics graduated with a Postgraduate Diploma in Higher Education at the graduation ceremony on Friday 1 April 2015. CHERTL continues to offer this nationally recognized qualification both internally and to academics across the country.

In addition, five (5) CHERTL students were awarded PhDs, including:

- Kasturi Behari-Leak's thesis was supervised by Professor Chrissie Boughey and co-supervised by Professor Cecilia Jacobs, and titled "*Conditions enabling or constraining the exercise of agency among new academics in higher education, conducive to the social inclusion of students*".
- Langutani Masehela's thesis, supervised by Professor Chrissie Boughey, was, "*An exploration into the conditions enabling and constraining the implementation of quality assurance in higher education: The case of a small comprehensive university in South Africa*".
- Thandeka Mkhize wrote her thesis on "*An analysis of the certificate of the theory of accounting knowledge and knower structures: A case study of professional knowledge*", supervised by Professor Sioux McKenna.
- Eileen Sheckle conducted her research on "*Reading identities: A case study of Grade 8 learners' interactions in a reading club*". She was supervised by Professor Chrissie Boughey and co-supervised by Professor Monica Hendricks.
- Ruth Lesley Searle's thesis was titled, "*The supervisor's tale: Supervisors' experiences in a changing environment*". She was supervised by Professor Chrissie Boughey.

## Distinguished Visitors / International Visits

In March 2015, CHERTL collaborated with the Environmental Learning Research Centre (ELRC) to offer a joint 'Doc Week' with twenty-five (25) PhD scholars from Umeå University in Sweden. The week took as its theme: *Education, the public good and transformative practices: Understanding our research as a contribution nationally and globally*. Besides a number of research seminars presented by Rhodes University and Umeå University staff, all PhD scholars presented their own research in groups and reflected on the national and international contributions their work might provide.



The July 2015 "Doc Week" - part of the supportive structure provided to Doctoral students, which include guest seminars, debates, panel discussions, scholar presentations, and workshops.

Photo: Photo supplied by CHERTL

In July 2015, CHERTL enjoyed a visit from Professor Barbara Grant (Executive Editor of *Higher Education Research and Development*), and Professor Peter Kahn (Executive Editor of *Teaching in Higher Education*). They both ran a number of research seminars and also offered a workshop and a panel discussion on academic publishing.

In October 2015, CHERTL hosted a series of seminars by PhD graduates in which they reflected on their own research journeys and shared helpful practices. These presenters included Dr Sherran Clarence (University of Western Cape), Dr Thandeka Mkhize (University of Kwa-Zulu Natal), Dr Kasturi Behari-Leak (University of Cape Town), Dr Mary Masehela (University of Venda) and Professor Michelle Picard (University of Adelaide).

## Significant Research Aligned Events

CHERTL continued to run the National Research Foundation (NRF) funded project on '*Institutional Differentiation in South African Higher Education*' and the seven (7) PhD scholars attached to this project attended a Writing Retreat in July 2015. The eight (8) scholars from the NRF Social Inclusion in Higher Education programme (four of whom have now graduated) also attended a Writing Retreat at the end of the year.

CHERTL staff continue to collaborate in a number of other national and international projects, including the NRF funded



CHERTL staff and graduates  
Photo: Noxolo Ntintili



Graduand and ESU staff member Karen Ellery (centre) with supervisor Dr Chrissie Boughey (left) and CHERTL doctoral co-ordinator Professor Sioux McKenna (right)  
Photo: Noxolo Ntintili

'Enabling and Constraining Conditions for Staff Development' (Lynn Quinn and Jo-Anne Vorster), and 'Higher Education in Society: The influence of university participation on the life course of young South Africans' (Sioux McKenna). Funding was approved for a collaborative ESRC/NRF project entitled HE: 'Pathways to personal & public good: understanding access to, student experiences of, and outcomes from South African undergraduate higher education' which brings together researchers from Lancaster University, University of Bath, University of Cape Town, University of Free State and Rhodes University (Sioux McKenna and Amanda Hlengwa).

In November 2015, Amanda Hlengwa was a panelist at the Centre for Conflict Resolution in Cape Town, discussing her chapter in the book 'Being at Home: Race, institutional culture and transformation at South African higher education institutions'. Amanda was also interviewed on News 24 about this chapter, entitled: 'Reflections on attracting, developing and retaining the next generation of academics.'

CHERTL continue to manage the national supervision development course, *Strengthening Postgraduate Supervision* ([www.postgraduatesupervision.com](http://www.postgraduatesupervision.com)) with funds from the Department of Higher Education and Training (DHET) paying for the continued offering of the course. The course has now been offered forty-two (42) times at twenty (20) different public higher education institutions in South Africa.

In 2015, the partners from Vrije Universiteit and Rhodes University sought to extend this project beyond what can be achieved by a stand-alone course. We therefore sought out opportunities to take this further and we have now been awarded €740 000 through the European Union for a project entitled *Enhancing Postgraduate Environments* in which we will work with colleagues from three (3) Dutch, one (1) German, one (1) Scottish, one (1) Turkish and six (6) South African universities. This initiative seeks to develop materials to support research development across all disciplines in a format that is user-friendly and open access.

Professor Lynn Quinn  
Head of Department

## Books/Chapters/Monographs

- Badat, S.**  
**Badat, S.** (2015) Institutional Combinations and the Creation of a New Higher Education Institutional Landscape in Post-1994 South Africa. In: Curaj, A., Georghiou, L., Harper, J.C. and Egron-Polak, E. (eds.). *Mergers and Alliances in Higher Education: International Practice and Emerging Opportunities*. London: Springer. p.175-201. ISBN: 9783319131344.
- Badat, S.** (2015) Academic Inbreeding: The South African Case. In: Yudkevich, M., Altbach, P.G. and Rumbley, L.E. (eds.). *Academic Inbreeding and Mobility in Higher Education*. UK: Palgrave Macmillan. p.182-205. ISBN: 9781137461247.
- Hlengwa, A.**  
**Lotz-Sisitka, H., Agbedahin, A.V. and Hlengwa, A.** (2015) Seeding Change: Developing a change-oriented model for professional learning and ESD in higher education institutions in Africa. In: Lotz-Sisitka, H.B., Hlengwa, A., Ward, M., Salami, A., Ogbuigwe, A., Pradhan, M., Neeser, M. and Lauriks, S. (eds.). *Mainstreaming Environment and Sustainability in African Universities: Stories of Change*. Grahamstown: Rhodes University. p.16-26. ISBN: 9870868106137.
- Hlengwa, A.** (2015) Employing Safe Bets: Reflections on Attracting, Developing and Retaining the Next Generation of Academics. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.147-154. ISBN: 9781869142902.
- Maton, K.**  
Szenes, E., Tilakaratna, N. and **Maton, K.** (2015) The Knowledge Practices of Critical Thinking. In: Davies, M. and Barnett, R. (eds.). *The Palgrave Handbook of Critical Thinking in Higher Education*. USA: Palgrave Macmillan. p.573-591. ISBN: 9781137378033.
- Singh, M.**  
**Singh, M.** (2015) Institutionalising the Public Good: Conceptual and Regulatory Challenges. In: Filippakou, O. and Williams, G. (eds.). *Higher Education as a Public Good: Critical Perspectives on Theory, Policy and Practice*. New York: Peter Lang. p.59-74. ISBN: 9781433121661.

## Other Publications

- McKenna, S. and Muthama, E.L.**  
**McKenna, S., Motshoane, P.L. and Muthama, E.L.** (2015) Review of Holness, L. *Growing the next generation of researchers: A handbook for emerging researchers and their mentors*. In: Critical Studies in Teaching and Learning. 3 (2). p.83-88.

## Peer Reviewed Subsidy-Earning Journal Research Publications

- Belluigi, D.Z.**  
**Belluigi, D.Z.** (2015) The significance of conflicting discourses in a professional degree: assessment in undergraduate fine art practice. *Discourse-Studies in the Cultural Politics of Education*. 2015 (2015). p.1-13.
- Belluigi, D.Z. and Cundill, G.** (2015) Establishing enabling conditions to develop critical thinking skills: a case of innovative curriculum design in Environmental Science. *Environmental Education Research*. 2015 (2015). p.1-22.

**Boughey, C.**

**Boughey, C.** (2015) Book Review. Approaches to Large Class Teaching. In: David J Hornsby, Ruksana Osman, Jaqueline de Matos-Ala (eds.). *Large-class pedagogy: Interdisciplinary perspectives for quality higher education*. ISBN: 9780987009647. SUN Press, Stellenbosch. South African Journal of Science. 111 (1/2). p.1-2.

**Boughey, C. and McKenna, S.**

**Boughey, C. and McKenna, S.** (2015) Analysing an audit cycle: A critical realist account. *Studies in Higher Education*. 2015. p.1-13.

**Clarence, S.**

**Clarence, S.** (2015) Exploring the nature of disciplinary teaching and learning using Legitimation Code Theory Semantics. *Teaching in Higher Education*. 2015. p.1-15.

**Ellery, K.**

**Ellery, K. and Baxen, J.** (2015) 'I Always Knew I Would Go To University': A Social Realist Account of Student Agency. *South African Journal of Higher Education*. 29 (1). p.91-107.

**Eybers, O.**

**Eybers, O.** (2015) From Mechanist to Critical Realist Interrogations Of Academic Literacy Facilitation In Extended Degree Programmes. *South African Journal of Higher Education*. 29 (1). p.79-90.

**Maton, K.**

Carvalho, L., Dong, A. and **Maton, K.** (2015) Foregrounding knowledge in e-learning design: An illustration in a museum setting. *Australasian Journal of Educational Technology*. 31 (3). p.328-348.

**McKenna, S.**

Layton, D. and **McKenna, S.** (2015) Partnerships and parents - relationships in tutorial programmes. *Higher Education Research & Development*. 2015 (2015). p.1-13.

Case, J.M., Heydenrych, H., Kotta, L., Marshall, D., **McKenna, S.** and Williams, K. (2015) From contradictions to complementarities: a social realist analysis of the evolution of academic development within a department. *Studies in Higher Education*. 2015. p.1-14.

**Mostert, M.**

**Barnard, K.J. and Mostert, M.** (2015) Exploring student perceptions and experiences of ICT-enhanced formative assessment in an undergraduate management accounting course. *SA Journal of Accounting Research*. 29 (2). p.132-150.

**Quinn, L. and Vorster, J.A.**

**Quinn, L. and Vorster, J.A.** (2015) Pedagogy for fostering criticality, reflectivity and praxis in a course on teaching for lecturers. *Assessment & Evaluation in Higher Education*. p.1-14.

**Singh, M.**

**Singh, M.** (2014) Higher education and the public good: precarious potential? *Acta Academica*. 46 (1). p. 98 -118.

**Southwood, S.**

**Ngcoza, K. and Southwood, S.** (2015) Professional development networks: From transmission to co-construction. *Perspectives in education*. 33 (1). p.1-11.

**Thomson, C.**

**Thomson, C.** (2015) Book Review. Jennifer M. Case: Researching student learning in higher education: a social realist approach. London: Routledge, 2013. 155 pp. ISBN: 978-0-415-66235-2. *Higher Education*. 60 (1). p.165-167.

**Vorster, J.A. and Quinn, L.**

**Vorster, J.A. and Quinn, L.** (2015) Towards shaping the field: theorising the knowledge in a formal course for academic developers. *Higher Education Research & Development*. 34 (5). p.1031-1044.

## Peer-reviewed Proceedings

**Tshuma, N.**

**Tshuma, N.** Assessment for Learning: Using Formative Assessment to Scaffold Students' Fragile Knowledge. *SACLA 2015: Renewing ICT teaching and learning: Building on the past to create new energies*. University of the Witwatersrand (WITS), Johannesburg. South Africa. July 2015.

**Tshuma, N.** What Influences Educational Technology Integration? A Critical Review of the Literature. *Edulearn 15*. Gran Hotel Princesa Sofia Convention Center, Barcelona. Spain. July 2015.

## Research Papers Presented at Academic/ Scientific Conferences (Non-peer-reviewed Proceedings)

**Boughey, C. and McKenna, S.**

**Boughey, C., McKenna, S., Behari-Leak, K., Mkhize, T., Luck, J., Clarence, S., and Sabara, S.** Critiquing Higher Education: The power of theory in a higher education doctoral programme. *Higher Education Learning & Teaching Association of Southern Africa*. North-West University, Potchefstroom. South Africa. November 2015.

**Ellery, K.**

**Ellery, K.** Knowledge and knowledge-practices in a science foundation programme: Finding a theoretical home for literacies and skills work using LCT. *Legitimation Code Theory Colloquium*. Cape Peninsula University of Technology (CPUT), Cape Town. South Africa. June 2015.

**Quinn, L.**

**Quinn, L.** Becoming a scholarly academic developer. *Twenty-second international conference on learning*. Universidad San Pablo CEU, Madrid. Spain. July 2015.

**McKenna, S.**

**McKenna, S.** Focusing on Knowledge to transform curricula. (Invited Guest Speaker). *4th Learning, Teaching and Assessment Symposium*. Durban University of Technology, Durban. South Africa. September 2015.

**McKenna, S.** Crossing Conceptual Thresholds in Doctoral Education.

*Twenty-second International Conference on Learning*. Universidad San Pablo CEU, Madrid. Spain. July 2015.

**McKenna, S. and Boughey, C.** A social realist account of postgraduate supervision development. *Postgraduate Supervision Conference*. Stellenbosch. South Africa. March 2015.

**McKenna, S.** Positive Peer-pressure: The role of Doctoral Communities. *Higher Education Learning & Teaching Association of Southern Africa*. North-West University, Potchefstroom. South Africa. November 2015.

**Vorster, J.A.**

**Vorster, J.A.** An inquiry into threshold concepts in a formal course for university lecturers. *Twenty-second International Conference on Learning*. Universidad San Pablo CEU, Madrid. Spain. July 2015.

**Vorster, J.A. and Quinn, L.**

**Vorster, J.A. and Quinn, L.** A critical overview of professional development courses in South African research-intensive universities. *Higher Education Learning & Teaching Association of Southern Africa*. North-West University, Potchefstroom. South Africa. November 2015.

# COMMUNITY ENGAGEMENT DIVISION

Rhodes University has become a leading engaged university with a number of internationally renowned engaged research programs and meaningful community engaged learning partnerships. The Rhodes University Community Engagement Division (RUCE) plays a key role transforming teaching, learning and research practices within the university, working closely with academic departments and community based organisations as they build mutually beneficial and respectful relationships with one another.

RUCE is a multifaceted division, serving both in a support and academic role within the institution. As an emerging discipline, the scholarship of engagement falls broadly within the field of education studies but lends itself to cutting edge transdisciplinary modes of research.

In 2015 RUCE appointed two full time academic staff members, Dr Sharli Anne Paphitis and Dr Nosipho Mongomezulu, to work in the fields of service-learning, volunteerism and the scholarship of engagement more broadly. 2015 was also an important year for RUCE in terms of research, as it saw the registration of the first masters student within the department - RUCE aims to grow into a hub of post-graduate study focused on the scholarship of engagement in the next five years. Continued critical research in the scholarship of engagement is essential for furthering the goals of increasing meaningful collaboration between higher education institutions and the third sector - allowing universities to fulfil their role as institutions which work actively for the public good - as well as the fostering of civic minded graduates.

In 2015, as part of the annual Rhodes University Community Engagement Week, RUCE hosted a hugely successful National Community Engaged Learning Symposium. The symposium was attended by over 70 delegates from 13 higher education institutions from across South Africa, one international university, as well as representatives from community based organisations, who shared theoretical and practical insights from transdisciplinary perspectives.

**Diana Hornby**

Director of Community Engagement

**Sharli Paphitis**

Systems and Scholarship Coordinator



ABOVE: Students from the Computer Science Department interacted with learners from 5 local primary schools during their computer science practicals in the Jac Labs on the Rhodes campus as part of a service-learning course in programming. Rhodes students designed games in Scratch for their learners to play and assess, and had to gather feedback on how to improve or modify their games from the school learners. Computer science students introduced school learners to the basics of programming and helped their learners to make a game. During the practicals in Jac labs in this service-learning course, over 100 learners from 5 primary schools in Grahamstown came to work on the computers in the Rhodes laboratories partnered with Rhodes student mentors.  
*Photo: Dr Sharli Anne Paphitis*

ALONGSIDE: The poster for the Community Engaged Learning Symposium hosted by the CE Division in 2015 as part of Community Engagement Week. The Symposium was attended by delegates from over 10 Universities and community partners with 45 presentations on community engaged learning over 3 days.



ABOVE: Rhodes MBA students visit local business Khaya Blocks in Joza before meeting their partner business for a service learning-course in which the Rhodes Business School has partnered with the Assumption Development Centre.  
Photo: David Graybe

ALONGSIDE: The Siyahluma Engaged Research Project Team, winners of the 2015 Vice Chancellor's Distinguished Award: (from left to right) Dr Sharli Anne Paphitis, Dr Lindsay Kelland, Professor Catriona Macleod, and Mr Ryan du Toit.  
Photo: Kim Weaver

## Books/Chapters/Monographs

**Paphitis, S.A.**

**Paphitis, S.A.** (2015) Nietzsche's Sovereign Individual and the Ethics of Subjectivity. In: Imafidon, E. (ed.). *The Ethics of Subjectivity: Perspectives Since the Dawn of Modernity*. UK: Palgrave Macmillan. p.71-102. ISBN: 9781137472410.

## Concerts, Exhibitions, Performances, Workshops, Events

**Paphitis, S.A.**

**Paphitis, S.A.** Workshop. Service-Learning as a Critical Pedagogy. *Potchefstroom*. North-West University, Potchefstroom. South Africa. 17 November 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Paphitis, S.A.**

**Paphitis, S.A.** (2015) Leibowitz, B. (ed.) 2012. Higher Education for the Public Good: views from the South. Stoke on Trent: Trentham Books. *Critical studies in Teaching and Learning*. 3 (2). p.89-92.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Paphitis, S.A.**

**Srinivas, S.C., Paphitis, S.A., Ncomanzi, A., Tandlich, R. and Bradshaw, K.** (2015) Service-Learning Based Environmental Health Promotion Activities For Pharmacy Students: Educating Youth On The Safe Disposal Of Medicines And Used Sharps. *Journal for New Generation Sciences*. 13 (3). p.182-196.

**Paphitis, S.A. and Kelland, L.A.** (2015) Challenging the dominant ideological paradigm: Can community engagement contribute to the central epistemic aims of philosophy? *South African Journal of Philosophy*. 34 (4). p.419-432.

**Srinivas, S.C. and Paphitis, S.A.** (2015) Hypertension and Diabetes Mellitus: A Preliminary South African Health Promotion Activity Using Service-Learning Principles. *Journal of Community Health*. 2015. p.1-9.

## Peer-reviewed Proceedings

**Hornby, D.**

**Siruma, A., Tandlich, R., Hornby, D. and Srinivas, S.C.** Role of higher education institution and community engagement in disaster management

in South Africa. *15th SGEM GeoConference on Water Resources. Forest, Marine and Ocean Ecosystems, Volume 2: ecology, economics, education and legislation conference proceedings - ecology and environmental protection environmental legislation, multilateral relations and funding opportunities*. Albena. Bulgaria. June 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Hornby, D.**

**Chemuru, N.R., Hornby, D. and Srinivas, S.C.** Using community-based participatory research to develop a culturally sensitive teenage pregnancy prevention intervention with community care workers. *29th Annual South African Association of Hospital and Institutional Pharmacists conference*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Katsinde, S.M., Hornby, D. and Srinivas, S.C.** Use of a cultural model in identifying and addressing factors affecting exclusive breastfeeding. *29th Annual South African Association of Hospital and Institutional Pharmacists conference*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Hornby, D. and Paphitis, S.A.**

**Hornby, D. and Paphitis, S.A.** A Philosophical Approach to Community Engagement Integration and Social Justice. *Philosophical, Practical and Future Challenges for Integrated Community Engagement*. North-West University, Potchefstroom. South Africa. September 2015.

**Paphitis, S.A.**

**Paphitis, S.A. and Kelland, L.A.** Existential Conversations: Community Engagement, Philosophy and the Good Life. *Community Engaged Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Kelland, L.A. and Paphitis, S.A.** Siyahluma: A Critical Health Education Intervention. *9th Biennial International Society for Critical Health Psychology Conference: Health, Healthcare and Social Justice*. Rhodes University, Grahamstown. South Africa. July 2015.

**Kelland, L.A. and Paphitis, S.A.** The Africanness of White South Africans? *3rd Annual Conference for the Centre for Phenomenology in South Africa: Identity and Difference*. University of Johannesburg, Johannesburg. South Africa. March 2015.

**Paphitis, S.A.** The Alterity of the Self: the Gothic, the Double and L'Invitée. *3rd Annual Conference of the Centre for Phenomenology in South Africa*. University of Johannesburg, Johannesburg. South Africa. March 2015.

**Paphitis, S.A.** The Living Corpse: obsession, self-knowledge and isolation in the face of 'mysterious' refractory illness. *Wild Coast Philosophy Symposium*. Chintsa. South Africa. October 2015.

# RHODES UNIVERSITY LIBRARY

The library strives to promote human dignity, equality, non-racialism, and non-sexism in the library workplace and when providing information and research services to its users. It is committed to quality user-focused service, fairness, innovation, professional integrity and social responsibility.

During 2015 the Rhodes University Library (RUL) was guided by the following:

- **Purpose Statement:** *The Rhodes University Library is committed to the pursuit of knowledge by connecting people to resources that contribute to the intellectual development of future responsible citizens.*
- **Overarching Goal:** *To develop and maintain efficient, reliable and responsive library and scholarly communication services that promote, support and enhance the research, teaching and learning endeavours of Rhodes University.*
- **Library Culture:** *Rhodes University Library aspires to a shared culture, 'a way of being both in mind and in action' in support of a positive academic outcome for the Rhodes University community, while also creating a positive work environment for all.*

The library thus strives to promote human dignity, equality, non-racialism, and non-sexism in the library workplace and when providing information and research services to its users. It is committed to quality user-focused service, fairness, innovation, professional integrity and social responsibility.

Its Strategic Plan for the period 2012-2015 took cognisance of trends and developments impacting academic libraries and the role of the librarian in support of research. The strategies identified in support of research were executed in the following ways:

1. Champion open access, open publishing and intellectual freedom
2. Investigate tools and initiatives to enhance the visibility of RU research
3. Implement scholarly communications

## Activities

- Eight (8) RUL staff members attended a seminar entitled *The Road to Promoting Open Access to Researchers in Academic Institutions* hosted by the Nelson Mandela Metropolitan University (NMMU) on 25 July 2015.
- The scheduled programme for Open Access Week 2015 was cancelled as it coincided with the national *#FeesMustFall* protests and institutional shutdown during October 2015.
- The Faculty Liaison librarians continued to engage with the various departments with the implementation of ORCID and ResearcherID amongst the teaching staff.
- The Library facilitated the acquisition and training in the use of InCites, the customized, web-based research evaluation tool that allows researchers to analyse institutional productivity and

benchmark their output against peers worldwide.

- As social media is widely used in promoting RU research, the RUL posted regularly to the following:
  - [www.facebook.com/RhodesUniversityLibrary](http://www.facebook.com/RhodesUniversityLibrary)
  - <https://twitter.com/RhodesResearch> - over two thousand five hundred (2500) tweets related to published research and conferences were posted. Currently there are five hundred and seventy-one (571) followers; however the potential reach via the *twitter tree* is vast as followers include publishers, institutions, news agencies, research associations, and individuals.
  - <https://twitter.com/RhodesLibrary>
- Joined the Scholarly Publishing and Academic Resources Coalition (SPARC) Africa Chapter (<http://www.sparc.arl.org/>), which was launched at the 2015 IFLA World Library and Information Congress in Cape Town. SPARC focuses on Open Access and support to academic institutions to realise their Open Access strategy.
- Ensured that the Rhodes Digital Commons, the RU institutional repository (see infographic below), continued to develop as a quality web-based Open Access platform for the University's research output according to international standards and National Research Foundation (NRF) requirements for electronic theses and dissertations (ETDs) and NRF-funded research as stipulated in the following Open Access Statement issued on 10 January 2015:

*"The NRF recognises the importance of Open Access to science and research while at the same time appreciating that Open Access will continue to evolve in response to societal needs, achieving overarching policy harmonisation and new innovative publishing business models.*

*From 01 March 2015, authors of research papers generated from research either fully or partially funded by NRF, when submitting and publishing in academic journals, should deposit their final peer-reviewed manuscripts that have been accepted by the journals, to the administering Institution Repository with an embargo period of no more than twelve (12) months. Earlier Open Access may be provided should this be allowed by the publisher. If the paper is published in an Open Access journal or the publisher allows the deposit of the published version in PDF format, such version should be deposited into the administering Institutional Repository and Open Access should be provided as soon as possible."*

## Rhodes Digital Commons

At the end of 2015, the Rhodes Digital Commons housed 11 514 unique items, making this repository one of the largest and fastest-growing in South Africa.



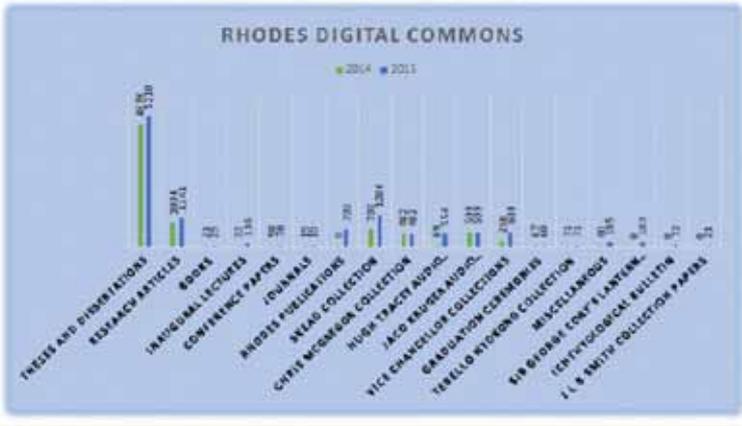
In 2015, Rhodes University Library completed a project to digitise and make accessible online all theses held within the Main Library. The project is being expanded to include theses held in Cory Library as well. The oldest Rhodes thesis currently online dates to 1929.

On Wednesday, 21 October 2015, Rhodes University closed in solidarity with the higher education sector as students and staff embarked on nationwide protest action against the shortage of funding in the South African higher education sector. These images depict the peaceful march and illustrate the extent of solidarity among staff, students and community members who joined in support of the protest.



The RD Digital Commons (Rhodes' official institutional repository) created and managed by Rhodes University Library, includes academic and research output from the Rhodes University community. For any queries please contact the repository administrator at [digitalcommons@ru.ac.za](mailto:digitalcommons@ru.ac.za).

## RHODES DIGITAL COMMONS



Collection	2014	2015
THESES AND DISSERTATIONS	4918	11514
RESEARCH ARTICLES	2014	2015
BOOKS	11	11
TRADITIONAL LECTURES	11	11
CONFERENCE PAPERS	11	11
JOURNALS	11	11
RHODES PUBLICATIONS	11	11
AVIATION COLLECTION	11	11
CURTIS MCKENNON COLLECTION	11	11
HUGH TRACER PAPERS	11	11
JACO BRUGER PAPERS	11	11
GRANDCHILDREN COLLECTION	11	11
GRANDCHILDREN COLLECTION	11	11
TERELLO WYKONG COLLECTION	11	11
NEW BODIES CONY & LANTIER	11	11
ICHTHYOLOGICAL BULLETIN	11	11
J.L. & SMITH COLLECTION PAPERS	11	11

## Acclaimed and unique collections

The Terello Wykong Collection makes accessible the research output of one of Rhodes University's most renowned and internationally acclaimed researchers.

Speeches, statements and messages authored by Vice Chancellors at Rhodes are being digitised and made accessible online. Both the Derek Scott Henderson and the Saleem Badat collections are available on Rhodes Digital Commons.

Rhodes University Library in collaboration with the South African Institute for Aquatic Biodiversity (SAIAB) present the only complete open access archive of the ichthyological bulletin of the J.L.B. Smith Institute of Ichthyology, as published between 1956 and 2001.



**Xhoxho, Xhosa Chief, d. 1877**

### Linking and embedding Rhodes Research output

#### Lethrinops micrentodon

From Wikispecies, the free encyclopedia



Lethrinops micrentodon (date 1922) is a species of fish in the genus Lethrinops. This species grows to a length of 11.5 centimetres (4.5 to 4.6 inches) and is found in the aquarium trade.<sup>[c]</sup>

References [edit]

- <sup>[a]</sup> Kowalek, J. 2002. Lethrinops micrentodon. In: *ICLIS 2002: ICLIS Manual of Threatened Species*. Version 2002.2. <http://www.spc.ac.za/ictis/>. Downloaded 11 April 2015.
- <sup>[b]</sup> *Fishes: Genus of and Family (Date 2015) - ICLIS 2002: ICLIS Manual of Threatened Species*. Version 2002.2. <http://www.spc.ac.za/ictis/>. Downloaded 11 April 2015.

<sup>[c]</sup> *Fishes: Genus and Family (Date 2015) - ICLIS 2002: ICLIS Manual of Threatened Species*. Version 2002.2. <http://www.spc.ac.za/ictis/>. Downloaded 11 April 2015.

This Commons-wiki article is a stub. You can help Wikispecies by expanding it.



- Implemented the Open Journal Systems (OJS), an open source journal management and publishing system that has been developed by the Public Knowledge Project (<https://pkp.sfu.ca/ojs/>) to expand open access publishing and improve access to research. This system will enable the RUL to host and provide retrospective access to journals published by Rhodes entities, e.g. African Music Journal, or as curated by Rhodes, e.g. Journal of Gerontology. The system furthermore enables every stage of the refereed publishing process, from submissions through to online publication and indexing. The system will complement the current institutional repository allowing for the management of serial publications.

4. Provide access to appropriate, authoritative & relevant resources and services at the point of need and in the users' environment

The RUL is a sophisticated technology-enabled library environment, which provides an integrated solution for teaching, learning, research and collaboration. This integrated solution includes a sophisticated IT infrastructure; networked, wired and wireless connectivity; discovery tools across platforms; customized interfaces for mobile devices that provide 24/7 access to information resources; and tools that support scholarly communication and enhance research visibility. In the face of the digital deluge of information, the Library has consolidated its position as a trusted place for accessing authentic information in support of academic scholarship.

## 2015 INFORMATION RESOURCES BUDGET

Information Resources (Total)	R 18 189 975
Online Journals x 246	R 3 039 975
Print Journals x 259	R 810 000
Databases x 62/ 36000 titles	R 13 340 000
Books & Monographs x 4346 (new books)	R 1 000 000

The fluctuating exchange rate and the inclusion of fourteen percent (14%) VAT on electronic resources have raised concerns amongst higher education institutions nationally. Through its membership to the South African National Library and Information Consortium (SANLIC) and the South East Academic Libraries System (SEALS) consortium, the RUL benefits from collective negotiations and deals relating to information resources and integrated library management systems respectively.

**Inter-Library Loans:** Should Postgraduate students and academics require research material that is unavailable, these items are requested from other institutions via the inter-library loan facility. In 2015 one thousand and sixty-one (1061) items were lent to other institutions and five hundred and twenty-seven (527) items were received for RU.

5. Embedded librarianship - increase involvement of faculty librarians in research processes and activities of academic departments

## 6. Implement ideas and innovations learnt during the Research Libraries Consortium (RLC) project, as well as evaluation recommendations

The role of the librarian is further being redefined by advancing discovery tools, evolving research methods, pedagogies and changing research communication practices and the abundance of information in varied formats. Greater engagement, relationship building and collaborative partnerships across the institution are also now expected of librarians. This evolving academic library environment and changing user expectations requires new expertise and specialist librarians in support of the changing teaching, learning and research paradigm.

- **To this end, the posts of Librarian:** Scholarly Communications and Librarian: Institutional Repository & Metadata were identified as critical new posts during a review of the RUL organogram and vision. These will be implemented against existing vacancies, subject to approval, in 2016.
- The RUL Faculty Liaison model enables faculty liaison librarians to attend Faculty Board meetings, departmental activities and events, and work closely with Postgraduate students.
- Forty-three (43) Postgraduate workshops, attended by six hundred and forty-three (643) participants, were held throughout the year within the various faculties. These focused on the use of the discovery and reference management tools; inter-library loans, and customised research support:
  - A presentation by Fiona Still-Drewett to Human Kinetics and Ergonomics (HKE) staff and Postgraduate students on 21 January 2015 entitled "*An introduction to the use of Social Media in Scholarly Communication & Research including the interconnected world, future of social media, Web 2.0, social media tools for academics, Twitter for research, research profiles, open access, & emerging scholar essentials.*" (353 views) [www.slideshare.net/mufs/social-media-research-43771744](http://www.slideshare.net/mufs/social-media-research-43771744)
  - A library workshop for the CHERTL based Doctoral Supervision Course, 10th June 2015, was presented by Thandiwe Menze and Fiona Still-Drewett. A High-level research instruction, which included looking at the varying roles of the Postgraduate student, supervisor/lecturer and librarian within the *Triangle of Research Support*. The hands on programme included library services for the Postgraduate student, library resources, advanced search techniques, search alerts, bibliographic management tools, citation and journal analysis, Open Access publishing, the Rhodes Digital Commons, academic networking, researcher profiles & social scholarship, and altmetrics. (116 views) [www.slideshare.net/mufs/triangle-of-research-support-49959897](http://www.slideshare.net/mufs/triangle-of-research-support-49959897)

## 7. Library as Place

The Library is designed to actively promote and facilitate discovery, knowledge exchange and learning centres for the University community. The provision of purpose-built spaces for students at different stages in their academic careers makes the library experience unparalleled.

- **Writing space:** The Education Department Writing Group used the Reading Room on Level 4 of the Main Library on a weekly basis for their writing days.
- **Research spaces:**
  - The **Postgraduate Commons** on Ground 0 is a colourful space and has proven extremely popular among Honours and other Postgraduate students for its individual, duo and group study spaces. This area provides eighty (80) study seats and twenty-nine (29) computer workstations and is an essential complementary space to the Carnegie Research Commons.
  - The **Carnegie Research Commons**, a dedicated space for Masters, PhD students and Postdoctoral Research Fellows, academics and researchers with fifteen (15) computer workstations, high-speed internet access, multipurpose printers, a seminar room for presentations and discussions, and space for relaxation and socialising with fellow researchers.

Given the above, the RUL is committed to ensuring its strategies are realized through new ways of practice, resource sharing and collaboration thereby demonstrating its value to the research imperatives of the University.

Ms Ujala Satgoor

Director: Library Services



The Rhodes University Library Postgraduate Commons is a popular, scholarly common room for Postgraduate students  
Photo: Taryn Gillitt



The rare book collection in the library's foyer  
Photo: Tarryn Gillitt

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Gontshi, V.G.**

**Gontshi, V.G.** and Owusu-Ansah, C.M. (2015) Implementing Information Literacy through the Personal Librarian Model: Prospects and Challenges. *Journal of Balkan Libraries Union*. 3 (2). p.28-35.

**Satgoor, U.**

**Satgoor, U.** (2015) Celebrating libraries in 20 years of democracy: An overview of library and information services in South Africa. *IFLA Journal*. 41 (2). p.97-111.

## Peer-reviewed Proceedings

**Satgoor, U.**

**Satgoor, U.** It's not Business as Usual! CPD as a Change Imperative for LIS Professionals. *LISEducation and Research in a Dynamic Information Landscape*. University of Cape Town, Cape Town. South Africa. November 2014.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Van der Walt, W**

**Van der Walt, W.** SEALS Encore Duet: challenges and opportunities. *SANLiC Conference*. Kopanong Hotel and Conference Centre, 19-20 May 2015.

**Naicker, L.**

**Naicker, L.** Poster presentation: The Digital Repository as a central driver in the Open Access Research Agenda. *81st IFLA General Assembly and World Library and Information Congress (WLIC)*. "Dynamic Libraries: Access, Development and Transformation". Cape Town. 15-21 August 2015.

## ACCOUNTING

The Department of Accounting continues to develop capacity in a number of fields of research, with contributions from staff members in taxation, capital markets research in accounting, nonprofit finance, and accounting education.

**Professor Jackie Arendse** wrote four (4) chapters in *Silke on Tax Administration*, a peer-reviewed guide to the administrative provisions of taxation legislation in South Africa published by LexisNexis. Widely used by professionals, academics and students, it explains the investigation and audit powers of the South African Revenue Service (SARS), provides guidance on taxpayers' rights relating to taxation, and incorporates commentary and interpretation on a range of legislative items.

**Professor Lilla Stack** continued her substantial contributions to academic taxation research as author and supervisor. An important contribution as supervisor was the graduation of nine (9) master's degree candidates at the 2015 graduation ceremony—a personal best.

**Professor Mark Bunting** continued his research work on economic and financial theories of the nonprofit organisation, with a specific focus on developing a framework for assessing the financial condition of South African public universities. With **Professor Kevin Barnard**, he also completed a working paper on capital markets research in accounting, and shared presentation responsibilities for this research at two (2) international conferences.

**Ms Peta Myers** continued to disseminate her research findings on knowledge structures in introductory-level university accounting.

#### Professor Jackie Arendse

Head of Department



(From left to right) Mr Hugh Harnett, Mr Richard Poole, Professor Lilla Stack and Mr Edward Horn at the 2015 Tax Indaba  
Photo: Professor Jackie Arendse



Professor Jackie Arendse, Head of Department of the Department of Accounting.  
Photo: Professor Jackie Arendse

## Books/Chapters/Monographs

**Arendse, J.A.**

**Arendse, J.A.** (2015) Chapter 4: Registration, returns, assessments and records. In: *Silke on Tax Administration*. 8th Ed. South Africa: Lexis Nexis (Pty) Ltd. p.1-74. ISBN: 9780409115154.

**Arendse, J.A.** (2015) Chapter 7: Administrative penalties. In: *Silke on Tax Administration*. 8th Ed. South Africa: Lexis Nexis (Pty) Ltd. p.1-43. ISBN: 9780409115154.

**Arendse, J.A.** (2015) Chapter 9: Payment of taxes, refunds and SARS collective powers. In: *Silke on Tax Administration*. 8th Ed. South Africa: Lexis Nexis (Pty) Ltd. p.1-65. ISBN: 9780409115154.

**Arendse, J.A.** (2015) Chapter 11: Miscellaneous provisions. In: *Silke on Tax Administration*. 8th Ed. South Africa: Lexis Nexis (Pty) Ltd. p.1-39. ISBN: 9780409115154.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Stack, E.M.**

Borman, M. and **Stack, E.M.** (2015) Specific rewards for tax compliance:

Responses of small business owners in Ekurhuleni, South Africa. *eJournal of Tax Research*. 13 (3). p.1-20.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Arendse, J.A.**

**Arendse, J.A.**, Stark, K. and **Renaud, C.A.** (2015) The Cohen and Kuttel stories: Is the place where I hang my hat still relevant to determine my residence for tax purposes? *Southern African Business Review* 19 (2015). p.1-24.

**Barnard, K.J.**

**Barnard, K.J.** and **Mostert, M.** (2015) Exploring student perceptions and experiences of ICT-enhanced formative assessment in an undergraduate management accounting course. *SA Journal of Accounting Research*. 29 (2). p.132-150.

**Barnard, K.J.** and **Bunting, M.B.**

**Barnard, K.J.** and **Bunting, M.B.** (2015) Value and size investment strategies during the global financial crisis: evidence from the South African equity market. *SA Journal of Accounting Research*. 29 (2). p.177-196.

**Stack, E.M.**

Borman, M. and **Stack, E.M.** (2015) Rewarding tax compliance: Taxpayer's attitudes and beliefs. *Journal of Economic and Financial Sciences*. 8 (3).

p.791-807.

Coetzee, K., van der Zwan, P., Schutte, D., van Dyk, H. and **Stack, E.M.** (2015) Ochberg v CIR: No "benefit" to the benefactor. *Southern African Business Review*. 19 (2015). p.25-46.

**Stack, E.M.**, Stiglingh, M. and Koekemoer, A. (2015) CIR v Niko: A question of economic reality. *Southern African Business Review*. 19 (2015). p.139-160.

**Stack, E.M.** (2015) The "tax stories": introduction. *Southern African Business Review*. 19 (2015). p.1-11.

**Stack, E.M.**, Grenville, D.P., Poole, R., Harnett, H.N. and Horn, E.B. **Stack, E.M.**, Grenville, D.P., Poole, R., Harnett, H.N. and Horn, E.B. (2015) Commissioner for Inland Revenue v Lever Brothers and Unilever Ltd: A practical problem of source. *Southern African Business Review*. 19 (2015). p.161-182.

## Peer-reviewed Proceedings

**Bunting, M.B.** and **Barnard, K.J.**

**Bunting, M.B.** and **Barnard, K.J.** Does Fundamental Analysis Using Historical Accounting Numbers Require the Contextual Partitioning of a Securities Universe? Evidence from the South African Equity Market. *13th Annual International Conference on Accounting & Finance*. Athens, Greece. May 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bunting, M.B.** and **Barnard, K.J.**

**Bunting, M.B.** and **Barnard, K.J.** Fundamental analysis in the South African equity market: A study of the relationship between accounting information and subsequent equity returns. *SAAA/IAAER Biennial Conference*. International Conference Centre, East London. South Africa. June 2015.

**Myers, L.P.**

**Myers, L.P.** How knowledge structures impact on teaching and learning in an introductory Accounting course. *SAAA/IAAER Biennial Conference*. International Conference Centre, East London. South Africa. June 2015.

**Stack, E.M.**

**Stack, E.M.** Tax stories - A reflection. *SAAA/IAAER Biennial Conference*. International Conference Centre, East London. South Africa. June 2015.



Photo: Paul Greenway/3pphotography

## ANTHROPOLOGY

Rhodes University Anthropology Department is one of the oldest Anthropology Departments in South Africa. In recent years the department has extended its research endeavours beyond the Eastern Cape to include research on postcolonial identities in Madagascar, Seychelles, and Tanzania, marine and ecological systems in the Solomon Islands, the response to the AIDS pandemic in Kwazulu-Natal and transnational Congolese migrants in Cape Town. As a result of this regional expansion the course offerings in the department have included cutting edge research in the fields of Environmental and Ecological Systems, Transnational Migration, Marine Anthropology and Childhood Studies. In the near future we hope to expand our regional specialisations to include Europe and other global South countries through the arrival of new staff members, and the expansion of existing members' regional foci.

## Postgraduates / Graduations

In recent years the department has hosted and graduated a number of students who did not have the requisite undergraduate requirements to complete a higher degree in Social Anthropology. However the department's visionary acuity paid off as all of these students completed their dissertations with honourable mention.

A recent graduate, **Dr Volkher** completed exemplary ethnographic work on the 'mamas' of the hospitality industry in Makana, merging the two fields of tourism and development studies with aplomb. His work makes an interesting intervention in the discourse on local empowerment and the structuration of class in contemporary peri-urban South Africa. Dr Volkher's work demonstrates that while the department expands its regional specialisation, it remains rooted in the local, offering graduate students the opportunity to intellectually explore the dynamics of local socio-political economies.

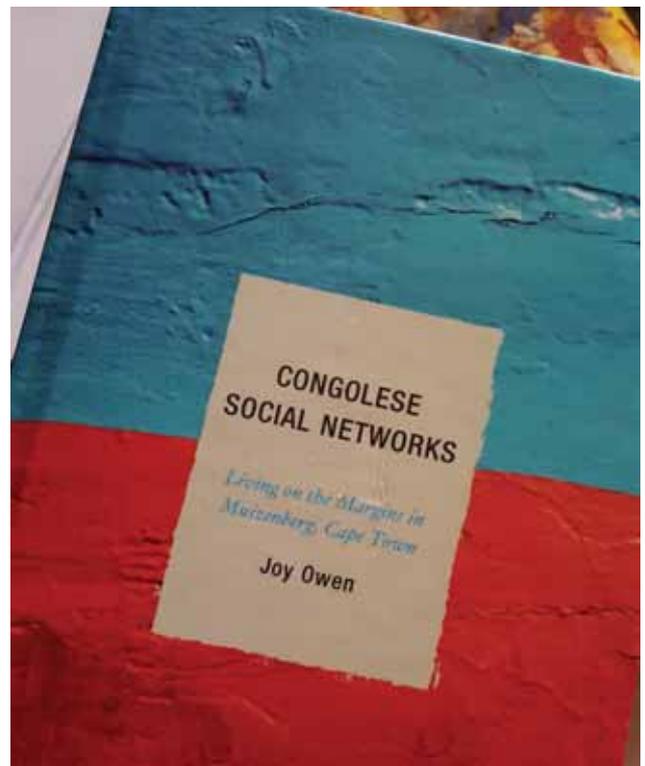
Another graduate, **Ms Jamie Alexander**, recently published components of her masters research entitled: *The Landscape of Childhood: Play and Place as Tools to Understanding Children's Environmental Use and Perceptions*, in the Journal of Human Ecology. Ms Alexander is currently registered in the Anthropology Department for her PhD and last year received funding to present her PhD research at the Biennial Conference of the Finnish Anthropological Society held in Helsinki. Her paper was entitled: *Stitching ourselves to the land where we can: Xhosa-speaking township dwellers' relationships with sacred landscapes in the Eastern Cape, South Africa*.

## Significant Research Aligned Events

In 2015, through the initiatives of individual staff members, five (5) major research projects were awarded funding of over ZAR four (4) million in total. A significant proportion of this funding is aimed at supporting Postgraduate student research. The following grants were secured:

### Professor Shankar Aswani:

- 1) NRF Grant-Human and Social Dynamics in Development (HSGR) for a project entitled: 'The human dimension of compliance in South Africa's marine recreational fisheries' (PI: S. Aswani, Co-PI: W. Potts) [ZAR 955,000] (2015-2017)
- 2) ESPA Grant for a project entitled 'GLORIA - Global Learning Opportunities for Regional Indian Ocean Adaptation'



Dr Joy Owen's monograph *Congolese Social Networks: Living on the Margins in Muizenberg, Cape Town* was published in 2015 by Lexington Books  
Photo: Dr Joy Owen

(NE/M007545/1, PI: K. Cochrane et al. Co-PIs S. Aswani, W. Sauer, M. Roberts, et al.) [GBP 121,821] (2015)

- 3) National Research Foundation Rating (NRF-South Africa): B2- Incentive Funding [ZAR 400,000] (2015-2020)

### Dr Michelle Cocks

- 1) NRF Competitive Program for Rated Researchers for a project entitled: *A place to belong: urban planning, housing and greening*. (PI: M. Cocks, Co-PI: C. Shackleton) [ZAR 2.7 million].
- 2) NRF Rating: Y2 - Incentive Funding [ZAR 40 00] (2011-2016).

### Dr Joy Owen

- 1) NRF Thuthuka award R123, 566 which is co-funded by Rhodes University.

The Anthropology Department staff continued their involvement in a number of exciting research initiatives in 2015. In 2015 a team of researchers from various disciplines, including Professor Aswani, identified several global natural and social “hotspots”. The hotspot regions represented laboratories for observing climate change and provided the opportunity to develop adaptation management strategies with local communities to respond to change.

Professor Aswani and his team of South African based researchers began the implementation of their NRF funded project that aims to improve compliance in South Africa’s marine recreational fisheries by increasing the knowledge of environmental attitudes, perceptions and social norms regarding recreational fishing. The research findings will contribute significantly to the development of small-scale and subsistence fisheries, which is part of the government’s long-term plans for improving the livelihoods and sustainability of coastal communities.

Dr Michelle Cocks, continued to supervise Postgraduate student research currently undertaken by:

1. Ms Avela Njwambe who received funding from Stockholm Resilience Centre and Rhodes University Research Office, to research migrant identity and attachment to home, and
2. Ms Jamie Alexander’s PhD study on Xhosa-speaking township dwellers’ relationships with sacred landscapes. Dr Cocks presented aspects of her research at two conferences;
  - 1) the International Transdisciplinary Conference: Culture(s) in Sustainable Futures: theories, policies, practices conference held in Helsinki, Finland, in May 2015 and
  - 2) Ecosystem Change and Society: Social-ecological dynamics in the Anthropocene conference held in Stellenbosch in September 2015.

In 2015 Dr Cocks and her colleague, Mr Tony Dold (Rhodes University Botany Department) received an award from Rhodes University Community Engagement for their *Inkcubeko Nendalo* Biocultural Diversity Education Project.

In 2015, **Dr Patti Henderson** attended the International Union of Anthropological and Ethnological Sciences Conference in Bangkok, Thailand, where she presented a paper on a panel made up of ten (10) participants entitled *Bodily Entanglements: Sensorial and Material Productions of the Social*. The paper, *Embodiment and the social imaginary: Porosity of cloth in the artwork of Mary Sibande* forms a part of her research into creativity and self-stylization in the work of four contemporary South African artists, including Sibande and the choreographer Gregory Maqoma, the photographer and activist, Zanele Muholi, and the sculptor and performance artist Nicolas Hlobo. Journal articles on each artist will be brought together in the form of a small book, where future-orientated theories of becoming are brought to bear on the work of contemporary artists. The same paper was also presented at the Anthropology Southern African Conference in Potchefstroom in 2015.

Henderson completed a three-week fieldtrip to her old fieldwork site in Okhahlamba, KwaZulu-Natal to collect young people’s songs. The research will contribute to the book she is writing on

young people of the region, and their relationship with the natural environment in which they lived, during the height of the AIDS epidemic in the mid-2000s in South Africa. The book’s provisional title is, *Cattle and Wood: Journeying, Landscape and Courtship among Orphans in Rural KwaZulu-Natal*. When completed the book will form a sequel to, *A Kinship of Bones: AIDS, Intimacy and Care in Rural KwaZulu-Natal*, which won the Rhodes Vice Chancellor’s Book Award in 2013, and which has been long listed for the National ASSAF humanities book prize.

At the end of December 2015, **Dr Owen’s** long awaited monograph, “*Congolese Social Networks: Living on the Margins in Muizenberg, Cape Town*” was published internationally. As noted by acclaimed anthropologist Professor Paul Stoller, “*In a work that is beautifully written, Owen tactfully describes how transnational migration shapes a matrix of love and loss, fidelity and betrayal, and bonding and alienation -- a truly remarkable work of cutting-edge scholarship*”.

## International co-operation

In 2015 the department signed a memorandum of understanding (MoU) with the University of Münster University, Germany that encourages intellectual and human resource exchange between the Anthropology department and the Institute of Ethnology in Münster. This particular MOU bodes well for the creation of synergies between Rhodes University Anthropology and European Anthropologies more broadly, as southern African anthropology expands its anthropological eye to research and interrogate social concerns beyond the borders of southern Africa.

**Dr Joy Owen**  
Head of Department

## Books/Chapters/Monographs

**Aswani, S.**

Kittinger, J., Cinner, J.E., **Aswani, S.** and White, A.T. (2015) Back to the Future: Integrating Customary Practices and Institutions into Comanagement of Small-scale Fisheries. In: Kittinger, J.N., McClenachan, L., Gedan, K.B. and Blight, L.K. (eds.). *Marine Historical Ecology in Conservation: Applying the Past to Manage for the Future*. USA: University of California Press. p.135-160. ISBN: 9780520276949.

**Aswani, S.** and Albert, S. (2015) Change in Roviana Lagoon Coral Reef Ethnobiology. In: Narchi, N.E. and Price, L.L. (eds.). *Ethnobiology of Corals and Coral Reefs*. New York: Springer. p.157-175. ISBN: 9783319237633.

**Henderson, P.C.**

**Henderson, P.C.** (2015) New Directions in Child and Youth Research in Africa. In: Ntarangwi, M. and Massart, G. (eds.). *Engaging Children and Youth in Africa: Methodological and Phenomenological Issues*. Cameroon: Langa Research & Publishing Common Initiative Group. p.61-94. ISBN: 9789956762741.

**Owen, J.N.**

**Owen, J.N.** (2015) *Congolese Social Networks: Living on the Margins in Muizenberg*. Cape Town. Plymouth UK: Lexington Books. ISBN: 9781498516273.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Aswani, S.**

**Aswani, S.**, Mumby, P.J., Baker, A.C., Christie, P., McCook, L.J., Steneck, R.S. and Richmond, R.H. (2015) Scientific frontiers in the management of coral reefs. *Frontiers in Marine Science*. 2 (50). p.1-13.

**Pattenden, O.**

**Pattenden, O.** (2015) Relations of Trust, Questions about Expectations: Reflections on a Photography Project with Young South Africans. *Anthropology in Action*. 22 (3). p.14-26.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Aswani, S.**

Albert, S., **Aswani, S.**, Fisher, P.L. and Albert, J. (2015) Keeping Food on the Table: Human Responses and Changing Coastal Fisheries in Solomon Islands. *PLoS One*. 10 (7). p.1-13.

**Aswani, S.**, Vaccaro, I., Abernethy, K., Albert, S. and Fernandez-Lopez de Pablo, J. (2015) Can Perceptions of Environmental and Climate Change in Island Communities Assist in Adaptation Planning Locally? *Environmental Management*. 56 (2015). p.1487-1501.

**Aswani, S.**, Diedrich, A. and Currier, K. (2015) Planning for the Future: Mapping Anticipated Environmental and Social Impacts in a Nascent Tourism Destination. *Society and Natural Resources*. 28 (2015). p.703-719.

**Boswell, R.**

**Boswell, R.** (2015) RESPONSE: Falling out of love? A response to Francis Nyamnjoh's 'Beyond an evangelizing public anthropology: science, theory and commitment'. *Journal of contemporary African studies*. 33 (1). p.64-68.

**Cocks, M.L.**

Alexander, J., **Cocks, M.L.** and Shackleton, C.M. (2015) The Landscape of Childhood: Play and Place as Tools to Understanding Children's Environmental Use and Perceptions. *Human Ecology*. 43 (2015). p.467-480.

**Henderson, P.C.**

**Henderson, P.C.** (2015) Book Review: Ancestors and antiretrovirals: the biopolitics of HIV/AIDS in post-apartheid South Africa, by Claire Laurier Decoteau, Chicago, Chicago University Press, 2013, 344pp., (paperback), ISBN 978-0-226-06459-8. *Anthropology Southern Africa*. 38 (1-2). p.154-157.

**Ngade, I.N.M.**

Enongene, M.S. and **Ngade, I.N.M.** (2014) Moralising female identity in Cameroon in the 1990s: female prostitution and the song "you gu cry". *Muziki: Journal of Music Research in Africa*. 11 (2). p.103-115.

**Owen, J.N.**

**Owen, J.N.** (2015) Book Review: Resonance: beyond the words, by Unni Wikan, Chicago, University of Chicago Press, 2013, 384pp., (paperback), ISBN 978-0-226-92447-2. *Anthropology Southern Africa*. 38 (1-2). p.158-160.

**Owen, J.N.** (2015) Book Review: Faist, Thomas, Fauser, Margit & Reisenauer, Eveline (2013) Transnational Migration, Cambridge: Polity Press, 290pp. *Nordic journal of migration research*. 5 (2). p.100-101.

**Owen, J.N.** (2015). The embodied performance of Congolese masculinities in Muizenberg, Cape Town. *Journal of Social Development in Africa Vol 29* (1): p 31-54.

## Peer-reviewed Proceedings

**Mosuoë-Tsietsi, T.**

**Mosuoë-Tsietsi, T.** Power Dynamics in Development-Induced Resettlement: The Lesotho Highlands Water Project Case. *The European Conference on the Social Sciences 2015*. Brighton, East Sussex. United Kingdom. July 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Arun, A.**

**Arun, A.** Fracking the Karoo: Ground realities and public perceptions. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**De Wet, C.J.**

**De Wet, C.J.** Comparatively Informed Participatory Diagnostics: A Viable and Valuable Role for Anthropologists on the Interface Between Research, Development and Policy? *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Henderson, P.C.**

**Henderson, P.C.** Embodiment and the Social Imaginary: Porosity of Clothing the artwork of Mary Sibande. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Hoosen, M.**

**Hoosen, M.** 'Eros in the Ethnographic Encounter. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Owen, J.N.**

**Owen, J.N.** The Violence of Becoming: an intimate experience of domestic violence. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Seshoka, T.J.**

**Seshoka, T.J.** Heritage, Poverty and Marginalization in the Age of the African Renaissance. *Eastern Cape Oral Histories Conference*. Steve Biko Centre, King Williamstown. South Africa. October 2015.

**Seshoka, T.J.** The Politics of Performance: (de)Constructing the

blackBody. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Solomon, K.M.**

**Solomon, K.M.** Xenophobia: Exploring the Counter Narrative. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

**Stuart-Thompson, R.D.S.**

**Stuart-Thompson, R.D.S.** Customs over Clinics?: An Inter-Generational Comparative Assessments of the Use of Traditional Medicine and Medicinal Practices in Isolated Communities in the Karoo. *Anthropology Southern Africa Annual Conference*. North-West University, Potchefstroom. South Africa. September 2015.

# BIOCHEMISTRY AND MICROBIOLOGY

The establishment of a second South African Research Chairs Initiative (SARChI) chair in '*Molecular and Cellular Biology of the Eukaryotic Stress Response*' which was awarded to Professor Edkins will serve to expand the understanding of mechanisms that determine the nature of stress response. This research has wide ranging application for the treatment of human diseases.



The Marine Natural Products Research group  
Photo:  
Professor Joanna Dames

Dr Abrahams was welcomed as a new academic staff member. Dr Abrahams brings with him an exciting new research area focussed on elucidating the mechanisms by which the intracellular bacterial pathogens, *Salmonella enterica* and *Mycobacterium tuberculosis*, interact with host cells to cause disease.

## Postgraduates / Graduations

Graduation was a special event with seventeen (17) MSc and five (5) PhD graduates. Three (3) students from BioBRU presented their research at international conferences. Ianthe Wingate and Natasha Boel presented their research at the EMBO Conference on Molecular Chaperones, which was held in Heraklion, Greece. Michaelone Vaaltyn attended the VIIth International Congress on Stress Responses in Biology and Medicine in Huangshan City, China, where she was awarded a prize for her poster presentation.

Bioinformatics PhD student David Penkler, from Research Unit in Bioinformatics (RUBi), visited Sabanci University, Turkey, in March 2015 and April 2015 while working on a collaborative research project with Professor Tastan Bishop and Professor Atilgan. During his eight (8) week stay, he learnt Perturbation-Response Scanning (PRS) technique which is applicable to the analysis of the allosteric behaviour of heat shock proteins.

Another Bioinformatics PhD student, Caroline Ross, was awarded the Scientific and Technological Research Council of Turkey (TÜBİTAK) Research Fellowship for International Researchers in October 2015. TÜBİTAK awards the fellowship to highly qualified PhD students to pursue part of their research in Turkey. Caroline will be attending Sabanci University in 2016. Under the supervision of Professor Tastan Bishop, Professor Atilgan and Professor Knox, her research focuses on the investigation into novel drug targets in Picornaviruses, including poliovirus and foot-and-mouth-disease-virus.

## Distinguished Visitors / International Visits

Professor Knox hosted research visits from Dr Colin Berry (Cardiff University, United Kingdom) in April 2015 and Professors Peter Krell and Eva Nagy (University of Guelph, Canada) in September 2015.

Professor Kerry McPhail, of Oregon State University, United States of America (USA) also visited in September 2015. She was involved in training Postgraduate students in marine natural products chemistry and was a guest speaker at a natural products research colloquium for researchers in the region.

In January 2015, Drs Edkins and de la Mare visited collaborators in India. They were based at Calcutta University in Kolkata where they participated in the National Seminar on Molecular Aspects of Human Diseases. During their visit, they also visited and presented talks at Kalyani University, just outside of Kolkata.

Later in the year, Dr Edkins visited her collaborator Professor Didier Picard at the University of Geneva where she conducted experiments to learn how to use yeast as a model organism. This technology was subsequently transferred to her laboratory at Rhodes University. Dr Edkins also attended the University of Glasgow Wellcome Trust PhD programme research retreat in Scotland. Dr Edkins is an alumnus of the programme and was invited to present her research as part of the symposium.

The year for BioBRU ended with research visits by Professor Walid Houry (University of Toronto) and Professor Gregory Blatch (Victoria University, Melbourne).

Professor Dames accompanied members of her research group, Veronique Chartier FitzGerald, Phumeza Sitole and Dr Christine Bizabani to Northern Arizona University in the United States of America, where they presented their research at the 8th International Conference on Mycorrhiza.

Professor Pletschke and his PhD student Sagan Abboo (also a member of technical staff: Chief Technical Officer) attended and presented their research at the 2nd International Conference on Food and Biosystems Engineering in Mykonos, Greece. Professor Pletschke also presented his group's work at the 37th Symposium on Biotechnology for Fuels and Chemicals in San Diego, USA.

Professor Tastan Bishop accompanied four (4) of her PhD students to the 23rd Annual International Conference on Intelligent Systems for Molecular Biology (ISMB) and the 14th European Conference on Computational Biology (ECCB), in Dublin, Ireland, in July 2015. She also attended the Biophysics Conference in the Understanding, Diagnosis, and Treatment of Infectious Diseases, in Stellenbosch in November with five (5) other Postgraduate students.

## Books/Chapters/Monographs

**Blatch, G.L. and Edkins, A.L.**

**Blatch, G.L. and Edkins, A.L.** (ed.) (2015) *The Networking of Chaperones by Co-chaperones: Control of Cellular Protein Homeostasis*. 2nd Ed. Switzerland: Springer. ISBN: 9783319117300.

**Edkins, A.L.**

**Edkins, A.L.** (2015) CHIP: A Co-chaperone for Degradation by the Proteasome. In: Blatch, G.L. and Edkins, A.L. (eds.). *The Networking of Chaperones by Co-chaperones: Control of Cellular Protein Homeostasis*. 2nd Ed. Switzerland: Springer. p.219-242. ISBN: 9783319117300.

**Edkins, A.L. and Blatch, G.L.**

Baindur-Hudson, S., **Edkins, A.L.** and **Blatch, G.L.** (2015) Hsp70/Hsp90 Organising Protein (Hop): Beyond Interactions with Chaperones and Prion Proteins. In: Blatch, G.L. and Edkins, A.L. (eds.). *The Networking of Chaperones by Co-chaperones: Control of Cellular Protein Homeostasis*. 2nd Ed. Switzerland: Springer. p.69-90. ISBN: 9783319117300.

## Concerts, Exhibitions, Performances, Workshops, Events

**Dames, J.F.**

**Dames, J.F.** Facilitator. Laboratory workshops. *Introduction to Microbiology for Testing Laboratories*. Premier Hotel Cape Manor, Cape Town. South Africa. 8 - 9 October 2015.

**Dames, J.F.** Facilitator. Laboratory workshops. *Best Practices in Microbiology Method Validation*. Country Fair, Stellenbosch. South Africa. 3 - 4 September 2015.

**Edkins, A.L.**

**Edkins, A.L.** Assistance with student projects in Microbiology. 2015 National Science Expo. *Student project entries*. Rhodes University, Grahamstown. South Africa. 1 - 21 March 2015.

**Edkins, A.L.** Running student workshop. Scifest 2015: Science alight! *DNA and forensic science*. Rhodes University, Grahamstown. South Africa. 1 March 2015.

## Distinguished Visitors

## Significant Research Aligned Events

The Research Unit in Bioinformatics (RUBi) has established a South African natural compound database, named SANCDDB (<https://sancddb.rubi.ru.ac.za/>). This is a curated and fully-referenced database containing compound information for six hundred and thirty-six (636) natural products extracted directly from journal articles, book chapters and theses.

SANCDDB is currently the only web-based natural products database in Africa. It aims to provide a useful resource for the *in silico* screening of South African natural products for drug discovery purposes.

The Marine Natural Products group also embarked on a new initiative to map coastal shelf invertebrate diversity in Algoa Bay. The team, led by Dr Shirley Parker-Nance, is using a remote operating vehicle (ROV) to explore deep water reef habitats that support a rich diversity of marine life including many new invertebrate species.

Research in Biochemistry and Microbiology continues to grow, being strengthened by both local and international collaborations.

**Professor Joanna Dames**

Head of Department

**Houry, W. and Edkins, A.L.**

Professor W Houry and **AL Edkins**. University of Toronto, Toronto, Canada. *Lecture/collaboration*. December 2015.

## International Visits

**Edkins, A.L. and Bhattacharyya, A.**

**A.L. Edkins** and **A. Bhattacharyya**. University of Calcutta, Kolkata, India. *Collaboration*. May 2015.

**Edkins, A.L.**

**Edkins, A.L.** University of Geneva, Geneva, Switzerland. *Research and training in yeast studies*. 5 - 17 October 2015.

**Edkins, A.L.** University of Glasgow, Glasgow, Scotland. *Wellcome Trust Research Retreat*. 30 September - 4 October 2015.

**Edkins, A.L. and De La Mare, J.A.**

**Edkins, A.L.** and **De La Mare, J.A.** Universities of Calcutta and Kalyani, Kolkata and Kalyani, India. *Research: The role of TGFB in metastasis and biology of breast cancer stem cells*. Funded by a NRF-DST South Africa-India collaborative grant. 25 January - 2 February 2015.

**Hoppe, H.C.**

**Hoppe, H.C.** University of Würzburg, Germany. *German-African cooperation projects in infectology conference*. 9 June-13 June 2015.

## Other Publications

**Matcher, G.F. and Dorrington, R.A.**

**Matcher, G.F., Froneman, P.W. and Dorrington, R.A.** (2015) Aquatic microbial diversity: A sensitive and robust tool for assessing ecosystem health and functioning. In: *Aquatic microbial diversity: A sensitive and robust tool for assessing ecosystem health and functioning*. South Africa: WRC.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Blatch, G.L.**

Przyborski, J.M., Diehl, M. and **Blatch, G.L.** (2015) Plasmodial HSP70s are functionally adapted to the malaria parasite life cycle. *Frontiers in Molecular Biosciences*. 2 (2015). p.1-7.

**Mafuma, T., Van Dyk, J.S. and Pletschke, B.I.**

**Mafuma, T., Van Dyk, J.S., Chigome, S., Torto, N. and Pletschke, B.I.** (2015) Immobilisation of Acetylcholinesterase onto Electrospun Nanofibres for Carbofuran and Demeton-S-Methyl Sulfone Detection. *Current Biotechnology*. 4 (2015). p.134-144.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Abdulkadir, F. and Knox, C.**

**Abdulkadir, F., Knox, C., Marsberg, T., Hill, M.P. and Moore, S.D.** (2015) Genetic and biological characterisation of a novel *Plutella xylostella* granulovirus, PtxyGV-SA. *BioControl*. 60 (2015). p.507-515.

**Bhattacharya, A. and Pletschke, B.I.**

**Bhattacharya, A. and Pletschke, B.I.** (2015) Strategic optimization of xylanase-mannanase combi-CLEAs for synergistic and efficient hydrolysis of complex lignocellulosic substrates. *Journal of Molecular Catalysis B-Enzymatic*. 115 (2015). p.140-150.

**Bhattacharya, A.S. and Pletschke, B.I.**

Kannisto, M.S., Mangayi, R.K., **Bhattacharya, A.S., Pletschke, B.I., Karp, M.T. and Santala, V.P.** (2015) Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates. *Biotechnology for Biofuels*. 8 (198). p.1-10.

**Bhattacharya, A.S., Bhattacharya, A. and Pletschke, B.I.**

**Bhattacharya, A.S., Bhattacharya, A. and Pletschke, B.I.** (2015) Synergism of fungal and bacterial cellulases and hemicellulases: a novel perspective for enhanced bio-ethanol production. *Biotechnology Letters*. 37 (2015). p.1117-1129.

**Bizabani, C. and Dames, J.F.**

**Bizabani, C. and Dames, J.F.** (2015) Assimilation of organic and inorganic nutrients by *Erica* root fungi from the fynbos ecosystem. *Fungal Biology*. 2015 (2015). p.1-6.

**Bizabani, C. and Dames, J.F.** (2015) Effects of inoculating *Lachnum* and *Cadophora* isolates on the growth of *Vaccinium corymbosum*. *Microbiological Research*. 181 (2015). p.68-74.

**Blatch, G.L.**

**Njunge, J.M., Mandal, P., Przyborski, J.M., Boshoff, A., Pesce, E.R. and Blatch, G.L.** (2015) PFB0595w is a *Plasmodium falciparum* J protein that co-localizes with PfHsp70-1 and can stimulate its *in vitro* ATP hydrolysis activity. *International Journal of Biochemistry and Cell Biology*. 62 (2015). p.47-53.

**Ludewig, M., Boshoff, A., Horn, D. and Blatch, G.L.** (2015) *Trypanosoma brucei* J protein 2 is a stress inducible and essential Hsp40. *International Journal of Biochemistry and Cell Biology*. 60 (2015). p.93-98.

Kee, N.L.A., Krause, J., **Blatch, G.L., Muramoto, K., Sakka, K., Sakka, M., Naude, R.J., Wagner, L., Wolf, R., Rahfeld, J.U., Demuth, H.U., Mielicki, W.P. and Frost, C.L.** (2015) The Proteolytic Profile of Human Cancer Procoagulant Suggests That It Promotes Cancer Metastasis at the Level of Activation Rather Than Degradation. *Protein Journal*. 34 (2015). p.338-348.

**Brown, D.K., Penkler, D.L., Musyoka, T.M. and Tastan Bishop, O. Brown, D.K., Penkler, D.L., Musyoka, T.M. and Tastan Bishop, O.** (2015) JMS: An Open Source Workflow Management System and Web-Based Cluster Front-End for High Performance Computing. *PLoS One*. 10 (8). p.1-25.

**Dames, J.F.**

Coombes, C.A., Hill, M.P., Moore, S.D., **Dames, J.F.** and Fullard, T. (2015) *Beauveria* and *Metarhizium* against false colding moth (Lepidoptera: Tortricidae): A step towards selecting isolates for potential development of a mycoinsecticide. *African Entomology*. 23 (1). p.239-242.

**De Almeida, L.K.S. and Pletschke, B.I.**

**De Almeida, L.K.S., Chigome, S., Torto, N., Frost, C.L. and Pletschke, B.I.** (2015) A novel colorimetric sensor strip for the detection of glyphosate in water. *Sensors and Actuators B-Chemical*. 206 (2015). p.357-363.

**De La Mare, J.A. and Edkins, A.L.**

Aliwaini, S., Peres, J., Kroger, W.L., Blanckenberg, A., **De La Mare, J.A.,**

**Edkins, A.L., Mapolie, S. and Prince, S.** (2015) The palladacycle, AJ-5, exhibits anti-tumour and anti-cancer stem cell activity in breast cancer cells. *Cancer Letters*. 357 (2015). p.206-218.

**De Moor, W., Van Marwijk, J., Wilhelmi, B.S. and Whiteley, C.G.**

**De Moor, W., Van Marwijk, J., Wilhelmi, B.S. and Whiteley, C.G.** (2015) Interaction of silver nanoparticles with triosephosphate isomerase from human and malarial parasite (*Plasmodium falciparum*): A comparative study. *Journal of Biomedical Nanotechnology*. 11 (6). p.1071-1079.

**Edkins, A.L. and De La Mare, J.A.**

Veale, C.G.L., **Edkins, A.L., De La Mare, J.A., de Kock, C., Smith, P.J. and Khanye, S.D.** (2015) Facile synthesis and biological evaluation of assorted indolyl-3-amides and esters from a single, stable carbonyl nitrile intermediate. *Tetrahedron Letters*. 56 (2015). p.1860-1864.

**Edkins, A.L. and Hoppe, H.C.**

**Kramer, A.H., Edkins, A.L., Hoppe, H.C. and Prinsloo, E.** (2015) Dynamic Mitochondrial Localisation of STAT3 in the Cellular Adipogenesis Model 3T3-L1. *Journal of Cellular Biochemistry*. 116 (7). p.1232-1240.

**Faya, N., Penkler, D.L. and Tastan Bishop, O.**

**Faya, N., Penkler, D.L. and Tastan Bishop, O.** (2015) Human, vector and parasite Hsp90 proteins: A comparative bioinformatics analysis. *FEBS Open Bio*. 5 (2015). p.916-927.

**Gama, R., Van Dyk, J.S. and Pletschke, B.I.**

**Gama, R., Van Dyk, J.S. and Pletschke, B.I.** (2015) Optimisation of enzymatic hydrolysis of apple pomace for production of biofuel and biorefinery chemicals using commercial enzymes. *3 Biotech*. 5 (2015). p.1075-1087.

**Hatherley, R., Brown, D.K., Musyoka, T.M., Penkler, D.L., Faya, N. and Tastan Bishop, O.**

**Hatherley, R., Brown, D.K., Musyoka, T.M., Penkler, D.L., Faya, N., Lobb, K.A. and Tastan Bishop, O.** (2015) SANCDB: a South African natural compound database. *Journal of Cheminformatics*. 7 (29). p.1-9.

**Hatherley, R., Clitheroe, C., Faya, N. and Tastan Bishop, O.**

**Hatherley, R., Clitheroe, C., Faya, N. and Tastan Bishop, O.** (2015) *Plasmodium falciparum* Hop: Detailed analysis on complex formation with Hsp70 and Hsp90. *Biochemical and biophysical Research Communications*. 456 (2015). p.440-445.

**Hoppe, H.C.**

Zininga, T., Achilonu, I., **Hoppe, H.C., Prinsloo, E., Dirr, H.W. and Shonhai, A.** (2015) Overexpression, Purification and Characterisation of the *Plasmodium falciparum* Hsp70-z (PfHsp70-z) Protein. *PLoS One*. 10 (6). p.1-13.

**Knox, C.**

**Knox, C., Moore, S.D., Luke, G.A. and Hill, M.P.** (2015) Baculovirus-based strategies for the management of insect pests: a focus on development and application in South Africa. *Biocontrol Science and Technology*. 25 (1). p.1-20.

**Malgas, S., Van Dyk, J.S. and Pletschke, B.I.**

**Malgas, S., Van Dyk, J.S. and Pletschke, B.I.** (2015)  $\beta$ -Mannanase (Man26A) and  $\beta$ -galactosidase (Aga27A) synergism - A key factor for the hydrolysis of galactomannan substrates. *Enzyme and Microbial Technology*. 70 (2015). p.1-8.

**Malgas, S., Van Dyk, J.S. and Pletschke, B.I.** (2015) A review of the enzymatic hydrolysis of mannans and synergistic interactions between  $\beta$ -mannanase,  $\beta$ -mannosidase and  $\alpha$ -galactosidase. *World Journal of Microbiology and Biotechnology*. 31 (2015). p.1167-1175.

**Mautsa, N., Mnkandhla, D. and Hoppe, H.C.**

**Manyeruke, M.H., Olomola, T.O., Majumder, S., Abrahams, S., Isaacs, M., Mautsa, N., Mosebi, S., Mnkandhla, D., Hewer, R., Hoppe, H.C., Klein, R. and Kaye, P.T.** (2015) Synthesis and evaluation of 3-hydroxy-3-phenylpropanoate ester-AZT conjugates as potential dual-action HIV-1 Integrase and Reverse Transcriptase inhibitors. *Bioorganic and Medicinal Chemistry*. 23 (2015). p.7521-7528.

**McPhail, K.L.**

Vining, O.B., Medina, R.A., Mitchell, E.A., Videau, P., Li, D., Serrill, J.D., Kelly, J.X., Gerwick, W.H., Proteau, P.J., Ishmael, J.E. and **McPhail, K.L.** (2015) Depsipeptide Companeramides from a Panamanian Marine Cyanobacterium Associated with the Coibamide Producer. *Journal of Natural Products*. 78 (2015). p.413-420.

Serill, J.D., Tan, M., Fotso, S., Sikorska, J., Kasanah, N., Hau, A.M., **McPhail, K.L., Santosa, D.A., Zabriske, T.M., Mahmud, T., Viollet, B., Proteau, P.J. and Ishmael, J.E.** (2015) Apoptolidins A and C activate AMPK in metabolically sensitive cell types and are mechanistically

distinct from oligomycin A. *Biochemical Pharmacology*. 93 (2015). p.251-265.

Youssef, D.T.A., Shaala, L.A., Mohamed, G.A., Ibrahim, S.R.M., Banjar, Z.M., Badr, J.M., **McPhail, K.L.**, Risinger, A.L. and Mooberry, S.L. (2015) 2,3-Seco-2,3-dioxo-lyngbyatoxin A from a Red Sea strain of the marine cyanobacterium *Moorea producens*. *Natural Product Research*. 28 (8). p.703-709.

Nabika, R., Suyama, T.L., Hau, A.M., Misu, R., Ohno, H., Ishmael, J.E., **McPhail, K.L.**, Oishi, S. and Fujii, N. (2015) Synthesis and biological evaluation of the [D-MeAla11]-epimer of coibamide A. *Bioorganic and Medicinal Chemistry Letters*. 25 (2015). p.302-306.

**Mendes, A., Vlok, M., Short, J. and Dorrington, R.A.**  
**Mendes, A., Vlok, M., Short, J., Matsui, T. and Dorrington, R.A.** (2015) An encapsidated viral protein and its role in RNA packaging by a non-encapsulated animal RNA virus. *Virology*. 476 (2015). p.323-333.

**Meyer, A.H. and Dames, J.F.**  
**Meyer, A.H., Wooldridge, J. and Dames, J.F.** (2015) Variation in urease and  $\beta$ -glucosidase activities with soil depth and root density in a 'Cripp's Pink'/M7 apple orchard under conventional and organic management. *South African Journal of Plant and Soil*. 2015 (2015). p.1-8.

**Meyer, A.H., Wooldridge, J. and Dames, J.F.** (2015) Effect of conventional and organic orchard floor management practices on enzyme activities and microbial counts in a 'Cripp's Pink'/M7 apple orchard. *South African Journal of Plant and Soil*. 32 (2). p.105-112.

**Meyer, A.H., Wooldridge, J. and Dames, J.F.** (2015) Effect of conventional and organic orchard floor management practices on arbuscular mycorrhizal fungi in a 'Cripp's Pink'/M7 apple orchard soil. *Agriculture Ecosystems and Environment*. 213 (2015). p.114-120.

**Mukhopadhyay, A.**  
**Mukhopadhyay, A. and Chakrabarti, K.** (2015) Enhancement of thermal and pH stability of an alkaline metalloprotease by nano-hydroxyapatite and its potential applications. *RSC Advances*. 5 (2015). p.89346-89362.

**Njunge, J.M. and Hoppe, H.C.**  
Zininga, T., Makumire, S., Gitau, G.W., **Njunge, J.M.**, Pooe, O.J., Klimek, H., Scheurr, R., Raifer, H., **Prinsloo, E.**, Przyborski, J.M., **Hoppe, H.C.** and Shonhai, A. (2015) *Plasmodium falciparum* Hop (PfHop) Interacts with the Hsp70 Chaperone in a Nucleotide-Dependent Fashion and Exhibits Ligand Selectivity. *PLoS One*. 10 (8). p.1-15.

**Tastan Bishop, O. and Brown, D.K.**  
Mulder, N.J., Adebijoye, E., Alami, R., Benkahla, A., Brandful, J., Doumbia, S., Everett, D., **Tastan Bishop, O.**, **Brown, D.K.**, Fadlemola, F.M. and et al. (2015) H3ABioNet, a sustainable pan-African bioinformatics network for human heredity and health in Africa. *Genome Research*. 2015 (2015). p.1-7.

**Van Dyk, J.S. and Pletschke, B.I.**  
Khan, N., Le Roes-Hill, M., Weltz, P.J., Grandin, K.A., Kudanga, T., **Van Dyk, J.S.**, Ohlhoff, C., Van Zyl, W.H. and **Pletschke, B.I.** (2015) Fruit waste streams in South Africa and their potential role in developing a bio-economy. *South African Journal of Science*. 111 (5/6). p.1-11.

**Whiteley, C.G.**  
**Whiteley, C.G. and Lee, D.J.** (2015) Bacterial diguanylate cyclases: Structure, function and mechanism in exopolysaccharide biofilm development. *Biotechnology Advances*. 33 (2015). p.124-141.

Vo, D.T., **Whiteley, C.G.** and Lee, C.K. (2015) Hydrophobically Modified Chitosan-Grafted Magnetic Nanoparticles for Bacteria Removal. *Industrial and Engineering Chemistry Research*. 54 (2015). p.9270-9277.

**Wilhelmi, B.S. and Whiteley, C.G.**  
Mutanda, T., **Wilhelmi, B.S.** and **Whiteley, C.G.** (2015) Biocatalytic conversion of inulin and sucrose into short chain oligosaccharides for potential pharmaceutical applications. *African Journal of Science, Technology, Innovation and Development*. 7 (5). p.371-380.

**Yao, J., Van Marwijk, J., Wilhelmi, B.S. and Whiteley, C.G.**  
**Yao, J., Van Marwijk, J., Wilhelmi, B.S. and Whiteley, C.G.** (2015) Isolation, characterization, interaction of a thiazolekinase (*Plasmodium falciparum*) with silver nanoparticles. *International Journal of Biological Macromolecules*. 79 (2015). p.644-653.

## Peer-reviewed Proceedings

**Abboo, S. and Pletschke, B.I.**  
**Abboo, S. and Pletschke, B.I.** An Enzyme-Synergy Based Bioreactor for Apple Pomace Beneficiation. *2nd International Conference on Food*

*and Biosystems Engineering*. Hotel Saint John, Mykonos Island. Greece. May 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bhattacharya, A. and Pletschke, B.I.**  
**Bhattacharya, A. and Pletschke, B.I.** Enzymatic hydrolysis of sugarcane bagasse using the versatile lignocellulolytic arsenal of *Paenibacillus dendritiformis*. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015*. Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Bhattacharya, A. and Pletschke, B.I.** Magnetic cross-linked enzyme aggregates (CLEAs) for carrier free immobilization of lignocellulolytic enzymes. *37th Symposium on Biotechnology for Fuels and Chemicals*. Hyatt Regency La Jolla at Aventine, San Diego. United States of America. April 2015.

**Bhattacharya, A.S. and Pletschke, B.I.**  
**Bhattacharya, A.S. and Pletschke, B.I.** Combining secretomes from native thermophilic bacterial strains in a synergistic manner for designing custom based enzyme cocktails. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015*. Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Bizabani, C. and Dames, J.F.**  
**Bizabani, C. and Dames, J.F.** The diversity of ericaceous root fungi in South Africa: a comparative approach. *8th International Conference on Mycorrhiza*. Northern Arizona University, Flagstaff. United States of America. August 2015.

**Blatch, G.L.**  
**Nyakundi, O.D., Blatch, G.L. and Boshoff, A.** Plasmodium falciparum Mitochondrial PfHsp70-3 Requires an Escort Protein for Functional and Structural Activities. *VIIIth International Congress on Stress Responses in Biology and Medicine*. Xiang Ming Hotel, Huangshan City. China. September 2015.

**Boel, N.M., Hunter, M.C. and Edkins, A.L.**  
**Boel, N.M., Hunter, M.C. and Edkins, A.L.** Inhibition of Hsp90 with novobiocin destabilizes fibronectin in the extracellular matrix causing its degradation via an LRP1 dependent pathway. *EMBO Conference on Molecular Chaperones: from molecules to cells and misfolding diseases*. Aldemar Resort Knossos Royal, Heraklion. Greece. January 2015.

**Brown, D.K., Hatherley, R. and Tastan Bishop, O.**  
**Brown, D.K., Hatherley, R. and Tastan Bishop, O.** HUMA: A web server and database for mining and analysing variation in humans. *3DSIG - ISMB/ECCB (Satellite meeting)*. Convention Center, Dublin. Ireland. July 2015.

**Brown, D.K., Penkler, D.L., Musyoka, T.M. and Tastan Bishop, O.**  
**Brown, D.K., Penkler, D.L., Musyoka, T.M. and Tastan Bishop, O.** JMS: Creating and Running Complex Computational Pipelines on High Performance Computer Clusters. *Biophysics in the Understanding, Diagnosis and Treatment of Infectious Diseases*. Spier, Stellenbosch. South Africa. November 2015.

**Brown, D.K., Penkler, D.L., Musyoka, T.M. and Tastan Bishop, O.**  
The Job Management System (JMS): a web-based workflow management system for Torque. *ISMB/ECCB 2015*. Convention Center, Dublin. Ireland. July 2015.

**Chartier Fitzgerald, V., Hawley, G. and Dames, J.F.**  
**Chartier Fitzgerald, V., Hawley, G. and Dames, J.F.** Evaluation of ectomycorrhizal associations of *Pinus patula* seedlings. *8th International Conference on Mycorrhiza*. Northern Arizona University, Flagstaff. United States of America. August 2015.

**Chartier Fitzgerald, V., Hawley, G. and Dames, J.F.** Evaluation of ectomycorrhizas on *Pinus patula* seedlings. *Seedling Growers Association of South Africa Symposium*. Mentorskraal, Jeffreys Bay. South Africa. June 2015.

**Dames, J.F.**  
**Bamigboye, C.O., Dames, J.F. and Oloke, J.K.** Inter-species and inter-generic hybridization of *Pleurotus tuber-regium*. *Southern African Society for Plant Pathology*. Bains Lodge, Bloemfontein. South Africa. January 2015.

**Coomes, C.A., Chartier-Fitzgerald, V., Wiblin, D.R., Dames, J.F., Hill, M.P. and Moore, S.D.** The role of entomopathogenic fungi in the control of citrus pests in South Africa: cause for optimism. *15th IOBC-WPRS*

*Working Group Meeting: Microbial and Nematode Control of Invertebrate Pests.* Riga, Latvia. June 2015.

**Coombes, C.A., Hill, M.P., Moore, S.D. and Dames, J.F.** Entomopathogenic fungi as biological control agents of false codling moth. *XIX Congress of the Entomological Society of Southern Africa.* Grahamstown. South Africa. July 2015.

**Dames, J.F.** The connection that matters. *Seed Potato Growers Forum.* Lagoon Beach Hotel, Cape Town. South Africa. September 2015.

**Dames, J.F.** Sustainable mycorrhizal interactions. *Southern African Society for Plant Pathology.* Bains Lodge, Bloemfontein. South Africa. January 2015.

**Dames, J.F. and Badenhorst, R.**

**Dames, J.F., Ndeunyema, E.T.N. and Badenhorst, R.** Mycorrhizal and associated bacterial interactions of *Aloe ferox*. *Southern African Society for Plant Pathology.* Bains Lodge, Bloemfontein. South Africa. January 2015.

**Dames, J.F. and Fulmaka, A.**

**Dames, J.F. and Fulmaka, A.** Spekboom, Am fungi and PGPR - is this a winning combination? *8th International Conference on Mycorrhiza.* Northern Arizona University, Flagstaff. United States of America. August 2015.

**Edkins, A.L.**

**Edkins, A.L.** Molecular chaperones in cancer: The role of the co-chaperone HOP. *Symposium for the NRF/DST South Africa-India collaboration.* University of Kalyani, Kalyani. India. January 2015.

**Edkins, A.L.** Hsp90 and the cellular stress response: causative agents and drug targets in human disease. *National Seminar on Molecular Aspects of Human Diseases.* University of Calcutta, Kolkata. India. January 2015.

**Hatherley, R., Brown, D.K. and Tastan Bishop, O.**

**Hatherley, R., Brown, D.K. and Tastan Bishop, O.** An interactive online homology modelling tool to assist with protein structural studies. *Biophysics in the Understanding, Diagnosis, and Treatment of Infectious Diseases.* Spier, Stellenbosch. South Africa. November 2015.

**Hatherley, R., Clitheroe, C., Faya, N. and Tastan Bishop, O.**

**Hatherley, R., Clitheroe, C., Faya, N. and Tastan Bishop, O.** Structural Characterization of *Plasmodium falciparum* HOP. *3DSIG - ISMB/ECCB 2015.* Convention Center, Dublin. Ireland. July 2015.

**Jukes, M.D., Knox, C.M., Moore, S.D. & Hill, M.P.**

**Jukes, M.D., Knox, C.M., Moore, S.D. & Hill, M.P.** 2015. Isolation, genetic characterisation and evaluation of biological activity of a novel South African *Phthorimaea operculella* granulovirus (PhopGV). *Proceedings of the Joint ESSA/ZSSA Congress.* Rhodes University, Grahamstown, 12-17 July 2015.

**Mafa, M.S., Bhattacharya, A. and Pletschke, B.I.**

**Mafa, M.S., Bhattacharya, A., Rashamuse, K. and Pletschke, B.I.** Synergistic associations between termite metagenome derived plant cell wall degrading enzymes during the hydrolysis of complex substrates. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015.* Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Marsberg, T., Hill, M.P., Knox, C.M. & Moore, S.D.**

**Marsberg, T., Hill, M.P., Knox, C.M. & Moore, S.D.** 2015. Identification and characterization of a baculovirus for the microbial control of litchi moth, *Cryptophlebia peltastica* (Meyrick) (1921) (Lepidoptera: Tortricidae). *Proceedings of the Joint ESSA/ZSSA Congress.* Rhodes University, Grahamstown, 12-17 July 2015.

**Mokhawa, G. and Tastan Bishop, O.**

**Mokhawa, G., Lobb, K.A. and Tastan Bishop, O.** Homology Modelling of Trypanosoma Cathepsin B like Proteases as a Prelude to Inhibitor Docking Studies. *Biophysics in the Understanding, Diagnosis, and Treatment of Infectious Diseases.* Spier, Stellenbosch. South Africa. November 2015.

**Morake, S.T. and Pletschke, B.I.**

**Morake, S.T., Rose, S.R., Van Zyl, W.H. and Pletschke, B.I.** Effects of synergism between *A. niger* derived enzymes on sugarcane bagasse and corn cob hydrolysis - the role of product inhibition. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015.* Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Moses, V. and Tastan Bishop, O.**

**Moses, V. and Tastan Bishop, O.** The Sequence and Structural Analysis of LPMO types of the Auxiliary Activity Family 9 Enzymes. *ISMB/ECCB 2015.* Convention Center, Dublin. Ireland. July 2015.

**Motsoeneng, B., Moore, S.D., Hill, M.P. & Knox, C.M.**

**Motsoeneng, B., Moore, S.D., Hill, M.P. & Knox, C.M.** 2015. Genetic characterisation of a novel South African *Cydia pomonella* granulovirus

(CpGV-SA) isolate. *Proceedings of the Joint ESSA/ZSSA Congress.* Rhodes University, Grahamstown, 12-17 July 2015.

**Mtambanengwe, K., Knox, C.M., Moore, S.D. and Hill, M.P.**

**Mtambanengwe, K., Knox, C.M., Moore, S.D. & Hill, M.P.** 2015. Genetic characterisation of a range of HearNPV isolates and evaluation of biological activity against geographically distinct populations of bollworm, *Helicoverpa armigera*. *Proceedings of the Joint ESSA/ZSSA Congress.* Rhodes University, Grahamstown, 12-17 July 2015.

**Musyoka, T.M., Kanzi, A.M. and Tastan Bishop, O.**

**Musyoka, T.M., Kanzi, A.M., Lobb, K.A. and Tastan Bishop, O.** Profiling the structural elements and the energetics involved in the binding of small non-peptide compounds onto Plasmodium and human cysteine proteases using computational approaches. *ISMB/ECCB The 23rd annual International conference on Intelligent Systems for Molecular Biology (ISMB) and The 14th European Conference on Computational Biology (ECCB).* Convention Center, Dublin. Ireland. July 2015.

**Musyoka, T.M., Kanzi, A.M., Lobb, K.A. and Tastan Bishop, O.**

**Musyoka, T.M., Kanzi, A.M., Lobb, K.A. and Tastan Bishop, O.** Structural elements and the energetics involved in the binding of non-peptide compounds onto Plasmodium and human proteases. *3DSIG - ISMB/ECCB (Special interest group meeting).* Convention Center, Dublin. Ireland. July 2015.

**Penkler, D.L. and Tastan Bishop, O.**

**Penkler, D.L. and Tastan Bishop, O.** Towards Discovering Novel Drug Target Sites and Small Compound Inhibitors of Heat Shock Protein 90 (Hsp90): A Structural Bioinformatics Approach. *Biophysics in the Understanding, Diagnosis, and Treatment of Infectious Diseases.* Spier, Stellenbosch. South Africa. November 2015.

**Pletschke, B.I.**

**Makayonke, N.T., Krause, R.W.M. and Pletschke, B.I.** Preparation and characterization of bioelectrodes for application in biofuel cells. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015.* Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Ross, C.J., Knox, C. and Tastan Bishop, O.**

**Ross, C.J., Knox, C. and Tastan Bishop, O.** In Silico Analysis of Evolutionary Conserved Interacting Motifs within Picornavirus Capsids. *Biophysics in the Understanding, Diagnosis, and Treatment of Infectious Diseases.* Spier, Stellenbosch. South Africa. November 2015.

**Ryan, C.N. and Tastan Bishop, O.**

**Ryan, C.N., Lobb, K.A. and Tastan Bishop, O.** Nonribosomal peptide synthetase A-domain - substrate interaction investigation. *ISMB/ECCB & Student Symposium.* Convention Center, Dublin. Ireland. July 2015.

**Sitole, P. and Dames, J.F.**

**Sitole, P. and Dames, J.F.** Mycorrhizal fungi and associated bacterial interactions with Citrus. *8th International Conference on Mycorrhiza.* Northern Arizona University, Flagstaff. United States of America. August 2015.

**Vaaltyn, M.C., Contu, L., Mutsunguma, L.Z. and Edkins, A.L.**

**Vaaltyn, M.C., Contu, L., Mutsunguma, L.Z. and Edkins, A.L.** The Interaction of Hop/mST11 with RhoC. *The 11th International Congress on Stress Responses in Biology and Medicine on Stress and Health: molecule to human.* Xiang Ming Hotel, Huangshan City. China. January 2015.

**Wilhelmi, B.S.**

**Ncube, M., Wilhelmi, B.S., Maatoug, M., Dellal, A. and Tandlich, R.** Solubilisation of Triclosan from silica gel with bile acids at 37°C. *The 2015 Academy of Pharmaceutical Sciences of South Africa/SAAPI Conference.* Johannesburg. South Africa. September 2015.

**Ncube, M., Wilhelmi, B.S., Tandlich, R., Maatoug, M. and Dellal, A.** Fate of Triclosan and wastewater sludge reuse in Grahamstown, South Africa and Taret, Algeria. *The SA-Algeria First Joint Researchers' Workshop.* iThemba Laboratories, Stellenbosch. South Africa. October 2015.

**Motha, C.M., Tandlich, R., Chiwakata, M.T., Wilhelmi, B.S. and Smogrovicova, D.** Analysis of South African honey quality based on their compositional properties by characterizing their microbial and biochemical properties. *The International Symposium on Agro-biotechnology and Sustainable Development.* University of Ibn-Khaldoun, Taret. Algeria. May 2015.

**Wingate, I., De La Mare, J.A., Blatch, G.L. and Edkins, A.L.**

**Wingate, I., De La Mare, J.A., Blatch, G.L., Edkins, A.L. and Picard, D.** A Novel Role for Hop in Regulating Angiotensin and the Hippo Signaling Pathway? *EMBO Conference on Molecular Chaperones: from molecules to cells and misfolding diseases.* Aldemar Resort Knossos Royal, Heraklion. Greece. May 2015.

# RHODES UNIVERSITY BIOTECHNOLOGY INNOVATION CENTRE

The Rhodes University Biotechnology Innovation Centre (RUBIC) had reason to celebrate during its sophomore year by partnering with the United Nations Children's Fund (UNICEF) Global Innovation Centre which culminated in a three (3) million rand funding promise and the donation of a 3D Printer to expand the burgeoning RUBIC Makerspace. Furthermore, RUBIC Director, Professor Janice Limson took up the position of SARChI Chair: Biotechnology Innovation and Engagement. Two (2) promising Masters candidates were recipients of the prestigious Mandela Rhodes Foundation Scholarships.

## Postgraduates / Graduations

RUBIC hosted twenty-six (26) Honours, Masters and PhD students in 2015. The Centre graduated twelve (12) Honours, two (2) Masters and two (2) PhD students.

## Distinguished Visitors / International Visits

The Centre was visited by Dr Sharad Sapra, Principal Advisor and Director of the UNICEF Global Innovation Centre, and Tanya Accone, Senior Adviser on Innovation at UNICEF in January 2015.

Dr Aileen Boshoff accompanied PhD candidates, Mr David N'yakundi and Mr Stephen Bentley to the VIIth International Congress on Stress Responses in Biology and Medicine in Huangshan City, China in September 2015.

## Significant Research and Innovation Aligned Events

Following fruitful discussions RUBIC was invited to showcase a prototype CD4 diagnostic device at the launch of the UNICEF Global Innovation Centre in New York (United States of America) in May 2015. **Professor Janice Limson** and Doctoral candidate **Mr Jan Kruid** demonstrated a much publicised simple low cost diagnostic device based on aptamer nano-biotechnology, an Android smartphone app (developed by Department of Computer Science student, **Mr Courney Pitcher** and his supervisor, **Dr James Connan**) and a plastic 3D printed housing (through the RUBIC Makerspace) that aims to allow for point-of-care CD4 counts critical to successful HIV treatment programmes. This culminated in the awarding of an initial three (3) year partnership agreement to the value of three (3) million rand with RUBIC.

BioSens Research group further shifted into high gear in 2015 with **Professor Janice Limson** starting her South African Research Chair in Biotechnology Innovation & Engagement ably assisted by South African Medical Research Council (SAMRC) Career Development Fellow **Dr Ronen Fogel**. The Chair speaks to all of the main tenets of RUBIC: Educate Innovate and Communicate. Professor Limson aims to break new ground in how biotechnology is communicated by engaging with the public through technology innovation. Students in RUBIC have begun engaging the public as participants in future



Dr Aileen Boshoff (left) and doctoral candidates Stephen Bentley (middle) and Onchang'a David Nyakundi (right) at the 7th International Congress on Stress Response in Biology and Medicine, 15-19 September 2015, Huangshan, China. Photo: RUBIC

technology, with the public providing localised perspectives to help drive the science towards real products and processes.

**Dr Aileen Boshoff** strengthened her research focus in Malaria and Trypanosomiasis through the publication of two (2) research articles in the prestigious International Journal of Biochemistry and Cell Biology as well as invitations to present oral and poster presentations at the VIIth International Congress on Stress Responses in Biology and Medicine in Huangshan City, China.

**Dr Earl Prinsloo's** research laboratory continued their focus in cellular differentiation and bioprinting. A donation of a Makerbot 3D printer through the partnership with RUBIC further expanded the additive manufacturing capacity of the RUBIC Makerspace run by Dr Prinsloo.

Prestigious Mandela Rhodes Foundation scholarships were awarded to **Ms Tamika Fellows** and **Ms Trisha Mpfu** to further their Masters studies in 2016.

**Dr Earl Prinsloo**  
Head of Department

**Professor Janice Limson**  
Director

## Books/Chapters/Monographs

**Boshoff, A.**

**Boshoff, A.** (2015) Chaperonin-Co-chaperonin Interactions . In: Blatch, G.L. and Edkins, A.L. (eds.). *The Networking of Chaperones by Co-chaperones: Control of Cellular Protein Homeostasis*. 2nd Ed. Switzerland: Springer. p.153-178. ISBN: 9783319117300.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Kramer, A.H., Kadye, R., Houseman, P.S. and Prinsloo, E.**  
**Kramer, A.H., Kadye, R., Houseman, P.S. and Prinsloo, E.** (2015) Mitochondrial STAT3 and reactive oxygen species: A fulcrum of adipogenesis? *JAK-STAT 4* (2015). p.1-10.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Cromhout, M., Flanagan, S.P., Fogel, R. and Limson, J.**  
Formisano, N., Jolly, P., Bhalla, N., **Cromhout, M., Flanagan, S.P., Fogel, R., Limson, J.** and Estrela, P. (2015) Optimisation of an electrochemical impedance spectroscopy aptasensor by exploiting quartz crystal microbalance with dissipation signals. *Sensors and Actuators B-Chemical*. 220 (2015). p.369-375.

**Kramer, A.H. and Prinsloo, E.**

**Kramer, A.H., Edkins, A.L., Hoppe, H.C. and Prinsloo, E.** (2015) Dynamic Mitochondrial Localisation of STAT3 in the Cellular Adipogenesis Model 3T3-L1. *Journal of Cellular Biochemistry*. 116 (7). p.1232-1240.

**Limson, J. and Prinsloo, E.**

**Ogobodu, R.O., Limson, J., Prinsloo, E. and Nyokong, T.** (2015) Photophysical properties and photodynamic therapy effect of zinc phthalocyanine-spermine-single walled carbon nanotube conjugate on MCF-7 breast cancer cell line. *Synthetic Metals*. 204 (2015). p.122-132.

**Ludewig, M. and Boshoff, A.**

**Ludewig, M., Boshoff, A., Horn, D. and Blatch, G.L.** (2015) *Trypanosoma brucei* J protein 2 is a stress inducible and essential Hsp40. *International Journal of Biochemistry and Cell Biology*. 60 (2015). p.93-98.

**Njunge, J.M. and Boshoff, A.**

**Njunge, J.M., Mandal, P., Przyborski, J.M., Boshoff, A., Pesce, E.R. and Blatch, G.L.** (2015) PFB0595w is a *Plasmodium falciparum* J protein that co-localizes with PfHsp70-1 and can stimulate its *in vitro* ATP hydrolysis activity. *International Journal of Biochemistry and Cell Biology*. 62 (2015). p.47-53.

**Prinsloo, E.**

Zininga, T., Achilonu, I., **Hoppe, H.C., Prinsloo, E., Dirr, H.W. and Shonhai, A.** (2015) Overexpression, Purification and Characterisation of the *Plasmodium falciparum* Hsp70-z (PfHsp70-z) Protein. *PLoS One*. 10 (6). p.1-13.

Zininga, T., Makumire, S., Gitau, G.W., **Njunge, J.M., Pooe, O.J., Klimek, H., Scheurr, R., Raifer, H., Prinsloo, E., Przyborski, J.M., Hoppe, H.C.** and Shonhai, A. (2015) *Plasmodium falciparum* Hop (PfHop) Interacts with the Hsp70 Chaperone in a Nucleotide-Dependent Fashion and Exhibits Ligand Selectivity. *PLoS One*. 10 (8). p.1-15.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Angala, A.N.**

**Angala, A.N., Ngqwala, N.P. and Tandlich, R.** Microbial and chemical tap water quality in Makana Municipality; and its toxicological implications. *4th YWP ZA Biennial and 1st African YWP Conference, held in from 16th*

*until 18th November 2015.* CSIR International Convention Centre, Pretoria. South Africa. November 2015.

**Bentley, S.J. and Boshoff, A.**

**Bentley, S.J. and Boshoff, A.** Investigation Of The Chaperone Properties And J-protein Partnership Of The Cytosolic Hsp70 Isoforms From The African Sleeping Sickness Parasite, *Trypanosoma brucei*. *Vllth International Congress on Stress Responses in Biology and Medicine*. Xiang Ming Hotel, Huangshan City. China. September 2015.

**Boshoff, A.**

**Boshoff, A.** Hsp70/J-protein Partnerships In *Trypanosoma brucei*. *Vllth International Congress on Stress Responses in Biology and Medicine*. Xiang Ming Hotel, Huangshan City. China. September 2015.

**Motha, C.M.**

**Motha, C.M., Tandlich, R., Chiwakata, M.T., Wilhelmi, B.S. and Smogrovicova, D.** Analysis of South African honey quality based on their compositional properties by characterizing their microbial and biochemical properties. *International Symposium on Agro-biotechnology and Sustainable Development*. University of Ibn-Khaldoun, Tiaret. Algeria. May 2015.

**Nondlazi, S.**

**Nondlazi, S., Ngqwala, N.P. and Tandlich, R.** The fate of Triclosan in the wastewater treatment process. *The 4th YWP ZA Biennial and 1st African YWP Conference*. CSIR International Convention Centre, Pretoria. South Africa. November 2015.

**Nyakundi, O.D. and Boshoff, A.**

**Nyakundi, O.D., Blatch, G.L. and Boshoff, A.** Plasmodium falciparum Mitochondrial PfHsp70-3 Requires an Escort Protein for Functional and Structural Activities. *Vllth International Congress on Stress Responses in Biology and Medicine*. Xiang Ming Hotel, Huangshan City. China. September 2015.

**Prinsloo, E. and Limson, J.**

**Oluwole, D.O., Tilbury, C.M., Prinsloo, E., Limson, J. and Nyokong, T.** Photophysicochemical and *in vitro* photodynamic activities of nanocomposites of zinc tetracarboxyphenoxy phthalocyanine immobilized onto glutathione QDs. *Upconversion Nanoparticle-BODIPY conjugates for NIR activated singlet oxygen generation*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

## BOTANY

The Botany Department continued to consolidate its research focus on evolution, ecology and global change. 2015 was a busy, eventful year that saw two (2) valued colleagues, Professor Nigel Barker and Dr Anusha Rajkaran, leave the university. The vacancy left by Professor Barker in August 2015 remained unfilled by the end of 2015.



We were pleased to welcome Professor Julie Coetzee at the start of December 2015, formerly a Senior Research Officer with the Biological Control Research group in the Department of Zoology and Entomology, who will contribute expertise in invasion biology, plant-insect interactions and biological control to the department's research activities.

Construction of the flagship elevated CO<sub>2</sub> research facility was completed at the end of the year with the first research projects scheduled to commence in early 2016. This project, led by **Professor Brad Ripley** with collaborators at Rhodes University and other institutions, will create exciting research opportunities on the effects of elevated atmospheric CO<sub>2</sub> on crop plants, natural vegetation dynamics and the effectiveness of biological control of alien weeds. Professor Ripley continued his research and international collaborations focusing on the evolution of C<sub>4</sub> grasses and on the ecophysiological processes underpinning land cover change, including bush encroachment.

**Professor Craig Peter** was on sabbatical in 2015. During this time he visited the Lowveld to work on the pollination of *Bauhinia galpinii* (The pride of de Kaap) and was able to show that this iconic South African plant is pollinated almost exclusively by large swallowtail butterflies while smaller butterflies and sunbirds rob the flowers of nectar. He also worked in KwaZulu-Natal (KZN) on moth-pollinated orchids, and this work has been submitted to a special edition of the journal *Flora* which is celebrating the life of Stefan Vogel who worked extensively on the pollination of the South African flora and made predictions about these species based on plants he collected at the same study site.

Mr Tony Dold was part of a team of researchers who identified and described a new species of bulb plant, *Massonia obermeyerae*.  
Photo: Mr Tony Dold

To support his citizen science project OrchidMAP, Professor Peter gave talks at seven (7) citizen scientist events around the country with ninety-seven (97) contributors contributing over three thousand two hundred (3200) records from fourteen (14) African countries.

**Dr Susi Vetter** continued her research on the cultural values of biodiversity and on the dynamics and feedbacks of bush encroachment. She won the award for best paper for a presentation on local vs landscape-level effects of bush encroachment at the annual Congress of the Grassland Society of Southern Africa.

**Dr Anusha Rajkaran** continued her research into coastal ecology, notably the expansion of mangroves into new areas as a result of global warming. She has also been active in collaborations with institutions in Kenya, Tanzania and Mexico, where she has attended workshops on the ecology and management of marine and coastal resources and to promote training and capacity building.

**Mr Tony Dold** was part of a team of researchers who identified and described a new species of bulb plant, *Massonia obermeyerae*. Tony found the plant based on an old specimen collected by the authors Eve Palmer ('The Plains of the Camdeboo') and her husband Jeffrey Jenkins on their farm, near Pearston in 1961.

## Postgraduates / Graduations

In 2015, the Botany Department was home to nine (9) Honours, seventeen (17) MSc and eight (8) PhD students. Four (4) MSc students graduated in 2015, one (Nic Venter, supervised by Professor Brad Ripley) with distinction. Of the four (4) Honours students who graduated in 2015, two (2) (Kyle Lloyd and Emma Mostert) graduated with distinction.

## Distinguished Visitors / International Visits

Professor Ripley visited Edinburgh and Sheffield in September 2015. He spent time with collaborators at Sheffield University and took part in a workshop on "Savannas in the Anthropocene" in Edinburgh, where he presented an invited paper on woody seedlings under elevated atmospheric CO<sub>2</sub>.

Dr Anusha Rajkaran was invited to participate in InteGRADE in Zanzibar, a collaborative North-South initiative to catalyse regional networking between emerging researchers in the Western Indian Ocean. The initiative is driven by the Vrije Universiteit Brussels, the University of Gent, the State University of Zanzibar and University of Dar es Salaam with regional partners in Kenya and South Africa. She was also invited to be part of a delegation from South Africa to participate in discussions with marine scientists in Mexico, in an effort to formalise a partnership to stimulate research on coastal and oceanic regions in these two countries.

**Professor Nigel Barker** participated in a National Geographic-funded expedition to Angola where he and three other botanists

(including MSc student Matt Janks) joined the "into the Okavango" expedition. This major biodiversity programme was established to explore and document the diversity of the catchment to the Okavango Swamps in Botswana. The team collected over three hundred (300) plant specimens, several of which were new to science and many of which were new records for Angola.

## Significant Research Aligned Events

DST Director: Earth Systems Science (Leluma Matoane) and Chief Director: Science Missions (Yonah Seleti) visited the Elevated CO<sub>2</sub> Facility.

### Professor Susanne Vetter

Head of Department



Large Swallowtail butterfly pollinating *Bauhinia galpinii*.  
Photo:  
Professor Craig Peter

## Concerts, Exhibitions, Performances, Workshops, Events

### Peter, C.I.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, East London*. Nahoon Nature Reserve, East London. South Africa. 14 July 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, East London*. Nahoon Nature Reserve, East London. South Africa. 14 July 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, Durban*. Durban Natural History Museum, Durban. South Africa. 9 May 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, Durban*. Durban Natural History Museum, Durban. South Africa. 9 May 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, Pietermaritzburg*. KZN Botanical Garden, Pietermaritzburg. South Africa. 8 May 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, Pietermaritzburg*. KZN Botanical Garden, Pietermaritzburg. South Africa. 8 May 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, Nelspruit*. Lowveld Botanical Gardens, Nelspruit. South Africa. 7 March 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, Nelspruit*. Lowveld Botanical Gardens, Nelspruit. South Africa. 7 March 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, Port Elizabeth*. Port Elizabeth. South Africa. 29 January 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, Port Elizabeth*. Port Elizabeth. South Africa. 29 January 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Why are we doing OchidMAP? *ADU Citizen Scientist Day, Grahamstown*. Department of Botany, Rhodes University, Grahamstown. South Africa. 28 January 2015.

**Peter, C.I.** Oral paper: citizen scientist workshop. Butterfly on a mission: making use of data generated by LepiMAP. *ADU Citizen Scientist Day, Grahamstown*. Department of Botany, Rhodes University, Grahamstown. South Africa. 28 January 2015.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Barker, N.P.

**Mmonwa, K.L., Teske, P.R., McQuaid, C.D. and Barker, N.P.** (2015) Historical demography of southern African patellid limpets: congruence of population expansions, but not phylogeography. *African Journal of Marine Science*. 37 (1). p.11-20.

**Barker, N.P. and Howis, S.**



The new CO<sub>2</sub> facility  
Photo: Paul Greenway/3pphotography

**Barker, N.P., Paterson, I. and Howis, S.** (2015) "Barcoding" and ISSR data illuminate a problematic infraspecific taxonomy for *Chrysanthemoides monilifera* (Calenduleae; Asteraceae): Lessons for biocontrol of a noxious weed. *Biochemical Systematics and Ecology*. 61 (2015). p.541-551.

**Barker, N.P. and Matiwane, A.**

**Barker, N.P. and Matiwane, A.** (2015) Meeting Abstract: Is there evidence of climate filtering in the Southern Mistbelt Forests of the Eastern Cape? *South African Journal of Botany*. 98 (2015). p.174.

**Barker, N.P. and Stodart, D.W.**

**Barker, N.P. and Stodart, D.W.** (2015) Meeting Abstract: The species level phylogenetic relationships of the genus *Carissa* L. (Apocynaceae). *South African Journal of Botany*. 98 (2015). p.202.

**Bentley, L., Barker, N.P. and Dold, A.P.**

**Bentley, L., Barker, N.P. and Dold, A.P.** (2015) Genetic diversity of the endangered *Faucaria tigrina* (Aizoaceae) through ISSR "fingerprinting" using automated fragment detection. *Biochemical Systematics and Ecology*. 58 (2015). p.156-161.

**Clark, V.R. and Barker, N.P.**

**Clark, V.R., Schrire, B.D. and Barker, N.P.** (2015) Two new species of *Indigofera* L. (Leguminosae) from the Sneeuberg Centre of Floristic Endemism, Great Escarpment (Eastern and Western Cape, South Africa). *PhytoKeys*. 48 (2015). p.29-41.

**Clark, V.R. and Barker, N.P.** (2015) Meeting Abstract: The role of edaphic substrate versus moisture availability in montane endemic plant distribution patterns - Evidence from the Cape Midlands Escarpment, South Africa. *South African Journal of Botany*. 98 (2015). p.174.

**Dold, A.P.**

**Cimi, P. and Dold, A.P.** (2015) Meeting Abstract: Investigation of the species diversity, density, abundance and distribution of street trees in the Grahamstown area. *South African Journal of Botany*. 98 (2015). p.174.

Martinez-Azorin, M., Crespo, M.B., **Dold, A.P.**, Pinter, M. and Wetschnig, W. (2015) New combinations and lectotype designations in Asparagaceae subfam. Scilloioideae. *Phytotaxa*. 201 (2). p.165-171.

Martinez-Azorin, M.B., Crespo, M.B., **Dold, A.P.**, Pinter, M. and Wetschnig, W. (2015) *Stellarioides exigua* (Asparagaceae, Scilloioideae), a new species from South Africa. *Phytotaxa*. 204 (2). p.137-146.

Martinez-Azorin, M.B., **Dold, A.P.**, Pinter, M., Slade, J.M., Crespo, M.B., Milkuhn, G. and Wetschnig, W. (2015) *Massonia obermeyerae* (Asparagaceae, Scilloioideae), a new species from South Africa. *Phytotaxa*. 205 (1). p.39-50.

**Kaehler, S.**

Lorrain, A., Graham, B.S., Popp, B.N., Allain, V., Olson, R.J., Hunt, B.P.V., Potier, M., Fry, B., Galvan-Magana, F., Menkes, C.E.R., **Kaehler, S.** and

Menard, F. (2015) Nitrogen isotopic baselines and implications for estimating foraging habitat and trophic position of yellowfin tuna in the Indian and Pacific Oceans. *Deep-Sea Research Part II-Topical Studies in Oceanography*. 113 (2015). p.188-198.

**Mckenzie, R.J.**

**Mckenzie, R.J., Lovis, J.D. and Ward, J.M.** (2015) Meiotic behaviour in two natural intergeneric hybrids among New Zealand everlastings (Asteraceae, Gnaphalioideae). *New Zealand Journal of Botany*. 53 (2). p.117-123.

**Melidonis, C.A. and Peter, C.I.**

**Melidonis, C.A. and Peter, C.I.** (2015) Diurnal pollination, primarily by a single species of rodent, documented in *Protea foliosa* using modified camera traps. *South African Journal of Botany*. 97 (2015). p.9-15.

**Mostert, E.C. and Peter, C.I.**

**Mostert, E.C. and Peter, C.I.** (2015) Meeting Abstract: Does multiple-bang flowering enhance outcrossing in the deceptive *Diets grandiflora*? *South African Journal of Botany*. 98 (2015). p.212.

**Perumal, L.**

Dhansay, T., Serper, A., Linol, B., Ndluvo, S., **Perumal, L.** and de Wit, M. (2015) Transdisciplinarity within South Africa's global change research: How (well?) are we doing? *South African Journal of Science*. 111 (5/6). p.1-4.

**Rajkaran, A.**

Hoppe-Speer, S.C.L., Adams, J.B. and **Rajkaran, A.** (2015) Mangrove expansion and population structure at a planted site, East London, South Africa. *Southern Forests*. 77 (2). p.131-139.

**Ripley, B.S.**

Lundgren, M.R., Besnard, G., **Ripley, B.S.**, Lehmann, C.E.R., Chatelet, D.S., Kynast, R.G., Namaganda, M., Vorontsova, M.S., Hall, R.C., Elia, J., Osborne, C. and Christin, P.A. (2015) Photosynthetic innovation broadens the niche within a single species. *Ecology Letters*. 18 (2015). p.1021-1029.

Simpson, K.J., **Ripley, B.S.**, Christin, P.A., Belcher, C.M., Lehmann, C.E.R., Thomas, G.H. and Osborne, C.P. (2015) Determinants of flammability in savanna grass species. *Journal of Ecology*. 2015. p.1-10.

**Ripley, B.S. and Martin, T.**

**Ripley, B.S., Visser, V., Christin, P.A., Archibald, S., Martin, T.** and Osborne, C. (2015) Fire ecology of C<sub>3</sub> and C<sub>4</sub> grasses depends on evolutionary history and frequency of burning but not photosynthetic type. *Ecology*. 96 (10). p.2679-2691.

**Situngu, S. and Barker, N.P.**

**Situngu, S. and Barker, N.P.** (2015) Meeting Abstracts: Ecological associations between leaf domatia and mites: How does the mutualism work? *South African Journal of Botany*. 98 (2015). p.200.

**Vetter, S.**

Hempson, G.P., Illius, A.W., Hendricks, H.H., Bond, W.J. and Vetter, S. (2015) Herbivore population regulation and resource heterogeneity in a stochastic environment. *Ecology*. 96 (8). p.2170-2180.

Palmer, A.R., Samuels, I., Cupido, C., Finca, A., Kangombe, W.F., Yunusa, I.A.M., Vetter, S. and Mapaire, I. (2015) Aboveground biomass production of a semi-arid southern African savanna: towards a new model. *African Journal of Range and Forage Science*. 2015. p.1-9.

**Wheeler, A. and Vetter, S.**

Wheeler, A., Knight, A.T. and Vetter, S. (2015) Examining the evidence for ecologically sustainable ostrich breeding practices on natural veld in the Little Karoo, South Africa. *African Journal of Range and Forage Science*. 2015. p.1-9.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bolosha, U. and Rajkaran, A.**

Bolosha, U. and Rajkaran, A. Re-evaluation of the distribution of mangroves in South Africa. *Western Indian Ocean of Marine Science Association*. Port Edward. South Africa. October 2015.

**Coetzee, J.A.**

Mvandaba, S.F., Coetzee, J.A., Hill, M.P. and Compton, S.G. The thermal physiology of *Stenopelmus rufinatus* Gyllenhal Coleoptera: Curculionidae and *Neohydronomus affinis* Hustache (Coleoptera: Curculionidae), two biological control agents for floating aquatic weeds, *Azolla filiculoides* and *Pistia stratiotes* in South Africa. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

Maseko, Z., Coetzee, J.A. and Hill, M.P. Nutrient dynamics of *Salvinia molesta* in shaded and open sites: how does plant quality affect the success of biological control by *Cyrtobagous salviniae*? *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

Martin, G.D., Hill, M.P., Coetzee, J.A. and Hill, J.M. Integrating applied entomology in to the community. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Mostert, E.C. and Peter, C.I.**

Mostert, E.C. and Peter, C.I. Multiple-bang flowering enhances out-crossing in the deceptive *Dietes grandiflora*. *41st South African Association of Botanists conference*. Tshipise Forever Resort, Venda. South Africa. January 2015.

**Peter, C.I.**

Peter, C.I. Successes and challenges after one year of OchidMAP. *Animal Demography Unit citizen science workshop and biobash*. Hans Hoheisen Wildlife Research Station, Orpen Gate, Kruger Northern Province. South Africa. November 2015.

**Rajkaran, A., Bornman, E. and Leslie, T.D.**

Rajkaran, A., Bornman, E., Leslie, T.D. and James, N.C. Now you see me now you don't! The influence of habitat complexity and connectivity on fish abundance in mangrove, salt marsh and seagrass beds. *Western Indian Ocean of Marine Science Association*. Port Edward. South Africa. October 2015.

**Ripley, B.S.**

Ripley, B.S. Oral paper: Invited workshop - Savannas in the Anthropocene, Seedling Response to Atmospheric CO<sub>2</sub>. Edinburgh, United Kingdom, September 2015.

**Vetter, S.**

Vetter, S. Transforming the life science curriculum: What holds us back, and what we can do. *(Re)Making the South African University: Curriculum Development and the Problem of Place*. Rhodes University, Grahamstown. South Africa. April 2015.

**Vetter, S., Klopper, C. and Ripley, B.S.**

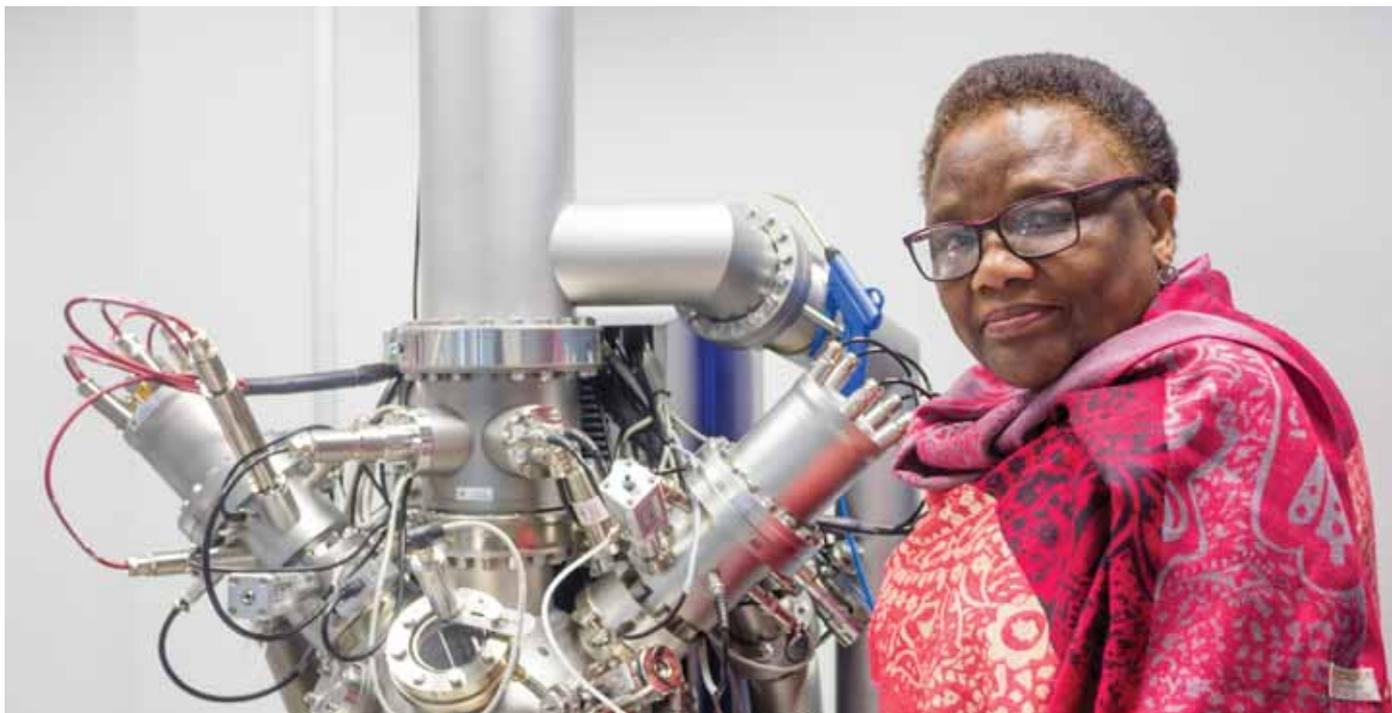
Vetter, S., Klopper, C. and Ripley, B.S. Landscape effects of bush encroachment on abiotic conditions and herbaceous composition and productivity. *50th Congress of the Grassland Society of Southern Africa*. Royal Agricultural Showgrounds, Pietermaritzburg. South Africa. July 2015.

Harvesting of natural resources on Grahamstown commonage  
Photo credit: Tony Dold



## CHEMISTRY

The Department of Chemistry had an unbelievable year in 2015, thanks largely to the achievements of Distinguished Professor Nyokong and the Centre for Nanotechnology Innovation (DST/Mintek NIC). Professor Nyokong published no fewer than sixty (60) articles in international journals and graduated a record six (6) Doctoral students.



The Department can only bask in the reflected glory of these achievements, and to paraphrase our Vice-Chancellor: "*Just when we thought she couldn't possibly do better, we are astonished by what the group is able to achieve next.*" Professor Nyokong also received a UNESCO Medal for her Contribution to the Development of Nanoscience and Nanotechnologies and was recognised by Celebrating Excellence in Organizations (CEO) as the most influential woman in Education and Training in Africa today.

This is not to devalue in any way all the other fantastic contributions by academic staff, support staff, technical and scientific officers who work tirelessly to ensure the success of the Department. Chemistry was again a hive of activity with many distinguished visitors, several research visits undertaken and conference presentations delivered - including the highly successful South African Institute of Chemistry's Inorganic Conference held in July with over one hundred (100) delegates from around the world.

## Postgraduates / Graduations

We are always very proud of our Postgraduates and in particular this year, I want to highlight that six (6) of our Honours students graduated with Distinction. These were joined by twelve (12) other Honours students, seven (7) Masters students, including Lester Sigauke who was awarded not one but two (2) Masters degrees, and eight (8) Doctoral graduates. The Department wishes all our

Distinguished Professor Nyokong next to the Time of Flight Secondary Ion Mass Spectrometer (TOF-SIMS) machine  
Photo: Department of Chemistry

graduates success in their future and their careers.

The research success of the department also rubs off on our Postgraduates, many of whom received awards for conference presentations and research outputs in 2015. In particular Colin Mkhize, who graduated with a distinction in Masters was awarded a Mandela Rhodes Scholarship for a PhD at Oxford and Ms Siphesihle Nxele, a Masters student was the winner of the 2015 South African Women in Science Awards for MSc.

We are also tremendously proud of our staff who undertake further study, and in 2015 Mr Simbongile Sicwetsha graduated with a National Diploma in Chemistry from Walter Sisulu University (WSU).

## Distinguished Visitors / International Visits

The Department was host to numerous distinguished visitors, including several NASA scientists such as Jim Adams and astronaut Catherine Coleman, and the SACI conference

brought collaborators from Russia, France and Japan, including Professor N Kobayashi as a plenary speaker.

We were also fortunate to host Dr Kerry McPhail (a former Rhodes graduate) from Oregon State University as our Barker Lecturer.

These visits were matched by a large number of reciprocal visits by staff and students to labs, facilities, and conferences around the world, all of which renew and invigorate the work that we do.

Thank you everyone and congratulations.

### Professor Rui Krause

Head of Department

Acid-base titrations: a new experience for learners who do not have access to laboratories at school  
Photo: Department of Chemistry



## Concerts, Exhibitions, Performances, Workshops, Events

**Hulushe, S.T. and Watkins, G.M.**

**Hulushe, S.T. and Watkins, G.M.** Workshop. Materials-Based Hydrogen Storage: Design, Synthesis and Characterisation of Porous Materials. *UK Researcher Links Bilateral Workshop*. Pretoria. South Africa. 1 - 4 September 2015.

**Managa, M., Britton, J. and Nyokong, T.**

**Managa, M., Britton, J. and Nyokong, T.** Oral Presentation. Synthesis of pluronic silica nanoparticles (PluS NPs) and mono substituted porphyrin for photodynamic chemotherapy (PACT). *6th Annual DST/Mintek Nanotechnology Innovation Centre (NIC) Workshop*. Rhodes University, Barratt Lecture Theatre II, Grahamstown. South Africa. 28 - 29 October 2015.

**Osifeko, O.L. and Nyokong, T.**

**Osifeko, O.L. and Nyokong, T.** Oral Presentation. Physicochemical and Antimicrobial Photodynamic Therapy of metallophthalocyanines. *6th Annual DST/Mintek Nanotechnology Innovation Centre (NIC) Workshop*. Rhodes University, Barratt Lecture Theatre II, Grahamstown. South Africa. 28 - 29 October 2015.

**Stone, J., Mack, J. and Nyokong, T.**

**Stone, J., Mack, J. and Nyokong, T.** Oral Presentation. Electrospinning of BODIPY dyes for sensing applications. *6th Annual DST/Mintek Nanotechnology Innovation Centre (NIC) Workshop*. Rhodes University, Barratt Lecture Theatre II, Grahamstown. South Africa. 28 - 29 October 2015.

**Taylor, J. and Nyokong, T.**

**Taylor, J. and Nyokong, T.** Oral Presentation. Towards a ZnSe quantum dot porphyrin conjugate for application in fluorescence sensing (Best Oral Presentation). *6th Annual DST/Mintek Nanotechnology Innovation Centre (NIC) Workshop*. Rhodes University, Barratt Lecture Theatre II, Grahamstown. South Africa. 28 - 29 October 2015.

**Wildervanck, M., Mack, J. and Nyokong, T.**

**Wildervanck, M., Mack, J. and Nyokong, T.** Poster Presentation. Upconversion Nanoparticle-BODIPY conjugates for NIR activated singlet oxygen generation (Best Poster Presentation). *6th Annual DST/Mintek Nanotechnology Innovation Centre (NIC) Workshop*. Rhodes University, Barratt Lecture Theatre II, Grahamstown. South Africa. 28 - 29 October 2015.

## Distinguished Visitors

**Martynov, A.**

**Professor A Martynov.** Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia. *Research Collaboration (NRF SA/Russia) and Keynote Speaker: The 17th South African Chemical Institute Inorganic Chemistry Conference (INORG2015)*. June 2015.

**Adams, J.**

**Dr J Adams.** NASA: Washington DC, Washington DC, United States of America. *Frontiers of Science - lecture*. March 2015.

**Alexander, C.**

**Dr C Alexander.** Jet Propulsion Laboratory California Institute of Technology, Pasadena, United States of America. *Frontiers of Science 2015 - lecture*. March 2015.

**Bedioui, F. and Varenne, A.**

**Professor F Bedioui and Professor A Varenne.** Ecole Nationale Supérieure de Chimie de Paris, Paris, France. *Lecture/Talk: Surface functionalization strategies for the design of a lab-on-a-chip integrating an aptamer-based molecular capture for the analysis of emerging water contaminants*. *Research Collaboration (NRF SA/France)*. November 2015.

**Coleman, C.**

**Dr C Coleman.** Lyndon Johnson Space Center Texas, Houston, United States of America. *Frontiers of Science - lecture*. March 2015.

**Furuta, H.**

**Professor H Furuta.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan) and Plenary Speaker: The 17th South African Chemical Institute Inorganic Chemistry Conference (INORG2015)*. June 2015.

**Gai, L.**

**Mr L Gai.** Nanjing University, Nanjing, China. *Research Collaboration (NRF SA/China): Exchange Student*. November 2015.

**Gorbunova, Y.**

**Professor Y Gorbunova.** Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia. *Research Collaboration (NRF SA/Russia) and Keynote Speaker: The 17th South African Chemical Institute Inorganic Chemistry Conference (INORG2015)*. June 2015.

**Grimes, R.**

**Dr R Grimes.** Imperial College: London, London, United Kingdom. *Frontiers of Science - Lecture*. March 2015.

**Ikeuchi, T.**

**Mr T Ikeuchi.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan): Exchange student*. October 2015.

**Kobayashi, N.**

**Professor N Kobayashi.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan) and Plenary Speaker: The 17th South African Chemical Institute Inorganic Chemistry Conference (INORG2015)*. June 2015.

**Marais, E.**

**Dr E Marais.** Harvard University, Cambridge, United States of America. *Lecture/Talk: "Air Pollution in Africa: A View from Space"*. November 2015.

**McPhail, K.**

**Professor K McPhail.** Oregon State University, Corvallis, United States of America. *Lecture and a seminar*. September 2015.

Pritchett, J.

**Dr J Pritchett.** Montgomery College: Rockville Campus, MD, Rockville, United States of America. *Lecture: Forensic applications at the National Institute of Standards and Technology.* February 2015.

**Ramirez Garcia, G.**

**Mr G Ramirez Garcia.** Ecole Nationale Supérieure de Chimie de Paris, Paris, France. *Research Collaboration (NRF SA/France): Exchange Student.* November 2015.

**Shen, Z.**

**Professor Z Shen.** Nanjing University, Nanjing, China. *Lecture/Talk: Artificial Porphyrinoids Embedded with Functional Building Blocks: Research Collaboration (NRF SA/China).* November 2015.

**Shi, M.**

**Mr M Shi.** Nanjing University, Nanjing, China. *Research Collaboration (NRF SA/China): Exchange Student.* November 2015.

**Stofan, E.**

**Dr E Stofan.** NASA: Washington DC, Washington DC, United States of America. *Frontiers of Science - lecture.* March 2015.

**Tasso, T.**

**Mr T Tasso.** Tohoku University, Sendai, Japan. *Research Collaboration (NRF SA/Japan) - PhD Exchange student.* February 2015.

**Varenne, A.**

**Professor A Varenne.** Ecole Nationale Supérieure de Chimie de Paris, Paris, France. *Lecture/Talk: Electrophoresis: characterization of nano objects and diagnosis: Research Collaboration (NRF SA/France).* November 2015.

**Wothers, P.**

**Dr P Wothers.** University of Cambridge, Cambridge, United Kingdom. *Frontiers of Science - Lecture.* March 2015.

## International Visits

**Ezuruike, H.**

**Ezuruike, H.** Trakia University, Bulgaria. *Research Collaboration (EC-FP7 IRSES, Marie Skłodowska Curie Actions): PhD Exchange Researcher.* 21 September - 15 December 2015.

**Harris, J.A.**

**Harris, J.A.** Nanjing University, Nanjing, China. *Research Collaboration (NRF SA/China): MSc Exchange Student.* 3 - 24 December 2015.

**Kubheka, G.**

**Kubheka, G.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan): MSc Exchange Student.* 6 July - 3 September 2015.

**Mack, J.**

**Mack, J.** Hangzhou Normal University, Hangzhou, China. *Research Collaboration (NRF SA/China).* 21 - 25 December 2015.

**Mack, J.** Nanjing University, Nanjing, China. *Research Collaboration (NRF SA/China).* 15 - 20 December 2015.

**Mack, J.** Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia. *Research Collaboration (NRF SA/Russia).* 17 - 26 September 2015.

**Managa, M.**

**Managa, M.** Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy, Moscow, Russia. *Research Collaboration (NRF SA/Russia): PhD Exchange Student.* 1 - 27 June 2015.

**Nxele, S.R.**

**Nxele, S.R.** Chimie ParisTech, Paris, France. *Research Collaboration (NRF SA/France): MSc Exchange Student.* 1 October - 15 November 2015.

**Nyokong, T.**

**Nyokong, T.** N/A, Vienna, Austria. *The World Academy of Sciences (TWAS) TWAS 13th General Conference and 26th General Meeting.* 16 - 19 November 2015.

**Nyokong, T.** N/A, Istanbul, Turkey. *First Meeting of the High-level Panel of the Secretary-General on Technology Bank for LDC's (Member of the High-level Panel).* 16 - 17 February 2015.

**Nyokong, T.** N/A, Istanbul, Turkey. *Second Meeting of the High-level Panel of the Secretary-General on Technology Bank for LDC's (Member of the High-level Panel).* 1 - 5 September 2015.

**Nyokong, T.** N/A, Paris, France. *Jury Member for 2015 Laureates of the L'ORÉAL-UNESCO for Women in Science Awards.* 15 - 19 March 2015.

**Oluwole, D.O.**

**Oluwole, D.O.** Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia. *Research Collaboration (NRF SA/Russia): PhD Exchange Student.* 24 November - 13 December 2015.

**Siwe Noundou, X**

**Siwe Noundou, X.** Kaposvar University, Hungary, and Stiegen University, Germany. *Research Collaboration (EC-FP7 IRSES, Marie Skłodowska Curie Actions): Postdoctoral Exchange Researcher.* 19 May - 10 July 2015.

**Stone, J.**

**Stone, J.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan): MSc Exchange Student.* 6 July - 3 September 2015.

**Wildervanck, M.**

**Wildervanck, M.** Shinshu University, Ueda, Japan. *Research Collaboration (NRF SA/Japan): MSc Exchange Student.* 6 July - 3 September 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Awokoya, K.N., Tshentu, Z.R. and Torto, N.**

**Awokoya, K.N., Tshentu, Z.R. and Torto, N.** (2015) Fabrication and evaluation of multiple template cross-linked molecularly imprinted electro spun nanofibers for selective extraction of nickel and vanadyl tetraphenylporphyrin from organic media. *African Journal of Pure and Applied Chemistry.* 9 (12). p.1497-1506.

**Chigome, S. and Torto, N.**

**Mafuma, T., Van Dyk, J.S., Chigome, S., Torto, N. and Pletschke, B.I.** (2015) Immobilisation of Acetylcholinesterase onto Electrospun Nanofibres for Carbofuran and Demeton-S-Methyl Sulfone Detection. *Current Biotechnology.* 4 (2015). p.134-144.

**Ifegwu, C., Anyakora, C., Chigome, S. and Torto, N.** (2015) Electrospun nanofiber sorbents for the pre-concentration of urinary 1-hydroxypyrene. *Journal of Analytical Science and Technology.* 2015 (2015). p.6-14.

**Shaibu, R.O. and Watkins, G.M.**

**Shaibu, R.O. and Watkins, G.M.** (2015) Synthesis and Spectroscopic Studies of Schiff Bases From Variously Substituted Benzaldehydes And 2-Aminomethyl Pyridine. *Ife Journal of Science.* 17 (1). p.31-39.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Achadu, O.J. and Nyokong, T.**

**Achadu, O.J. and Nyokong, T.** (2015) Interaction of Graphene Quantum Dots with 4-Acetamido-2,2,6,6-Tetramethylpiperidine-Oxyl Free Radicals: A Spectroscopic and Fluorimetric Study. *Journal of Fluorescence.* 2015 (2015). p.1-13.

**Bankole, O.M. and Nyokong, T.**

**Bankole, O.M. and Nyokong, T.** (2015) Mercaptopyridine-substituted indium, zinc, and metal-free phthalocyanines: nonlinear optical studies in solution and on polymer matrices. *Journal of Coordination Chemistry.* 68 (20). p.3727-3740.

**Bankole, O.M. and Nyokong, T.** (2015) Photophysical and nonlinear optical studies of tetraalkynyl zincphthalocyanine and its "clicked" analogue. *Journal of Molecular Structure.* 1089 (2015). p.107-115.

**Bankole, O.M., Britton, J. and Nyokong, T.**

**Bankole, O.M., Britton, J. and Nyokong, T.** (2015) Photophysical and non-linear optical behavior of novel tetra alkynyl terminated indium phthalocyanines: Effects of the carbon chain length. *Polyhedron.* 88 (2015). p.73-80.

**Bromley, C.L.**

**Bromley, C.L., Raab, A., Beukes, D., Feldman, J., Jaspars, M. and Davies-Coleman, M.T.** (2015) Meeting Abstract: Detection of halogenated tryamine and tyrosine derivatives in extracts of Algoa Bay ascidians. *Planta Medica.* 81 (2015). p.29.

**Chigome, S. and Torto, N.**

**De Almeida, L.K.S., Chigome, S., Torto, N., Frost, C.L. and Pletschke, B.I.** (2015) A novel colorimetric sensor strip for the detection of glyphosate



Glassblowing demonstration: the glassblower is an integral part of the Chemistry Department  
Photo: Department of Chemistry

in water. *Sensors and Actuators B - Chemical*. 206 (2015). p.357-363.

**Darko, G. and Torto, N.**

**Darko, G., Goethals, A., Torto, N. and De Clerck, K.** (2015) Steady state electrospinning of uniform polyethersulfone nanofibers using a non-heated solvent mixture. *Applied Nanoscience*. 2015 (2015). p.1-9.

**D'Souza, S., George, R. and Nyokong, T.**

**D'Souza, S., George, R., Goksel, M., Atilla, D., Durmus, M. and Nyokong, T.** (2015) Enhanced triplet state yields in aqueous media of asymmetric zinc phthalocyanines when conjugated to silver nanoflowers. *Polyhedron*. 100 (2015). p.296-302.

**D'Souza, S., Mashazi, P., Britton, J. and Nyokong, T.**

**D'Souza, S., Mashazi, P., Britton, J. and Nyokong, T.** (2015) Effects of differently shaped silver nanoparticles on the photophysics of pyridyl-sulfanyl-substituted phthalocyanines. *Polyhedron*. 99 (2015). p.112-121.

**D'Souza, S., Moeno, S. and Nyokong, T.**

**D'Souza, S., Moeno, S. and Nyokong, T.** (2015) Effects of ZnO nano-hexagons and nanorods on the fluorescence behavior of metallo-phthalocyanines. *Polyhedron*. 85 (2015). p.476-481.

**D'Souza, S., Ogbodu, R.O. and Nyokong, T.**

**D'Souza, S., Ogbodu, R.O. and Nyokong, T.** (2015) The effects of gold coated and uncoated zinc oxide nano-hexagons on the photophysical-chemical properties of the low symmetry zinc phthalocyanine. *Journal of Molecular Structure*. 1099 (2015). p.551-559.

**Faridoon, H.**

**Ikram, M., Rehman, S., Khan, A., Baker, R.J., Hofer, T.S., Subhan, F., Qayum, M., Faridoon, H. and Schulzke, C.** (2015) Synthesis, characterization, antioxidant and selective xanthine oxidase inhibitory studies of transition metal complexes of novel amino acid bearing Schiff base ligand. *Inorganica Chimica Acta*. 428 (2015). p.117-126.

**Faridoon, H., Olomola, T.O., Tukulula, M., Klein, R. and Kaye, P.T.**

**Faridoon, H., Olomola, T.O., Tukulula, M., Klein, R. and Kaye, P.T.** (2015) Strong base- or acid-mediated chemoselectivity shifts in the synthesis of 2H-chromene or coumarin derivatives from common Baylis-Hillman adducts. *Tetrahedron*. 71 (2015). p.4868-4873.

**Fashina, A. and Nyokong, T.**

**Fashina, A. and Nyokong, T.** (2015) Nonlinear optical responses of tetra and mono substituted zinc phthalocyanine complexes. *Journal of Luminescence*. 167 (2015). p.71-79.

**Fashina, A., Amuhaya, E.K. and Nyokong, T.**

**Fashina, A., Amuhaya, E.K. and Nyokong, T.** (2015) A comparative photophysical-chemical study of phthalocyanines encapsulated in core-shell silica nanoparticles. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 137 (2015). p.294-299.

**Fashina, A., Amuhaya, E.K. and Nyokong, T.** (2015) Photophysical studies of newly derivatized mono substituted phthalocyanines grafted

onto silica nanoparticles via click chemistry. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 140 (2015). p.256-264.

**Fayemi, O.E., Antunes, E.M. and Nyokong, T.**

**Fayemi, O.E., Ogunlaja, S.A., Antunes, E.M., Nyokong, T. and Tshentu, Z.R.** (2015) The Development of Palladium(II)-Specific Amine-Functionalized Silica-Based Microparticles: Adsorption and Column Separation Studies. *Separation Science and Technology*. 50 (2015). p.1497-1506.

**George, R.C. and Nyokong, T.**

**George, R.C., Falgenhauer, J., Geis, C., Nyokong, T. and Schlettwein, D.** (2015) Characterization of porphyrin nanorods on fluoride doped tin oxide glass sheets. *Journal of Porphyrins and Phthalocyanines*. 19 (2015). p.1147-1158.

**Gundhla, I.Z. and Walmsley, R.S.**

**Gundhla, I.Z., Walmsley, R.S., Ugirinema, V., Mnonopi, N.O., Hosten, E.C., Betz, R., Frost, C.L. and Tshentu, Z.R.** (2015) pH-metric chemical speciation modeling and studies of in vitro antidiabetic effects of bis [(imidazolyl) carboxylato] oxidovanadium (IV) complexes. *Journal of Inorganic Biochemistry*. 145 (2015). p.11-18.

**Ifegwu, O.C. and Torto, N.**

**Ifegwu, O.C., Anyakora, C. and Torto, N.** (2015) Nylon 6-Gold Nanoparticle Composite Fibers for Colorimetric Detection of Urinary 1-Hydroxypyrene. *Journal of Applied Spectroscopy*. 82 (2). p.260-265.

**Kempgens, P.**

**Kempgens, P.** (2015) Semi-analytical description of the  $S=9/2$  quadrupole nutation NMR experiment: multinuclear application to  $^{113}\text{In}$  and  $^{115}\text{In}$  in indium phosphide. *Magnetic Resonance in Chemistry*. 53 (2015). p.261-266.

**Khanye, S.D.**

**Veale, C.G.L., Edkins, A.L., De La Mare, J.A., de Kock, C., Smith, P.J. and Khanye, S.D.** (2015) Facile synthesis and biological evaluation of assorted indolyl-3-amides and esters from a single, stable carbonyl nitrile intermediate. *Tetrahedron Letters*. 56 (2015). p.1860-1864.

**Khoza, P. and Nyokong, T.**

**Khoza, P. and Nyokong, T.** (2015) Visible light transformation of Rhodamine 6G using tetracarbazole zinc phthalocyanine when embedded in electrospun fibers and in the presence of ZnO and Ag particles. *Journal of Coordination Chemistry*. 68 (7). p.1117-1131.

**Khoza, P. and Nyokong, T.** (2015) Photocatalytic behaviour of zinc tetraamino phthalocyanine-silver nanoparticles immobilized on chitosan beads. *Journal of Molecular Catalysis A-Chemical*. 399 (2015). p.25-32.

**Krause, R.W.M.**

**Kuvarega, A.T., Krause, R.W.M. and Mamba, B.B.** (2015) Evaluation of the simulated solar light photocatalytic activity of N, Ir co-doped TiO<sub>2</sub> for organic dye removal from water. *Applied Surface Science*. 329 (2015). p.127-136.

- Ledwaba, M., Masilela, N., Nyokong, T. and Antunes, E.M. Ledwaba, M., Masilela, N., Nyokong, T. and Antunes, E.M. (2015) Surface modification of silica-coated gadolinium oxide nanoparticles with zinc tetracarboxyphenoxy phthalocyanine for the photodegradation of Orange G. *Journal of Molecular Catalysis A-Chemical*. 403 (2015). p.64-76.
- Litwinski, C. Boryakov, V.G., Ilgenfritz, E.M., Litwinski, C., Muller-Preussker, M. and Mitrushkin, V.K. (2015) Landau gauge ghost propagator and running coupling in  $SU(2)$  lattice gauge theory. *Physical Review D*. 92 (2015). p.1-10.
- Lobb, K.A. Odame, F., Hosten, E.C., Betz, R., Lobb, K.A. and Tshentu, Z.R. (2015) Benzimidazole or Diamide from a Reaction of Diamines and Carboxylic Acids or Acid Chlorides: Crystal Structures and Theoretical Studies. *Acta Chimica Slovenica*. 62 (2015). p.986-994.
- Odame, F., Hosten, E.C., Betz, R., Lobb, K.A. and Tshentu, Z.R. (2015) Characterization of some amino acid derivatives of benzoyl isothiocyanate: Crystal structures and theoretical prediction of their reactivity. *Journal of Molecular Structure*. 1099 (2015). p.38-48.
- Hatherley, R., Brown, D.K., Musyoka, T.M., Penkler, D.L., Faya, N., Lobb, K.A. and Tastan Bishop, O. (2015) SANCDB: a South African natural compound database. *Journal of Cheminformatics*. 7 (29). p.1-9.
- Lobb, K.A. (2015) Isomerization of the 2-Norbornyl Carbocation. *European Journal of Organic Chemistry*. 2015 (2015). p.5370-5380.
- Mack, J. Xue, Z., Wang, Y., Mack, J., Fang, Y., Ou, Z., Zhu, W. and Kadish, K. (2015) Synthesis and Characterization of Palladium(II) Complexes of meso-Substituted [14] Tribenzotriphyrin (2.1.1). *Inorganic Chemistry*. 54 (2015). p.11852-11858.
- Wu, F., Liu, J., Mishra, P., Komeda, T., Mack, J., Chang, Y., Kobayashi, N. and Shen, Z. (2015) Modulation of the molecular spintronic properties of adsorbed copper corroles. *Nature Communications*. 6 (7547). p.1-8.
- Xue, Z., Wang, Y., Mack, J., Zhu, W. and Ou, Z. (2015) Synthesis, Characterization, and Electrochemistry of the Manganese(I) Complexes of meso-Substituted [14] Tribenzotriphyrins (2.1.1). *Chemistry - A European Journal*. 21 (2015). p.2045-2051.
- Wang, S., Liu, H., Mack, J., Tian, J., Zou, B., Lu, H., Li, Z., Jiang, J. and Shen, Z. (2015) A BODIPY-based 'turn-on' fluorescent probe for hypoxic cell imaging. *Chemical Communications*. 51 (2015). p.13389-13392.
- Mack, J. and Nyokong, T. Gai, L., Mack, J., Lu, H., Nyokong, T., Li, Z., Kobayashi, N. and Shen, Z. (2015) Organosilicon compounds as fluorescent chemosensors for fluoride anion recognition. *Coordination Chemistry Reviews*. 285 (2015). p.24-51.
- Tasso, T.T., Taniyuki, F., Mack, J., Nyokong, T. and Kobayashi, N. (2015) Synthesis and Photophysical Investigation of Tetraazaporphyrin Substituted with Aggregation-Induced Emission (AIE) Active Moieties. *European Journal of Inorganic Chemistry*. 2015. p.5516-5522.
- Mack, J., Kubheka, G. and Nyokong, T. Chen, W., Zhang, J., Mack, J., Kubheka, G., Nyokong, T. and Shen, Z. (2015) Corrole-BODIPY conjugates: enhancing the fluorescence and phosphorescence of the corrole complex via efficient through bond energy transfer. *RSC Advances*. 5 (2015). p.50962-50967.
- Mack, J., Majumdar, P. and Nyokong, T. Wang, B.B., Zuo, H., Mack, J., Majumdar, P., Nyokong, T., Chan, K.S. and Shen, Z. (2015) Optical properties and electronic structures of axially-ligated group 9 porphyrins. *Journal of Porphyrins and Phthalocyanines*. 19 (2015). p.973-982.
- Mack, J., Stone, J. and Nyokong, T. Liang, X., Xu, L., Li, M., Mack, J., Stone, J., Nyokong, T., Jiang, Y., Kobayashi, N. and Zhu, W. (2015) Facile synthesis, spectroscopic and electrochemical properties, and theoretical calculations of porphyrin dimers with a bridging amide-bonded xanthenone moiety. *Journal of Porphyrins and Phthalocyanines*. 19 (2015). p.819-829.
- Mack, J., Wildervanck, M. and Nyokong, T. Jiang, Y., Li, M., Liang, X., Mack, J., Wildervanck, M., Nyokong, T., Qin, M. and Zhu, W. (2015) Lipophilic  $M(\alpha,\alpha'-OC_5H_{11})_8$ phthalocyanines ( $M = H_2$  and  $Ni(II)$ ): synthesis, electronic structure, and their utility for highly efficient carbonyl reductions. *Dalton Transactions*. 44 (2015). p.18237-18246.
- Majumdar, P., Mack, J. and Nyokong, T. (2015) Synthesis, characterization and photophysical properties of an acenaphthalene fused-ring-expanded NIR absorbing aza-BODIPY dye. *RSC Advances*. 5 (2015). p.78253-78258.
- Managa, M. and Nyokong, T. Managa, M. and Nyokong, T. (2015) Photodynamic antimicrobial chemotherapy activity of gallium tetra-(4-carboxyphenyl) porphyrin when conjugated to differently shaped platinum nanoparticles. *Journal of Molecular Structure*. 1099 (2015). p.432-440.
- Managa, M., Amuhaya, E.K. and Nyokong, T. Managa, M., Amuhaya, E.K. and Nyokong, T. (2015) Photodynamic antimicrobial chemotherapy activity of (5,10,15,20-tetrakis(4-(4-carboxyphenylcarbonimidoyl)phenyl)porphyrinato) chloro gallium(III). *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*. 151 (2015). p.867-874.
- Manyeruke, M.H., Olomola, T.O., Majumder, S., Isaacs, M., Klein, R. and Kaye, P.T. Manyeruke, M.H., Olomola, T.O., Majumder, S., Abrahams, S., Isaacs, M., Mautsa, N., Mosebi, S., Mnkandhla, D., Hewer, R., Hoppe, H.C., Klein, R. and Kaye, P.T. (2015) Synthesis and evaluation of 3-hydroxy-3-phenylpropanoate ester-AZT conjugates as potential dual-action HIV-1 Integrase and Reverse Transcriptase inhibitors. *Bioorganic & Medicinal Chemistry*. 23 (2015). p.7521-7528.
- Maringa, A., Mashazi, P. and Nyokong, T. Maringa, A., Mashazi, P. and Nyokong, T. (2015) Electrocatalytic activity of bimetallic Au-Pd nanoparticles in the presence of cobalt tetraamino-phthalocyanine. *Journal of Colloid and Interface Science*. 440 (2015). p.151-161.
- Mkhize, C., Britton, J., Mack, J. and Nyokong, T. Mkhize, C., Britton, J., Mack, J. and Nyokong, T. (2015) Optical limiting and singlet oxygen generation properties of phosphorus triazetate-benzocorroles. *Journal of Porphyrins and Phthalocyanines*. 19 (2015). p.192-204.
- Modisha, P., Antunes, E.M. and Nyokong, T. Modisha, P., Antunes, E.M. and Nyokong, T. (2015) Photophysical properties of zinc tetracarboxy phthalocyanines conjugated to magnetic nanoparticles. *Journal of Nanoscience and Nanotechnology*. 15 (5). p.3688-3696.
- Mthethwa, T. and Nyokong, T. Mthethwa, T. and Nyokong, T. (2015) Fluorescence behavior and singlet oxygen generating abilities of aluminum phthalocyanine in the presence of isotropic gold nanoparticles. *Journal of Luminescence*. 157 (2015). p.207-214.
- Mthethwa, T. and Nyokong, T. (2015) Photoinactivation of *Candida albicans* and *Escherichia coli* using aluminium phthalocyanine on gold nanoparticles. *Photochemical and Photobiological Sciences*. 14 (2015). p.1346-1356.
- Mugadza, T., Antunes, E.M. and Nyokong, T. Mugadza, T., Antunes, E.M. and Nyokong, T. (2015) Synthesis of single-walled carbon nanotubes by the pyrolysis of a compression activated iron(II) phthalocyanine/phthalocyanine metal-free derivative/ferric acetate mixture. *Journal of Chemical Sciences*. 127 (7). p.1191-1199.
- Ngubeni, G.N., Britton, J., Mack, J., Nyokong, T. and Khene, S. Ngubeni, G.N., Britton, J., Mack, J., New, E., Hancox, I., Walker, M., Nyokong, T., Jones, T.S. and Khene, S. (2015) Spectroscopic and nonlinear optical properties of the four positional isomers of 4 $\alpha$ -(4-tert-butylphenoxy)phthalocyanine. *Journal of Materials Chemistry C*. 3 (2015). p.10705-10714.
- Nxele, S.R., Mashazi, P. and Nyokong, T. Nxele, S.R., Mashazi, P. and Nyokong, T. (2015) Electrode Modification Using Alkynyl Substituted Fe(II) Phthalocyanine via Electrografting and Click Chemistry for Electrocatalysis. *Electroanalysis*. 27 (2015). p.2468-2478.
- Nyokong, T. Adegoke, O., Nyokong, T. and Forbes, P.B.C. (2015) Optical properties of water-soluble L-cysteine-capped alloyed CdSeS quantum dot passivated with ZnSeTe and ZnSeTe/ZnS shells. *Optical Materials*. 46 (2015). p.548-554.
- Adegoke, O., Nyokong, T. and Forbes, P.B.C. (2015) Structural and optical properties of alloyed quaternary CdSeTeS core and CdSeTeS/ZnS core-shell quantum dots. *Journal of Alloys and Compounds*. 645 (2015). p.443-449.

- Obuah, C., Lochee, Y., Jordaan, J.H.L., Otto, D.P., Nyokong, T. and Darkwa, J. (2015) (Ferrocenylpyrazolyl)zinc(II) benzoates as catalysts for the ring opening polymerization of  $\epsilon$ -caprolactone. *Polyhedron*. 90 (2015). p.154-164.
- Nyoni, S. and Nyokong, T.
- Nyoni, S. and Nyokong, T. (2015) Comparative electrocatalytic studies of nanocomposites of mixed and covalently linked multiwalled carbon nanotubes and 4-(4,6-diaminopyrimidin-2-ylthio) phthalocyaninato cobalt(II). *Polyhedron*. 98 (2015). p.47-54.
- Nyoni, S., Mashazi, P. and Nyokong, T.
- Nyoni, S., Mashazi, P. and Nyokong, T. (2015) Iodine-Doped Cobalt Phthalocyanine Supported on Multiwalled Carbon Nanotubes for Electrocatalysis of Oxygen Reduction Reaction. *Electroanalysis*. 27 (2015). p.1176-1187.
- Ogbodu, R.O.
- Ogbodu, R.O., Omorogie, M.O., Unuabonah, E.I. and Babalola, J.O. (2015) Biosorption of Heavy Metals from Aqueous by *Parkia biglobosa* Biomass: Equilibrium, Kinetics, and Thermodynamic Studies. *Environmental Progress and Sustainable Energy*. 34 (6). p.1694-1704.
- Ogbodu, R.O. and Nyokong, T.
- Ogbodu, R.O. and Nyokong, T. (2015) Enhanced triplet state parameters for zinc carboxy phenoxy phthalocyanine following conjugation to ascorbic acid: Effects of adsorption on single walled carbon nanotubes. *Polyhedron*. 90 (2015). p.175-182.
- Ogbodu, R.O. and Nyokong, T. (2015) The effect of ascorbic acid on the photophysical properties and photodynamic therapy activities of zinc phthalocyanine-single walled carbon nanotube conjugate on MCF-7 cancer cells. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 151 (2015). p.174-183.
- Ogbodu, R.O., Ndhundhuma, I., Karsten, A. and Nyokong, T. (2015) Photodynamic therapy effect of zinc monoamino phthalocyanine--folic acid conjugate adsorbed on single walled carbon nanotubes on melanoma cells. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 137 (2015). p.1120-1125.
- Ogbodu, R.O., Limson, J., Prinsloo, E. and Nyokong, T. (2015) Photophysical properties and photodynamic therapy effect of zinc phthalocyanine-spermine-single walled carbon nanotube conjugate on MCF-7 breast cancer cell line. *Synthetic Metals*. 204 (2015). p.122-132.
- Ogbodu, R.O., Amuhaya, E.K., Mashazi, P. and Nyokong, T.
- Ogbodu, R.O., Amuhaya, E.K., Mashazi, P. and Nyokong, T. (2015) Photophysical properties of zinc phthalocyanine-uridine single walled carbon nanotube - conjugates. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 149 (2015). p.231-239.
- Olalekan, E.T. and Watkins, G.M.
- Olalekan, E.T., Adejoro, I.A., Van Brecht, B. and Watkins, G.M. (2015) Crystal structures, spectroscopic and theoretical study of novel Schiff bases of 2-(methylthiomethyl)anilines. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 139 (2015). p.385-295.
- Olomola, T.O., Klein, R. and Kaye, P.T.
- Olomola, T.O., Klein, R., Caira, M.R. and Kaye, P.T. (2015) Elucidating Latent Mechanistic Complexity in Competing Acid-Catalyzed Reactions of Salicylaldehyde-Derived Baylis-Hillman Adducts. *Journal of Organic Chemistry*. 2015. p.1-12.
- Oluwole, D.O. and Nyokong, T.
- Oluwole, D.O. and Nyokong, T. (2015) Physicochemical behavior of nano hybrids of mono and tetra substituted carboxyphenoxy phthalocyanine covalently linked to GSH-CdTe/CdS/ZnS quantum dots. *Polyhedron*. 87 (2015). p.8-16.
- Oluwole, D.O. and Nyokong, T. (2015) Comparative photophysical-chemical behavior of nanoconjugates of indium tetracarboxyphenoxy phthalocyanines covalently linked to CdTe/ZnSe/ZnO quantum dots. *Journal of Photochemistry and Photobiology A - Chemistry*. 312 (2015). p.34-44.
- Oluwole, D.O., Britton, J., Mashazi, P. and Nyokong, T.
- Oluwole, D.O., Britton, J., Mashazi, P. and Nyokong, T. (2015) Synthesis and photophysical properties of nanocomposites of aluminum tetrasulfonated phthalocyanine covalently linked to glutathione capped CdTe/CdS/ZnS quantum dots. *Synthetic Metals*. 205 (2015). p.212-221.
- Osifeko, O.L. and Nyokong, T.
- Osifeko, O.L., Durmus, M. and Nyokong, T. (2015) Physicochemical and photodynamic antimicrobial chemotherapy studies of mono- and tetra-pyridyloxy substituted indium(III) phthalocyanines. *Journal of Photochemistry and Photobiology A - Chemistry*. 301 (2015). p.47-54.
- Patnala, S.
- Patnala, S. and Kanfer, I. (2015) Medicinal use of Sceletium: Characterization of Phytochemical Components of Sceletium Plant Species using HPLC with UV and Electrospray Ionization - Tandem Mass Spectroscopy. *Journal of Pharmacy and Pharmaceutical Sciences*. 18 (4). p.414-423.
- Pule, B.O., Degni, S. and Torto, N.
- Pule, B.O., Degni, S. and Torto, N. (2015) Electrospun fibre colorimetric probe based on gold nanoparticles for on-site detection of 17 $\beta$ -estradiol associated with dairy farming effluents. *Water SA*. 41 (1). p.27-32.
- Sanusi, K. and Nyokong, T.
- Sanusi, K. and Nyokong, T. (2015) Enhanced optical limiting behaviour of indium phthalocyanine derivatives when in solution or embedded in poly(acrylic acid) or poly(methyl methacrylate) polymers. *Journal of Photochemistry and Photobiology A - Chemistry*. 303-304 (2015). p.44-52.
- Sanusi, K., Britton, J. and Nyokong, T.
- Zongo, S., Sanusi, K., Britton, J., Mthunzi, P., Nyokong, T., Maaza, M. and Sahraoui, B. (2015) Nonlinear optical properties of natural laccaic acid dye studied using Z-scan technique. *Optical Materials*. 46 (2015). p.270-275.
- Sanusi, K., Stone, J. and Nyokong, T.
- Sanusi, K., Stone, J. and Nyokong, T. (2015) Nonlinear optical behaviour of indium-phthalocyanine tethered to magnetite or silica nanoparticles. *New Journal of Chemistry*. 39 (2015). p.1665-1677.
- Sekhosana, K.E. and Nyokong, T.
- Sekhosana, K.E. and Nyokong, T. (2015) The nonlinear absorption in new lanthanide double decker pyridine-based phthalocyanines in solution and thin films. *Optical Materials*. 47 (2015). p.211-218.
- Sekhosana, K.E., Amuhaya, E.K. and Nyokong, T.
- Sekhosana, K.E., Amuhaya, E.K. and Nyokong, T. (2015) Nanosecond nonlinear optical limiting properties of new trivalent lanthanide phthalocyanines in solution and as thin films. *Polyhedron*. 85 (2015). p.347-354.
- Sekhosana, K.E., Amuhaya, E.K., Khene, S. and Nyokong, T.
- Sekhosana, K.E., Amuhaya, E.K., Khene, S. and Nyokong, T. (2015) Synthesis, photophysical and nonlinear optical behavior of neodymium based trisphthalocyanine. *Inorganica Chimica Acta*. 426 (2015). p.221-226.
- Siwe Noundou, X. and Krause, R.W.M.
- Siwe Noundou, X., Krause, R.W.M., van Vuuren, S.F., Ndinteh, D.T. and Olivier, D.K. (2015) Antibacterial effects of *Alchornea cordifolia* (Schumacher and Thonn.) Müll. Arg extracts and compounds on gastrointestinal, skin, respiratory and urinary tract pathogens. *Journal of Ethnopharmacology*. 2015. p.1-7.
- Taylor, J., Litwinski, C., Nyokong, T. and Antunes, E.M.
- Taylor, J., Litwinski, C., Nyokong, T. and Antunes, E.M. (2015) Synthesis and characterization of Na(Y,Gd)F<sub>4</sub> upconversion nanoparticles and an investigation of their effects on the photophysical properties of an unsubstituted tetrathiophenoxy phthalocyanine. *Journal of Nanoparticle Research*. 17 (2015). p.1-18.
- Taylor, J., Litwinski, C., Nyokong, T. and Antunes, E.M. (2015) Fluorescence Behaviour of an Aluminium Octacarboxy Phthalocyanine - NaYGdF<sub>4</sub>:Yb/Er Nanoparticle Conjugate. *Journal of Fluorescence*. 25 (2015). p.489-501.
- Torto, N.
- Koosaletse-Mswela, P., Przybylowicz, W.J., Cloete, K.J., Barnabas, A.D., Torto, N. and Mesjasz-Przybylowicz, J. (2015) Quantitative mapping of elemental distribution in leaves of the metallophytes *Helichrysum candolleianum*, *Blepharis aspera*, and *Blepharis diversispina* from Selkirk Cu--Ni mine, Botswana. *Nuclear Instruments and Methods in Physics Research Section B-Beam Interactions with Materials and Atoms*. 363 (2015). p.188-193.
- Torto, N., Chigome, S. and Mothibedi, K.
- Atlabachew, M., Torto, N., Chandravanshi, B.S., Redi-Abshiro, M., Chigome, S., Mothibedi, K. and Combrinck, S. (2015) A (-)-norephedrine-based molecularly imprinted polymer for the solid-phase extraction of psychoactive phenylpropylamino alkaloids from Khat (*Catha edulis* Vahl. Endl.) chewing leaves. *Biomedical Chromatography*. 2015. p.1-9.
- Tshangana, C. and Nyokong, T.
- Tshangana, C. and Nyokong, T. (2015) Improved triplet state parameters for indium octacarboxy phthalocyanines when conjugated to quantum dots and magnetite nanoparticles. *Journal of Molecular Structure*. 1089 (2015). p.161-169.

**Tshangana, C. and Nyokong, T.** (2015) Photophysical properties gallium octacarboxy phthalocyanines conjugated to CdSe@ZnS quantum dots. *Spectrochimica Acta Part A - Molecular and Biomolecular Spectroscopy*. 151 (2015). p.397-404.

**Tshangana, C. and Nyokong, T.** (2015) The Photophysical Properties of Multi-Functional Quantum Dots-Magnetic Nanoparticles-IndiumOcta-carboxyphthalocyanine Nanocomposite. *Journal of Fluorescence*. 25 (2015). p.199-210.

**Veale, C.G.L., Young, R.M. and Lobb, K.A.**

**Veale, C.G.L., Zoraghi, R., Young, R.M., Morrison, J.P., Pretheeban, M., Lobb, K.A., Reiner, N.E., Andersen, R.J. and Davies-Coleman, M.T.** (2015) Synthetic Analogues of the Marine Bisindole Deoxytopsentin: Potent Selective Inhibitors of MRSA Pyruvate Kinase. *Journal of Natural Products*. 78 (2015). p.355-362.

**Watkins, Z., Taylor, J., D'Souza, S., Britton, J. and Nyokong, T.**  
**Watkins, Z., Taylor, J., D'Souza, S., Britton, J. and Nyokong, T.** (2015) Fluorescence Behaviour and Singlet Oxygen Production of Aluminium Phthalocyanine in the Presence of Upconversion Nanoparticles. *Journal of Fluorescence*. 25 (2015). p.1417-1429.

**Young, R.M., Adendorff, M.R. and Davies-Coleman, M.T.**

**Young, R.M., Adendorff, M.R., Wright, A.D. and Davies-Coleman, M.T.** (2015) Antiplasmodial activity: The first proof of inhibition of heme crystallization by marine isonitriles. *European Journal of Medicinal Chemistry*. 93 (2015). p.373-380.

## Peer-reviewed Proceedings

**Krause, R.W.M.**

**Bambo, M.F., Moutloali, R.M. and Krause, R.W.M.** Polymer Nanocomposite of PVDF/Organoclay-Copper Nanoparticles hybrid: Synthesis and Characterization. *7th International Symposium on Macro- and Supramolecular Architectures and Materials*. Emperor's Palace Convention Centre, Johannesburg. South Africa. November 2014.

**Ngomane, N. and Krause, R.W.M.**

**Ngomane, N., Torto, N., Krause, R.W.M. and Vilakazi, S.** A colorimetric probe for dopamine based on fold nanoparticles-electrospun nanofibre composite. *7th International Symposium on Macro- and Supramolecular Architectures and Materials*. Emperor's Palace Convention Centre, Johannesburg. South Africa. November 2014.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Ayeni, A. and Watkins, G.M.**

**Ayeni, A. and Watkins, G.M.** Synthesis and Characterisation of some N-piperazyl Mannich bases and their Copper(II) Complexes. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Bankole, O.M. and Nyokong, T.**

**Bankole, O.M. and Nyokong, T.** 4-(2-Mercaptopyridine) substituted indium, zinc and metal-free phthalocyanines: nonlinear optical studies in solution and on polymer matrices. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Barde, M.I. and Watkins, G.M.**

**Barde, M.I., Watkins, G.M. and Beukes, D.R.** Copper(II) complex of quinoline tridentate Schiff base: Synthesis, characterization, molecular modelling and potential antimalarial activity. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Britton, J., Mkhize, C., Sekhosana, K.E. and Sanusi, K.**

**Britton, J., Mkhize, C., Sekhosana, K.E. and Sanusi, K.** The Utilization of Phthalocyanine Derivatives and Phthalocyanine-nanomaterial Conjugates as Optical Limiters. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Chitsa, V. and Watkins, G.M.**

**Chitsa, V. and Watkins, G.M.** Ambient Synthesis and Structural Characterisation of a Nickel Pyromellitate Metal Organic Framework: Potential Applications in Gas and Solvent Adsorption. *The 17th SACI*

*Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Hodgson, I.M. and Watkins, G.M.**

**Hodgson, I.M. and Watkins, G.M.** Thermo-geometry shifting: The coordination flexibility which Ni(II) provides within Metal Organic Frameworks containing the 1,2,4,5-benzenetetracarboxylic acid ligand. *The 17th South African Chemical Institute Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Hulushe, S.T. and Watkins, G.M.**

**Hulushe, S.T. and Watkins, G.M.** Solvent-Inclusion Behaviour of a Zirconium(IV) Dihydrogen benzene-1,2,4,5-tetracarboxylate Complex: A Study of Metal-Organic Frameworks. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Jesumoroti, O.J., Rafael, C.C.F., Klein, R. and Kaye, P.T.**

**Jesumoroti, O.J., Rafael, C.C.F., Klein, R. and Kaye, P.T.** Synthetic approaches to coumarin propionate derivatives with activity against HIV-1. *ISySyCat 2015. International Symposium on Synthesis and Catalysis*. University of Evora, Evora. Portugal. September 2015.

**Khanye, S.D.**

**Khanye, S.D.** A detour: Gold(I,III) compounds en route for malaria treatment. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Krause, R.W.M.**

**Daramola, L., Krause, R.W.M. and Marks, J.A.** A novel strategy to the synthesis of Glutathione -L-Cysteine co-capped CdTe core shell system and its antioxidants properties. *42nd Annual SACI Convention 2015*. Durban, Durban. South Africa. November 2015.

**Daramola, L., Krause, R.W.M. and Marks, J.A.** Core shell quantum dot systems. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Kubheka, G., Amuhaya, E.K., Mack, J. and Nyokong, T.**

**Kubheka, G., Amuhaya, E.K., Mack, J. and Nyokong, T.** Synthesis, photophysical properties of hexabromoanilinoBODIPY dye-gold nanorods conjugate for use in Antimicrobial Photodynamic Therapy and TDFT calculation of the aniline BODIPY dyes. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Lobb, K.A.**

**Musyoka, T.M., Kanzi, A.M., Lobb, K.A. and Tastan Bishop, O.** Profiling the structural elements and the energetics involved in the binding of small non-peptide compounds onto Plasmodium and human cysteine proteases using computational approaches. *ISMB/ECCB The 23rd annual International conference on Intelligent Systems for Molecular Biology (ISMB) and The 14th European Conference on Computational Biology (ECCB)*. Convention Center, Dublin. Ireland. July 2015.

**Musyoka, T.M., Kanzi, A.M., Lobb, K.A. and Tastan Bishop, O.**

Structural elements and the energetics involved in the binding of non-peptide compounds onto Plasmodium and human proteases. *3DSIG - ISMB/ECCB (Special interest group meeting)*. Convention Center, Dublin. Ireland. July 2015.

**Ryan, C.N., Lobb, K.A. and Tastan Bishop, O.** Nonribosomal peptide synthetase A-domain - substrate interaction investigation. *ISMB/ECCB & Student Symposium*. Convention Center, Dublin. Ireland. July 2015.

**Mokhawa, G., Lobb, K.A. and Tastan Bishop, O.** Homology Modelling of Trypanosoma Cathepsin B like Proteases as a Prelude to Inhibitor Docking Studies. *Biophysics in the Understanding, Diagnosis, and Treatment of Infectious Diseases*. Spier, Stellenbosch. South Africa. November 2015.

**Mack, J.**

**Mack, J.** Optical limiting and singlet oxygen generation properties of phosphorus triazetetrabenzcorroles (Invited Speaker). *Annual Research Symposium, Key Laboratory of Organosilicon Chemistry and Material Technology, Ministry of Education*. Hangzhou Normal University, Hangzhou. China. December 2015.

**Mack, J.** TD-DFT Calculations and MCD Spectroscopy: Analysis of the Structure-Property Relationships of Porphyrinoids (Invited Speaker). *The 3rd National Symposium on Porphyrin Chemistry*. Fuzhou University, Fuzhou. China. December 2015.

**Mack, J., Kubheka, G., Mkhize, C., Stone, J., Wildervanck, M. and Nyokong, T.**

**Mack, J., Kubheka, G., Mkhize, C., Stone, J., Wildervanck, M. and Nyokong, T.** TD-DFT Calculations and MCD Spectroscopy: Analysis of the Structure-Property Relationships of Porphyrinoids. *The 17th South*

*African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Mack, J., Mkhize, C., Kubheka, G., Britton, J. and Nyokong, T.**  
**Mack, J., Mkhize, C., Kubheka, G., Britton, J., Shen, Z. and Nyokong, T.** Optical limiting and singlet oxygen generation properties of phosphorus triazetetrabenzocorroles. *International Conference Organometallic and Coordination Chemistry Achievements and Challenges*. Volga River, Nizhny Novgorod. Russia. September 2015.

**Majumdar, P., Mack, J. and Nyokong, T.**  
**Majumdar, P., Zhao, J.F., Mack, J., Shen, Z. and Nyokong, T.** Ir(III) Complexes Showing NIR Absorption/Emission For Application As Photodynamic Materials. *The 17th South African Chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Makayonke, N.T. and Krause, R.W.M.**  
**Makayonke, N.T., Krause, R.W.M. and Pletschke, B.I.** Preparation and characterization of bioelectrodes for application in biofuel cells. *26th Annual Conference of the Catalysis Society of South Africa (CATSA) 2015*. Arabella Hotel and Spa, Kleinmond. South Africa. November 2015.

**Makoni, P.G., Krause, R.W.M. and Siwe Noundou, X.**  
**Makoni, P.G., Krause, R.W.M. and Siwe Noundou, X.** Characterisation and antimalarial activities of metabolites from leaves of *Anonidium mann*. *42nd Annual SACI Convention 2015*. Durban. South Africa. November 2015.

**Mashazi, P.**  
**Mashazi, P.** Electrochemical-based biosensors for the detection disease-biomarkers and other molecules of biomedical interest. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Mpiti, U.B. and Watkins, G.M.**  
**Mpiti, U.B. and Watkins, G.M.** A study of the spectral and magnetic properties of pyrazinc-N-oxide complexes of iron(II) towards the development of sensors. *The 17th South African Chemical Institute Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Msane, G.F. and Krause, R.W.M.**  
**Msane, G.F. and Krause, R.W.M.** TiO<sub>2</sub> materials for Dye-sensitised solar cells. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Murinzi, T.W. and Watkins, G.M.**  
**Murinzi, T.W. and Watkins, G.M.** Thermal and spectroscopic studies of Mo(VI) 1,3,5 benzenetricarboxylate Metal Organic Framework. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Mvango, S., Ndilowe, G.M. and Mashazi, P.**  
**Mvango, S., Ndilowe, G.M. and Mashazi, P.** Optimization studies of glutathione self-assembled monolayer for gamma-glutamyltransferase (GGT) detection. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Ngomane, N., Torto, N. and Krause, R.W.M.**  
**Ngomane, N., Torto, N., Vilakazi, S. and Krause, R.W.M.** Selective Colorimetric Detection of Dopamine. *ICCE - 23th Annual International Conference on Composites or Nano Engineering, ICCE*. Chengdu, Chengdu. China. July 2015.

**Nxele, S.R., Mashazi, P. and Nyokong, T.**  
**Nxele, S.R., Mashazi, P. and Nyokong, T.** Electrode construction using electrografting followed by click chemistry of alkynyl tetra-substituted Fe(II)Pthalocyanine for hydrazine detection. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Nyokong, T.**  
**Nyokong, T.** What it takes to succeed in research (Opening Address). *University of Fort Hare Research Day*. Fort Hare University, Green Auditorium, Alice. South Africa. January 2015.

**Nyokong, T.** Methods of Electrode Surface Modification Using Porphyrin type Molecules and Nanomaterials (Plenary Speaker). *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Oguntade, B.K. and Watkins, G.M.**  
**Oguntade, B.K. and Watkins, G.M.** Room Temperature Synthesis of Two Mixed-Metal Coordination. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Olasupo, I., Lobb, K.A., Klein, R. and Kaye, P.T.**  
**Olasupo, I., Adams, L.A., Lobb, K.A., Klein, R., Familoni, O.B. and**

**Kaye, P.T.** Esters of Salicylaldehyde *f*<sup>0</sup>-Amino-*f*<sup>0</sup>-Hydroxy and their Cinnamate Derivatives: Potential HIV Protease and Integrase Inhibitors. *The 17th South African Chemical Institute Inorganic Chemistry Conference 2015*. Rhodes University, Grahamstown. South Africa. June 2015.

**Oluwole, D.O., Tilbury, C.M. and Nyokong, T.**  
**Oluwole, D.O., Tilbury, C.M., Prinsloo, E., Limson, J. and Nyokong, T.** Photophysical and in vitro photodynamic activities of nanocomposites of zinc tetracarboxyphenoxy phthalocyanine immobilized onto glutathione QDs. *Upconversion Nanoparticle-BODIPY conjugates for NIR activated singlet oxygen generation*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Patnala, S.**  
**Kanfer, I., Patnala, S. and Nallagundla, S.** Dermatopharmacokinetic Assessment of Bioequivalence of Topical Acyclovir Creams using Tape Stripping. *2015 AAPS Annual Meeting and Exposition*. Orlando, Orlando. United States of America. October 2015.

**Kanfer, I., Patnala, S. and Reddy, N.H.S.** Comparative dissolution studies between innovator and selected immediate release oral dosage forms containing BCS Class III drugs, acyclovir, atenolol and ciprofloxacin hydrochloride tablets marketed in South Africa and India. *2015 AAPS Annual Meeting and Exposition*. Orlando, Orlando. United States of America. October 2015.

**Shumba, M., Nyoni, S. and Nyokong, T.**  
**Shumba, M., Nyoni, S. and Nyokong, T.** Electrode modification using nanocomposites of cobalt tetraaminophenoxypthalocyanine, reduced graphene and multi-walled carbon nanotubes. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Siwe Noundou, X., Chithambo, B., Kachlek, M.K. and Krause, R.W.M.**  
**Siwe Noundou, X., Chithambo, B., Bors, I., Zsuzsanna, H.K., Kachlek, M.K., Krause, R.W.M., van Vuuren, S.F. and Kovacs, M.** Erythrina caffra: A broad spectrum of biological activities. *42nd Annual SACI Convention 2015*. Durban, Durban. South Africa. November 2015.

**Sobola, A.O. and Watkins, G.M.**  
**Sobola, A.O., Watkins, G.M., Van Brecht, B. and Adejoro, I.A.** Synthesis, Structure and Theoretical Studies of Bis(pentacoordinated) i-O-[CuL<sub>2</sub>]<sub>2</sub>: Predicting Distortion towards Trigonal. *The 17th SACI Inorganic Chemistry Conference*. Rhodes University, Grahamstown. South Africa. June 2015.

**Stone, J., Mack, J. and Nyokong, T.**  
**Stone, J., Mack, J. and Nyokong, T.** Iodonated BODIPY Dyes and Their Potential as Photocatalysts. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Watkins, Z., Taylor, J., D'Souza, S., Britton, J. and Nyokong, T.**  
**Watkins, Z., Taylor, J., D'Souza, S., Britton, J. and Nyokong, T.** Fluorescence behaviour and singlet oxygen production of aluminium phthalocyanine in the presence of upconversion nanoparticles. *The 17th South African chemical Institute Inorganic Chemistry Conference (INORG2015)*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

**Wildervanck, M., Mack, J. and Nyokong, T.**  
**Wildervanck, M., Mack, J. and Nyokong, T.** Upconversion Nanoparticle-BODIPY conjugates for NIR activated singlet oxygen generation. *Fluorescence behaviour and singlet oxygen production of aluminium phthalocyanine in the presence of upconversion nanoparticles*. Rhodes University, Eden Grove Complex, Grahamstown. South Africa. June 2015.

## COMPUTER SCIENCE

The research activity in the Computer Science department was as again organized around the mutually supporting research groups listed below. With the exception of Bioinformatics, all groups are integrated in the Telkom Centre of Excellence in Distributed Multimedia (coe.ru.ac.za), a *triple helix* initiative that brings together Industry, Government and Academia to every participant's gain. The longevity of the Centre, as an external funded project, has been remarkable, having started in 1997.

## Convergence

(Professor Alfredo Terzoli and Dr Mosiuoa Tsietsi)

This group carries the core activity of the Telkom Centre of Excellence, focusing on the rich space at the convergence of legacy telecommunication systems and organizations and the Internet.

## Security and Networks

(Professor Barry Irwin)

The Security and Networks Research Group (SNRG) concentrates in the areas of Information Security and Computer Networks, both crucial in modern computing and telecommunications.

## Mobility

(Professor Hannah Thinyane)

This group focuses on mobile computing devices, whose explosive growth in number and power is changing dramatically the way in which we consume and produce information.

## ICT for Development

(Professor Alfredo Terzoli, Ingrid Sieborger, Dr Mosioua Tsietsi and Professor Hannah Thinyane)

This group concentrates on a long-term, multidisciplinary effort to introduce meaningful and sustainable ICT in poor areas of South Africa, rural and peri-urban.

## Distributed Audio Networks

(Professor Richard Foss)

The Audio Networks group deals primarily with the management and control protocol of audio streams to be used in large sound installations such as stadiums, studios and convention centres.

## Parallel and Distributed Computing

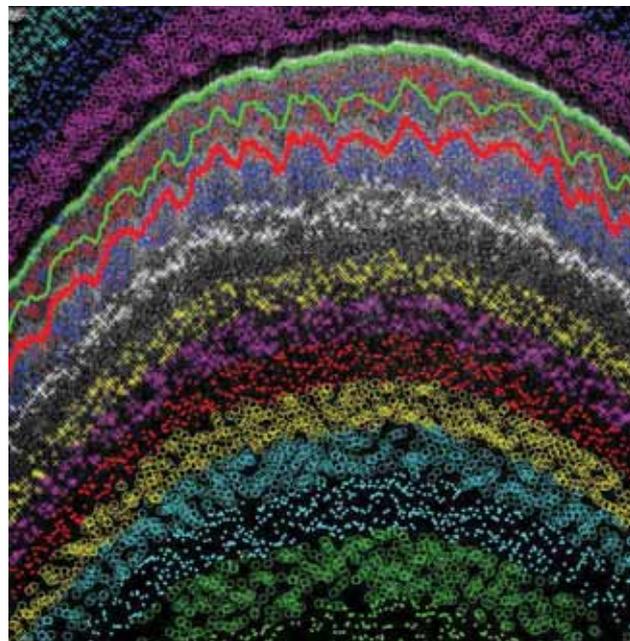
(Dr Karen Bradshaw and Professor George Wells)

This group focuses on the ever present and important theme of parallel and distributed computations.

## Bioinformatics

(Professor Philip Machanick)

Rhodes University Bioinformatics (RUBi) Research Group is an interdisciplinary group housed in the Department of Biochemistry, Microbiology and Biotechnology and focuses on collaborative research to produce computational outcomes of biological significance.



An Optical Coherence Tomography scan showing a single slice through a human finger. The region between the red and green lines is the papillary junction, where the epidermis attaches to the dermis and the fingerprint is formed. This fingerprint is reflected on the surface of the skin (thicker green line)

Photo: Luke Darlow

## Postgraduates / Graduations

In 2015 the department graduated:

- Fourteen (14) Honours students.
- Twelve (12) MSc (by coursework) students.
- Four (4) MSc (by research) students.
- Two (2) PhD students.

During 2015 the following students were in training:

- Twelve (12) Honours.
- Fifteen (15) MSc by research.
- Eight (8) MSc by coursework.
- Seventeen (17) PhD.

## Distinguished Visitors / International Visits

Distinguished visitors for 2015 are listed in the "Distinguished Visitors" section below. To them, one should add

representatives of the industry partners of the Computer Science department, both within the Telkom Centre of Excellence and outside. Also, there were representatives from the various academic entities the department collaborated with in 2015, such as Drs Aaron Ciaghi and Pietro Molini from the Bruno Kessler Foundation, Trento, Italy.

Staff and students of the Computer Science department routinely attend overseas conferences. The attendance might be complemented by a visit to an academic institution in the country where the conference takes place.

## Significant Research Aligned Events

As in previous years, the department received research grants from the partners of the Telkom Centre of Excellence in Distributed Multimedia (Telkom, Tellabs / Coriant and THRIP, a DTI programme to support industry-academia interaction). Funds were also received from the CSIR Defense Peace Safety and Security (DPSS) in support of work done in Information Security; the National Research Foundation (NRF) in the form of research grants associated to rated researchers; Ikamva National e-Skills Institute and Telkom Foundation in support of the work done by the Siyakhula Living Lab and associated entities. An NRF grant to investigate alternative GPU design was awarded at the end of 2015 for the period 2016-2018.

The Agricultural Research Service (ARS) USA-Africa Collaboration on Ecological Modelling, with partners in Germany also, continued

into its second year during 2015. So did the TheAppFactory project, a collaboration with the Fondazione Bruno Kessler di Trento, Italy, funded by the Italian Ministero degli Affari Esteri e della Cooperazione Internazionale.

The Siyakhula Living Lab (SLL) continued sitting in the Eastern Cape ICT Working Group, which oversees the public ICT activity in the Province. There, the SLL contributes the result of its research in the diffusion of ICT in poor schools and communities. The activity of the Working Group was dominated in 2015 by the preparation for the implementation of "SA Connect", the national broadband initiative to extend connectivity to all government facilities, among which schools represent the biggest portion.

As a result of winning the 2014 Vice-Chancellor's Distinguished Research Award, **Professor Barry Irwin** presented in 2015 a well-received lecture titled "*Data in the Dark: unobserved radiation on the Internet*".

Finally, the high Postgraduate students output in the year under review are an indicator of the good health of the research activity in the department.

### Professor George Wells

Head of Department

## Distinguished Visitors

### Riordan, D.

**Professor D Riordan.** Dalhousie University, Halifax, Canada. *Lecture.* March 2015.

### Villafiorita, A.

**Professor A Villafiorita.** Fondazione Bruno Kessler, Trento, Italy. The visit was part of the activity of TheAppFactory project (PGR00197), a collaboration with the Fondazione Bruno Kessler di Trento, Italia. *The project is funded by the Italian Ministero degli Affari Esteri e della Cooperazione Internazionale. The focus of the project is on improving software development techniques utilized by SMMEs in emerging market.* October 2015.

## International Visits

### Machanick, P.

**Machanick, P.** University of Michigan, Ann Arbor, United States of America. *Sabbatical trip.* 20 October - 21 November 2015.

### Terzoli, A.

**Terzoli, A.** University of Namibia (UNAM) and Namibia University of Science and Technology (NUST), Windhoek, Namibia. *Consulted on the building of a Software Development Centre at UNAM. Explored synergies with the Siyakhula Living Lab at NUST.* 17 November - 21 January 2015.

### Thinyane, H.

**Thinyane, H.** University of New South Wales, Canberra, Australia. *Explored possibility of collaboration with ADFA Campus, UNSW.* 1 October - 31 December 2015.

### Thinyane, H.

**Thinyane, H.** Universitat Politècnica de València, Valencia, Spain. *Explored collaboration with Computer Engineering Department.* 1 - 30 September 2015.

### Tsietsi, M.

**Tsietsi, M.** Fondazione Bruno Kessler, Trento, Italy. Investigate the most

optimal approach for integrating Ruby on Rails applications with standard Java applications inside an open source Java middleware platform. 10 - 21 December 2015.

### Wells, G.C.

**Wells, G.C.** ISC, Frankfurt, Germany. *ISC High Performance 2015 Conference.* 12 - 16 July 2015.

## Patents

### Foss, R.

**Foss, R.** (2015) *New Provisional Patent Application: Foss, Richard and DSP4YOU LTD for: A Method of Positioning an Output Element Within a Three-Dimensional Environment.* South Africa. 2015. No. 2015/0248.

**Foss, R.** (2015) *Provisional Patent Application: Foss, Richard and DSP4YOU LTD. for: Systems and Methods for Determining Loudspeaker Data.* South Africa. 2015. No. 2015/06256.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Bradshaw, K.

**Srinivas, S.C., Paphitis, S.A., Ncomanzi, A., Tandlich, R. and Bradshaw, K.** (2015) Service-Learning Based Environmental Health Promotion Activities For Pharmacy Students: Educating Youth On The Safe Disposal Of Medicines And Used Sharps. *Journal for New Generation Sciences.* 13 (3). p.182-196.

### Connan, J. and Staudemeyer, R.C.

**Connan, J. and Staudemeyer, R.C.** (2015) Viewpoint: Burning money with firewalls. *South African Computer Journal.* 56 (2015). p.165-167.

### Darlow, L.N. and Connan, J.

**Darlow, L.N. and Connan, J.** (2015) Study on internal to surface fingerprint correlation using optical coherence tomography and internal fingerprint

extraction. *Journal of Electronic Imaging*. 24 (6). p.1-11.

**Darlow, L.N., Connan, J. and Akhoury, S.S.** (2015) Internal fingerprint zone detection in optical coherence tomography fingertip scans. *Journal of Electronic Imaging*. 24 (2). p.1-14.

**Darlow, L.N. and Connan, J.** (2015) Efficient internal and surface fingerprint extraction and blending using optical coherence tomography. *Applied Optics*. 54 (31). p.9258-9268.

**Machanick, P.**

**Machanick, P.** (2015) Viewpoint: How General-Purpose can a GPU be? *South African Computer Journal*. 57 (2015). p.113-117.

**Thinyane, H., Sieborger, I. and Reynell, E.**

**Thinyane, H., Sieborger, I. and Reynell, E.** (2015) The potential of mobile phones for increasing public participation in local government in South Africa. *Journal for Transdisciplinary Research in Southern Africa*. 11 (3). p.241-259.

**Wrench, P. and Irwin, B.**

**Wrench, P. and Irwin, B.** (2015) A sandbox-based approach to the deobfuscation and dissection of PHP-based malware. *SAIEE Africa Research Journal (Transactions of the South African Institute of Electrical Engineers)*. 106 (2). p.46-63.

## Peer-reviewed Proceedings

**Carse, S.J. and Bradshaw, K.**

**Carse, S.J. and Bradshaw, K.** Towards an Extensible Generic Agent-Based Simulator for Mammals. *SAICSIT 2015*. Wallenberg Centre, Stellenbosch. South Africa. September 2015.

**Chindipha, S.D. and Irwin, B.**

**Chindipha, S.D. and Irwin, B.** Cyber Vulnerability Assessment: Case Study of Malawi and Tanzania. *African Cyber Citizenship Conference 2015*. The Boardwalk, Port Elizabeth. South Africa. November 2015.

**Connan, J.**

Jacobs, K., **Connan, J.**, Ghaziasgar, M. and Dodds, R. Visually Impaired Helper - A Navigation System for the Visually Impaired Using Kinect Sensors and Haptic Feedback. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Connan, J. and Darlow, L.N.**

**Connan, J., Darlow, L.N. and Akhoury, S.S.** Internal fingerprint acquisition from optical coherence tomography fingertip scans. *The Third International Conference on Digital Information Processing, Data Mining, and Wireless Communications*. Synergy, Moscow. Russia. February 2015.

**Darlow, L.N. and Connan, J.**

**Darlow, L.N., Akhoury, S.S. and Connan, J.** A Review of State-of-the-art Speckle Reduction Techniques for Optical Coherence Tomography Fingertip Scans. *Seventh International Conference on Machine Vision (ICMV 2014)*. Hotel Novotel Milano Nord Ca Granda, Milan. Italy. November 2014.

**Foss, R.**

**Foss, R. and Rouget, A.** Immersive Audio Content Creation Using Mobile Devices and Ethernet AVB. *AES 139th Convention*. Javits Convention Center, New York. United States of America. October 2015.

**Frieslaar, I. and Irwin, B.**

**Frieslaar, I. and Irwin, B.** An Investigation into the Signals Leakage from a Smartcard based on Different Runtime Code. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Gremu, C., Terzoli, A. and Tsietsi, M.**

**Gremu, C., Terzoli, A. and Tsietsi, M.** The Development of an e-Health System for Health Awareness Campaigns in Poor Areas. *IST-Africa 2015 Conference*. BICC Conference Centre, Lilongwe. Malawi. May 2015.

**Herbert, A. and Irwin, B.**

**Herbert, A. and Irwin, B.** DDoS Attack Mitigation Through Control of Inherent Charge Decay of Memory Implementations. *10th International Conference on Cyber Warfare and Security ICCWS-2015*. Kruger National Park, Letaba. South Africa. March 2015.

**Herbert, A. and Irwin, B.** FPGA Based Implementation of a High Performance Scalable NetFlow Filter. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Hutchinson, J. and Foss, R.**

**Hutchinson, J. and Foss, R.** An Ethernet AVB Effects Unit Implementation Using XMOS Architecture. *SATNAC 2015: Africa-The Future*

*Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Irwin, B.**

Swart, I., **Irwin, B.** and Grobler, M. Multi Sensor National Cyber Security Data Fusion. *10th International Conference on Cyber Warfare and Security*. Kruger National Park, Letaba. South Africa. March 2015.

Swart, I., **Irwin, B.** and Grobler, M. Data Centre vulnerabilities: physical, logical & trusted entity security. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Irwin, B. and Nkhumeleni, T.**

**Irwin, B. and Nkhumeleni, T.** Observed Correlations of Unsolicited Network Traffic Over Five Distinct IPv4 Netblocks. *10th International Conference on Cyber Warfare and Security*. Kruger National Park, Letaba. South Africa. March 2015.

**Irwin, B. and Thinyane, H.**

**Tandlich, R., Luyt, C.D., Irwin, B., Thinyane, H. and Kohly, N.** Proposed Paradigm and Potential Problems with Non-Governmental Information Sources About Microbial Drinking Water Quality Information in South Africa. *15th International Multidisciplinary Scientific GeoConference SGEM 2015: Ecology, Economics, Education and Legislation*. Albena Resort, Albena. Bulgaria. June 2015.

**Jordaan, J. and Bradshaw, K.**

**Jordaan, J. and Bradshaw, K.** The Current State of Digital Forensic Practitioners in South Africa: Examining the Qualifications, Certifications, Training and Experience of South African Digital Forensic Practitioners. *ISSA 2015*. 54 On Bath Hotel, Johannesburg. South Africa. August 2015.

**Lebusa, M.P., Thinyane, H. and Sieborger, I.**

**Lebusa, M.P., Thinyane, H. and Sieborger, I.** Mobile Visualisation Techniques for Large Datasets. *IST-Africa 2015 Conference*. Bingw International Conference Centre, Lilongwe. Malawi. May 2015.

**Marais, C. and Bradshaw, K.**

**Marais, C. and Bradshaw, K.** Problem-Solving ability of First Year CS Students: A Case Study and Intervention. *SACLA 2015: Renewing ICT teaching and learning: Building on the past to create new energies*. University of the Witwatersrand (WITS), Johannesburg. South Africa. July 2015.

**Ndwe, J.**

**Ndwe, J. and Dlodlo, N.** Relationship Between Affordance and Cultural Conventions in the Design of IVR Systems for Oral Users. *International Joint Conferences on Computer Information, and Systems Sciences, and Engineering (CISSE 2013)*. International Online E-Conference. December 2013.

**Pennefather, S. and Irwin, B.**

**Pennefather, S. and Irwin, B.** Design and Fabrication of a Low Cost Traffic Manipulation Hardware. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Reynell, E., Thinyane, H. and Sieborger, I.**

**Reynell, E., Thinyane, H. and Sieborger, I.** MobiSAM: Cross-platform Mobile Applications to Improve Service Delivery. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Shaw, B. and Foss, R.**

**Shaw, B. and Foss, R.** A Connection Management System to Enable the Wireless Transmission of MIDI Messages. *AES 139th Convention*. New York. USA. October 2015.

**Shaw, B. and Foss, R.** A Connection Management System to Enable the Wireless Transmission of MIDI Messages. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

**Terzoli, A.**

Suresh, N., Mbale, J., **Terzoli, A.** and Mufeti, T.K. Enhancing Cloud Connectivity Among NRENS in the SADC Region Through Novel Institution Cloud Infrastructure Framework. *2015 International Conference on Emerging Trends in Networks and Computer Communication (ETNCC)*. Windhoek Country Club Resort, Windhoek. Namibia. May 2015.

**Tsietsi, M., Honye, S. and Thinyane, H.**

**Tsietsi, M., Honye, S. and Thinyane, H.** Modelling the Exposure of Services within Next Generation Telecommunication Networks. *IST-AFRICA 2015 Conference*. BICC Conference Centre, Lilongwe. Malawi. May 2015.

**Van Der Schyff, K.**

**Van Der Schyff, K. and Staudemeyer, R.C.** Watching Windows: An Open Source approach using PowerShell. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

van Zyl, I., Rudman, L.L. and Irwin, B.

van Zyl, I., Rudman, L.L. and Irwin, B. A review of current DNS TTL practices. *SATNAC 2015: Africa-The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

Wrench, P. and Irwin, B.

Wrench, P. and Irwin, B. Towards a PHP Webshell Taxonomy using Deobfuscation-assisted Similarity Analysis. *ISSA 2015*. 54 on Bath Hotel, Johannesburg. South Africa. August 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Bradshaw, K.

Srinivas, S.C., Tandlich, R., Khamanga, S.M. and Bradshaw, K. The improved H2S strip test Kit, community engagement and water quality monitoring in South Africa. *The Community Engaged Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

Foss, R.

Foss, R. MIDI Control Distribution. *JUCE Summit*. London. United Kingdom. November 2015.

Motsumi, T.V., Tsietsi, M. and Terzoli, A.

Motsumi, T.V., Tsietsi, M. and Terzoli, A. Towards Integrating WebRTC with the IP Multimedia Subsystem. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

Motsumi, T.V., Tsietsi, M. and Terzoli, A. Leveraging WebRTC for Disruption: a WebRTC Solution for the IP Multimedia Subsystem.

*SATNAC 2015: Africa - The Future Communications Galaxy*. Arabella, Hermanus. South Africa. September 2015.

Sogunle, O.F., Tsietsi, M. and Terzoli, A.

Sogunle, O.F., Tsietsi, M. and Terzoli, A. Unified Data Consolidation for Rich Communication Services. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

Terzoli, A.

Terzoli, A. Bringing marginalized communities into the knowledge economy. *Eastern Cape ICT Summit 2015*. East London International Convention Centre, East London. South Africa. November 2015.

Terzoli, A. A model to facilitate the transition of marginalised communities to the Knowledge Society (on invitation by the State Information Technology Agency). *GovTech 2015*. Durban International Conference Centre, Durban. South Africa. October 2015.

Terzoli, A. What is Innovation? Keynote address. *3rd Annual Science Research Conference, University of Namibia*. University of Namibia Library, Windhoek. South Africa. November 2015.

Terzoli, A. and Gumbo, S.

Ciaghi, A., Terzoli, A., Villafiorita, A., Gumbo, S. and Gunzo, F.T. LRIT4AE: Bridging South African and European Competences for Living Labs. *19th International Education Association of South Africa (IEASA) conference*. Radisson Blu Hotel, Port Elizabeth. South Africa. August 2015.



Photo: Paul Greenway/3pphotography

# DRAMA

Creative Practice as Research, research for creative practice, research drawn from creative practice, and research about/on/for theatre - these are some ways to approach research within the Drama Department. Research and practice have always been connected; it is part of the way of developing theatre knowledge, skills and practice within the context of a university academic programme.



Creative practice and research are two indissolubly linked experiences in the theatre studies programme whether studying applied theatre, choreography, directing or performance. Extensive, diverse and applied research is required when preparing for a traditional or experimental production as a performer, choreographer, writer, designer or director. The same industrious effort is required if preparing to work with a drama class of school learners from GADRA or looking at environmental issues with young learners at Ntaba Maria Primary School. Informed theatre practice based on both experience and extensive research is a pre-requisite in order to consolidate and extend knowledge-bases, develop skills-acquisition, and apply innovative and effective interactive methods.

This form of research might not necessarily be framed within a traditional research framework but it is research nevertheless and permeates and informs creative practice and invites discovery in the field. A production requiring such research and featured at Rhodes University (RU) Student Orientation was *The Most Amazing Other Show* - a work demanding research into making and performing theatre but also involving research into the ethos of change and transformation at the heart of the academic programme. The theatre research centred on the arrival of new students to the university and the consequent fears, aspirations, prejudices, challenges and experiences they might encounter. The research brought together researchers, specialists and collaborators from the Drama Department, UBOM! Eastern Cape Drama, the Division of Student Affairs, and *heids* (Higher Education and Training, HIV/Aids Programme).

Immersing the audience in the action from *Astronautus Afrikanus*, created by guest director Mwenya B. Kabwe.  
Photo: Siya Masinda

Another production that required intensive research from performers and collaborators was the production of *Astronautus Afrikanus* a work devised by the cast under the direction of guest director Mwenya B. Kabwe (Witwatersrand University) in collaboration with Junior Lecturer, Lieketso Mohoto and resident designer, Illka Louw. This production explored the site of the theatre space interspersed with another source - the story of a colourful character in Zambian history named Edward Mukuka Nkoloso who in the mid 1960's was convinced that Zambia was going to beat the Russians and Americans to space. Inspired by this story the production offered an immersive theatre experience coupling an imaginative intervention with the story from Africa with an exploration and discovery of the nooks and crannies of the Rhodes Main Theatre!

Professor Andrew Buckland's professional practice in *Tobacco, and the Harmful Effects Thereof* presented at the Amsterdam Festival in the Netherlands brought together layers of research on theatre-making and performing. It was an original work drawing on the expertise and research of director, writer, scenographer and performer.

Professor Gary Gordon's venture into the corporate world for the *Pam Golding GoldClub* Corporate Event required research

into the site for performance - and movement research for a physical language appropriate for that site. The event was performed on the stage of the Guy Butler Theatre amongst banquet guests and in the loading zone adjacent to the stage.

Creative practice has also nurtured research and led to an impressive array of research outputs in the broad spectrum of drama/theatre/performing arts studies. In such research interventions, theatre practice informs and refines critical and conceptual thinking on areas of theatre research.

Professor Alex Sutherland's research with applied theatre at the Department of Correctional Services on performing masculinities amongst violent men is one such case study which was published in the *South African Theatre Journal*.

At the International Conference of Doctoral Studies in Theatre Practice and Theory in the Czech Republic, Dr Heike Gehring's interrogation of theatre practice as research drew from her own professional practice.

Professor Juanita Praeg presented at a Conference at the University of Cape Town (UCT) School of Dance in Cape Town, her critical reflections on selected local current case studies; she focused on original choreography from the Eastern Cape during the years 2014 and 2015.

The discourse surrounding theatre performance in South Africa is another space for theatre research.

Professor Anton Krueger viewed the practice of performing amaXhosa authenticity at the National Arts Festival of South Africa. This was a chapter published in *New Territories: Theatre, Drama, and Performance in Post-apartheid South Africa*.

2015 has seen renewed rigour in research inquiry, practice and outputs relating to the curriculum, the teaching/learning programme and research. Creative practice and research has meant participation in a number of national festivals and conferences: Cape Town, Grahamstown, Hilton, and Johannesburg. Travelling further afield has meant the impact of the department has been extended to countries such as Austria, Australia, Cambodia, Czech Republic, England, Greece, Hong Kong, India, the Netherlands, the United States of America and Uganda.

## Postgraduates / Graduations

The department has continued to develop research by senior students. Dr Sonja Smit - the first PhD in the Drama Department - for her Postdoctoral Fellowship researched South African theatre artists: Steven Cohen, Die Antwoord and Nicola Elliott.

Kamogelo Molobye presented a paper at *Confluences 8 Negotiating Contemporary Dance in Africa* - a conference at the UCT School of Dance. The paper grew from his research within the MA coursework programme on the incongruities of the dancing skin.

Another MA student, Ester Van Der Walt presented a paper at the same conference examining online presence for the South African dancer/choreographer.

The connections between practice and research as an investigative, rigorous and imaginative interplay between content

and form continued to nurture the Postgraduate curriculum. Four (4) Masters students specialising in choreography were involved in the movement and site research surrounding the performance for the *Pam Golding GoldClub Corporate Event*.

Performance and movement research took a number of the MA students specialising in choreography to festivals in Cape Town, Grahamstown, Johannesburg - and to the Bayimba International Festival in Kampala, Uganda.

Hanna Lax, MA graduate who specialised in directing brought her expertise to the direction of *The Most Amazing Other Show* for RU Student Orientation.

The high level of creative practice is evidenced by prestigious awards received by Postgraduate students. PhD student Rob Murray received the Standard Bank Fringe Ovation Award for Theatre at the 2015 National Arts Festival. MA student Lexi Meier received the Standard Bank Fringe Ovation Award for Dance. Ameera Najwa Mills was Winner of Best Student Production at the 2015 National Arts Festival - the production also received the award for Best Student Design.

Of the nine (9) Honours students, seven (7) achieved first class passes. Both MA students specialising in choreography graduated with distinctions; a third student specialising in contemporary performance also achieved a distinction for her degree.

A notable achievement was the PhD conferred upon staff member Heike Gehring. The thesis drew together academic scholarship with an impressive body of investigative professional practice: *Shifting identities: An exploration of the possibilities for a syncretic Afrikaans theatre by means of three case studies - Hex (2003), Lady Anne (2006), Ekspedisies (2007)*.

## Distinguished Visitors / International Visits

The greatest number of international guests outside the National Arts Festival arrived at the Drama Department for an Executive Committee meeting of OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. A significant part of the discussions was to assess the feasibility of establishing an OISTAT Centre in Africa. Acclaimed designers and scenographers came from Bulgaria, the Netherlands, Serbia, Taiwan, the United Kingdom and United States of America. Guests included delegates from University of Witwatersrand and University of Cape Town. Kurt Egelhof, National Coordinator of PANSAs (Performing Arts Network of South Africa) also attended the sessions. Theatre Technology workshops were given to the Postgraduate students.

There were a number of distinguished visitors opening the terrain of research possibilities surrounding the broad spectrum of theatre studies. The department benefitted from the scholarly input of Dr Ameh Akoh from Osun State University, Nigeria. Dr Akoh was conducting research on the Nigerian dramatist, Femi Osofisan and was brought to the department on an exchange project by the African Humanities Programme funded by the Carnegie Corporation. Dr Gill Williams from the Centre for Dance Research at Coventry University ran a series of linked seminars and experiential workshops concerning the practice and

professional training of disabled dance artists. Tania Canas - a PhD candidate at the University of Melbourne - offered a number of interactive and seminar sessions on an Australian perspective of practice as research with her work centred on refugee communities.

The department continued its association with Hong Kong/South African based theatre artist Acty Tang, who was on Leave Replacement for the first part of the year. Acty Tang works at the Schools of Dance and Drama at the Hong Kong Academy for Performing Arts - and on the arts programme at the Hong Kong University of Science and Technology. Athina Vahla - an acclaimed international choreographer based in Grahamstown - contributed to teaching, learning and choreographic development. Her current projects have taken her to the Greek National School of Dance in Athens, Greece, and the Northern School of Dance in Leeds, United Kingdom.

There were a number of specialists feeding into the development of the curriculum and extending pedagogical practice. Sara Matchett - voice specialist at UCT Drama Department - offered an intensive course for staff and Postgraduates on the voice work of Fitzmaurice. Sara Matchett is the only certified Fitzmaurice teacher in Africa and this methodology working with breath, voice and body is at the cutting edge of voice work worldwide.

Maakomele R. Manaka (Mak Manana) - an acclaimed SA performance poet - was undertaking his MA in Creative Writing at the ISEA and presented Creative Writing Workshops for the aspiring playwrights in the department. His approach was to create texts that are relevant to young people's living experiences. Nicola Elliott, RU Masters graduate and 2014 Young Artist Award Winner for Dance provided creative movement workshops for Postgraduate students: "exploring via movement the subjective experience of the present moment".

One of the artistic highlights was an interdisciplinary project that involved the Masters students specialising in choreography. The project examined connections between participating artists and the development of dynamic physical, visual and aural texts. RU alumni and previous Young Artist Award Winner for Dance PJ Sabbagha brought together his company members from the Forgotten Angle Theatre Collaborative with Charlotte Hug, a Composer-Performer and Visual Artist from Zurich, Switzerland. The interactive sessions with the MA students lead to a performance, *Siyaba: Found in Translations*.

## Significant Research Aligned Events

The research laboratories of the department centre on the associated projects: The First Physical Theatre Company and Ubom! Eastern Cape Drama Company. These companies provide innovation in relation to theatre languages forging fresh innovations in physicality, theatricality, collaborations and performance styles. They also offer inspiring excursions into education and training with the consequent nurturing and growth of local potential in the performing arts.

First Physical Theatre Company was invited to take *Caught*, a work choreographed by local artist Nomcebisi Moyikwa (also Honours graduate) to the Bayimba International Festival 2015 in Uganda. The work was also featured at the SANAA Arts



Professor Alex Sutherland running a workshop at Fort England Hospital as part of the Performing Change research project.  
Photo: Paul Greenway/3pphotography

Festival in Johannesburg and the National and Regional Schools Festivals in Grahamstown. Nomcebisi Moyikwa also created two works for the company on the fringe programme of the 2015 National Arts Festival. Both *Waltz* and *Inqindi* received prestigious Standard Bank Fringe Ovation Awards for Dance. *Waltz* was invited to the Cape Town Fringe 2015.

Ubom! Eastern Cape Drama Company presented the magical *Bleek Island Adventure Family Show* - a chance for primary school learners to colour the world with kindness. One of the company's commitments is the growth of theatre skills amongst local artists through workshops. The culmination of this workshop programme is the annual Makana Drama Development Festival. The overall winning production was subsidised to showcase on the fringe programme of the 2016 National Arts Festival. A further theatre delight was the Christmas Show with a South African heart: *Thando and the Magic Box* was performed at Fort England Hospital, Temba TB Hospital, Ethembeni Old Age Home, Brookshaw Old Age Home, Somerset Place Old Age, McKaizer Home and the Army Base.

**Professor Gary Gordon**  
Head of Department



Learning about student affairs at the Rhodes University Student Orientation: *The Most Amazing Other Show*.  
Photo: Mia van der Merwe

## Books/Chapters/Monographs

Krueger, A.R. and Reeve, Z.R.L.P.

Krueger, A.R. and Reeve, Z.R.L.P. (2015) Spectacles of Participation: Performing amaXhosa Authenticity at the National Arts Festival of South Africa. In: Homann, G. and Maufort, M. (eds.). *New Territories: Theatre, Drama, and Performance in Post-apartheid South Africa*. Frankfurt: Peter Lang. p.289-316. ISBN: 9782875742537.

## Concerts, Exhibitions, Performances, Workshops, Events

Buckland, A.F.

Buckland, A.F. Performer. Blue Orange. *Hilton Arts Festival*. Festival venue, Hilton. South Africa. 16 - 20 September 2015.

Buckland, A.F. Director/Creator. One Heart Two Tigers. *Phare Ponleu Selpak*. Phare venue, Battambang. Cambodia. 14 November - 6 December 2015.

Buckland, A.F. Performer/Creator. Tobacco, and the Harmful Effects Thereof. *Amsterdam Festival*. Festival venue, Amsterdam. Netherlands. 6 - 20 September 2015.

Buckland, A.F. Performer/Creator. Tobacco, and the Harmful Effects Thereof. *Baxter Theatre Centre*. Flipside, Cape Town. South Africa. 21 May - 13 June 2015.

Buckland, A.F. Performer/Creator. Crazy in Love. *Market Theatre*. Barney Simon, Johannesburg. South Africa. 23 March - 12 April 2015.

Buckland, A.F. Performer. Blue Orange. *Baxter Theatre Centre*. Golden Arrow Studio, Cape Town. South Africa. 12 January - 21 March 2015.

Buckland, J.M.

Buckland, J.M. Producer. The Amazing Other Show. *RU Orientation*. Rhodes Theatre, Grahamstown. South Africa. 9 - 13 February 2015.

Buckland, J.M. Producer. Thando and the Magic Box. *Christmas Show*. Rhodes Box Theatre, Grahamstown. South Africa. 3 December - 8 April 2015.

Buckland, J.M. Producer. Unzip Your Knowledge. *RU Learning*. Rhodes Theatre, Grahamstown. South Africa. 13 - 24 April 2015.

Buckland, J.M. producer. Bleak Island Adventure. *Family Show*. Rhodes Theatre, Grahamstown. South Africa. 23 - 28 March 2015.

Buckland, J.M. Producer. Makana Drama Development Festival. *Community Performance Competition*. Rhodes Theatre, Grahamstown. South Africa. 11 November 2015.

Buckland, J.M. Producer. The Most Amazing Other Show. *RU Orientation*. RU Theatre, Grahamstown. South Africa. 9 - 13 February 2015.

Dlangalala, S.S.

Dlangalala, S.S. Choreographer and Performer. Douche. *South African Schools Festival of Arts*. Guy Butler Theatre, Grahamstown. South Africa. 8 May 2015.

Gabang, M.M.

Gabang, M.M. Performer. Inqindi. *National Arts Festival Fringe*. PJ Olivier, Grahamstown. South Africa. 2 - 7 July 2015.

Gabang, M.M. Performer. Caught. *Bayimba International Arts Festival*. Kampala Arts Centre, Kampala. Uganda. 18 - 20 September 2015.

Gabang, M.M. Performer. Caught. *SANAA Africa Arts Festival*. Moyo Zoo Lake, Johannesburg. South Africa. 21 May 2015.

Gordon, G.E.

Gordon, G.E. Producer. Waltz. *National Arts festival Fringe programme*. Centenary Hall, Grahamstown. South Africa. 7 - 11 July 2015.

Gordon, G.E. Choreographer and Performer Gold. *Pam Golding GoldClub Corporate Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

Krueger, A.R.

Krueger, A.R. Writer of Play. Mediocrity. *Various venues*. Queensland. Australia. 1 July - 1 September 2015.

Lax, H.

Lax, H. Director. The Most Amazing Other Show. *RU Orientation*. RU Theatre, Grahamstown. South Africa. 9 - 13 February 2015.

Meier, A.R.

Meier, A.R. Performer. Gold. *Pam Golding Corporate Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

Molobye, K.

Molobye, K. Performer. Gold. *Pam Golding Corporate Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

Moyikwa, N.

Moyikwa, N. Performer. Gold. *Pam Golding Corporate Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

Moyikwa, N. Choreographer and Performer. Caught. *South African Schools Festival of Arts*. Guy Butler Festival, Grahamstown. South Africa. 8 May 2015.

Moyikwa, N. Choreographer and Performer. Caught. *Bayimba International Festival*. Kampala Arts Centre, Kampala. Uganda. 18 - 20 September 2015.

Moyikwa, N. Choreographer and Performer. Caught. *SANAA Africa Arts Festival*. Moyo Zoo Lake, Johannesburg. South Africa. 21 May 2015.

Moyikwa, N. Choreographer and Performer. Inqindi. *National Arts Festival Fringe Programme*. PJ Olivier, Grahamstown. South Africa. 2 - 7 July 2015.

Moyikwa, N. Choreographer. Waltz. *Cape Town Fringe Festival*. Jubilee Hall, Cape Town. South Africa. 24 - 27 September 2015.

Moyikwa, N. Choreographer. Waltz. *National Arts Festival Fringe Programme*. Centenary Hall, Grahamstown. South Africa. 7 - 1 July 2015.

Praeg, J.

Praeg, J. Producer. *inqindi*. PJ Olivier, Grahamstown. South Africa. 2 - 7 July 2015.

Praeg, J. Performer. Gold. *Pam Golding Gold Club Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

Van Der Walt, E.

Van Der Walt, E. Performer. Gold. *Pam Golding Corporate Event*. Guy Butler Theatre, Grahamstown. South Africa. 20 April 2015.

## Creative Writing

Krueger, A.R.

Krueger, A.R. (2015) 'Uncle Noodle'. In: *New Coin*. Grahamstown: ISEA.

Krueger, A.R. (2015) Garbage. In: *Aerodrome Magazine*. Cape Town: Aerodrome Magazine.

Krueger, A.R. (2015) Cartoon. In: Coetzer, T. (ed.). *Ons Klyntij* 119. Cape Town: Ons Klyntij.

## Distinguished Visitors

Akoh, A.D.

Dr AD Akoh. Osun State University, Nigeria, Osogbo, Nigeria. *Postdoctoral Fellow and currently conducting research on the Nigerian dramatist, Femi Osofisan*. January 2015.

Canas, T.

Ms T Canas. University of Melbourne, Melbourne, Australia. *Seminar for MA programme - Practice as research and refugee communities: An Australian perspective*. Guest Lecturer/Tania Canas. July 2015.

Chang, D.

Mr D Chang. Vice President, OISTAT, Taipei, Taiwan. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* April 2015.

Crowley, S.

Crowley, S. UK Commissioner for OISTAT Education committee, United Kingdom. Head of Design, Royal Welsh College of Music and Drama. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* April 2015.

Egelhof, K.

Mr K Egelhof. National Coordinator, PANSAs (Performing Arts Network of South Africa). Durban, South Africa. *Attendance at OISTAT proceedings in the Drama Department, Rhodes University.* April 2015.

Elliott, N.

Ms N Elliott. Independent Artist; University of Cape Town, Cape Town, South Africa. *Somatic practice and choreography; current Young Artist Award Winner for Dance.* September 2015.

Hug, C.

Ms C Hug. Zurich independent artist: Composer/Performer/Visual Artist, Zurich, Switzerland. *Interdisciplinary Artist in Residence working collaboratively with MA choreography students.* March 2015.

Janssen, L.

Professor L Janssen. OISTAT President, Amsterdam, Netherlands. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* April 2015.

Kabwe, M.

Ms M Kabwe. Witwatersrand University, Johannesburg, South Africa. *Director of Theatre Production.* April 2015.

Matchett, S.

Ms S Matchett. University of Cape Town, Cape Town, South Africa. *Fitzmaurice Voicework workshops: Intensive interactive sessions with drama staff and postgraduate students.* May 2015.

Ramsaur, M.

Professor M Ramsaur. Stanford University, Stanford, USA. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* April 2015.



In the blue of the Ocean from *Bleek Island Adventure Family Show*.  
Photo: Mia van der Merwe

Raytchinova, M.

Professor M Raytchinova. National Academy of Art, Sofia, Bulgaria. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* April 2015.

Sabbagha, P.J.

Mr PJ Sabbagha. Forgotten Angle Theatre Collaborative, Johannesburg, South Africa. *Interdisciplinary Artists (theatre company) in Residence working collaboratively with MA choreography students. Previous Young Artist Award Winner for Dance at National Arts Festival.* March 2015.

Tang, A.

Mr A Tang. Hong Kong Academy for Performing Arts, Hong Kong, Hong Kong. *Replacement Lecturer; lecturer at Hong Kong Academy for Performing Arts; previous Young Artist Award Winner for Dance.* January 2015.

Williams, G.

Dr G Williams. Coventry University, Coventry, United Kingdom. *Interactive workshops and seminar with postgraduate students: Disability and Dance.* September 2015.

Zekovic, M.

Professor M Zekovic. University of Novi Sad, Novi Sad, Serbia. *OISTAT: International Organisation of Scenographers, Theatre Architects, and Technicians. Executive Committee meeting for the first time in Africa at Drama Department, Rhodes University. Assess feasibility of establishing OISTAT Centre in Africa with EC meetings and Theatre Technology workshops.* January 2015.

## International Visits

Gehring, H.

Gehring, H. University of Olomouc, Olomouc, Czech Republic. *Course undertaken in department of Nederlandstik.* 20 - 25 November 2015.

Gehring, H. University of Vienna: Department of Dutch, Vienna, Austria. *Course Undertaken.* 26 November - 5 December 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Smit, S.

Smit, S. (2015) The Search for a More Desirable Origin: Steven Cohen's *The Cradle of Humankind* (2011). *Liminalities: A Journal of Performance Studies.* 11 (5). p.1-15.

Smit, S. (2015) Enter the Imperceptible: Reading Die Antwoord. *Cogent Arts and Humanities.* 2 (1). p.1-9.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Krueger, A.R.

Krueger, A.R. (2015) Book review: *The politics of interweaving performance cultures: beyond postcolonialism*, edited by Erika Fischer-Lichte, Torsten Jost and Saskya Iris Jain, New York and Abingdon, Routledge, 2014, 308 pp., £75.27 (hardback), ISBN: 978-0-41572-268-1. *South African Theatre Journal.* 28 (1). p.94-99.

Krueger, A.R. (2015) Whose Voice is it Anyway? Implications of Free Writing. *Current Writing: Text and Reception in Southern Africa.* 27 (2). p.103-110.

Mohoto, L.

Mohoto, L. (2015) Theatrical strategies of storytelling, bearing witness and testimony for another: an examination of two South African plays. *South African Theatre Journal.* 28 (1). p.78-87.

Sutherland, A.E.

Sutherland, A.E. (2015) Book review: *Applied theatre research. Radical departures*, edited by Peter O'Connor and Michael Anderson, London, Bloomsbury Methuen Drama, 2015, xi + 293pp., \$30 (paperback), ISBN 978-1-47250-961-1. *South African Theatre Journal.* 2015 (2015). p.1-3.



Guest artist Acty Tang as a falling angel at the Pam Golding GoldClub Corporate Event curated by Professor Gary Gordon.  
Photo: Pam Golding & Associates

Sutherland, A.E. (2015) Disturbing masculinity: gender, performance and 'violent' men. *South African Theatre Journal*. 28 (1). p.68-77.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Gehring, H.

Gehring, H. Shifting identities: Afrikaans theatre in a multicultural society. *IFTR 2015*. University of Hyderabad, Hyderabad. India. July 2015.

Gehring, H. Lady Anne: A case study in practice as research. *International Conference of Doctoral Studies in Theatre Practice and Theory: Current Challenges in Doctoral Theatre Research*. Theatre Faculty Janáček Academy of Music and Performing Arts Brno, Brno. Czech Republic. November 2015.

Krueger, A.R.

Krueger, A.R. Performing for Others. *Performance Philosophy: What can Performance Philosophy Do?* The University of Chicago, School of the Art Institute of Chicago and the Chicago Cultural Center, Chicago. United States of America. April 2015.

Krueger, A.R. Performing Religion. *IFTR (International Federation of Theatre Research)*. University of Hyderabad, Hyderabad. India. July 2015.

Mohoto, L.

Mkhize, N., Magoqwana, B. and Mohoto, L. Critiquing Intellectualism: Towards Building an Intellectualising Political Culture. *Intellectuals and Popular Struggles. A Colloquium of Engaged Scholarship*. University of Cape Town, Cape Town. South Africa. September 2015.

Moloby, K.

Moloby, K. Now you see me, now you don't: exploring the incongruity of dancing skin. *Confluences 8 Negotiating Contemporary Dance in Africa*. University of Cape Town (UCT) School of Dance, Cape Town. South Africa. July 2015.

Praeg, J.

Praeg, J. Body of Questions: The Political promise of Choreography? Reflections on current South African choreographic case studies from the Eastern Cape: 2014 - 2015. *Confluences 8 Negotiating Contemporary dance in Africa*. University of Cape Town (UCT) School of Dance, Cape Town. South Africa. July 2015.

Praeg, J. Body of Questions: The Political promise of Choreography? Reflections on current South African choreographic case studies from the Eastern Cape 2014 - 2015. *Confluences 8 Negotiating Contemporary dance in Africa*. University of Cape Town (UCT) School of Dance, Cape Town. South Africa. July 2015.

Smit, S.

Smit, S. Thinking Through dance: An analysis of Nicola Elliott's *Bruising* (2014). *Confluences \* negotiating Contemporary dance in Africa*. University of Cape Town (UCT) School of Dance, Cape Town. South Africa. July 2015.

Sutherland, A.E.

Sutherland, A.E. Theatre, performance and the total institution: The performance of hope in a forensic psychiatric hospital in South Africa. *International Applied Theatre Symposium: Performance of Hope*. University of Auckland, Auckland. South Africa. November 2015.

Van Der Walt, E.

Van Der Walt, E. Leaving a Digital Footprint: The importance of an online presence for South African dance and choreography. *Confluences 8 Negotiating Contemporary dance in Africa*. University of Cape Town (UCT) School of Dance, Cape Town. South Africa. July 2015.

# ECONOMICS AND ECONOMIC HISTORY

The Department of Economics and Economic History was again productive in terms of research and publications in a variety of media. The Department saw two (2) monographs, three (3) book chapters, two (2) working papers, twenty-four (24) biweekly column articles in *Business Day*, one (1) published paper in peer reviewed non-subsidy earning journals, thirteen (13) publications in peer reviewed subsidy-earning journals and one (1) in a peer-reviewed conference proceedings.

Academic staff and students also presented twelve (12) papers at academic conferences. The papers, presentations and journal articles represented a wide range of economic topics and showcased the expertise available in the Department. The research covered financial markets, household economics, cultural economics, environmental and agricultural economics, sports economics and institutional economics.

## Postgraduates / Graduations

The number of postgraduates registered for Masters degrees and doctoral degrees increased in 2015, which again was largely the result of the Environmental and Natural Economics Research Focus Area (ENREFA). This included two (2) PhD and three (3) Masters students. There were also a number of other students registered for Masters studies by thesis in other areas of Economics. The Masters in Financial Markets degree by coursework and thesis continued to attract students to the programme. The Department had a successful year concerning Master's degree graduates. Two (2) students graduated with Master of Economics degrees, and ten (10) Master of Commerce degrees were awarded, four (4) of which were degree by thesis, and six (6) under the Masters in Financial Markets.

## Distinguished Visitors / International Visits

Ms Niki Cattaneo attended the Seventh BRICS Academic Forum in Moscow, Russia in May 2015. She presented a paper on trade policy, the WTO and productive transformation strategies in a context of regional and bilateral trade agreements: perspectives from South Africa.

Mr Ferdi Botha travelled to Antwerp in The Netherlands, where he is registered for his doctoral studies.

Professor Jen Snowball presented at paper (Festival fringe production and the long tail) at the 13th International Conference on Arts and Cultural Management organised by the International Association of Arts and Cultural Management (AIMAC), held in Aix-Marseille, France in June 2015.

In 2015, Rhodes was also part of a successful bid (along with Nelson Mandela Metropolitan University and University of Fort Hare) to host the South African Cultural Observatory (SACO), funded by the Department of Arts and Culture. SACO is a research organisation focused on the cultural and creative industries in South Africa. Their work includes providing a platform for the collection of data on the cultural sector, research on the measurement and impact of the cultural industries and the production of policy-relevant research. Professor Snowball is the SACO Director of Research.



The 2015 Economics Postgraduate Conference committee with Professor Gavin Fraser (HOD) (2nd left)  
Photo: Professor Jen Snowball

## Significant Research Aligned Events

The ENREFA programme has expanded with another two (2) PhD students registering who have come with interesting research topics. The PhD topics are both institutional economics topics. The one relates to the governance and finance of marine protected areas in Mozambique and the other influence of institutional changes and climate variability on sorghum production in the lowland districts of Lesotho.

The Department was more successful than the previous year in terms of peer reviewed publications and other popular publications. Professor Gavin Keeton was again the front-runner in terms of a biweekly newspaper article.

**Professor Gavin Fraser**  
Head of Department



A field trip to the Baviaanskloof Nature Reserve for a study of aquatic ecosystem goods and services.

Photo: Professor Gavin Fraser

## Books/Chapters/Monographs

- Botha, F.**  
**Botha, F.** (2015) *Suffering and Good Society Analysis Across African Countries*. In: Anderson, R.E. (ed.). *World Suffering and Quality of Life*. New York: Springer. p.217-232. ISBN: 9789401796699.
- Faure, A.P.**  
**Faure, A.P.** (2015) *Financial Institutions: An Introduction*. London: Bookboon.com Limited. ISBN: 9788740308860.
- Faure, A.P.** (2015) *Interest Rates: An Introduction*. London: Bookboon.com Limited. ISBN: 9788740308617.
- Faure, A.P.** (2015) *Fundamentals of the Financial System*. In: Van Wyk, K., Botha, Z. and Goodspeed, I. (eds.). *Understanding South African Financial Markets*. 5th Ed. Pretoria: Van Schaik Publishers. p.1-35. ISBN: 9780627033056.
- Faure, A.P.** (2015) *The Foreign Exchange Market*. In: Van Wyk, K., Botha, Z. and Goodspeed, I. (eds.). *Understanding South African Financial Markets*. 5th Ed. Pretoria: Van Schaik Publishers. p.425-457. ISBN: 9780627033056.

## Other Publications

- Botha, F., Scott, B.W. and Snowball, J.D.**  
**Botha, F., Scott, B.W. and Snowball, J.D.** (2015) Art investment as a portfolio diversification strategy in South Africa. ERSA Working Paper. In: van Heerden, J. (ed.). *Economic Research Southern Africa Working Paper Series No. 537*. South Africa: ERSA.
- Cattaneo, N., Bizziwick, M. and Fryer, D.**  
**Cattaneo, N., Bizziwick, M. and Fryer, D.** (2015) The BRICS Contingent Reserve Arrangement and its Position in the Emerging Global Financial Architecture. In: *Policy Insights*. Johannesburg: South African Institute of International Affairs.
- Faure, A.P.**  
**Faure, A.P.** (2015) Open Letter to MPs & Document. In: *Open Letter to MPs & Document*.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

- Fraser, G.**  
**Rantlo, A.M. and Fraser, G.** (2015) Does Access to Electricity Reduce Biomass Use for Energy Purposes in Peddie? *Asian Journal of Science and Technology* 6 (3). p.1161-1166.

## Peer Reviewed Subsidy-Earning Journal Research Publications

- Biziwick, M., Cattaneo, N. and Fryer, D.**  
**Biziwick, M., Cattaneo, N. and Fryer, D.** (2015) The rationale for and potential role of the BRICS Contingent Reserve Arrangement. *South African journal of international affairs*. 22 (3). p.307-324.
- Botha, F.**  
**Botha, F.** (2015) The Good African Society Index. *Social Indicators Research*. 2015. p.1-21.
- Botha, F. and Snowball, J.D.**  
**Botha, F. and Snowball, J.D.** (2015) Subjective Well-Being In Africa. *African Review of Economics and Finance (The Journal of the African Centre for Economics and Finance)*. 7 (1). p.1-5.
- Collins, A. and Snowball, J.D.**  
**Collins, A. and Snowball, J.D.** (2015) Transformation, job creation and subsidies to creative industries: the case of South Africa's film and television sector. *International Journal of Cultural Policy*. 21 (1). p.41-59.
- Collins, A., Fraser, G. and Snowball, J.D.**  
**Collins, A., Fraser, G. and Snowball, J.D.** (2015) Issues and concerns in developing regulated markets for endangered species products: the case of rhinoceros horns. *Cambridge Journal of Economics*. 2015. p.1-18.
- Daly, C.A.K., Fraser, G. and Snowball, J.D.**  
**Daly, C.A.K., Fraser, G. and Snowball, J.D.** (2015) Willingness to pay for marine-based tourism in the Ponta do Ouro Partial Marine Reserve, Mozambique. *African Journal of Marine Science*. 37 (1). p.33-40.
- Ismail, Z. and Khembo, P.**  
**Ismail, Z. and Khembo, P.** (2015) Determinants of energy poverty in South Africa. *Journal of Energy in Southern Africa*. 26 (3). p.66-78.
- King, D. and Botha, F.**  
**King, D. and Botha, F.** (2015) Modelling stock return volatility dynamics in selected African markets. *Economic Modelling*. 45 (2015). p.50-73.
- Marire, J.**  
**Marire, J.** (2015) The Political Economy of South African Trout Fisheries. *Journal of Economic Issues*. 47 (1). p.49-70.
- Pahlow, M.**  
**Pahlow, M., van Oel, P.R., Mekonnen, M.M. and Hoekstra, A.Y.** (2015) Increasing pressure on freshwater resources due to terrestrial feed ingredients for aquaculture production. *Science of the Total Environment*. 536 (2015). p.847-857.
- Mekonnen, M.M., Pahlow, M., Aldaya, M.M., Zarate, E. and Hoekstra, A.Y.** (2015) Sustainability, Efficiency and Equitability of Water Consumption

and Pollution in Latin America and the Caribbean. *Sustainability*. 7 (2015). p.2086-2112.

Arteaga, L., Pahlow, M. and Oschlies, A. (2015) Global monthly sea surface nitrate fields estimated from remotely sensed sea surface temperature, chlorophyll, and modelled mixed layer depth. *Geophysical Research Letters*. 42 (2015). p.1130-1138.

Pahlow, M., Snowball, J.D. and Fraser, G.

Pahlow, M., Snowball, J.D. and Fraser, G. (2015) Water footprint assessment to inform water management and policy making in South Africa. *Water SA*. 41 (3). p.300-313.

## Peer-reviewed Proceedings

Botha, F. and Snowball, J.D.

Botha, F., Snowball, J.D., De Klerk, V.A. and Radloff, S. Determinants of Student Satisfaction with Campus Residence Life at a South African University. *XI International Society for Quality-of-Life Studies (ISQOLS) Conference*. Ca' Foscari University of Venice, Venice. Italy. November 2012.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Botha, F.

Botha, F., Booysen, F. and Wouters, E. Satisfaction with family life in South Africa: The role of socioeconomic status. *5th Conference for the Microeconomic Analysis of South African Data*. Salt Rock Hotel, Durban. South Africa. November 2015.

Botha, F., Wouters, E. and Booysen, F. Family functioning in South African families: The role of socioeconomic status. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Brock, K., Fraser, G. and Botha, F.

Brock, K., Fraser, G. and Botha, F. Sport consumption patterns in the Eastern Cape: Cricket spectators as sporting univores or omnivores. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Cattaneo, N.

Cattaneo, N. Trade policy, the WTO and productive transformation strategies in a context of regional and bilateral trade agreements: perspectives from South Africa. *Seventh BRICS Academic Forum*. Four Seasons Hotel, Moscow. Russia. May 2015.

Chinzara, Z. and Hoveni, J.

Chinzara, Z. and Hoveni, J. Capital flows volatility and macroeconomic fluctuations. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Dube, N., Fraser, G. and Snowball, J.

Dube, N., Fraser, G. and Snowball, J. Perceptions on the natural environment from a rural African perspective: A case of *Cylindropuntia fulgida* var. *fulgida* in Gwanda district, Zimbabwe. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Fraser, G., Botha, F. and Fraser, R.

Fraser, G., Botha, F. and Fraser, R. Determinants of success of golfers on the Sunshine Tour: a multi-equation analysis. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Humphrey, L. and Fraser, G.

Humphrey, L. and Fraser, G. 2010 World Cup stadia investment: Does the post-event usage justify the expenditure? *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Marire, J., Snowball, J. and Fraser, G.

Marire, J., Snowball, J. and Fraser, G. Making rules to live by: Was the proposed regulatory regime for invasive species reasonable? Perceptions of the South African trout industry. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Scarr, L.

Scarr, L. The rising role of biotechnology: A new wave of innovation. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Scarr, L. Is public investment in R&D valuable? The ARC PPRI Weeds Research Division. *Biennial Conference of the Economic Society of South Africa*. University of Cape Town, Cape Town. South Africa. September 2015.

Snowball, J.

Snowball, J. Festival fringe production and the long tail. *13th International Conference on Arts and Cultural Management organised by the International Association of Arts and Cultural Management (AIMAC)*. Aix-Marseille, France, June 2015.

# EDUCATION

This year was a year of celebration for the Faculty of Education, with two (2) very important anniversaries to celebrate. This our 10th year of involvement in the Education Faculty PhD weeks (an initiative co-founded by the Department) and also the 25th year of the Murray and Roberts Chair of Environmental Education.

In addition to these anniversaries, the Education Faculty can also celebrate the award of two (2) research Chairs: a *SARCHI Chair in Global Change and Social Learning Systems*, to which Professor Heila Lotz-Sisitka will be appointed in the new year, as well as the extension of the *South African Numeracy Chair*, in which Professor Mellony Graven is appointed.

## Celebrating 10 Years of PhD weeks!

Rhodes University Faculty of Education celebrated ten (10) years of running PhD weeks in April 2015. The Faculty welcomed twenty-five (25) Swedish PhDs and their professor for the 2015 PhD week. For this PhD we had a total of ninety-five (95) PhD scholars and their lecturers in attendance with thirty-one (31) of these being lecturers and PhD scholars from Sweden's Umea University's School of Education.

*"This is our biggest PhD week, and our first where we have had an international group of PhD's joining us from another continent,"* said Professor Heila Lotz-Sisitka, co-ordinator of the programme. *"This facilitates international exchange of knowledge in education, and develops understanding of how research and education systems work in diverse contexts,"* she said.

*"The PhD weeks have proven to be an important research support intervention, as they provide an opportunity for our PhD scholars to 'test their ideas' in a scholarly community, and to bring issues into debate during the PhD journey,"* added Professor Lotz-Sisitka.

The Education Faculty PhD weeks were established in 2004 to strengthen PhD scholarship, and to create scholarly communities where PhD level research issues can be debated and discussed. These range from issues related to social theory and methodology or how to work with research questions in relation to context, evidence, quality and analysis.

The PhD weeks are highly appreciated by the PhD scholars.

One insight that has emerged over the ten (10) years, is that PhDs that attend PhD weeks regularly are also likely to complete their PhDs in good time. Through interaction with other PhD scholars, the possibility exists to develop wider perspective on Postgraduate research which is helpful if one goes on to providing research supervision after the PhD.

*"As the PhD offerings in the Faculty expanded after introduction of the Higher Education Studies PhD programme, the PhD weeks also expanded, and one can regularly expect up to 60 PhD scholars from the Faculty gathering at any one PhD week,"* said Professor Lotz-Sisitka.

*"Normally the scholars meet in two groups - one co-ordinated by Professor Sioux McKenna for CHERTL and one co-ordinated by Professor Lotz-Sisitka and colleagues from the Department of Education. As both groups are in the Faculty of Education, they also seek to provide shared sessions,"* she added.



Founders and Chairs associated with the Murray & Roberts Chair of Environmental Education meet at the 25th Anniversary Event of the Chair.  
*Front row (from left to right):* Donique de Figuero (Murray & Roberts), Emeritus Professor Pat Irwin (Founder of the Murray & Roberts Chair of Environmental Education), Dr Eureka Rosenberg (first incumbent to the Chair, 1990-2000).  
*Back row (from left to right):* Professor Heila Lotz-Sisitka (Murray & Roberts Chair of Environmental Education, 2000-2015), Mr Andrew Skudder (Murray & Roberts), Professor Rob O'Donoghue (Director, Environmental Learning Research Centre).  
 Photo: Kim Ward

The thematic focus of the March 2015 PhD Week was *"Education, the public good and transformative practices: Understanding our research as a contribution nationally and globally"*.

## 25 years of Environmental Education Research at Rhodes

2015 also saw the celebration of twenty-five (25) years of the Murray and Roberts Chair of Environmental Education at Rhodes University. Established in 1990 with the foresight of Professor Pat Irwin, the Chair, first held by Dr Eureka Rosenberg between 1990-2000 (nee Janse van Rensburg) and by Professor Heila Lotz-Sisitka (2000-2015), has established a leading international research centre in environmental education research on the African continent.



The Chair has produced over two hundred (200) Masters graduates and thirty (30) PhD graduates in environmental education, making this one of the largest Postgraduate programmes of its kind in Africa, and indeed internationally. Masters and PhD graduates of the Chair are providing high level leadership in environmental education, education and environmental sectors and programmes nationally, and internationally. The Chair's impact can be seen in both national and international scientific system development processes, and in national, regional and international policy and practice.

“One of the strongest contributions of the Chair has been its contribution to education system development in South Africa”, says Professor Lotz-Sisitka. The Chair's work led directly to the inclusion of an environmental focus in the South African national curriculum, leading to more than twelve (12) million learners being able to engage with these issues annually. The Chair also pioneered the first ever environmental education qualifications in South Africa in the post 1994 period, and led research for the first ever Environmental Sector Skills Plan for South Africa.

The Chair actively supported expansion of environmental education research and praxis in the southern African Development Community, establishing and leading an international certificate course for environmental educators from across the region for more than fifteen (15) years.

The Chair also edits the accredited *Southern African Journal of Environmental Education* and has played various international scholarly leadership roles including scientific Chair of the World Environmental Education Congress when it was held in South Africa in 2007.

The applied, reflexive research and education system building work of the Chair continues, and one of the new projects launched at the 25th Celebration of the Chair is a national Green Skills research programme which seeks to address a re-active approach to skills development planning for green economy and society in the post-schooling sector.

The most important contribution of the Chair, however, is the model of scholarship that it has developed, supporting scholarly communities to conduct engaged research and develop social and expansive learning practices across the southern African region and more widely.

The 25th Celebration of the Chair also saw the launch of a new Routledge book produced out of the Chair's research entitled “*Critical Realism, Environmental Learning and Social-Ecological Change*” which was co-edited by Professor Lotz-Sisitka and Dr Leigh Price a Postdoctoral Research Fellow associated with the Chair. It also saw the announcement of a new SARChI Chair to complement this Chair and a new International Social Science Council research programme focussing on Transformative Learning in Times of Climate Change.

**Dr Bruce Brown**  
Head of Department



Sirkka Tshiningayamwe (left) and Zintle Songqwaru (right), PhD scholars, lecturers and co-ordinators of the Murray & Roberts Chair research and development programme entitled ‘*Fundisa for Change*’, which works with teacher education institutions across the country to integrate environment and sustainability concepts into teacher education programmes.

Photo: Kim Ward

## Books/Chapters/Monographs

**Botha, L.J.**

Botha, L.J. (2015) *Language Learning, Power, Race and Identity: White Men, Black Language*. UK, USA, Canada: Multilingual Matters. ISBN: 9781783093854.

**Chikunda, C.**

Chikunda, C. (2015) Surfacing Contradictions Around Gender Responsive Curriculum Practices In Science Teacher Education In Zimbabwe. In: Nuernberg, A.H., Boéssio, C., Rückriem, G., Giest, H., Libâneo, J.C., Hammes, L.J., Bittner, M. and Vegetti, S. (eds.) *Cultural-Historical Approach: Educational Research in Different Contexts*. Brazil: EDIPUCRS Editora Universitária da PUCRS. p.61-72. ISBN: 9788539706211.

**Gunzo, F.T.**

Dalvit, L. and Gunzo, F.T. (2015) One Year On: A Longitudinal Case Study of Computer and Mobile Phone Use Among Rural South African Youth. In: Steyn, J. and Van Greunen, D. (eds.) *ICTs for Inclusive Communities in Developing Societies*. Newcastle on Thynne: Cambridge Scholars Publishing. p.226-237. ISBN: 9781443880817.

**Jawahar, K.**

Jawahar, K. and Mukeredzi, T.G.M. (2015) Conceptual integration in science: A solar system in an atom. In: Hugo, W. (ed.) *Conceptual Integration and Educational Analysis*. Cape Town: HSRC Press. p.90-104. ISBN: 9780796925091.

**Lotz-Sisitka, H.**

Lotz-Sisitka, H. (ed.) (2015) *Mainstreaming Environment and Sustainability in African Universities: Stories of Change*. Grahamstown: Rhodes University. ISBN: 9870868106137.

**Lotz-Sisitka, H. and Agbedahin, A.V.**

Lotz-Sisitka, H., Agbedahin, A.V. and Hlengwa, A. (2015) Seeding Change: Developing a change-oriented model for professional learning and ESD in higher education institutions in Africa. In: Lotz-Sisitka, H.B., Hlengwa, A., Ward, M., Salami, A., Ogbuigwe, A., Pradhan, M., Neeser, M. and Lauriks, S. (eds.) *Mainstreaming Environment and Sustainability in African Universities: Stories of Change*. Grahamstown: Rhodes University. p.16-26. ISBN: 9870868106137.

**Mukwambo, M., Ngcoza, K. and Chikunda, C.**

Mukwambo, M., Ngcoza, K. and Chikunda, C. (2015) How researchers define and measure variables. In: Okeke, C. and van Wyk, M. (eds.) *Educational Research: An African approach*. South Africa: Oxford University Press. p.186-206. ISBN: 9780190409135.

Mukwambo, M., Ngcoza, K. and Chikunda, C. (2015) Africanisation, Ubuntu and IKS: A learner-centred approach. In: Okeke, C., van Wyk,

M. and Phasha, N. (eds.). *Schooling, society and inclusive education: An Afrocentric perspective*. South Africa: Oxford University Press. p.65-80. ISBN: 9780199077809.

## Concerts, Exhibitions, Performances, Workshops, Events

Lotz-Sisitka, H.

Lotz-Sisitka, H. Keynote Address. Formal and Informal Education and ESD in South Africa. *National Consultation on the global action programme on education for sustainable development*. DEA Conference Centre, Pretoria. South Africa. 24 August 2015.

Lotz-Sisitka, H. Workshop attendance. Workshop to enhance articulation in education and training. *SAQA Research workshop*. SAQA House, Hatfield, Pretoria. South Africa. 29 September 2015.

Lotz-Sisitka, H. Keynote Address. Reflections from the World Conference on ESD (GA) and World Environment Forum (Education 2030): Some pointers for mapping the road ahead for ESD with EFA. *National Consultation on the global action programme on education for sustainable development*. DEA Conference Centre, Pretoria. South Africa. 24 August 2015.

Lotz-Sisitka, H., O'Donoghue, R.B., Vallabh, P., Schudel, I.J., Pesanayi, T.V., Weaver, K.N., Bell, C., Gumede, S.M., Ramsarup, P., Songqwaru, N.Z. and Agbedahin, A.V.

Lotz-Sisitka, H., O'Donoghue, R.B., Vallabh, P., Schudel, I.J., Pesanayi, T.V., Weaver, K.N., Bell, C., Gumede, S.M., Ramsarup, P., Songqwaru, N.Z. and Agbedahin, A.V. Seminar Chair. Seminar focusing on transformative environmental learning and the common good: past, present and future. *25th Anniversary: Murray and Roberts Chair of Environmental Education*. Rhodes University, Grahamstown. South Africa. 14 - 16 October 2015.

Lotz-Sisitka, H., Weaver, K.N. and Pesanayi, T.V.

Lotz-Sisitka, H., Weaver, K.N. and Pesanayi, T.V. Workshop presentation. Generative Research and expansive learning in an agricultural learning network in Nkonkobe municipal area. *Community Engagement Learning Symposium*. CSD Rhodes University, Grahamstown. South Africa. 4 - 6 May 2015.

O'Donoghue, R.B.

O'Donoghue, R.B. Seminar Attendance. Seminar on Environmental Education Research. *Seminar on Environmental Education Research*. SECS, Bertioga. Brazil. 13 - 17 July 2015.

O'Donoghue, R.B. and Mukute, M. Workshop attendance. Transformative Knowledge Workshop. *ISSC Transformative Knowledge and World Social Science Forum*. UKZN, Durban. South Africa. 10 - 13 September 2015.

Pesanayi, T.V.

Pesanayi, T.V. Plenary Discussion Chair. Plenary Discussion Chair. *National Consultation on the global action programme on education for sustainable development*. DEA Conference Centre, Pretoria. South Africa. 24 August 2015.

Songqwaru, N.Z.

Songqwaru, N.Z. Presentation. Presentation of ESD actions in Teacher Education. *National Consultation on the global action programme on education for sustainable development*. DEA Conference Centre, Pretoria. South Africa. 24 August 2015.

## Distinguished Visitors

Lotz-Sisitka, H.

H Lotz-Sisitka. University Helsinki, Helsinki, Finland. *Public Lectures: Professor Yrjö Engeström Annalisa Sannino*. July 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Chikunda, C.

Chikunda, C. and Chikunda, P. (2015) Capability Approach: Potential for Transformative Education Research on Gender and Culture in Zimbabwe. *Cultural and Pedagogical Inquiry*. 7 (2). p.10-26.

Graven, M. and Stott, D.A.

Graven, M. and Stott, D.A. (2015) Families Enjoying Maths Together? Organising a Family Maths Event. *Learning and Teaching Mathematics*. 19 (2015). p.3-6.

Robertson, S.A. and Graven, M.

Robertson, S.A. and Graven, M. (2015) Exploring South African mathematics teachers' experiences of learner migration. *Intercultural Education*. 26 (4). p.278-295.

Wilmot, P.D. and Irwin, P.R.

Wilmot, P.D. and Irwin, P.R. (2015) South African Teachers' Perceptions of the Primary Geography Curriculum: An Exploratory Study. *RIGEO (Review of International Geographical Education Online)*. 5 (2). p.137-150.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Brown, B.

Brown, B. (2015) The relational nature of rational numbers. *Pythagoras*. 36 (1). p.1-8.

Brown, B., Wilmot, P.D. and Paton-Ash, M.

Brown, B., Wilmot, P.D. and Paton-Ash, M. (2015) Stories of change: The case of a foundation phase teacher professional development programme. *South African Journal of Childhood Education*. 5 (1). p.191-209.

Grant, C.

Grant, C. (2015) Invoking learner voice and developing leadership: what matters to learners? *Journal of Education* 61 (2015). p.93-113.

Graven, M.

Heyd-Metzuyanin, E. and Graven, M. (2015) Between people-pleasing and mathematizing: South African learners' struggle for numeracy. *Educational Studies in Mathematics*. 2015. p.1-25.

Graven, M. (2015) Going back in order to go forward - recovery of mathematical foundations for intermediate phase improvement. *Journal of Educational Studies*. 2015 (Special Issue). p.1-10.

Haipinge, E.

Baxen, J. and Haipinge, E. (2015) School experiences of HIV-positive secondary school learners on ARV treatment in Namibia. *International Journal of Educational Development*. 41 (2015). p.237-244.

Lotz-Sisitka, H.

Lotz-Sisitka, H., Wals, A.E.J., Kronlid, D. and McGarry, D. (2015) Transformative, transgressive social learning: rethinking higher education pedagogy in times of systemic global dysfunction. *Current Opinion in Environmental Sustainability*. 16 (2015). p.73-80.

Ngcoza, K.

Ngcoza, K. and Southwood, S. (2015) Professional development networks: From transmission to co-construction. *Perspectives in education*. 33 (1). p.1-11.

Paton-Ash, M. and Wilmot, P.D.

Paton-Ash, M. and Wilmot, P.D. (2015) Issues and challenges facing school libraries in selected primary schools in Gauteng Province, South Africa. *South African Journal of Education*. 35 (1). p.1-10.

Sibanda, J.

Sibanda, J. and Begede, M.P. (2015) Extent of ESL teachers' access to, utilisation and production of research. *South African Journal of Education*. 35 (3). p.1-12.

Stott, D.

Stott, D. (2015) Using fluency activities in after school maths clubs to enhance learner performance in the primary grades. *Journal of Educational Studies*. 2015 (Special Issue). p.132-148.

Van Der Mescht, C.

Van Der Mescht, C. (2015) 'One day I will pick up a snake, wanting to read it': Becoming a successful reader in a rural environment. *Reading and Writing*. 6 (1). p.1-6.

Wilmot, P.D.

Nyambe, J. and Wilmot, P.D. (2015) Voices of divergence: resistance, contestation and the shaping of Namibia's teacher education, 1990 - 2010. *Perspectives in education*. 33 (1). p.76-90.

Wilmot, P.D. and Dube, C.

Wilmot, P.D. and Dube, C. (2015) Opening a window onto school geography in selected public secondary schools in the Eastern Cape Province. *South African Geographical Journal*. 2015 (2015). p.1-14.

Wilmot, P.D. and Dube, C. (2015) School geography in South Africa after two decades of democracy: teachers' experiences of curriculum change. *Geography*. 100 (2). p.94-101.

Wilmot, P.D. and Schafer, J.

Wilmot, P.D. and Schafer, J. (2015) Visual arts and the teaching of the mathematical concepts of shape and space in Grade R classrooms. *South African Journal of Childhood Education*. 5 (1). p.62-84.

## Peer-reviewed Proceedings

Asheela, E.N., Ngcoza, K. and Enghono, A.M.

Asheela, E.N., Ngcoza, K. and Enghono, A.M. An indigenous practice of making a traditional beverage called *Oshikundu* as a strategy to enhance conceptual understanding. *2015 Inaugural Conference of the African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Graven, M., Stott, D.A., Mofu, Z. and Ndongeni, S.

Graven, M., Stott, D.A., Mofu, Z. and Ndongeni, S. Identifying Stages of Numeracy Proficiency to Enable Remediation of Foundational Knowledge Using the Learning Framework in Number. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Hebe, G.

Hebe, G. Investigating teachers' Reflections on teaching through lesson study. *AMESA 2015: Deepening the quality of mathematics teaching and learning*. University of Limpopo, Polokwane. South Africa. July 2015.

Hebe, G. Investigating teachers' reflections on teaching through lesson study. *21st Annual National Congress of the Association for Mathematics Education of South Africa*. University of Limpopo, Polokwane. South Africa. June 2015.

Hewana, D.R. and Graven, M.

Hewana, D.R. and Graven, M. Exploring Frameworks for Identifying Learning Dispositions: The Story of Saki. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Kangela, N.C. and Schafer, M.

Kangela, N.C. and Schafer, M. The Relevance of Mathematics Teacher Identity in the Context of a Mathematics Teacher Development Programme (MTEP). *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Knott-Craig, I.D. and Van Der Mescht, H.

Knott-Craig, I.D. and Van Der Mescht, H. Exploring the development of learner leadership using the Cultural Historical Activity Theory as a framework: Could learners learn to serve? *8th International Conference of Education, Research and Innovation*. Seville, Seville. Spain. November 2015.

Kuhlane, Z. and Ngcoza, K.

Kuhlane, Z. and Ngcoza, K. Elicitation and integration of prior-everyday knowledge during teaching and learning of acids and bases: From context to content. *2015 Inaugural Conference of the African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Mukwambo, M. and Ngcoza, K.

Mukwambo, M. and Ngcoza, K. Sustaining the environment: A Zambeian indigenous knowledge perspective and its implications in Science teaching. *2015 Inaugural Conference of the African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Narayanan, A.E. and Schafer, M.

Narayanan, A.E. and Schafer, M. Jim's Dream: In Search of a Professional Identity of a Beginner Mathematics Teacher. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Ngcoza, K.

Ngcoza, K. Mobilizing an indigenous practice of making a traditional beer called *iqhilika* as a strategy to enhance student engagement and sense making of science concepts. *2015 Inaugural Conference of the*

*African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Mukwambo, M., Ngcoza, K. and Overing, L. Exploring how the BEd (Hons) Science Elective students make meaning of the use of concepts used to teach pressure through the inclusion of indigenous knowledge: A Namibian perspective. *2015 Inaugural Conference of the African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Nikodemus, K.S. and Ngcoza, K.

Nikodemus, K.S. and Ngcoza, K. Making sense of concepts on rates of reactions through the inclusion of indigenous practice of making *oshikundu*: A Namibian perspective. *2015 Inaugural Conference of the African Association for the Study of Indigenous Knowledge Systems*. GZ-Event Square, Windhoek. Namibia. October 2015.

Pausigere, P.

Pausigere, P. On the Sociology of Knowledge and Ensuring Learning For All in South African Primary Maths Education. *AMESA 2015*. University of Limpopo, Polokwane. South Africa. July 2015.

Robertson, S.A.

Robertson, S.A. Seeking Synergy: The Need for Research at the Literacy/Numeracy Interface. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Schafer, M.

Haywood, T. and Schafer, M. An Exploration of Learners' Learning of Mathematics by Using Selected (VITALmaths) Video Clips: A Case Study. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Chikiwa, C. and Schafer, M. Teacher Code Switching in a Multilingual Mathematics Classroom: A Focus on Precision, Consistency and Transparency. *AMESA 2015*. University of Limpopo, Polokwane. South Africa. July 2015.

Sibanda, L. and Graven, M.

Sibanda, L. and Graven, M. Applying a Linguistic Complexity Checklist and Formulae to the 2013 Grade 4 Mathematics National Assessments. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

Stott, D.A.

Stott, D.A. Confronting, Navigating and Resolving Research Tensions. *23rd Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE 2015)*. Centro de Conferências das TDM, prolongamento da Av. Kim Il Sung, Maputo. Mozambique. January 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Bell, C.

Bell, C. Working towards the blue future we want for our oceans: Reviewing the upskilling opportunities in marine and coastal institutions of South Africa. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.

Burt, J.C., Lotz-Sisitka, H. and Du Toit, D.R.

Burt, J.C., Lotz-Sisitka, H., Du Toit, D.R. and Palmer, T. The River Speaks: Supporting the voice of civil society action in water practices South Africa. *ALARA 9th Action Learning Action Research and 13th Participatory Action Research World Congress 2015*. St. George Hotel and Conference Centre, Centurion, Pretoria. South Africa. November 2015.

Chisoni, E.M.

Chisoni, E.M. Consumption-production sustainability challenge and the search for sustainable development solutions in Energy Efficient Cook Stoves in Malawi. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.

- Chitsiga, C. and Schudel, I.J.  
**Chitsiga, C. and Schudel, I.J.** An examination of the nexus of environmental knowledge and environmental learning processes. *3rd SAERA conference*. University of Free State, Bloemfontein. South Africa. October 2015.
- Florian, E.F.**  
 Florian, E.F. Integrating Climate Change Education into Senior Secondary English Language Teaching: A Namibian Case Study of Collaborative Lesson Planning. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Grant, C.**  
**Grant, C.** Distributed leadership: yet another fad? *3rd annual CPD conference for educators*. Safari Hotel, Windhoek. Namibia. April 2015.
- Grant, C.** Invoking learner voice and developing leadership: what matters to learners? *Edu-lead Conference*. North West University, Potchefstroom. South Africa. April 2015.
- Gumede, S.M.**  
**Gumede, S.M.** Global Action Programme on Education for Sustainable Development PartnerNetworks: The role of EEASA as a Key Partner. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Gunzo, F.T.**  
 Ciaghi, A., Terzoli, A., Villafiorita, A., Gumbo, S. and Gunzo, F.T. LRIT4AE: Bridging South African and European Competences for Living Labs. *19th International Education Association of South Africa (IEASA) conference*. Radisson Blu, Port Elizabeth. South Africa. August 2015.
- Lotz-Sisitka, H.**  
**Lotz-Sisitka, H.** 'Making peace with the Earth': Thinking with laminated totalities, absence and transgressive learning. *ECER 2015*. Corvinus University of Budapest, Budapest. Hungary. September 2015.
- Lotz-Sisitka, H.** Plenary session: GRESA Conference. *GRESA WEEC Conference*. Uppsala University, Gothenburg. Sweden. June 2015.
- Lotz-Sisitka, H.** Transdisciplinarity and learning. *PECS 2015 Conference*. Spier Estate, Stellenbosch. South Africa. November 2015.
- Lotz-Sisitka, H.** UNESCO. *World Education Forum 2015*. Songda Convensia, Incheon. Republic of Korea. May 2015.
- Lotz-Sisitka, H.** SARUA Curriculum review team. *SARUA Programme for Climate Change Capacity Development*. Spier Conference Centre, Stellenbosch. South Africa. June 2015.
- Madiba, M.S.**  
**Madiba, M.S.** Would the establishment of Community Learning Centres improve the participation of newcomers in the ESD community of practice? *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Mandikonza, C.**  
**Mandikonza, C.** Professional Development Courses can be a Vehicle to changed practice in Environmental Education, Education for Sustainable Development and Global Citizenship Education. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Masuku Van Damme, L.S.**  
**Masuku Van Damme, L.S.** Keynote address: Applying Socio-Cultural Theory in a Community Learning Context. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Masuku Van Damme, L.S. and Lotz-Sisitka, H.**  
**Masuku Van Damme, L.S. and Lotz-Sisitka, H.** Transforming education and society: looking back and looking forward. Applying social cultural theory to illuminate intergenerational learning generated by community members in rural settings through animal tracking and cattleherding. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Nkhahle, L.J.**  
**Nkhahle, L.J.** The Practice architectures of teaching Biodiversity. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Nkhahle, L.J.** The ecologies of teaching Biodiversity practices. *South Africa International Conference on Education 2015*. Manhattan Hotel, Pretoria. South Africa. September 2015.
- Nkhahle, L.J., Lotz-Sisitka, H. and Songqwaru, N.Z.**  
**Nkhahle, L.J., Lotz-Sisitka, H. and Songqwaru, N.Z.** The practice architectures of teaching Biodiversity. *3rd SAERA Conference*. University of Free State, Bloemfontein. South Africa. October 2015.
- Olvitt, L.L.**  
**Olvitt, L.L.** Power behind the words: an argument to attend to environmental discourses in environmental education programmes. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Olvitt, L.L.** From a plan to a publication; Writing papers for the EEASA Journal. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Pesanayi, T.V.**  
**Pesanayi, T.V.** SADC REEP: Generating and lifting the common good in southern African living spaces through community-engaged cross-border expansive learning research. *International Education Association of South Africa IEASA 19th Annual Conference 19-21 August 2015*. Radisson Blu Hotel, Port Elizabeth. South Africa. August 2015.
- Pesanayi, T.V.** Stepping Up to Sustainability in 6 SADC countries. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.
- Rosenberg, E., Gumede, S.M. and Ramsarup, P.**  
**Rosenberg, E., Gumede, S.M. and Ramsarup, P.** Panel presentation: Green Skills Research: A Methodological Review. *3rd SAERA Conference*. University of Free State, Bloemfontein. South Africa. October 2015.
- Schafer, M.**  
**Schafer, M.** Researching reasoning and autonomous learning when interacting with video clips. *49. Jahrestagung der Gesellschaft fuer Didaktik der Mathematik*. University of Basel, Basel. Switzerland. February 2015.
- Songqwaru, N.Z.**  
**Songqwaru, N.Z.** A theory-based approach to surfacing assumptions in Continuing Professional Teacher Development Programmes. *South Africa International Conference on Education 2015*. Manhattan Hotel, Pretoria. South Africa. September 2015.
- Songqwaru, N.Z.** A theory-based approach to surfacing assumptions in Continuing Professional Teacher Development Programmes. *3rd SAERA Conference*. University of Free State, Bloemfontein. South Africa. October 2015.
- Weaver, K.N.**  
**Weaver, K.N.** Exploring the communication channels and processes between learning networkpartners that form around agricultural activities in rural Eastern Cape. *33rd International Conference of the Environmental Education Association of Southern Africa (EEASA)*. Esibayeni Lodge, Matsapha. Swaziland. September 2015.

## ENGLISH

Research in the Department covers a range of areas in the scholarship of contemporary theory, culture and literature. Topics currently under investigation include the politics of tertiary education, ecology and literature, and a number of studies related to South Africa and Africa, such as literature and history, crime fiction and science fiction, and the poetics of nostalgia, vulnerability and expectancy.

In 2015 the Department produced three (3) book chapters, sixteen (16) academic articles and fifteen (15) conference papers.

There are two funded research projects in the Department:

- **Klopper, Dirk.** *South African Literature in Focus* (Andrew W. Mellon Foundation Research Project Award).
- **Seddon, Deborah.** *Digital Archive of South African Orature*. (British Academy Newton Advanced Fellowship).

The Department attracted two Postdoctoral students in 2015:

- **Moonsamy, Nedine.** *Nostalgia contretemps: a theory on contemporary South African Literature*.
- **Phiri, Aretha.** *Interrogating Blackness, Locating 'Africanness': Call-and-response in the fiction of Toni Morrison, Zoe Wicomb, NoViolet Bulawayo, Chimamanda Ngozi Adichie, and Taiye Selasi*.

## Postgraduates / Graduations

PhD graduations in 2015:

- **Coetzee, Paulette.** *Performing whiteness: Representing otherness: Hugh Tracey and African music*. Supervisor: Professor Mike Marais. Co-supervisor: Professor CE Lucia (Stellenbosch).

MA graduations in 2015:

- **Cairns, Robert.** *The ethics of Misanthropy*. Supervisor: Dr Jamie McGregor.
- **Kenqu, Amanda Yolisa.** *The Black and its Double: The crisis of self-representation in protest and post-protest Black South African fiction*. Supervisor: Dr Sue Marais.
- **Wambui, Mary.** *Female identity in the post-millennial Nigerian novel: A cast study of Adichie, Atta and Unigwe*. Supervisor: Dr Deborah Seddon.

## Distinguished Visitors / International Visits

Two international scholars of note were invited to a conference hosted by the Department:

- **Phillips, Dana** (Towson University, United States of America), a Senior Research Associate in the Department, delivered a keynote address on *Collapse, Resilience, and Sustainability*.
- **Primorac, Ranka** (University of Southampton, United Kingdom) delivered a keynote address on *Land and Language in Chenjerai Hove and Brian Chikwava*, and has since been appointed as a Senior Research Associate in the Department.

Several staff members gave papers at international conferences in 2015:



Dr Deborah Seddon (left) with poets Thembani Onceya (a student and local poet), Andile Nayika, Azile Cibi, Akhona Mafani, with the sound and recording equipment funded by Dr Seddon's two year Newton Advanced Fellowship from the British Academy, which was awarded in 2015. These poets are part of the poetry collective, the Cycle of Knowledge, a community engagement partnership Dr Seddon has facilitated with students and local poets since 2013, and the equipment enables the group to intensify and develop their capacity to record and showcase their work.

Photo: Department of English

- **Cornwell, Gareth.** *"Reckless People": Richard Ford's Rock Springs Revisited*. Western Literature Association, 50th Annual Conference. Reno, Nevada.
- **Moonsamy, Nedine.** *Life is a Biological Risk: An Examination of Contagion, Contamination and Utopia in African Science Fiction*. 41st Annual Conference of the African Literature Association, African Futures and Beyond. Visions in Transition. University of Bayreuth, Germany.
- **Naidu, Sam.** *Crime Travel: Representations of Transnational Crime in South African Crime Fiction*. Postcolonial Studies Association Convention: Diasporas. University of Leicester, UK.
- **Phiri, Aretha.** *The (Im)possibility of Reparation in Toni Morrison's Beloved and Antjie Krog's Country of My Skull*. Repairing the Past, Imagining the Future: Reparations and Beyond. Edinburgh University, UK.

## Significant Research Aligned Events

As usual, research seminars were presented throughout the year by staff, students and visiting academics.

In July 2015 the Department hosted the biennial conference of the Association of English Teachers of South Africa Conference (AUETSA), the theme of which was Environment, Race and Land Use.

In November 2015 the Department hosted a colloquium on Nostalgia, Disenchantment and the Contemporary Southern African Literary Imaginary.

Professor Dirk Klopper

Head of Department

The Cycle of Knowledge's camera equipment funded by Dr Seddon's two year Newton Advanced Fellowship from the British Academy, which was awarded in 2015.

Photo: Department of English



## Books/Chapters/Monographs

Dass, M.

Dass, M. (2015) Making Room for the Unexpected: The University and the Ethical Imperative of Unconditional Hospitality. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.99-115. ISBN: 9781869142902.

Gouws, J.

Gouws, J. (2015) Bringing the Author and his Editors to Book: A Case Study of Fulke Greville. In: Van Mierlo, M. and Fachard, A. (eds.). *The Journal of the European Society for Textual Scholarship*. Leiden: Brill. p.113-133. ISBN: 9789401212113.

Phillips, D.

Phillips, D. (2015) Expostulations and Replies. In: Hiltner, K. (ed.). *Ecocriticism: The Essential Reader*. New York: Routledge: Taylor and Francis. p.259-266. ISBN: 9780415508605.

## Other Publications

Phiri, A.

Phiri, A. (2015) Critical Spaces: Processes of Othering in British Institutions of Higher Education. In: Wanggren, L. and Milatovic, M. (eds.). *Journal of Feminist Scholarship*. Dartmouth, Massachusetts: Journal of Feminist Scholarship.

Van der vliet, A.

Van der vliet, A. (2015) Book Review: Dried Blood - Eben Venter WOLF, WOLF Translated by Michiel Heyns 263pp. Scribe ISBN: 978 1 922 24786 5. In: *Times Literary Supplement (Newspaper) - 24 April 2015*. United Kingdom: The Times Literary Supplement.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Naidu, S.

Naidu, S. and Shabangu, M. (2015) The First World's Third-World Expert: Self-Exoticisation in Khaled Hosseini's *The Kite Runner*. *Journal of Commonwealth and Postcolonial Studies*. 3 (1). p.40-56.

Naidu, S. (2015) Sherlock Holmes: Evolving Cultural Icon, Adaptations, Personhood, and Fan Communities. *The Human: Journal of Literature and Culture*. 4 (2015). p.4-19.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Cornwell, D.G.N.

Cornwell, D.G.N. (2015) Ambivalent National Epic: Cormac McCarthy's *Blood Meridian*. *Critique-Studies in Contemporary Fiction*. 56 (2015). p.531-544.



Dr Lynda Spencer, staff member in the Department of English

Photo: Nedine Moonsamy

Klopper, D.C.A.

Klopper, D.C.A. (2015) Book Review: Essays on Conditionality and Discourse Antjie Krog, *Conditional Tense: After the South African Truth and Reconciliation Commission* (Culcutta, Seagull Books, 2013), 284 pp., hardback, ISBN: 978-0- 85742-174-6. *Journal of Southern African Studies*. 41 (5). p.1138-1140.

Marais, M.

Marais, M. (2015) The Time of Hospitality in Samuel Beckett's *Murphy*, Michael Ondaatje's *The English Patient*, and Damon Galgut's *The Good Doctor*. *English Studies in Africa*. 58 (2). p.15-25.

Moonsamy, N.

Moonsamy, N. (2015) The Longer Future: Representations of Historical Contingency in Contemporary South African Literature. *English Studies in Africa*. 58 (1). p.68-80.

Moonsamy, N. (2015) The Logic of the Looking Glass: Representations of Time and Temporality in *Agaat* and *High Low In-between*. *Journal of Literary Studies*. 31 (1). p.1-16.

Naidu, S.

Naidu, S. and le Roux, E. (2015) South African crime fiction: sleuthing the State Post-1994. *African Identities*. 2015 (2015). p.1-12.

Phillips, D.

Phillips, D. (2015) Book Review: *Prismatic Ecology: Ecotheory beyond Green*. Edited by Jeffrey Jerome Cohen. Foreword by Lawrence Buell.

Minneapolis: U of Minnesota P, 2013. 349 pp. Paper. *ISLE-Interdisciplinary Studies in Literature and Environment*. 22 (2). p.419-420.

Phillips, D. (2015) Introduction: Django Unchained and the Global Western. *Safundi: Journal of South African and American Studies*. 16 (3). p.253-255.

Phillips, D. (2015) Posthumanism, Environmental History, and Narratives of Collapse. *ISLE-Interdisciplinary Studies in Literature and Environment*. 22 (1). p.63-79.

Phiri, A.

Phiri, A. (2015) Queer subjectivities in J. M. Coetzee's *Disgrace* and Chimamanda Ngozi Adichie's *'On Monday of last week'*. *Agenda*. 103 (29.1). p.155-163.

Spencer, L.G.

Spencer, L.G. (2015) Visible Wars and Invisible Women: Interrogating Women's Roles During Wartime in Goretta Kyomuhendo's *Waiting: A Novel of Uganda at War*. *English in Africa*. 42 (2). p.109-128.

Wyrill, B.

Wyrill, B. (2015) Rethinking Historiography in Russel Brownlee's *Garden of the Plagues*. *English in Africa*. 42 (3). p.111-135.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Cornwell, D.G.N.

Cornwell, D.G.N. "Reckless People" Richard Ford's *Rock Springs* Revisited. *Western Literature Association, 50th Annual Conference*. Reno, Nevada. United States of America. October 2015.

Dass, M.

Dass, M. Nostalgia for the 'Art of Being Lost' in Ivan Vladislavic's 'Double Negative'. *Nostalgia and Disillusionment in the South African Literary Imaginary*. Rhodes University, English Department, Grahamstown. South Africa. November 2015.

Klopper, D.C.A.

Klopper, D.C.A. This Place Called Home: Zoë Wicomb's October. *Nostalgia, Disenchantment and the Contemporary Southern African Literary Imaginary*. Rhodes University, Grahamstown. South Africa. November 2015.

Klopper, D.C.A. Homeland, Borderland and No-Mans-Land in Damon Galgut's *The Good Doctor*. *AUETSA: Environment, Race and Land Use*. Rhodes University, Grahamstown. South Africa. July 2015.

Marais, M. and Dass, M.

Marais, M. and Dass, M. Reading Unreadable Lives: Precarity in Ken Barris's *What Kind of Child* and Ishtiyag Shukri's *The Silent Minaret*. *Association of University English Teachers of Southern Africa*. Rhodes University, Grahamstown. South Africa. January 2015.

Moonsamy, N.

Moonsamy, N. A Funny Feeling: Laughter and Nostalgia in Alex Latimer's *The Space Race*. *Nostalgia, Disenchantment and the Contemporary Southern African Literary Imaginary*. Rhodes University, Grahamstown. South Africa. November 2015.

Moonsamy, N. A Spoiled Existence: reworking the white literary imaginary in post-transitional literature. *AUETSA Conference, Environment, Race, and Land Use*. Rhodes University, Grahamstown. South Africa. July 2015.

Moonsamy, N. Life is a Biological Risk: an examination of contagion, contamination and utopia in African Science Fiction. *41st Annual Conference of the African Literature Association, African Futures and Beyond. Visions in Transition*. University of Bayreuth, Bayreuth. Germany. June 2015.

Naidu, S.

Naidu, S. The Emergence of the Farm Crime Novel: Socio-Historical Crimes, Personal Crimes, and the Figure of the Dog. *AUETSA Environment, Race, and Land Use*. Rhodes University, Grahamstown. South Africa. July 2015.

Naidu, S. Translating, Transcribing and Publishing Folklore in Colonial South Africa: George McCall Theal's *Kaffir Folklore (1882)*. *Print Culture and Colonisation in Africa*. University of Cape Town, Cape Town. South Africa. May 2015.

Naidu, S. Crime Travel: Representations of Transnational Crime in South African Crime Fiction. *Postcolonial Studies Association Convention: Diasporas*. University of Leicester, Leicester. United Kingdom. September 2015.



Dr Aretha Phiri, staff member in the Department of English  
Photo: Paul Greenway/3pphotography

Phiri, A.

Phiri, A. The (Im)possibility of Reparation in Toni Morrison's *Beloved* and Antjie Krog's *Country of my Skull*. *Repairing the Past, Imagining the Future: Reparations and Beyond*. Edinburgh University, Edinburgh. Scotland. November 2015.

Spencer, L.G.

Spencer, L.G. 'A strange combination of femininity and menace': Rethinking the figure of the female soldier in Nadiya Mohamed's *The Orchard of Lost Souls*. *The Second Eastern Africa Literary and Cultural Studies Conference*. Makerere University, Kampala. Uganda. August 2015.

Wylie, D.A.

Wylie, D.A. Rhetorics of hope and dislocation: Fiction and land reform in Zimbabwe. *AUETSA Conference, Environment, Race, and Land Use*. Rhodes University, Grahamstown. South Africa. July 2015.

Wylie, D.A. Kabbo Sings the Animals. *Fifth Animals Studies Colloquium: Indigenous Knowledges, Animals and Modernity in the Arts*. University of Western Cape, Cape Town. South Africa. September 2015.

## DEPARTMENT OF

# ENGLISH LANGUAGE AND LINGUISTICS

Staff remained active in their research activities by having their works presented at national and international conferences and symposia as well as getting their papers published. Abroad, Dr Bennett presented his works in Portland, Oregon (United States of America), Vancouver (Canada) and Kyoto (Japan) and Mr Sieborger presented his works in Aachen, Germany.



Rhodes University lecturer Dr William Bennett (centre) and Aaron Braver from Texas Tech University (left) visit Inkonjane FM community radio in Flagstaff while conducting fieldwork on *isiMpondo*. Here they are pictured with host Mawenu Dubedube (right) outside the broadcasting building.  
Photo: Dr William Bennett

Locally Dr Hunt, presented her works at the University of North-West (Potchefstroom) and Mr Sieborger presented his works at the University of Cape Town.

Professor Adendorff continued to serve on the Board of the Dictionary of South African English as well as on the national (PANSALB-affiliated) English Language Board. He and Professor Simango are members of the Academy of Science of South Africa.

Professor de Vos was elected president of the Linguistic Society of Southern Africa; Dr Hunt was elected president of the Southern African Applied Linguistics Association; and Professor Simango continued to serve on the editorial board of the journal: *Southern African Linguistics and Applied Language Studies*.

## Postgraduates / Graduations

There was increased research activity among postgraduate students during this period: more than twenty (20) postgraduate students presented their works during Postgraduate Week held at the beginning of September 2015. Significantly, two (2) students presented papers at the World Congress of African Linguistics in Kyoto Japan. Two (2) MA students obtained their degrees, one of whom obtained a distinction.

## Distinguished Visitors / International Visits

The department hosted Dr Kristina Riedel, an expert in African linguistics from the University of Illinois at Urbana Champaign in the United States of America. In addition the department hosted three (3) Postdoctoral Fellows from the African Humanities Program - Jerry Nwankwegu (Nigeria), Bebwa Isingoma (Uganda) and Amaka Ezeife (Nigeria). These scholars spent periods ranging from six (6) to eight (8) weeks in the department during which they interacted with staff and made presentations at research seminars.

## Significant Research Aligned Events

The 4th Southern African Microlinguistics Workshop (SAMWOP-4) was hosted by the department, November 27-29, 2015. The event, which has a specific focus on research in formal linguistics, brought together linguists from as far afield as Japan, the United States of America, and southern African countries.

Professor Silvester Ron Simango  
Head of Department

## Books/Chapters/Monographs

Bennett, W.G.

Bennett, W.G. (2015) *The Phonology of Consonants: Harmony, Dissimilation, and Correspondence*. Cambridge: Cambridge University Press. ISBN: 9781107073630.

Hunt, S.

Dedaic, M.N. and Hunt, S. (2015) Politics and discourse in South Africa. In: Dedaic, M.N. (ed.). *Singing, Speaking and Writing Politics: South African political discourses*. Amsterdam: John Benjamins Publishing Company. p.1-20. ISBN: 9789027206565.

Hunt, S. (2015) Representations of Gender and Agency in the *Harry Potter* Series. In: McEnery, A. and Baker, P. (eds.). *Corpora and Discourse Studies: Integrating Discourse and Corpora*. UK: Palgrave Macmillan. p.266-284. ISBN: 9781137431721.

Hunt, S. (2015) "Mother of the Nation": Representations of womanhood in South African media. In: Dedaic, M.N. (ed.). *Singing, Speaking and Writing Politics: South African political discourses*. Amsterdam: John Benjamins Publishing Company. p.169-199. ISBN: 9789027206565.

Sieborger, I. and Adendorff, R.

Sieborger, I. and Adendorff, R. (2015) Black-boxing and the politics of parliamentary oversight in South Africa. In: Dedaic, M.N. (ed.). *Singing, Speaking and Writing Politics: South African political discourses*. Amsterdam: John Benjamins Publishing Company. p.43-66. ISBN: 9789027206565.

## International Visits

Bennett, W.G.

Bennett, W.G. The Ohio State University, Columbus, Ohio, United States. *Nguni labial dissimilation: empirical and theoretical ramifications*. Invited colloquium presentation at *The Ohio State University*. 11 - 14 February 2015.

Bennett, W.G. IGRA, University of Leipzig, Leipzig, Germany. *Talk: Identity and Consonant Correspondence*. Invited speaker, for workshop on 'Replicative processes in grammar: Harmony, copying, doubling, and repetition'. 30 September - 2 October 2015.

Bennett, W.G. University of British Columbia, Vancouver, Canada. *Surface Correspondence: Prospects Beyond Assimilation and Dissimilation?* Invited colloquium presentation at *University of British Columbia*. 11 - 15 January 2015.

Bennett, W.G. Rutgers University, New Brunswick, United States. *Plotting the typology of ABC~D systems*. Presentation at the *Workshop on Formal Typologies in Optimality Theory*. May, Rutgers University. 29 - 30 May 2015.

Bennett, W.G. and Braver, A. Seoul National University, Seoul, South Korea. *Two talks presented: Bennett, Wm. G. (2015). (Dis)Agreement by Correspondence workshop. Bennett, Wm. G. and Aaron Braver. (2015). Using root shape to choose among prefixes in Xhosa*. 26 - 28 August 2015.

## Other Publications

Bennett, W.G.

Bennett, W.G. (2015) Agreement, history, and Obolo: a reply to Connell. In: Huddleston, K. and Bekker, I. (eds.). *Stellenbosch Papers in Linguistics Plus*. Stellenbosch: University of Stellenbosch.

Obikudo, E., Connell, B., Essien, I., Akinlabi, A., Ndimele, O-m. and Bennett, W.G. (2015) The Sociolinguistic Setting of the Defaka and Nkoroo People. In: Ndimele, O-m. (ed.). *Language Endangerment. Globalisation and the Fate of Minority Language in Nigeria: A Festschrift for Appolonia U. Okwudishu*. Nigeria: Linguistic Association of Nigeria.

Bennett, W.G. and Braver, A. (2015) The productivity of 'unnatural' labial palatalization in Xhosa. In: Krämer, M. and Urek, O. (eds.). *Nordlyd: Tromsø University working papers in Language and Linguistics*. Tromsø, Norway: Septentrio Academic Publishing.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Bennett, W.G.

Bennett, W.G. (2015) Assimilation, dissimilation, and surface correspondence in Sundanese. *Natural Language and Linguistic Theory*.



Rhodes University lecturer Dr William Bennett (right) makes a brief introduction on the air with field assistant Albert Nogwina (left) during a visit with Aaron Braver (Texas Tech University) at the *Inkonjane FM* community radio in Flagstaff while conducting fieldwork on *isiMpondo*.  
Photo: Aaron Braver

33 (2015). p.371-415.

Bennett, W.G. and Lee, S.J. (2015) A surface constraint in Xitsonga: \*LI. *Africana Linguistica*. 21 (2015). p.3-27.

Diemer, M., Van Der Merwe, K. and De Vos, M.

Diemer, M., Van Der Merwe, K. and De Vos, M. (2015) The development of phonological awareness literacy measures for isiXhosa. *Southern African Linguistics and Applied Language Studies*. 33 (3). p.325-341.

Hunt, S.

Bock, Z. and Hunt, S. (2015) 'It's just taking our souls back': discourses of apartheid and race. *Southern African Linguistics and Applied Language Studies*. 33 (2). p.141-158.

Hunt, S. and Hubbard, B.

Hunt, S. and Hubbard, B. (2015) The representation of sex workers in South African media: Danger, morals and human rights. *Spil Plus*. 46 (2015). p.25-49.

Lauriks, S., Sieborger, I. and De Vos, M.

Lauriks, S., Sieborger, I. and De Vos, M. (2015) "Ha! Relationships? I only shout at them!" Strategic management of discordant rapport in an African small business context. *Journal of Politeness Research-Language Behaviour Culture*. 11 (1). p.7-39.

Sieborger, I. and Adendorff, R.

Sieborger, I. and Adendorff, R. (2015) Resemiotising concerns from constituencies in the South African parliament. *Southern African Linguistics and Applied Language Studies*. 33 (2). p.171-197.

Sieborger, I., Van Der Merwe, K. and Adendorff, R.

Sieborger, I., Van Der Merwe, K. and Adendorff, R. (2015) Informed Interdependence: A model for collaboration in fostering communicative competencies in a Commerce curriculum. *Southern African Linguistics and Applied Language Studies*. 33 (1). p.81-98.

Simango, S.R.

Kadenge, M. and Simango, S.R. (2015) Comparing vowel hiatus resolution in ciNtshona and chiShona: An Optimality Theory analysis: A reply to Galem Sibanda. *Spil Plus*. 48 (2015). p.5-7.

Simango, S.R. (2015) "Amaphi ama-subjects eniwa-enjoy-ayo esikolweni?": Code-switching and language practices among bilingual learners in the Eastern Cape. *International journal of the sociology of language*. 234 (2015). p.77-91.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bennett, W.G.**

**Bennett, W.G.** Zulu imbrication as correspondence-driven coalescence. *Annual meeting of the Linguistic Society of America*. Linguistic Society of America, Portland. United States. January 2015.

**Bennett, W.G.** Formally mapping the typologies of interacting ABCD systems. *2015 Annual Meeting in Phonology (AMP 2015)*. University of British Columbia and Simon Fraser University, Vancouver. Canada. October 2015.

**Braver, A. and Bennett, W.G.** Abstract morphological information cued by phonotactics: Noun class disambiguation in Xhosa. *2015 Annual Meeting in Phonology (AMP 2015)*. University of British Columbia and Simon Fraser University, Vancouver. Canada. October 2015.

**Braver, A. and Bennett, W.G.** Phonology or Morphology: inter-speaker differences in Xhosa labial palatalization. Paper presented at the LSA annual meeting of the LSA, January, Portland. *Annual meeting of the Linguistic Society of America*. Linguistic Society of America, Portland. United States. January 2015.

**Goldstuck, K.H. and Bennett, W.G.**

**Goldstuck, K.H., Bennett, W.G. and Braver, A.** Experimentally assessing length-based noun class prefix alternations in isiXhosa. *8th World Congress of African Linguistics*. Kyoto University, Kyoto. Japan. August 2015.

**Hunt, S.**

**Hunt, S.** Shriek, yell, giggle or cry: gender and speech verbs in children's fiction. *SAALA/LSSA/SAALT annual joint conference*. University of the North West, Potchefstroom. South Africa. June 2015.

**Hunt, S. and Bowker, R.P.** New South African English - from braai to *chisa nyama*. *Corpus Linguistics*. Lancaster University, Lancaster. United Kingdom. July 2015.

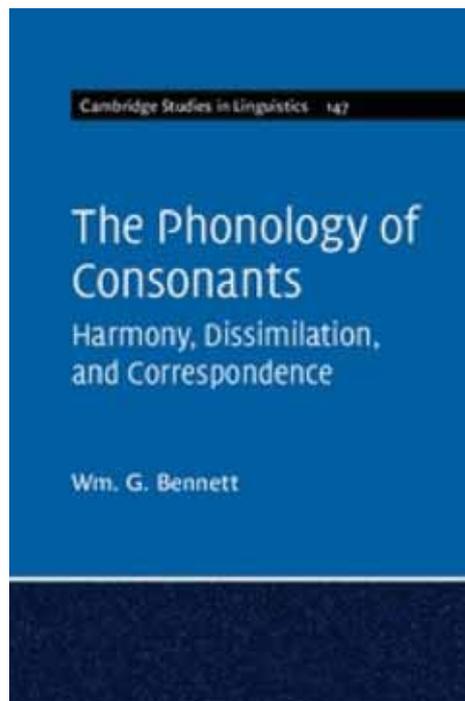
**Kreusch, D.C. and Bennett, W.G.**

**Kreusch, D.C., Bennett, W.G. and Braver, A.** Disambiguating isiXhosa noun classes with phonotactic clues. *8th World Congress of African Linguistics (WOCAL 8)*. Kyoto University, Kyoto. Japan. August 2015.

**Sieborger, I.**

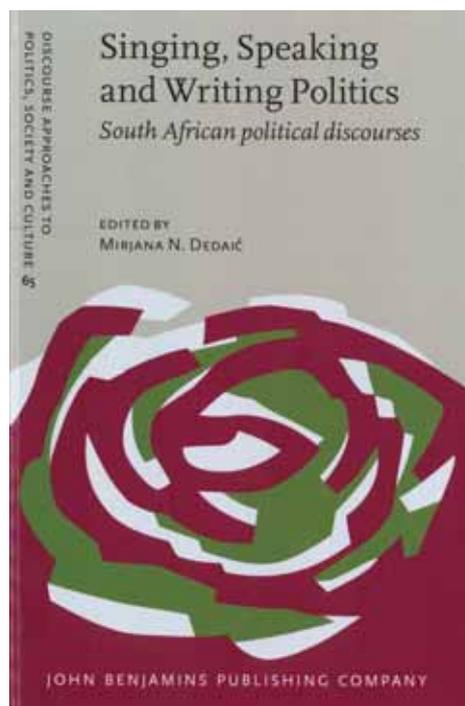
**Sieborger, I.** Using Axiological Semantic Density and Appraisal to investigate political positioning. *Legitimation Code Theory Colloquium 1*. University of Cape Town Graduate School of Business, Cape Town. South Africa. June 2015.

**Sieborger, I.** Appraisal and axiological semantic density: using Systemic Functional Linguistics and Legitimation Code Theory to investigate political positioning. *International Systemic Functional Congress 42*. RWTH Aachen, Aachen. Germany. July 2015.



Dr William Bennett published the book *The Phonology of Consonants, Harmony, Dissimilation and Correspondence* with Cambridge University Press

Photo: Tarryn Gillitt



Staff members of the Department of English Language and Linguistics, Professor Ralph Adendorff, Mr Ian Sieborger and Dr Sally Hunt, authored and co-authored three chapters in the book *Singing, Speaking and Writing Politics: South African political discourses*, published in 2015 by John Benjamins Publishing Company

Photo: Tarryn Gillitt

## ENVIRONMENTAL SCIENCE

The Department of Environmental Science had a productive year during 2015 producing a combined record of thirty-seven (37) peer reviewed papers, books and book chapters. The majority of these publications were the outcome of Honours, Masters, PhD and Postdoctoral studies, reflecting the high quality of our Postgraduate research and the wide interests and expertise of staff.



Plant growth experiments in the new Department growth tunnel at the Waainek Facility.

Photo: Photo supplied by the Department of Environmental Science

Publications were produced by all academic staff as well as Postdoctoral Fellows and relate to a diverse set of environmental academic areas such as urban greening, natural resource governance, human-environmental change, gender, harvesting of non-timber forest products, land reform, restoration, invasive species, climate change and natural resources and rural livelihoods. Furthermore, these publications are testimony to the interdisciplinary team approach employed in the Department with co-authors including colleagues from within the Department, South Africa and the international research community; several from complementary academic disciplines.

A richness was also added by having three (3) Postdoctoral Fellows in the Department simultaneously in 2015, including Dr Joana Bezerra (Brazil), Dr Sheunesu Ruwanza (Zimbabwe) and Dr Yahia Adam (Sudan) all of whom contributed significantly to our intellectual and productive capacity.

One especially significant research output for 2015 was a Routledge book co-edited by Professor Charlie Shackleton entitled *“Ecological Sustainability for Non-Timber Forest Products: Dynamics and Case Studies of Harvesting”*. This book is the culmination of several years of work by the editors and international contributors and one of the few comprehensive texts that deals thoroughly with the debates around the sustainable harvesting of forest products.

Conference attendance was again high in 2015 with twenty-five (25) papers and posters presented by staff and students over the year

at national and international conferences. Two (2) panel sessions (reported below) were organised.

In addition to these traditional research outputs, the Department also published a number of policy briefs and popular articles (six) as a mechanism to insert our research findings into the wider public domain and to influence policy and practice. The policy briefs are widely shared with key stakeholders and add to the more formal outputs from the research projects we are engaged in.

Professor James Gambiza took his sabbatical in 2015, and produced several research outputs that will appear in publications the next two (2) years, as well as secured a large Global Environmental Fund (GEF5) grant for research on land degradation in the Eastern Cape.

In addition to the GEF5 grant, the Department also secured a multi-million rand grant that will continue over the next eight (8) years from the Department of Environmental Affairs (DEA), Chief Directorate Natural Resource Management (NRM), related to the restoration of the Tsitsa River Catchment (and its tributaries). The Ntabelanga and Laleni Ecological Infrastructure Project (NLEIP) was launched in support of the Umzimvubu Water Project and seeks to restore natural capital and support sustainable land use management. This project,

coordinated by Mr Mike Powell from the Rhodes Restoration Research Group (RRRG), is supporting numerous Postgraduates both in our Department, the Geography Department and IWR.

The staff of the Department are also playing a major intellectual role in guiding DEA in the research process and practical implementation of the larger project. Within the NLEIP, the Department is also collaborating with other tertiary institutions such as University of Fort Hare and the University of the Free State.

Another benefit of the DEA project has included new experimental research facilities at the Waainek facility. The Department is now the owner of a R250 000 propagation tunnel as well as a 300m<sup>2</sup> shade cloth area for growing trials. This facility is already being used by students for their research.

## Postgraduates / Graduations

During 2015, the number of senior Postgraduates studying with the Department stood at a healthy twenty-five (25) Masters and twenty-five (25) PhD students. At the 2015 April graduation ceremony the Department saw twenty-three (23) Honours students, four (4) Masters and two (2) PhD students graduate.

One of the PhD students, Dr Meggan Spires, had upgraded from a Master's degree and still managed to complete her PhD in three years. The other, Dr Gosia Bryja, hailed from and undertook her research in Ecuador - a first for the Department and probably the University. Both students were supervised by Professor Sheona Shackleton.

## Distinguished Visitors / International Visits

The Department had several visitors during 2015, some the consequence of long-term collaborations. Visitors included:

- **Professor Paul Hebinck** from Wageningen University in the Netherlands made several visits to the Department as part of a long-term partnership and is co-supervising a new Masters student with Professor Sheona Shackleton, as well as working on publications with both Sheona Shackleton and Charlie Shackleton.
- **Ms Gisele Sinasson Sani** from Benin spent several months in the Department working with Professor Charlie Shackleton.
- **Dr Joanna Nelson** then a Postdoctoral Fellow at Stanford University and NatureNet (Natural Capital Project) visited from 12-19 August 2015. During this visit she:
  - Presented a seminar entitled "Headwaters to the sea: forests as a filter for freshwater and salt marsh as a filter for the oceans" on 19 August.
  - Guest Lectured on the 201 course (Ecological Systems module) on 17 August 2015.
  - Collaborated on research proposal to SANParks (now a project) with Dr Alta de Vos looking at water-related ecosystem services from National parks.
- **Professor Marty Luckert**, a research collaborator from the University of Alberta, Canada visited from 6 - 10th May 2015 to join a writing retreat to work on publications with

Professor Sheona Shackleton. The paper was published.

- **Professor Lonnie Guralnick** from Roger Williams University in Rhode Island (United States of America) came to spend time (7th-13th March 2015) with the Rhodes Restoration Research Group. Professor Guralnick is working on the genetics and CAM behaviour of *Portulacaria afra* (spekboom) as well as providing technical guidance on Mike Powell's PhD research into thicket restoration.
- The Department hosted a project development meeting (TRANSPLACE) for the international call on 'Transformation' by the ISSC, after the team was successful in the concept note round. Visitors included: **Dr Lummina Horlings**, **Professor Paul Hebinck** (both Wageningen University), **Dr Irene Cardoso** and **Dr I Botelho** (both University of Visçosa in Brazil). Unfortunately the final proposal for this highly competitive call was not successful, but the project design process was written up as a publication - *Horlings, L.G. (online). Connecting people to place: sustainable place shaping practices as transformative power. Current Opinion in Environmental Sustainability.*

## Significant Research Aligned Events

Staff of the Department organised and hosted several research related workshops and panels as listed below, frequently with international collaborators.

- The Department with DEA and Google Earth Outreach (coordinated by Dr Alta de Vos) hosted a workshop entitled "Geo Tools for Ntabelanga" from 29 September - 1 October 2015 (<http://ntabelanga2015.mapatraining.org/>). This involved:
  - Technical training for researchers and collaborators on geographical technologies with which to conduct participatory research.
  - International visitors Dr. Cynthia Annett (Kansas State and University of Alaska, Anchorage) and Steven DeRoy (Indigenous consultant for the Firelight group, Vancouver, Canada)
  - A public lecture: "Mapping local voices: a global conversation" by Steven DeRoy, Cynthia Annett, and Raleigh Seamster on 29 September 2015, Eden Grove (<http://ntabelanga2015.mapatraining.org/public-lecture>).
- Dr Alta de Vos and Mr Dylan Weyer (PhD student) facilitated the "Natural Capital Project Training" workshop on 14-17 November 2015 in Stellenbosch in collaboration with DEA, Stanford University, and CGIAR Water, Land & Ecosystem Programme. Further capacity building and collaboration is planned on the back of this training. (<https://sites.google.com/site/natcaptrainingsp2015/>)
- Professor Sheona Shackleton, with collaborators from UCT and University of Mauritius, organised a panel session on "Why is socially just climate change adaptation in sub-Saharan Africa so challenging" at the international conference on "Our Common Future under Climate Change" in Paris, 7-10, July 2015.
- Dr Alta de Vos co-organised a session on "Methods for Understanding Social Ecological Systems" at the international PECS conference in Stellenbosch, 3-5 November 2015.

- The Department took advantage of two international conferences held in South Africa and was well represented at both. At the International PECS conference in Stellenbosch seven papers were delivered by Departmental staff and students, while at the combined conference of the 56th annual conference for the Society for Economic Botany and the 18 annual conference of the Indigenous Plant Use Forum five papers were given. This was an important, but cost effective way, for profiling the work of the Department, its staff and students in international fora.
- Various meetings have been held throughout the year for the **NLEIP project**. Here, the higher level project workshops hosted by the Department and RRRG are listed. On 21st July the Department and RRRG hosted the **Second NLEIP Research Investment Strategy Workshop**; on 9th September the **INR-IWR collaborative project for DST - planning meeting**; and on 25th-26th November the **First NLEIP Science-Management Forum Workshop**.

Most staff in the Department continue to be actively involved in the SAPECS (Southern African Program on Ecosystem Change and Society) research group, which includes membership of different working groups and shared writing of publications. SAPECS is an international, transdisciplinary research programme that aims to advance stewardship of social-ecological systems and ecosystem services in southern Africa. Various meetings were attended by members throughout the year.

### Professor Sheona Shackleton

Head of Department



Dylan Wyer enthusiastically presents scenarios generated with the modelling tool "RIOS" to a group of farmers at an ecosystem service modelling training in November 2015, co-organised with Stanford University's Natural Capital Project. Photo: Natural Capital Project

## Books/Chapters/Monographs

Carlos Bezerra, J.

Carlos Bezerra, J. (2015) O Brasil na Rio+20 qual foi o papel do país na Conferência das Nações Unidas sobre Desenvolvimento Sustentável? In: De Castro, F. and Futemma, C. (eds.). *Governança Ambiental No Brasil: Entre O Socioambientalismo e a Economia Verde*. Brazil: Paco Editorial. p.27-52. ISBN: 9788581488790.

Cundill, G.

Leitch, A., Cundill, G., Schultz, L. and Meek, C. (2015) Principle 6: Broaden participation. In: Biggs, R., Schlutter, M. and Schoon, M.L. (eds.). *Principles for Building Resilience: Sustaining Ecosystem Services in Social-Ecological Systems*. Cambridge: Cambridge University Press. p.201-225. ISBN: 9781107082656.

Aburto, J., Cundill, G. and Stotz, W. (2015) The sustainability of small-scale fishery harvests in the context of highly variable resources. In: Shackleton, C., Pandey, A.K. and Ticktin, T. (eds.). *Ecological Sustainability for Non-timber Forest Products: Dynamics and Case Studies of Harvesting*. New York: Routledge: Taylor and Francis. p.116-125. ISBN: 9780415728591.

Cundill, G., Leitch, A., Schultz, L., Armitage, D. and Peterson, G. (2015) Principle 5: Encourage learning. In: Biggs, R., Schlutter, M. and Schoon, M.L. (eds.). *Principles for Building Resilience: Sustaining Ecosystem Services in Social-Ecological Systems*. Cambridge: Cambridge University Press. p.174-200. ISBN: 9781107082656.

Shackleton, C.M.

Shackleton, C.M., Pandey, A.K. and Ticktin, T. (2015) Ecologically sustainable harvesting of non-timber forest products: Disarming the narrative and the complexity. In: Shackleton, C., Pandey, A.K. and Ticktin, T. (eds.). *Ecological Sustainability for Non-timber Forest Products: Dynamics and Case Studies of Harvesting*. New York: Routledge: Taylor and Francis. p.260-278. ISBN: 9780415728591.

Hunter, D., Burlingame, B., Remans, R., Borelli, T., Cogill, B., Coradin, L., Golden, C., Jamnadass, R., Kehlenbeck, K., Shackleton, C.M. and

et al. (eds.). *Connecting global priorities: Biodiversity and human health - a state of knowledge review*. Geneva: World Health Organization and Secretariat of the Convention on Biological Diversity. p.96-129. ISBN: 9789241508537.

Shackleton, C.M. (2015) Multiple Roles of Non-timber Forest Products in Ecologies, Economies and Livelihoods. In: Peh, K.S.H., Corlett, R.T. and Bergeron, Y. (eds.). *Routledge Handbook of Forest Ecology*. New York: Routledge: Taylor and Francis. p.559-570. ISBN: 9780415735452.

Shackleton, C.M. (2015) Non-timber forest products in livelihoods. In: Shackleton, C., Pandey, A.K. and Ticktin, T. (eds.). *Ecological Sustainability for Non-timber Forest Products: Dynamics and Case Studies of Harvesting*. New York: Routledge: Taylor and Francis. p.12-30. ISBN: 9780415728591.

Shackleton, C.M., Ticktin, T. and Pandey, A. (2015) Introduction: The need to understand the ecological sustainability of non-timber forest product harvesting systems. In: Shackleton, C., Pandey, A.K. and Ticktin, T. (eds.). *Ecological Sustainability for Non-timber Forest Products: Dynamics and Case Studies of Harvesting*. New York: Routledge: Taylor and Francis. p.3-11. ISBN: 9780415728591.

Shackleton, C.M., Pandey, A. and Ticktin, T. (ed.) (2015) *Ecological Sustainability for Non-timber Forest Products: Dynamics and Case Studies of Harvesting*. New York: Routledge: Taylor and Francis. ISBN: 9780415728591.

Shackleton, S. and Shackleton, C.M.

Shackleton, S. and Shackleton, C.M. (2015) Not Just Farming: Natural Resources and Livelihoods in Land and Agrarian Reform. In: Cousins, B. and Walker, C. (eds.). *Land Divided, Land Restored: Land Reform in South Africa for the 21st Century*. Johannesburg: Jacana Media (Pty) Ltd. p.191-205. ISBN: 9781431409679.

## Other Publications

Hamer, N.G. and Shackleton, S.

Hamer, N.G. and Shackleton, S. (2015) Local safety nets help people cope with shocks and stressors and prevent the deepening of poverty

and vulnerability. In: Hamer, N. and Shackleton, S. (eds.). Policy Brief series. Grahamstown: Department of Environmental Science.

**Higgins, O. and Shackleton, C.M.**

Higgins, O. and Shackleton, C.M. (2015) Volunteers and their role in civic environmental organisations. In: *Environment: People and conservation in Africa*. Rivonia: Future Publishing.

**Mjoli, N. and Shackleton, C.M.**

Mjoli, N. and Shackleton, C.M. (2015) The woman of Willowvale: Crafting livelihoods from the wild date palm. In: *Veld & Flora*. Johannesburg: Veld & Flora.

**Ruwanza, S.**

Ruwanza, S. (2015) Who is using water along the Berg river: aliens or native plants? In: *Veld & Flora*. Johannesburg: Veld & Flora.

**Shackleton, C.M. and Hamer, N.G.**

Shackleton, C.M., Hamer, N.G., Swallow, B. and Ncube, K. (2015) Addressing food insecurity amongst small-holder communities in transition. In: Shackleton, C. (ed.). *Policy Brief series*. Grahamstown: Department of Environmental Science.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Kota, Z. and Shackleton, S.**

Kota, Z. and Shackleton, S. (2015) Harnessing local ecological knowledge to identify priority plant species for restoration of the Albany Thicket, South Africa. *Forests, Trees and Livelihoods*. 24 (1). p.43-58.

**Shackleton, S.**

Shackleton, S. and Luckert, M. (2015) Changing Livelihoods and Landscapes in the Rural Eastern Cape, South Africa: Past Influences and Future Trajectories. *Land*. 4 (2015). p.1060-1089.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Chishaleshale, M., Shackleton, C.M. and Gambiza, J.**

Chishaleshale, M., Shackleton, C.M., Gambiza, J. and Gumbo, D. (2015) The prevalence of planning and management frameworks for trees and green spaces in urban areas of South Africa. *Urban Forestry and Urban Greening*. 14 (2015). p.817-825.

**Coetzee, J.**

Selinske, M.J., Coetzee, J., Purnell, K. and Knight, A.T. (2015) Understanding the Motivations, Satisfaction, and Retention of Landowners in Private Land Conservation Programs. *Conservation Letters*. 8 (4). p.282-289.

**Cundill, G.**

Belluigi, D.Z. and Cundill, G. (2015) Establishing enabling conditions to develop critical thinking skills: a case of innovative curriculum design in Environmental Science. *Environmental Education Research*. 2015 (2015). p.1-22.

Bennett, E.M., Cramer, W., Begossi, A., Cundill, G., Diaz, S., Egoh, B.N., Geijzendorffer, I.R., Krug, C.B., Lavorel, S., Lazos, E. and et al. (2015) Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability. *Current Opinion in Environmental Sustainability*. 14 (2015). p.76-85.

Cundill, G., Roux, D.J. and Parker, J.N. (2015) Nurturing communities of practice for transdisciplinary research. *Ecology and Society*. 20 (2). p.1-7.

**Gwedla, N. and Shackleton, C.M.**

Gwedla, N. and Shackleton, C.M. (2015) The development visions and attitudes towards urban forestry of officials responsible for greening in South African towns. *Land Use Policy*. 42 (2015). p.17-26.

**Higgins, O. and Shackleton, C.M.**

Higgins, O. and Shackleton, C.M. (2015) The benefits from and barriers to participation in civic environmental organisations in South Africa. *Biodiversity and Conservation*. 24 (2015). p.2031-2046.

**Jevon, T. and Shackleton, C.M.**

Jevon, T. and Shackleton, C.M. (2015) Integrating Local Knowledge

and Forest Surveys to Assess Lantana camara Impacts on Indigenous Species Recruitment in Mazeppa Bay, South Africa. *Human Ecology*. 43 (2015). p.247-254.

**Job, N.M.**

Ollis, D.J., Ewart-Smith, J.L., Day, J.A., Job, N.M., Macfarlane, D.M., Snaddon, C.D., Sieben, E.J.J., Dini, J.A. and Mbona, N. (2015) The development of a classification system for inland aquatic ecosystems in South Africa. *Water SA*. 41 (5). p.727-745.

**Kaoma, H. and Shackleton, C.M.**

Kaoma, H. and Shackleton, C.M. (2015) The direct-use value of urban tree non-timber forest products to household income in poorer suburbs in South African towns. *Forest Policy and Economics*. 61 (2015). p.104-112.

**Kruger, R., Cundill, G. and Thondhlana, G.**

Kruger, R., Cundill, G. and Thondhlana, G. (2015) A case study of the opportunities and trade-offs associated with deproclamation of a protected area following a land claim in South Africa. *Local environment*. 2015 (2015). p.1-16.

**Mjoli, N. and Shackleton, C.M.**

Mjoli, N. and Shackleton, C.M. (2015) The Trade in and Household Use of Phoenix reclinata Palm Frond Hand Brushes on the Wild Coast, South Africa. *Economic Botany*. 69 (3). p.218-229.

**Pereira, T.L.**

Fabricius, C. and Pereira, T.L. (2015) Insights and Applications: Community Biodiversity Inventories as Entry Points for Local Ecosystem Stewardship in a South African Communal Area. *Society and Natural Resources*. 28 (2015). p.1030-1042.

**Ruwanza, S. and Shackleton, C.M.**

Ruwanza, S. and Shackleton, C.M. (2015) Incorporation of environmental issues in South Africa's municipal Integrated Development Plans. *International Journal of Sustainable Development and World Ecology*. 2015. p.1-12.

Ruwanza, S. and Shackleton, C.M. (2015) Density and Regrowth of a Forest Restio (*Ischyrolepis eleocharis*) under Harvest and Non-harvest Treatments in Dune Forests of the Eastern Cape Province, South Africa. *Economic Botany*. 69 (2). p.136-149.

**Sachikonye, M.T.B.**

Dalu, T., Dube, T., Froneman, P.W., Sachikonye, M.T.B., Clegg, B. and Nhwatiwa, T. (2015) An assessment of chlorophyll- $\alpha$  concentration spatio-temporal variation using Landsat satellite data, in a small tropical reservoir. *Geocarto International*. 30 (10). p.1130-1143.

**Shackleton, C.M.**

Alexander, J., Cocks, M.L. and Shackleton, C.M. (2015) The Landscape of Childhood: Play and Place as Tools to Understanding Children's Environmental Use and Perceptions. *Human Ecology*. 43 (2015). p.467-480.

Rist, L., Shackleton, C.M., Gadamus, L., Chapin III, F.S., Gowda, C.M., Setty, S., Kannan, R. and Shaanker, R.U. (2015) Ecological Knowledge Among Communities, Manager and Scientists: Bridging Divergent Perspectives to Improve Forest Management Outcomes. *Environmental Management*. 2015. p.1-16.

Schlesinger, J., Drescher, A. and Shackleton, C.M. (2015) Socio-spatial dynamics in the use of wild natural resources: Evidence from six rapidly growing medium-sized cities in Africa. *Applied Geography*. 56 (2015). p.107-115.

**Shackleton, S.**

Shackleton, S., Ziervogel, G., Sallu, S., Gill, T. and Tschakert, P. (2015) Why is socially-just climate change adaptation in sub-Saharan Africa so challenging? A review of barriers identified from empirical cases. *Wiley Interdisciplinary Reviews-Climate Change*. 6 (2015). p.321-344.

Shackleton, S., Chinyimba, A., Shackleton, C.M. and Kaoma, H. Shackleton, S., Chinyimba, A., Hebinck, P., Shackleton, C.M. and Kaoma, H. (2015) Multiple benefits and values of trees in urban landscapes in two towns in northern South Africa. *Landscape and Urban Planning*. 136 (2015). p.76-86.

**Steele, M.Z. and Shackleton, C.M.**

Steele, M.Z., Shackleton, C.M., Shaanker, R.U., Ganeshiah, K.N. and Radloff, S. (2015) The influence of livelihood dependency, local ecological knowledge and market proximity on the ecological impacts of harvesting non-timber forest products. *Forest Policy and Economics*. 50 (2015). p.285-291.



Members of the Honours Class of 2015 working in the vegetable garden they established at the Eluxolweni Youth Shelter as part of their community engagement activities.

Photo: Department of Environmental Science

**Thondhlana, G.**

Thondhlana, G. (2015) Land acquisition for and local livelihood implications of biofuel development in Zimbabwe. *Land Use Policy*. 49 (2015). p.11-19.

**Thondhlana, G. and Shackleton, S.**

Thondhlana, G., Shackleton, S. and Blignaut, J. (2015) Local institutions, actors and natural resources governance in the Kgalagadi Transfrontier Park and surrounds, South Africa. *Land Use Policy*. 47 (2015). p.121-129.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bulunga, A.A.L.**

Bulunga, A.A.L., Dyantyi, M.O., Kelland, L.A. and Tabensky, P.A. *liNtetho zoBomi: A Conversation on Transformational Curriculum. liNtetho zoBomi: A Conversation on Transformational Curriculum*. University of Cape Town (UCT), Cape Town. South Africa. September 2015.

**Cockburn, J. and Cundill, G.**

Cockburn, J. and Cundill, G. Landscape mobilisers build platforms for collaboration to improve stewardship: lessons from South Africa. *PECS 2015*. Stellenbosch. South Africa. November 2015.

**Cundill, G.**

Cundill, G. Collaborative transformations toward ecosystem stewardship: A dialogue between theory and practice. *PECS 2015*. Stellenbosch. South Africa. November 2015.

**Cundill, G. and Carlos Bezerra, J.**

Cundill, G. and Carlos Bezerra, J. Fostering collaboration in contested landscapes: Land rights and identity in collaborative transformations toward stewardship in South Africa. *PECS 2015*. Stellenbosch. South Africa. November 2015.

**De Vos, A.**

De Vos, A., Biggs, R. and Presier, R. Methods for understanding social-ecological systems: a systematic review. *PECS 2015*. Stellenbosch. South Africa. November 2015.

Presier, R., Biggs, R. and De Vos, A. Complexity and social-ecological systems: A conceptual exploration. *International PECS conference*. Stellenbosch. South Africa. November 2015.

Mehl, H., De Vos, A., Annett, C. and Causey, D. Examining a complementary framework for valuing cultural ecosystem services. *8th ESP World Conference*. Stellenbosch. South Africa. November 2015.

De Vos, A., Biggs, R. and Presier, R. The cultural ecosystem service framework for biodiversity conservation in South Africa's National Parks: uses and limitations. *8th ESP World Conference*. Stellenbosch. South Africa. November 2015.

De Vos, A. Rapid assessment of potential ecosystem service impacts following a planned dam development in the Ntabalenga catchment, South Africa. *Natural Capital Symposium*. Stanford. United States of America. March 2015.

Mehl, H., De Vos, A. and Annett, C. Cultural ecosystem services: where do they fit in ecosystem service monetization? *8th AAG Conference*. Chicago. United States of America. November 2015.

**George, A.M. and Cundill, G.**

George, A.M. and Cundill, G. The operation of social spaces in Vembanad Lake, India. *PECS 2015*. Stellenbosch. South Africa. November 2015.

**Gwedla, N. and Shackleton, C.M.**

Gwedla, N. and Shackleton, C.M. Municipal parks managers' visions and attitudes towards urban forestry in South African towns. *IERM Annual conference*. Muldersdrift. South Africa. September 2015.

Gwedla, N. and Shackleton, C.M. The role of local municipalities in urban greening: perceptions of urban residents in Eastern Cape towns. *IERM Annual conference*. Muldersdrift. South Africa. September 2015.

**Martens, C. and Shackleton, C.M.**

Martens, C. and Shackleton, C.M. Using local ecological knowledge to model the distribution of two palm species in southern Mozambique. *Combined conference of the 56th annual conference of the Society for Economic Botany and the 18th annual conference of the Indigenous Plant Use Forum*. Clanwilliam. South Africa. June 2015.

**Mjoli, N. and Shackleton, C.M.**

Mjoli, N. and Shackleton, C.M. The trade in and household use of Phoenix reclinata hand brushes on the Wild Coast, South Africa. *Combined conference of the 56th annual conference of the Society for Economic Botany and the 18th annual conference of the Indigenous Plant Use Forum*. Clanwilliam. South Africa. June 2015.

**Ruwanza, S. and Shackleton, C.M.**

Ruwanza, S. and Shackleton, C.M. Density and regrowth of a forest restio (*Ischyrolepis eleocharis*) under harvest and non-harvest treatments in dune forests in the Eastern Cape province, South Africa. *Combined conference of the 56th annual conference of the Society for Economic Botany and the 18th annual conference of the Indigenous Plant Use Forum*. Clanwilliam. South Africa. June 2015.

**Ruwanza, S., Shackleton, S. and Shackleton, C.M.**

Ruwanza, S., Shackleton, S. and Shackleton, C.M. Impact of the invasive shrub *Lantana camara* L. on soil properties in the Eastern Cape, South Africa. *Botanikertagung 2015*. Freising. Germany. August 2015.

**Shackleton, C.M.**

Sinnason Sanni, G., Shackleton, C.M. and Sinsin, B. An ethnobotanical study of *Mimusops andongensis* Hiern in Benin (West Africa). *Combined conference of the 56th annual conference of the Society for Economic Botany and the 18th annual conference of the Indigenous Plant Use Forum*. Clanwilliam. South Africa. June 2015.

**Shackleton, C.M., Ticktin, T. and Pandey, A.**

Sustaining resource sustainability in a dynamic world. *Combined conference of the 56th annual conference of the Society for Economic Botany and the 18th annual conference of the Indigenous Plant Use Forum*. Clanwilliam. South Africa. June 2015.

**Shackleton, C.M.** Transforming green spaces and services constrains livelihoods in sub-Saharan African towns. *International PECS Conference*. Stellenbosch. South Africa. November 2015.

**Shackleton, S.**

Identifying barriers to climate change adaptation in sub-Saharan Africa: What transformations might be needed for a socially just future? *International PECS Conference*. Spier, Stellenbosch. South Africa. November 2015.

**Shackleton, S. and Ziervogel, G.** Why is socially just climate change adaptation in sub-Saharan Africa so challenging? *Our common future under climate change*. Paris. France. July 2015.

**Thondhlana, G.**

Thondhlana, G. Conservation and conflicts in South African protected areas. *Seminar series: Conflict, peace and regional economic integration in southern Africa: Bridging the knowledge gaps and addressing the policy challenges*. Livingstone. Zambia. October 2015.

The Fine Art Department has enjoyed an active year engaging with a wide range of research endeavours and outputs. These have included academic papers, publications and conferences in addition to creative practice-as-research in the form of a variety of exhibitions, installations and video projections. Furthermore members of the department have been involved with exhibition curation, arts activism and dialogues, workshops and community engagement. Research has taken place at regional, national and international levels.

The department was part of a new arts and social justice initiative titled *'Emancipating the African Voice in Public Art for Social Cohesion Purposes in South Africa'*. This project has seen the Institute for Reconciliation and Social Justice at the University of the Free State partner with Rhodes University and the Nelson Mandela Metropolitan University in inter-university dialogues, creative actions and sector research in the field of arts and transformation. Contributing to this project, the Fine Art Department hosted community dialogues, facilitated public artworks, and convened an Art and Social Justice Colloquium in September 2015, at which five (5) students presented.

## Postgraduates / Graduations

The department graduated a strong cohort of eight (8) MFA students - five (5) with distinction. They all presented solo exhibitions as part of their practice as research submissions.

## Distinguished Visitors / International Visits

The revered senior South African artist, Dr David Koloane, visited Rhodes University and was recognised through the award of an Honorary Doctorate at the graduation ceremony. Dr Uriel Orlow was a visiting scholar from the University of Westminster in London, United Kingdom. Mr Tembe Shibase was a visiting and exhibiting artist from the University of KwaZulu-Natal (UKZN), Durban.

The Andrew W. Mellon funded Focus Area, Visual and Performing Arts of Africa (ViPPA), extended their Lucid Lunchbox series of lectures with visiting artists and academics, including the chief curator of the National Gallery of Zimbabwe - Mr Raphael Chikukwa.

Professor Maureen De Jager travelled in October 2015 to the United Kingdom to visit Kingston University in London to engage with PhD Research training. Dr Sharlene Khan visited the Rockefeller Centre, New York, United States of America for International Arts Reviewing and also participated in an international visual arts residency programme at Gyeonggi Cultural Centre, South Korea. Professor Dominic Thorburn travelled to China to visit visual arts institutions and for the 9th Impact International Printmaking Conference in Hangzhou.

## Significant Research Aligned Events

Ms Christine Dixie exhibited her installation *'The Binding'* at the Smithsonian National Museum of African Art, Washington, United States of America, as part of Heaven, Hell, Purgatory - the Divine Comedy from the Perspective of Contemporary African Artists. She also exhibited *'To Be King'* at the Cape Town Art Fair and at the



Chiro Nott, MFA Installation *'Space Station'*.  
Photo: Department of Fine Art

Weiner Festchochen, Vienna, Austria.

Dr Sharlene Khan won the Second Prize in Video Art Award for *'When the moon waxes red'* at Videokunst Förderpreis Bremen in Germany. She also held a solo exhibition titled *'Nervous Conditions'* at Goldsmiths, University of London, United Kingdom. Dr Khan also presented her research paper *Touching and Fondling the Black Body - the Significance of the Blackface Sign in Contemporary South African Visual Arts* at the Africa Research Day 2015, School of Oriental and African Studies, London, United Kingdom.

Mr Brent Mestre initiated the Analogue Eye Pop-up Cinema and curated three (3) programs for Infecting the City, Castle



Desmond Mnyila, MFA Exhibition 'Dominion', November 2015.  
Photo: Department of Fine Art

of Good Hope & Company's Garden, Cape Town. He exhibited solo at the Oliewenhuis Gallery, Bloemfontein - showing 'Sojourn', his photographic landscapes from Southern Africa, and the stop animation installation 'Across My Father's Fault'. He showed 'The stranger who licked salt back into our eyes' at the Joyce Yahouda Gallery, Montreal, Canada. Meistre created and co-curated U/TROPIA African video art exhibition for Wiener Festwochen, Kunstlerhaus Gallery, Vienna, Austria. He also presented his Analogue Eye programs at the Wiener Festwochen and the 18th International Schillertage, Mannheim, Germany.

**Dr Phindezwe Mnyaka** presented *Traversing ethical imperatives in academic and ethnographic settings: Stories from the field at the International Society of Critical Health Psychology* at Rhodes University, South Africa. She also delivered *The first of signs: symbolism and the realm of abandonment at Red Assembly: Time and Work* at the Ann Bryant Art Gallery, East London, South Africa.

Ms Monique Pelser exhibited a solo exhibition titled 'Conversations with my Father' on the Main Program of the National Arts Festival.

**Professor Ruth Simbao** presented the paper *Learning Sideways: Struggles of 'Africanisation' in the Eurocentric Discipline of Art History* at the African Arts Institute Conference on African Tertiary Arts Education at the University of Cape Town. She also presented *Decolonising Tertiary Arts Education in Africa* at the European League of Institutes of the Arts (ELIA) Leadership Symposium, 'Dominance, Diversity, Disruption' at the University of Cape Town. The presentation *Walking into Africa in a Chinese Way: Mindful Entry as Counterbalance* was made at the Agence Nationale de la Recherche (ANR) project Espaces de la culture chinoise en Afrique, Paris, France.

**Professor Dominic Thorburn** exhibited on 'Circumference and Radius:  $C=2\pi R=$  Economies of Distance' at the University of Tennessee, Knoxville, United States of America. He also presented a paper titled 'The print is mightier than the sword' at the 9th Impact Intentional Printmaking Conference, China Academy of Art, Hangzhou, China.

**Ms Cassandra Wilmot** also presented Thinking along Lines of Site and Sight in 'Treading Soft Ground' at this conference.

**Ms Natalie (Rat) Western** was curator and editor of 'FeedBack Loop' - a series of six (6) publications over six (6) days for the Infecting the City public art project in Cape Town.

**Professor Dominic Thorburn**  
Head of Department

## Concerts, Exhibitions, Performances, Workshops, Events

**Coetzee, C.D.**

Coetzee, C.D. Solo Artist Exhibition. Video - 'The Red Death - Boetie is Verlore'. General Lecture Theatre, Rhodes University, Grahamstown, 27 November 2015.

**De Jager, M.S.**

De Jager, M.S. Presenter. Exhibition lecture- Keith Dietrich, 'Fragile Histories, Fugitive Lives'. *National Arts Festival*. 1820 Settlers Monument, Grahamstown. South Africa. 10 July 2015.

**Dixie, C.B.**

Dixie, C.B. Presenter. Exhibition lecture - 'Battleground'. *National Arts Festival*. Albany Museum, Grahamstown. South Africa. 2 - 12 July 2015.

Dixie, C.B. Exhibiting Artist. 'Battleground'. *National Arts Festival*. Albany Museum, Grahamstown. South Africa. 2 - 12 July 2015.

Dixie, C.B. Exhibiting Artist. Video - 'To be King'. U/Tropia. *Weiner Festwochen*. Vienna. Austria. 27 - 30 May 2015.

Dixie, C.B. Exhibiting Artist. Installation - 'The Binding'. *Heaven, Hell, Purgatory - the Divine Comedy from the Perspective of Contemporary African Artists*. The Smithsonian National Museum of African Art, Washington D.C. United States of America. 8 April - 1 November 2015.

Dixie, C.B. Exhibiting Artist. Installation - 'To Be King'. *Cape Town Art Fair*. Cape Town. South Africa. 24 September - 4 October 2015.

**Garisch, M.I.**

Garisch, M.I. Solo Artist Exhibition. Installation - 'My eie Resepte'. Grahamstown. South Africa. 20 February 2015.

**Khan, S.**

Khan, S. Exhibiting Artist. Second Prize Winner in Video Art Award. 'When the moon waxes red'. *Videokunst Förderpreis Bremen*. VKP Bremen, Bremen. Germany. 15 April 2015.

Khan, S. Exhibiting Artist. Two Person Show. 'Nervous Conditions II'. *Spring/break Art Show*. Old Post Office, New York. United States of America. 3 - 8 March 2015.

Khan, S. Solo Artist Exhibition. 'Nervous Conditions'. Goldsmiths, University of London, London. United Kingdom. 23 - 24 January 2015.

Khan, S. Exhibiting Artist. 'Nervous Conditions II' (2015). *Thupelo 30 Year Exhibition/Auction*. Provenance Auction House, Cape Town. South Africa. 12 November 2015.

**King, L.E.**

King, L.E. Solo Artist Exhibition. 'Sentinels'. *National Arts Festival Fringe*. Rhodes Theatre Complex, Grahamstown. South Africa. 2 - 12 July 2015.

**Meistre, B.A.**

Meistre, B.A. Curator. FotoFence. *Outdoor Photography Exhibition and Competition (National Arts Festival & European Union)*. Fiddlers Green, Grahamstown. South Africa. 7 - 30 March 2015.

Meistre, B.A. Curator/Creator. Analogue Eye/ Infecting the City. *Analogue Eye: Pop-up Cinema, curated three programs 1. The Stone Kraal, 2. Lunar Padrao, 3. Cabo Das Tormentas*. Castle of Good Hope & Company's Garden, Cape Town. South Africa. 9 - 13 March 2015.

Meistre, B.A. Solo Artist Exhibition. Sojourn. *Photographic landscapes from Southern Africa*. Oliewenhuis Gallery, Bloemfontein. South Africa. 14 July - 23 August 2015.

Meistre, B.A. Solo Artist Exhibition. 'Across My Father's Fault'. *Three-part stop animation installation*. Oliewenhuis Gallery, Bloemfontein. South Africa. 14 July - 23 August 2015.

Meistre, B.A. Exhibiting Artist. 'The stranger who licked salt back into our eyes'. *Stop animation film*. Joyce Yahouda Gallery, Montreal. Canada. 26 March - 9 May 2015.

Meistre, B.A. Curator/Creator. U/Tropia. *Conceptualised and co-curated African video art exhibition for Wiener Festwochen*. Kunsterhaus Gallery, Vienna. Austria. 26 - 31 May 2015.

Meistre, B.A. Curator/Creator. Analogue Eye: Drive-in. *Curated three programs for Wiener Festwochen*. F23, Holzplatz (Coffin Factory), Vienna. Austria. 3 - 6 June 2015.

Meistre, B.A. Curator/Creator. Analogue Eye: Mobile Drive-in. *Curated 'The Stone Kraal' and 'Lost in the Waves'*. 18th International Schillerstage. Benjamin Franklin US Military Base, Mannheim. Germany. 12 - 20 June 2015.

Meistre, B.A. Workshop. Alien Safari. *Workshop - animation for Fine Art Students*. Werkspassage Gallery, Vienna. Austria. 1 - 5 June 2015.

**Mnyila, D.**

Mnyila, D. Solo Artist Exhibition. 'Dominion'. Albany Museum, Grahamstown. South Africa. November 2015.

**Mumba, P.**

Mumba, P. Solo Artist Exhibition. 'Time In-Between'. Albany Museum, Grahamstown, South Africa. November 2015.

**Nott, C.**

Nott, C. Solo Artist Exhibition. Installation - 'Space Station'. Grahamstown Railway Tracks, Grahamstown. South Africa. 28 November 2015.

**Nsele, Z.M.N.**

Nsele, Z.M.N. Guest Curator. 'On the Frontline'. *Nelson Mandela Foundation*. The Albany History Museum, Alumni Gallery, Grahamstown. South Africa. 7 September - 25 October 2015.

**Poole, T.K.**

Poole, T.K. Solo Artist Exhibition. 'Thozama and Rose'. *Galerie M Bochum*. Germany. October 2015.

Poole, T.K. Solo Artist Exhibition. 'Who Are You?' *Fried Contemporary*. Pretoria. South Africa. September 2015.

Poole, T.K. Exhibiting Artist. 'Mappa dell'arte nuova, Imago Mundi'. *Luciano Benetton Collection*. Venice, Italy. 1 September to 1 November 2015.

Poole, T.K. Exhibiting Artist. U/Tropia. *Weiner Festwochen*. Vienna. Austria. 27 - 30 May 2015.

Poole, T.K. Exhibiting Artist. 'Here There be Dragons' *Gallery On Levisseur*. Bloemfontein. South Africa. March 2015.

Poole, T.K. Exhibiting Artist. Nelson Mandela Metropolitan Art Museum Biennial Exhibition. *NMMAM*. Port Elizabeth. South Africa. 29 October 2014 to 22 February 2015.

Poole, T.K. Artist Residency. Angus Taylor and Rina Stutzer Residency. Pretoria. South Africa. June to July 2015

**Pelser, M.M.**

Pelser, M.M. Exhibiting Artist. 'Dylans Circus and I'. *Analogue Eye: Infecting the City*. The Company's Gardens, Cape Town. South Africa. 10 March 2015.

Pelser, M.M. Exhibiting Artist. 'Bystanders' - public installation. *KKNK Arts Festival Oudtshoorn*. Oudtshoorn. South Africa. 1 - 20 April 2015.

Pelser, M.M. Exhibiting Artist. 'Dylan's Circus and I'. *Analogue Eye: Wiener Festwochen*. Holzplatz, Vienna. Austria. 6 June 2015.

Pelser, M.M. Solo Artist Exhibition. 'Conversations with my Father'. *Main Program - National Arts Festival*. Alumni Gallery, Albany Museum, Grahamstown. South Africa. 2 - 30 July 2015.

**Thorburn, D.**

Thorburn, D. Presenter. Exhibition lecture. Simon Gush - 'Nine O'Clock'. *National Arts Festival Main Program*. 1820 Settler's Monument, Fort Selwyn, Grahamstown. South Africa. 2 - 12 July 2015.

Thorburn, D. Exhibiting Artist. 'Art of Human Rights Portfolio'. *Art for Humanity*. Durban Art Gallery, Durban. South Africa. 21 March - 30 April 2015.

Thorburn, D. Exhibiting Artist. 'Circumference and Radius:  $C=2\pi R=$  Economies of Distance'. *SGC International Conference*. University of Tennessee, Knoxville. USA. 15 - 30 March 2015.

**Western, N.A.**

Western, N.A. Curator/ Editor. FeedBack Loop - Series of 6 publications over 6 days. *Infecting the City*. Cape Town. South Africa. 9 - 14 March 2015.

Western, N.A. Exhibiting Artist. U/TROPIA. *African video art exhibition for Wiener Festwochen*. Kunsterhaus Gallery, Vienna. Austria. 26 - 31 May 2015.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: Under Construction.

[http://issuu.com/ratwestern/docs/4feedbackloop\\_construct](http://issuu.com/ratwestern/docs/4feedbackloop_construct). *Infecting the City*. Cape Town. South Africa. 11 - 12 March 2015.

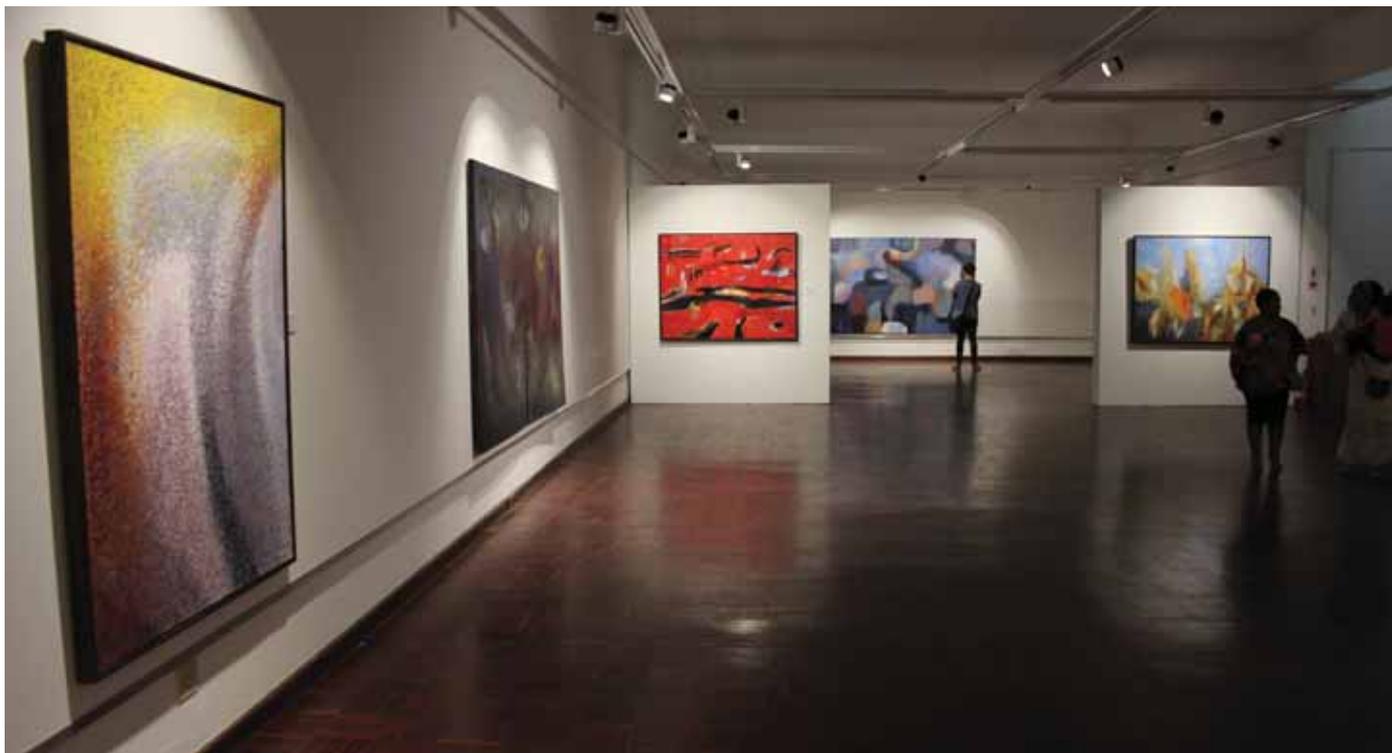
Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: The Mapping of Space.

[http://issuu.com/ratwestern/docs/6feedbackloop\\_maps](http://issuu.com/ratwestern/docs/6feedbackloop_maps). *Infecting the City*. Cape Town. South Africa. 13 - 14 March 2015.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: What Remains?

[http://issuu.com/ratwestern/docs/5feedbackloop\\_remains](http://issuu.com/ratwestern/docs/5feedbackloop_remains). *Infecting the City*. Cape Town. South Africa. 12 - 13 March 2015.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: Inklusion/Exklusion.



Patrick Mumba, MFA Exhibition 'Time In- Between', November 2015.  
Photo: Department of Fine Art

[http://issuu.com/ratwestern/docs/3feedbackloop\\_inklusion](http://issuu.com/ratwestern/docs/3feedbackloop_inklusion). *Infecting the City*. Cape Town. South Africa. 10 - 11 March 2015.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: Going Up? [http://issuu.com/ratwestern/docs/2feedbackloop\\_goingup](http://issuu.com/ratwestern/docs/2feedbackloop_goingup). *Infecting the City*. Cape Town. South Africa. 9 - 10 March 2015.

Western, N.A., Glover, D.C.J., Nott, C. and Makandula, S. Participating Artist/Writer. FeedBack Loop: Manifesto. [http://issuu.com/ratwestern/docs/1feedbackloop\\_manifesto\\_89c451d1529f46](http://issuu.com/ratwestern/docs/1feedbackloop_manifesto_89c451d1529f46). *Infecting the City*. Cape Town. South Africa. 8 - 9 March 2015.

## Creative Writing

Khan, S.  
Khan, S. (2015) Absur-City-Pity-Dity. In: Galhotra, V. and Sann, E. (eds.). *Ecologies of the Visual, Economies of Profit*. New York: Jack Shainmain.

Khan, S. (2015) I Make Art. In: Khan, S. and Asfour, F.M. (eds.). *I Make Art - Voicing Voice, Speaking Self and Doing Criticality*. Johannesburg: Sharlene Khan.

## Distinguished Visitors

Chikukwa, R.  
Mr R Chikukwa. National Gallery of Zimbabwe (Chief Curator), Harare, Zimbabwe. *Lecture for the Visual and Performing Arts of Africa (ViPAA) Lucid Lunchbox series and studio visits with ViPAA postgraduates*. September 2015.

Goniwe, T.  
Mr T Goniwe. University of Cape Town, Cape Town, South Africa. *Conference Discussant*. September 2015.

Joja, A.M.  
Mr AM Joja. Mail and Guardian, Johannesburg, South Africa. *Lecture for the Visual and Performing Arts of Africa (ViPAA) Lucid Lunchbox series*. April 2015.

Koloane, D.  
Dr D Koloane. Professional artist, Johannesburg, South Africa. *Recipient of Honorary Doctorate*. April 2015.

Ntombela, N.M.  
Ms NM Ntombela. Witwatersrand University, Johannesburg, South Africa. *Lecture for the Visual and Performing Arts of Africa (ViPAA) Lucid Lunchbox series*. August 2015.

Orlow, U.  
Dr U Orlow. University of Westminster, London, United Kingdom. *Lecture*. March 2015.

Shibase, T.  
Mr T Shibase. University of KwaZulu-Natal (UKZN), Durban, South Africa. *Visiting artist*. July 2015.

## International Visits

De Jager, M.S.  
De Jager, M.S. Kingston University, London, United Kingdom. *PhD Research training*. 2 - 9 October 2015.

Khan, S.  
Khan, S. Rockefeller Centre, New York, United States of America. *International Arts Reviewing*. 28 February - 2 March 2015.

Khan, S. Gyeonggi Cultural Centre, Gyeonggi, South Korea. *International Visual Arts Residency Programme*. 22 June - 21 July 2015.

Khan, S. Rockefeller Centre, New York, United States of America. *International Arts Reviewing*. 27 - 31 July 2015.

## Other Publications

Ball, J.  
Ball, J. (2015) Igshaan Adams Selected Works 2009 - 2015: In conversation with Jennifer Ball. In: Cronjé, C., Garnham, J. and Lewis, H. (eds.). *Igshaan Adams*. Cape Town: Blank Projects.

Khan, S.  
Khan, S. (2015) I Make Art - Voicing Voice, Speaking Self and Doing Criticality. In: Ryan, M. and Ouellett, M. (eds.). *Reconstruction: Studies in Contemporary Culture*. Canada: Marc Ouellette.

Pelser, M.M.  
Pelser, M.M. (2015) In: Pelser, M.M. (ed.). *The Tierney Fellowship - A*

*Reflection of Photographic Practices 2004 - 2014*. New York: Tierney Family Foundation.

**Simbao, R.**

**Simbao, R.** (2015) Portraits of the deathlessness of cloth: Leonce Raphael Agbodjélou's Egungun Masquerades series. In: *Leonce Raphael Agbodjélou*. Cape Town: SMAC Gallery.

**Simbao, R.** (2015) Cleansing via the Senses as Eyesight Follows the Soul: Igshaan Adams' Bismillah Performance. In: Cronjé, C., Garnham, J. and Hannah, H. (eds.). *Igshaan Adams*. Cape Town: Blank Projects.

**Simbao, R.** (2015) The Nation State (Kudzanai Chiurai). In: van Wyck, R. and Orton, L. (eds.). *The Johannesburg Pavilion, Venice*. Johannesburg: 133 Arts Foundation.

**Thorburn, D.**

**Thorburn, D.** (2015) Dominic Thorburn Hand Portrait. In: *HandBook: South African Artists*. South Africa: Fourthwall Books.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Baasch, R.**

**Baasch, R.** (2015) Guarded visions: walls, watchtowers and warped perspectives in the Israeli occupied West Bank Palestinian territory. *Image and Text*. 25 (2015), p.192-216.

**Ball, J.**

**Ball, J.** (2015) Inkblots and their indices: rethreading perception in the work of Igshaan Adams. *Image and Text*. 25 (2015), p.238-260.

**Simbao, R.**

**Simbao, R.** (2015) What "global art" and current (re)turns fail to see: A modest counter-narrative of "not-another-biennial". *Image and Text*. 25 (2015), p.261-286.

**Simbao, R.** (2015) Editorial: Blind spots: Trickery and the 'opaque stickiness' of seeing. *Image and Text*. 25 (2015), p.175-191.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Khan, S.**

**Khan, S.** Touching and Fondling the Black Body - the Significance of the Blackface Sign in Contemporary South African Visual Arts. *Africa Research Day 2015*. School of Oriental and African Studies, London. United Kingdom. March 2015.

**Khan, S.** Response to S. Khumalo's paper "Manet and Feni in Dialogue". *Art and Social Justice Colloquium*. Albany Museum, Grahamstown. South Africa. September 2015.

**Khan, S.** Touching and Fondling the Black Body - the Significance of the Blackface Sign in Contemporary South African Visual Arts. *The Visual Arts Symposium Emonti 2015*. Walter Sisulu University, East London. South Africa. September 2015.

**Mnyaka, P.**

**Mnyaka, P.** Environment, Race and Land Use plenary discussion. *AUETSA: Environment, Race and Land Use*. Rhodes University, Grahamstown. South Africa. July 2015.

**Mnyaka, P.** Traversing ethical imperatives in academic and ethnographic settings: Stories from the field. *International Society of Critical Health Psychology*. Rhodes University, Grahamstown. South Africa. July 2015.

**Mnyaka, P.** Art and Social Justice. *Art and Social Justice*. Rhodes University, Joza Location, Fingo, Grahamstown. South Africa. July 2015.

**Mnyaka, P.** The first of signs: symbolism and the realm of abandonment. *Red Assembly: Time and Work*. Ann Bryant Art Gallery, East London. South Africa. August 2015.

**Nsele, Z.M.N.**

**Nsele, Z.M.N.** Art and Social Justice. *Art and Social Justice*. Fingo Village, Albany Museum, Grahamstown. South Africa. September 2015.

**Nsele, Z.M.N.** The Nostalgic Turn. *The Visual Arts Symposium*. Walter Sisulu University, East London. South Africa. September 2015.

**Nsele, Z.M.N.** Post-Apartheid Nostalgia, Ethics and the Future of the Visual Archive. *Nostalgia and Disillusionment in the Southern African*

*literary Imaginary*. English Department, Rhodes University, Grahamstown. South Africa. November 2015.

**Simbao, R.**

**Simbao, R.** Learning Sideways: Struggles of 'Africanisation' in the Eurocentric Discipline of Art History (CHERTL). *Rhodes University Teaching and Learning Showcase (CHERTL)*. Institute for the Study of English in Africa, Grahamstown. South Africa. November 2015.

**Simbao, R.** Learning Sideways: Struggles of 'Africanisation' in the Eurocentric Discipline of Art History (AFAL invited plenary). *African Arts Institute conference on African Tertiary Arts Education*. Michaelis School of Art, University of Cape Town, Cape Town. South Africa. December 2015.

**Simbao, R.** 'Africanisation' versus Afrophobia: Diversity as Vitality in South African Art Institutions (invited plenary). *Africa Art, Multi-culture and the Factor X Discourse*. Gallery Noko, Port Elizabeth. South Africa. August 2015.

**Simbao, R.** Decolonising Tertiary Arts Education in Africa (invited plenary with Emma Wolukau-Wanambwa, Maude Dikobe and Mike van Graan). *The European League of Institutes of the Arts (ELIA) Leadership Symposium, 'Dominance, Diversity, Disruption'*. Michaelis School of Art, University of Cape Town, Cape Town. South Africa. January 2015.

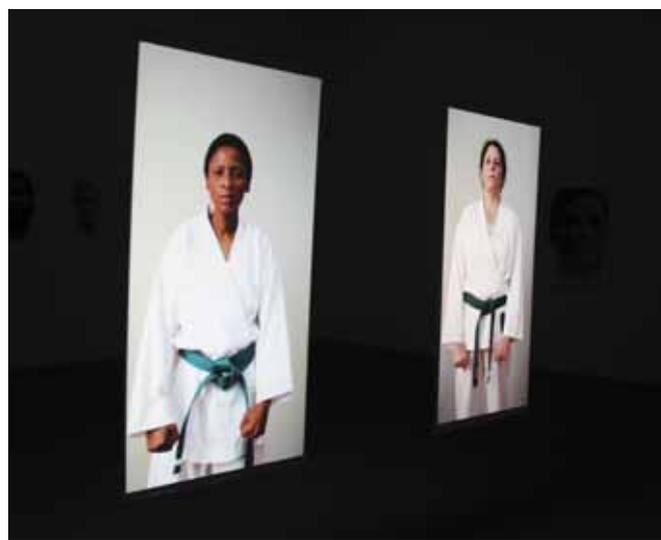
**Simbao, R.** Walking into Africa in a Chinese Way: Mindful Entry as Counterbalance (Plenary talk). *Agence Nationale de la Recherche (ANR) project Espaces de la culture chinoise en Afrique in association with the Congress of the Asia and Pacific Network/Asian Studies Association*. de l'Institut national des langues et civilisations orientales (Inalco), Paris. France. September 2015.

**Thorburn, D.**

**Thorburn, D.** The print is mightier than the sword. *Impact 9 Intentional Printmaking Conference*. China Academy of Art, Hangzhou. China. September 2015.

**Wilmot, C.A.**

**Wilmot, C.A.** Remarkable Territories: Thinking along Lines of Site and Sight in 'Treading Soft Ground'. *Impact 9 International Printmaking Conference*. China Academy of Art, Hangzhou. China. September 2015.



Tanya Poole, installation of 'Thozama and Rose', Galerie M Bochum, Germany, 2015.

Photo: Department of Fine Art

## GEOGRAPHY

Research in the Geography Department is diverse in respect of the subjects being investigated, with an overall focus on developing integrative knowledge about the Earth and its people. Studies extend from the Arctic to the Antarctic, and cover landscapes and the human use of space and resources within such landscapes. The focus is to improve understanding of dynamic complex social and biophysical systems in ways that are relevant globally and to the needs of the African continent. Use of geo-spatial technologies are increasingly becoming one of the main tools supporting research in the modern era, and they are increasingly utilised in research projects. Research topics include the social geography of small towns and rural areas in the Eastern Cape, landscape structure and dynamics, fluvial systems, the distribution, dynamics and sustainability of honeybush and the industry associated with it, glacial and periglacial geomorphology, and the causes and consequences of climate change.



Measurement of streamflow by Laura Bannatyne and Kate Rowntree in the Tsitsa river, Eastern Cape, which forms an important tributary of the Mzimvubu River, a project examining catchment processes that will support catchment restoration aimed to reduce sediment yield in river systems.

*Photo: B. van der Waal*

## Postgraduates / Graduations

Postgraduates in the Department contribute meaningfully to the life and research productivity of the Department. Honours student, Kathleen Vowles, won best speaker prize at the student conference of the Society of South African Geography, at which research results were presented. Lindie Smith-Adao successfully read for her PhD, while Camilla Kotze, Luveshni Odayar and Elizabeth Rudolph successfully completed their MSc degrees.

## Distinguished Visitors / International Visits

The Department of Geography hosted several international guests during 2015. Professor Thembela Kepe (Toronto) was generously funded by the Andrew W. Mellon Foundation for a number of visits investigating land reform, land use conflicts, small town and rural development issues in the Eastern Cape.

Several existing collaborations continued as follows: Professor Per Assmo visited Rhodes University as part of a Linnaeus Palme

Programme project, and Dr Arthur Horowitz (US Geological Survey) visited to support research in the field of catchment and fluvial systems. **Emeritus Professor Kate Rowntree** and **Professor Roddy Fox** visited Sweden as part of a long-term collaboration funded by the Linnaeus-Palme Programme.

Professor Fox collaborated with two Finnish counterparts, Ms Johanna Ollila and Ms Johanna Kärki of the University of Turku, Finland Futures Research Centre, on a Southern Africa Nordic Centre (SANORD) project '*Sustainability Education for Southern Africa*'. The Finnish partners visited the Department in February 2015 and collaborative papers on progress with educational simulation were presented at the SANORD conference held at the Namibia University of Science and Technology, Windhoek, in December 2015. The project is continuing into 2016.

**Dr Simon Pulley** continued to be one of the most active researchers in the Department as a Postdoctoral Research

Fellow, working with Professors Kate Rowntree and Fred Ellery.

**Professor Kevin Hall** from the University of Northern British Columbia was funded by a Scientific Committee on Antarctic Research (SCAR) Visiting Professorship, and he contributed to Departmental activities in May 2015 through lectures and on the importance of Antarctic Research and hosting a writing workshop for six (6) Postgraduate students involved in Antarctic Research.

Professor Etienne Nel, based at Otago University in New Zealand, visited the Department in December 2015, and will be here until January 2016, participating in research field excursions in the Langkloof in which opportunities for local economic development associated with the honeybush industry were investigated.

## Books/Chapters/Monographs

**Assmo, P. and Fox, R.C.**

**Assmo, P. and Fox, R.C.** (2015) International collaboration for pedagogical innovation: Understanding multiracial interaction through a time-geographic appraisal. In: Halvorsen, T., Ibsen, H. and M'kumbuzi, V.R.P. (eds.). *Knowledge for a Sustainable World: A Southern African-Nordic Contribution*. Cape Town: African Minds. p.207-226. ISBN: 9781928331049.

**Hooke, J.**

**Hooke, J. and Mant, J.** (2015) Morphological and vegetation variations in response to flow events in rambla channels of SE Spain. In: Dykes, A.P., Mulligan, M. and Wainwright, J. (eds.). *Monitoring and Modelling Dynamic Environments: (A Festschrift in Memory of Professor John B. Thornes)*. America: John Wiley & Sons. p.61-97. ISBN: 9780470711217.

## Other Publications

**Fox, R.C.**

**Fox, R.C.** (2015). In: *Symmetry in Nature*. Grahamstown: EarthBound Africa.

**Lewis, C.**

**Lewis, C.** (2015). In: *Glasbury bells and bellringers*. United Kingdom: The Whiting Society of Ringers.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Cobbing, B.L.**

**Cobbing, J.E., Eales, K., Gibson, J., Lenkoe, K. and Cobbing, B.L.** (2015) Operation and Maintenance (O&M) and the Perceived Unreliability of Domestic Groundwater Supplies in South Africa. *South African Journal of Geology*. 118 (1). p.17-32.

**Ellery, F.**

**Sieben, E.J.J., Ellery, F., Dullo, B.W. and Grootjans, A.P.** (2015) Impact of marine inundation after a period of drought on the lakeshore vegetation of Lake St Lucia, South Africa: resilience of estuarine vegetation. *African Journal of Aquatic Science*. 40 (2). p.175-185.

**Foster, I.**

**Boardman, J., Favis-Mortlock, D. and Foster, I.** (2015) A 13-year record of erosion on badland sites in the Karoo, South Africa. *Earth Surface Processes and Landforms*. 40 (2015). p.1964-1981.

**Silva-Sanchez, N., Schofield, J.E., Mighall, T.M., Martinez Cortizas, A., Edwards, K.J. and Foster, I.** (2015) Climate changes, lead pollution and soil erosion in south Greenland over the past 700 years. *Quaternary Research*. 84 (2015). p.159-173.

**Evans, R., Collins, A.L., Foster, I., Rickson, R.J., Anthony, S.G., Brewer, T., Deeks, L., Newell-Price, J.P., Truckell, I.G. and Zhang, Y.** (2015) Extent, frequency and rate of water erosion of arable land in Britain-benefits and challenges for modelling. *Soil Use and Management*. 2015. p.1-13.

**Foster, I., Rowntree, K. and Ellery, F.**

**Foster, I., Rowntree, K., Ellery, F., Ogrinc, N. and Oldham, C.** (2015)

## Significant Research Aligned Events

Geography Honours students doing the Extended GIS Honours course attended the Environmental Systems Research Institute (ESRI) Africa GIS conference at the ICC in Cape Town. The conference was a large international meeting with world leaders in the industry presenting the latest in global geo-spatial ideas. The event showcased many significant developments made in South Africa in the use of Geo-spatial technology.

**Professor Fred Ellery**

Head of Department



Michael Cohen (*left*) and Wouter van der Walt measuring a range of plant attributes of an individual honeybush plant, in a study of the biogeography and utilization of wild populations of this important commercial plant species.

Photo: G.K. McGregor

Preface: proceedings of the 13th IASWS international conference. *Journal of Soils and Sediments*. 2015. p.2347-2349.

**Hooke, J.**

**Marchamalo, M., Hooke, J. and Sandercock, P.J.** (2015) Flow and Sediment Connectivity in Semi-Arid Landscapes in SE Spain: Patterns and Controls. *Land Degradation and Development*. 2015. p.1-13.

**Hooke, J. and Chen, H.** (2015) Evidence of increase in woody vegetation in a river corridor, Northwest England, 1984-2007. *Journal of Maps*. 2015 (2015). p.1-8.

**Hooke, J.** (2015) Variations in flood magnitude-effect relations and the implications for flood risk assessment and river management. *Geomorphology*. 251 (2015). p.91-107.

**Brierley, G. and Hooke, J.** (2015) Emerging geomorphic approaches to guide river management practices. *Geomorphology*. 251 (2015). p.1-5.

**Dépret, T., Gautier, E., Hooke, J., Grancher, D., Vermoux, C. and Brunstein, D.** (2015) Hydrological controls on the morphogenesis of low-energy meanders (Cher River, France). *Journal of Hydrology*. 531 (2015). p.877-891.



Masters students Gabrielle Ayres and Jessica Rosenfels working on Flarjuven Nunatak, Antarctica.  
Photo: Ian Meiklejohn



Professor Ian Meiklejohn and Masters student Gabrielle Ayres at Lorenzenpiggen Peak, Antarctica.  
Photo: Camilla Kotze

Irvine, P.M., Kepe, T., De Wet, D.T. and Hamunime, N.P.  
Irvine, P.M., Kepe, T., De Wet, D.T. and Hamunime, N.P. (2015) Whose Mecca? Divergent experiences of post-productivism and tourism in Nieu Bethesda, South Africa. *South African Geographical Journal*. 2015 (2015). p.1-16.

Kepe, T.  
Bersaglio, B., Enns, C. and Kepe, T. (2015) Youth under construction: the United Nations' representations of youth in the global conversation on the post-2015 development agenda. *Canadian Journal of Development Studies- Revue Canadienne D Etudes Du Developpement*. 36 (1). p.57-71.

Kepe, T., Mcgregor, G. and Irvine, P.M.  
Kepe, T., Mcgregor, G. and Irvine, P.M. (2015) Rights of 'passage' and contested land use: Gendered conflict over urban space during ritual performance in South Africa. *Applied Geograph*. 57 (2015). p.91-99.

Pulley, S. and Foster, I.  
Pulley, S., Foster, I. and Antunes, P. (2015) The dynamics of sediment-associated contaminants over a transition from drought to multiple flood events in a lowland UK catchment. *Hydrological Processes*. 2015. p.1-16.

Pulley, S., Foster, I. and Antunes, P. (2015) The application of sediment fingerprinting to floodplain and lake sediment cores: assumptions and uncertainties evaluated through case studies in the Nene Basin, United Kingdom. *Journal of Soils and Sediments*. 10 (2015). p.2132-2154.

Pulley, S., Foster, I. and Antunes, P. (2015) The uncertainties associated with sediment fingerprinting suspended and recently deposited fluvial sediment in the Nene river basin. *Geomorphology*. 228 (2015). p.303-319.

Pulley, S., Rowntree, K. and Foster, I.  
Pulley, S., Rowntree, K. and Foster, I. (2015) Conservatism of mineral magnetic signatures in farm dam sediments in the South African Karoo: the potential effects of particle size and post-depositional diagenesis. *Journal of Soils and Sediments*. 15 (2015). p.2387-2397.

Van Der Waal, B., Rowntree, K. and Pulley, S.  
Van Der Waal, B., Rowntree, K. and Pulley, S. (2015) Flood bench chronology and sediment source tracing in the upper Thina catchment, South Africa: the role of transformed landscape connectivity. *Journal of Soils and Sediments*. 15 (2015). p.2398-2411.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Ellery, F.  
Lidzhegu, Z., Mantel, S.K. and Ellery, F. Classification of large wetlands Africa's elevated drylands based on their structure and formation using Earth Observation (EO) approaches. *16th WaterNet/WARFSA/GWP-SA Symposium*. Le Meridien Ile Maurice Hotel. Mauritius. October 2015.

## DEPARTMENT OF

# GEOLOGY

The year 2015 turned out to be another transitional year for the Department of Geology. Firstly, Geology experienced a second consecutive year of significant and unexpected growth in undergraduate student numbers, manifested as a 100% increase in both second and third year class sizes since about three years before.



Third year Geology students amidst outcrops of eroded dolomite, Northern Cape.

*Photo: Department of Geology*

At the same time, staff departures for a variety of reasons left us with five (5) vacant academic and senior administrative and analytical posts (out of eight (8), in total) to commence 2015. This combination presented the department with many challenges, in the face of which the department has nonetheless maintained a stable research output in terms of Postgraduate research student development, undergraduate training, and research breadth.

The rebuilding process continues, with hopes that a diverse and forward-looking staff complement will lead us into the next decade.

## Postgraduates / Graduations

At the 2015 graduation ceremony, the Department graduated two (2) research MSc students and six (6) MSc graduates from the department's prestigious Exploration Geology MSc programme, down a bit from 2014 but nonetheless one of our largest ever Postgraduate graduating classes.

In addition, the Department graduated eight (8) Honours and fourteen (14) BSc students, including two (2) from each of these classes having achieved Distinctions in Geology, possibly our most Distinctions at one graduation to date.

## Distinguished Visitors / International Visits

Dr Stephen Prevec was invited to contribute as a speaker and session co-convenor at the meeting of the quadrennial international PACRIM Congress, held in Hong Kong (China) in March 2015. The meeting also included a field trip to Sichuan Province, where Dr Prevec and some of his colleagues were appointed as Visiting Professors at Panzhihua University, where Dr Prevec then contributed a public lecture on the economic geology of South Africa.

In late 2015, Professor Tsikos and a research student (Mr X. Mhlanga) spent time as visiting researchers at the University of California at Riverside (United States of America), as part of an ongoing collaboration with collaborators there under NASA's Astrobiology Program "Alternative Earths", and towards Mr Mhlanga's ongoing PhD research.

**Professor Stephen Prevec**

Head of Department



## Books/Chapters/Monographs

**Moore, A.E.**

Julian, B.R., Foulger, G.R., Hatfield, O., Jackson, S.E., Simpson, E., Einbeck, J. and **Moore, A.E.** (2015) Hotspots in hindsight. In: Foulger, G.R., Lustriono, M. and King, S.D. (eds.). *The Interdisciplinary Earth: In Honor of Don L. Anderson*. USA: The Geological Society of America. p.105-121. ISBN: 9780813724157.

## Concerts, Exhibitions, Performances, Workshops, Events

**Prevec, R.**

**Prevec, R.** *Centre of Excellence in Palaeosciences Seminar Series*. Evolutionary Studies Institute, Johannesburg. South Africa. 25 August 2015.

## International Visits

**Prevec, S.A.**

**Prevec, S.A.** Panzhihua University, Panzhihua, China. *Field trip and public lecture, appointment as Visiting Professor*. 22 - 26 March 2015.

**Tsikos, C.**

**Tsikos, C.** University of California at Riverside, Riverside, USA. *Collaboration with Professor T.W. Lyons under NASA Astrobiology Program "Alternative Earths"*. 30 November - 23 December 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Marsh, J.S.**

Svensen, H.H., Planke, S., Neumann, E.R., Aarnes, I., **Marsh, J.S.**, Polteau, S., Harstad, C.H. and Chevallier, L. (2015) Sub-Volcanic Intrusions and the Link to Global Climatic and Environmental Changes. *Advances in Volcanology*. 2015 (2015). p.1-24.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Buttner, S.H.**

Bial, J., **Buttner, S.H.** and Frei, D. (2015) Formation and emplacement of two contrasting late-Mesoproterozoic magma types in the central Namaqua Metamorphic Complex (South Africa, Namibia): Evidence from geochemistry and geochronology. *Lithos*. 224-225 (2015). p.272-294.

**Buttner, S.H.** (2015) Comment: "One kilometre-thick ultramylonite, Sierra de Quilmes, Sierras Pampeanas, NW Argentina" by M.A. Finch, R.F. Weinberg, M.G. Fuentes, P. Haslova, and R. Becchio, *Journal of Structural*

Third year Geology students describing diamond drill core at a manganese mine, Northern Cape.

*Photo: Department of Geology*

Geology 72(2015) 33-54. *Journal of Structural Geology*. 76 (2015). p.80-83.

Bial, J., **Buttner, S.H.**, Schenk, V. and Appel, P. (2015) The long-term high-temperature history of the central Namaqua Metamorphic Complex: Evidence for a Mesoproterozoic continental back-arc in southern Africa. *Precambrian Research*. 268 (2015). p.243-278.

**Marsh, J.S.**

Harris, C., le Roux, P., Cochrane, R., Martin, L., Duncan, A.R., **Marsh, J.S.**, le Roex, A.P. and Class, C. (2015) The oxygen isotope composition of Karoo and Etendeka picrites: High  $\delta^{18}O$  mantle or crustal contamination? *Contributions to Mineralogy and Petrology*. 170 (8). p.1-24.

**Moore, A.E.**

Key, R.M., Cotterill, F.P.D. and **Moore, A.E.** (2015) The Zambezi River: An Archive Of Tectonic Events Linked To The Amalgamation And Disruption Of Gondwana And Subsequent Evolution Of The African Plate. *South African Journal of Geology*. 118.4 (2015). p.425-438.

**Moore, A.E.**, Cotterill, F.P.D., Winterbach, C.W., Winterbach, H.E.K., Antunes, A. and O'Brien, S.J. (2015) Genetic Evidence for Contrasting Wetland and Savannah Habitat Specializations in Different Population of Lions (*Panthera leo*). *Journal of Heredity*. 2015 (2015). p.1-3.

**Prevec, R.**

Bordy, E.M. and **Prevec, R.** (2015) Lithostratigraphy of the Emakwezini Formation, (Karoo Supergroup), South Africa. *South African Journal of Geology*. 118 (3). p.307-310.

Muir, R.A., Bordy, E.M. and **Prevec, R.** (2015) Lower Cretaceous deposit reveals first evidence of a post-wildfire debris flow in the Kirkwood Formation, Algoa Basin, Eastern Cape, South Africa. *Cretaceous Research*. 56 (2015). p.161-179.

**Tsikos, C.**

Gambacorta, G., Jenkyns, H.C., Russo, F., **Tsikos, C.**, Wilson, P.A., Faucher, G. and Erba, E. (2015) Carbon- and oxygen-isotope records of mid-Cretaceous Tethyan pelagic sequences from the Umbria-Marche and Belluno Basins (Italy). *Newsletters on Stratigraphy*. 48 (3). p.299-323.

## Peer-reviewed Proceedings

**Prevec, S.A.**

**Prevec, S.A.** Chromite and PGE coprecipitation by crustal contamination or magma mixing revisited: genetic and exploration implications. *PACRIM 2015*. Conrad Hotel, Hong Kong. China. March 2015.



Dr Eugene Grosch was a newly appointed staff member in the Department of Geology in 2015

Photo: Nicola Mcloughlin

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Iorga-Pavel, A., Costin, G. and Prevec, S.A.**

**Iorga-Pavel, A., Costin, G. and Prevec, S.A.** Comparative study of the petrogenesis of the Main Magnetite Layer in the Northern, Eastern & Western Lobes of the Bushveld Complex. *Igneous and Metamorphic Studies Group 7th Annual Conference (IMSG)*. University of Pretoria, Pretoria, South Africa. January 2015.

**Mhlanga, X.R. and Tsikos, C.**

**Mhlanga, X.R., Tsikos, C., Boyce, A. and Lyons, T.W.** Primary Iron- and Manganese-Carbonate Deposition in the Palaeoproterozoic Hotazel Formation, South Africa, and Implications for the Great Oxidation Event. *AGU Fall 2015*. Mosconi Center, San Francisco. United States of America. December 2015.

**Ntsaluba, B.I. and Prevec, S.A.**

**Ntsaluba, B.I. and Prevec, S.A.** The petrogenesis of the Mount Ayliff Complex and its genetic relationship to the Karoo Igneous Province: Evidence from Cr spinel mineral geochemistry. *Origin and Evolution of the Cape Mountains and Karoo Basin*. Nelson Mandela Metropolitan University (NMMU), Port Elizabeth. South Africa. November 2015.

**Ntsaluba, B.I. and Prevec, S.A.** Petrogenesis of the Mount Ayliff Complex, Eastern Cape: evidence from metal distribution across lobes. Pretoria, South Africa. *Igneous and Metamorphic Studies Group 7th Annual Conference (IMSG)*. University of Pretoria, Pretoria. South Africa. January 2015.

**Oonk, P.B.H. and Tsikos, C.**

**Oonk, P.B.H., Tsikos, C., Mason, P.R.D., Staubwasser, M. and Henkel, S.** Sequential Extraction for Palaeoproterozoic BIF and Implications. *Goldschmidt 2015*. Congress Center, Prague. Czech Republic. August 2015.

**Papadopoulos, V. and Tsikos, C.**

**Papadopoulos, V., Tsikos, C., Smith, B. and Harris, C.** Mineralogy, Geochemistry and Origin of the Manganore Iron Formation, Transvaal Supergroup, RSA. *Goldschmidt 2015*. Congress Center, Prague. Czech Republic. August 2015.

**Prevec, R.**

**Prevec, R.** Glossopteris floras of South Africa: an untapped biostratigraphic resource or a lost cause? *Origin and Evolution of the Cape Mountains and Karoo Basin*. NMMU, Port Elizabeth. South Africa. November 2015.

**Prevec, R.** The morphological diversity of South African glossopterid fructifications, and implications for their homologies and evolution. *International Conference on Current Perspectives and Emerging Issues in Gondwana Evolution*. Birbal Sahni Institute for Palaeobotany, Lucknow. India. February 2015.

**Rafuza, S., Tsikos, C. and Oonk, P.B.H.**

**Rafuza, S., Tsikos, C., Oonk, P.B.H., Boyce, A. and Grocke, D.E.** Banded

**Iron-Formation Carbonates: Diagenetic Proxies or Records of Primary Water-Column Processes? *Goldschmidt 2015***. Congress Center, Prague. Czech Republic. August 2015.

**Reid, W.K., Buttner, S.H. and Cranswick, R.V.**

**Reid, W.K., Buttner, S.H., Cranswick, R.V., Erasmus, R. and Glodny, J.** Fluid inclusion systematics in the Twangiza-Namoya Gold Belt, eastern DRC. *Igneous and Metamorphic Studies Group Meeting 2015*. University of Pretoria, Pretoria. South Africa. January 2015.

## HISTORY

The Department of History continues to produce a wide-range of work that reflects the broad array of interests of staff members and Postgraduate students.



## Postgraduates / Graduations

During 2015 there were a total of twenty-seven (27) Postgraduate students registered in the Department. This number comprised twelve (12) PhDs, eleven (11) MAs and four (4) Honours students.

Two PhDs were awarded in 2015. Tessa Edlmann's thesis was titled, "*Negotiating historical continuities in contested narrative terrain: A narrative-based reflection on the post-apartheid psychological legacies of conscription into the South African Defence Force*", supervised by Professors Gary Baines and co-supervised by Lindy Wilbraham (Department of Psychology). Simone Kerseboom's dissertation was on "*Pitied plumage and dying birds. The public mourning of national heroines and post-apartheid foundational mythology construction*", and was supervised by Professor Gary Baines.

Honours graduate, Gemma Barkhuizen, was the recipient of the prestigious Flanagan Scholarship and will read for an MA at Durham University in the United Kingdom.

## Distinguished Visitors / International Visits

The Department hosted Distinguished Visiting Professor, Peter Linebaugh, from 22 July to 1 September 2015. A world-renowned historian, Linebaugh is perhaps best known as the co-author (with Marcus Rediker) of *The Many Headed Hydra: Sailors, Slaves, Commoners and the Hidden History of the Revolutionary Atlantic* (2000). As is evident from the citations in the report below, Professor Linebaugh had a hectic schedule of public lectures and other engagements, that included presentations to the Departments of History at the University of Cape Town (UCT) and Stellenbosch, as well as the WITS History Workshop.

Professor Peter Linebaugh (4th from left) with Rhodes University staff at a well-attended public talk titled 'Liberties and Commons for All! Reclaiming the Magna Carta from below 800 years later', hosted by the Department of History, NALSU, and the International Office.

Photo: Valance Wessels

Linebaugh still managed to find time to finish a draft on his new book that attempts to develop the concept of the commons and promises to be a significant contribution to their field of social and labour history.

Professor Gary Baines was invited as a Visiting Professor to the University of Toulouse - Jean Jaurès, France where he taught classes on South African history and literature. He also presented the keynote address at a conference called '*Remembering the Struggle: South Africa, Apartheid and After*' on the same campus.

Craig Paterson, a PhD student, presented a paper at a Law Conference at Cambridge University in July 2015.

## Significant Research Aligned Events

Professor Linebaugh's participation in an interdisciplinary Postgraduate workshop '*Class, Colonialism and the Commons: the case of Southern Africa*' generated significant interest amongst Rhodes staff, Postgraduates and community intellectuals. Participants agreed to establish a broad network of people interested in work on the commons and to develop papers for publication (a possible book and a series of more popular articles).

**Professor Gary Baines**

Head of Department

## Books/Chapters/Monographs

**Suttner, R.S.**

**Suttner, R.S.** (2015) *Recovering Democracy in South Africa*. Johannesburg: Jacana. ISBN: 9781431421589.

## Concerts, Exhibitions, Performances, Workshops, Events

**Mkhize, N.**

**Mkhize, N.** Presenter. Locating spatial transformation in the urban land question. *Urban land working paper series*. Johannesburg. South Africa. 5 February 2015.

**Ulrich, N.**

**Ulrich, N.** and Van Der Walt, L.J.W. Presentation. *A Historical Perspective on the South African Labour Movement and the National Question*. Vuyisile Mini Winter School, Neil Aggett Labour Unit. Rhodes University, Grahamstown. South Africa. 15 - 18 July 2015.

## International Visits

**Baines, G.F.**

**Baines, G.F.** University of Toulouse - Jean Jaurès, Toulouse, France. *Visiting Professor*. 26 March - 26 April 2015.

## Other Publications

**Baines, G.F.**

**Baines, G.F.** (2015) Book Review. In: Wassermann, J. (ed.). *Jan Breytenbach, Forged in Battle: The Birth and Growth of 32 Battalion from former Enemies and Terrorists into Decorated Soldiers*. Pretoria: Historical Association of South Africa.

**Mkhize, N.**

**Mkhize, N.** (2015) The Politics of Urban Land and Ownership: Locating spatial transformation in the urban land question. In: *South African Cities Network: The Urban Land Paper Series, Vol 1*.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Baines, G.F.**

**Baines, G.F.** (2015) SADF soliders' silences: institutional, consensual and strategic. *Acta Academica*. 47 (1). p.78-97.

**Jagarnath, V.**

**Jagarnath, V.** (2015) Book Review: The Hidden History of South Africa's Book and Reading Culture. By Archie L. Dick. Pietermaritzburg, UKZN Press; Toronto, University of Toronto Press, 2012. ix + 196 pp. ISBN 978 1 869 14247 6; 978 1 442 64289 8. *South African Historical Journal*. 67 (2). p.242-253.

**Suttner, R.S.**

**Suttner, R.S.** (2015) The Freedom Charter @ 60: Rethinking its Democratic Qualities. *Historia*. 60 (2). p.1-23.

**Ulrich, N.**

**Ulrich, N.** (2015) Cape of storms: Surveying and rethinking popular resistance in the eighteenth-century Cape colony. *New Contree*. 73 (2015). p.16-39.

## Peer-reviewed Proceedings

**Paterson, C.J.**

**Paterson, C.J.** Old Worlds for New: Historians, "Usable" History and Political Redress in Post-Apartheid South Africa. *Law Conference 2015*. University of Cambridge, Cambridge. United Kingdom. July 2015.



Professor Peter Linebaugh and Dr Maria van Driel, at the 'Commons, Class and Colonialism Workshop', hosted by the History Department, funded by the Research Office.

Photo: Lucien van der Walt

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Baines, G.F.**

**Baines, G.F.** Soldiers' Nostalgia: SADF Veterans' Narratives of Belonging and Loss. *'Memory, Melancholy and Nostalgia'*. 4th International Interdisciplinary Conference. Gdansk University, Gdansk. Poland. September 2015.

**Baines, G.F.** Keynote Address: 'Memory Work and Memory Wars in Post-Reconciliation South Africa'. *Re-membering the Struggle: South Africa, Apartheid and After*. University of Toulouse - Jean Jaurès, Toulouse. France. April 2015.

**Baines, G.F.** Authority and Authenticity in the Writings of SADF Soldier-Authors about the Border War. *25th Anniversary Conference of the Southern African Historical Society*. University of Stellenbosch, Stellenbosch. South Africa. July 2015.

**Kirkaldy, A.**

**Kirkaldy, A.** "'Ordinary Communists': The Lives of Evan and Lesley Scherbrucker". *25th Anniversary Conference of the Southern African Historical Society*. University of Stellenbosch, Stellenbosch. South Africa. July 2015.

**Linebaugh, P.**

**Linebaugh, P.** The Origin of the "Special Relationship". *History Department Seminar Series*. University of Cape Town, Cape Town. South Africa. August 2015.

**Linebaugh, P.** Contesting Prisons and Police Violence: What Can We Learn from History? *ILRIG Public Workshop International Labour Research and Information Group (ILRIG)*. Community House, Cape Town. South Africa. August 2015.

**Linebaugh, P.** Magna Carta Anniversary Lecture: "Liberties and Commons for All!" Reclaiming the Magna Carta from Below 800 Years Later. *Neil Aggett Labour Studies Seminar Series*. Rhodes University, Grahamstown. South Africa. July 2015.

**Linebaugh, P.** The Goose and the Commons. *Class, Colonialism and the Commons: The Case of Southern Africa*. Rhodes University, Grahamstown. South Africa. August 2015.

**Linebaugh, P.** Geological Change, History and the Underground of the Working Class Movement. *History Departmental Seminar series*. Stellenbosch University, Stellenbosch. South Africa. August 2015.

**Linebaugh, P.** On the Origin of the "Special Relationship". *NRF (SARCHI) Chair in Local Histories, Present Realities Seminar Series*. University of the Witwatersrand, Johannesburg. South Africa. August 2015.



**Mkhize, N.**

**Mkhize, N.** Interrogating the concept of 'paternalism' in South African literature on farm workers; what can we learn from the Americas?

*Trajectories of modernity; Towards a new historical-comparative sociology.* Universidad de Barcelona, Barcelona. Spain. October 2015.

**Mkhize, N., Magoqwana, B. and Mohoto, L.** Critiquing Intellectualism: Towards Building an Intellectualising Political Culture. *Intellectuals and Popular Struggles. A Colloquium of Engaged Scholarship.* University of Cape Town, Cape Town. South Africa. September 2015.

**Mkhize, N.** 'The liking of things': Consumption as urban phantasmagoria in Black South African life. *Red Assembly: Time and Work.* University of Fort Hare, East London. South Africa. August 2015.

**Mkhize, N.** "A Boer's House is Not a Home": Historical migration and urbanisation by farm workers in a South African semi-arid district, 1900 - 2010. *Southern African Historical Society 25th Biennial Conference - 'Unsettling Stories and Unstable Subjects'.* Stellenbosch University, Stellenbosch. South Africa. July 2015.

**Paterson, C.J.**

**Paterson, C.J.** Culture as Commons and the Expropriation of Everyday Life. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium.* Rhodes University, Grahamstown. South Africa. August 2015.

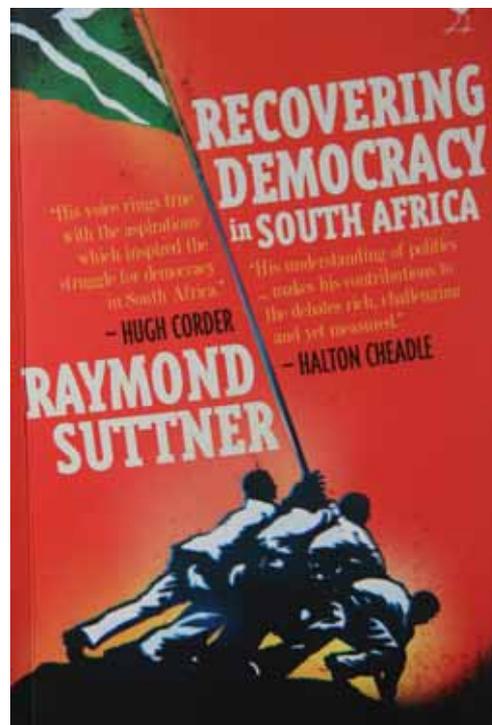
**Ulrich, N.**

**Ulrich, N.** Introducing Class, Colonialism and the Commons. *Class, Colonialism and the Commons: The Case of Southern Africa.* Rhodes University, Grahamstown. South Africa. August 2015.

**Van Der Walt, L.J.W. and Ulrich, N.** Red, Black and Gold: FOSATU, South African 'Workerism,' 'Syndicalism' and the Nation. *Hidden Voices: The Unresolved National Question in Left Thinking workshop.* COSATU House, Johannesburg. South Africa. May 2015.

The first event organised by the newly-formed *Isikhumbuzo Applied History Unit* was a session with Pieter Dirk Uys (3rd from left) at the Dakawa Arts Centre on 'The Role of Comedy in Dealing with a Painful Past', 6 July 2015.

Photo: Professor Julie Wells



*Recovering Democracy in South Africa*, authored by Visiting Professor in the Department of History, Professor Raymond Suttner.

Photo: Tarryn Gillitt

# HUMAN KINETICS AND ERGONOMICS

At the end of 2015 the department bid farewell to Professor Matthias Goebel who has been a member of staff since 2006 and served two (2) terms as Head of Department. Professor Goebel is returning to his home country, Germany, to be closer to his family. The department wishes him well and will miss his insights and contributions.

## Introduction

**Andrew Todd** was elected onto the International Ergonomics Association (IEA) executive committee and will serve a three (3) year term. The last time the department, and indeed South Africa, had a position on the executive was by Professor Pat Scott.

**Dr Swantje Zschoernack** spent six (6) months at Tongji University in China as a visiting lecturer as part of her sabbatical in the first half of 2015.

## Postgraduates / Graduations

The highlight for our Postgraduates was the fact that six (6) of them were honoured for their research publications at a dinner hosted by the Vice-Chancellor, Dr Mabizela - these students included Jonathan Davy, Robert Jones, Travis Steenekamp, Ethan Berndt and Ben Ryan who have all produced at least one (1) journal publication and/or won a best paper award at a conference.

Particularly noteworthy is that PhD candidate, Lee Pote, was acknowledged for two (2) journal publications - one at the end of 2014 and, the other, at the beginning of 2015.

David Goble won the best student paper at the South African Sports Medicine Association Congress which was held in Johannesburg for work relating to his PhD. Other Human Kinetics and Ergonomics (HKE) Postgraduates who presented at this conference include PhD candidates Lee Pote and Robert Jones and MSc students Matthew Clark, Jessie Pearson, Stacy Nelleman and Ben Ryan.

Jonathan Davy also won best paper at the 2nd African Symposium on Human Factors and Aviation Safety. The conference was also attended by Zandi Hoyi, an MSc student and Dr Zschoernack.

Dr Janet Viljoen, our Postdoctoral Research Fellow, and Jessie Pearson (MSc student) presented their work at the Biennial Congress of the International Society of Health Psychology which was held here in Grahamstown. Dr Viljoen also presented at the Young Scientists conference.

## Distinguished Visitors / International Visits

The department had the pleasure of hosting Professor Julia Goedecke and Dr James Brown who presented at our research seminars. Professor Goedecke works for the Medical Research Council of South Africa and for the Exercise Science and Sports Medicine (ESSM) Research Unit at the University of Cape Town. Dr Brown is a Postdoctoral Research Fellow at ESSM. Professor Goedecke



MSc student Ben Ryan carrying research for his project 'Efficacy of a community based eccentric hamstring strengthening program in peri-urban black South African soccer players'

Photo: Department of Human Kinetics and Ergonomics

presented on ethnic differences and obesity while Dr Brown presented on injuries within Rugby Union.

## Significant Research Aligned Events

The department produced three (3) peer-reviewed journal publications all co-authored with Postgraduate students. We were also widely represented at various national and international conferences also with a large student contingent.

Professor Christie, Lee Pote and David Goble all presented papers at the World Congress of Science and Medicine in Cricket which was held just prior to the Cricket World Cup in Sydney, Australia. Professor Christie was also invited to present on injury statistics within South African cricket at a pre-congress workshop where representatives from each cricket playing country presented their injury statistics. The conference was preceded by a research visit to Professor Frank Marino's laboratory at Charles Sturt University in Bathurst, New South Wales. The three were fortunate to attend a quarter final, semi-final and the final game of the Cricket World Cup.

Professor Goebel, Dr Zschoernack and Miriam Mattison all presented papers at the International Ergonomics Association Congress which was held in Melbourne, Australia.

Andrew Todd presented at the International Conference on Humanizing Work and Work Environment in Mumbai, India in December 2015 as part of his work for the IEA.

## Professor Candice Christie

Head of Department

Staff members Jonathan Davy and Dr Swantje Zschoernack, with MSc student Zandile Hoyi, presented at the Second African Symposium on Human Factors in Aviation Safety, with Jonathan Davies winning the Best Paper Award.

*Photo: Department of Human Kinetics and Ergonomics*



## Peer Reviewed Subsidy-Earning Journal Research Publications

**Jones, R.I., Ryan, B. and Todd, A.I.**

**Jones, R.I., Ryan, B. and Todd, A.I.** (2015) Muscle fatigue induced by a soccer match-play simulation in amateur Black South African players. *Journal of Sports Sciences*. 2015. p.1-7.

**Pote, L. and Christie, C.J.**

**Pote, L. and Christie, C.J.** (2015) Selected physiological and perceptual responses during a simulated limited overs century in non-elite batsmen. *European Journal of Sport Science*. 2015 (2015). p.1-7.

**Viljoen, J.E. and Christie, C.J.**

**Viljoen, J.E. and Christie, C.J.** (2015) The change in motivating factors influencing commencement, adherence and retention to a supervised resistance training programme in previously sedentary post-menopausal women: a prospective cohort study. *BMC Public Health*. 15 (236). p.1-8.

## Peer-reviewed Proceedings

**Todd, A.I.**

**Todd, A.I.** Changing perspectives: Why the singular understanding of ergonomics in IDCs is hurting its development. *International Conference on Humanizing Work and Work Environment 2015 at the 13th Indian Society of Ergonomics Annual Convention*. Indian Institute of Technology, Bombay, Mumbai, India. December 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Christie, C.J. and Elliott, A.**

**Christie, C.J. and Elliott, A.** Impact of batting skill on pacing during repeated sprints between the wickets. *5th World Conference of Science and Medicine in Cricket*. ICC, Sydney, Australia. March 2015.

**Christie, C.J., Clark, M.E., Goble, D. and Pote, L.**

**Christie, C.J., Clark, M.E., Goble, D. and Pote, L.** Injury statistics of South African cricket players. Invited guest speaker. *5th World Conference of Science and Medicine in Cricket*. ICC, Sydney, Australia. March 2015.

**Clark, M.E. and Christie, C.J.**

**Clark, M.E. and Christie, C.J.** The effectiveness of constraints-led Intervention training on skill development in interceptive sports: a systematic review. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg, South Africa. October 2015.

**Davy, J.P.**

**Davy, J.P.** Managing fatigue in aviation: it's about focusing on the human. *2nd African Symposium on Human Factors and Aviation Safety*. Protea Fire and Ice, Cape Town, South Africa. September 2015.

**Davy, J.P., Proud, L.L., Jager, C.R.L. and Rader, G.S.V.**

**Davy, J.P., Proud, L.L., Jager, C.R.L., Rader, G.S.V. and Westaway, A.** The Joza Physical Education Project: engaging with the community through movement. *Community Engaged Learning Symposium*. Gavin Relly Postgraduate Village, Rhodes University, Grahamstown. South Africa. May 2015.

**Gobel, M.**

**Gobel, M.** Neuro-ergonomics and Human Factors in Complex System Design. Keynote speaker. *International Symposium of Sport Science, Engineering and Technology*. Istanbul Technical University, Istanbul, Turkey. May 2015.

**Gobel, M.** Establishment of professional certification in ergonomics in an industrially developing country. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne, Australia. August 2015.

**Gobel, M.** Western management styles and African culture on misfits in industrial organization in Southern Africa. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne, Australia. August 2015.

**Gobel, M. and Rader, G.S.V.**

**Gobel, M. and Rader, G.S.V.** Passengers' safety and behaviour communication for domestic and regional flights in Africa. *2nd African Symposium on Human Factors and Aviation Safety*. Protea Fire and Ice, Cape Town, South Africa. September 2015.

**Gobel, M. and Schmidtke, N.J.**

**Gobel, M. and Schmidtke, N.J.** The impact of quality of fluorescent light tubes on performance, work strain and well-being of office workers. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne, Australia. August 2015.

**Goble, D. and Christie, C.J.**

**Goble, D. and Christie, C.J.** An investigation into the Cognitive dynamics of batting: measurement of information processing in amateur cricket batsmen. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg, South Africa. October 2015.

**Goble, D. and Christie, C.J.** The effects of a 30 over simulated batting protocol on cognitive performance: a holistic approach. *5th World Conference of Science and Medicine in Cricket*. ICC, Sydney, Australia. March 2015.

**Hoyi, Z. and Gobel, M.**

**Hoyi, Z. and Gobel, M.** The alertness of pilots during semi-automated flights. *2nd African Symposium on Human Factors and Aviation Safety*. Protea Fire and Ice, Cape Town, South Africa. September 2015.

**Jones, R.I., Todd, A.I. and Christie, C.J.**

**Jones, R.I., Todd, A.I. and Christie, C.J.** Ethnicity: A key risk factor for hamstring injuries. *19th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg, South Africa. October 2015.

**Mattison, M.C. and Basse-Duke, E.M.**

**Mattison, M.C. and Basse-Duke, E.M.** The importance of combined field and laboratory research for effective ergonomics interventions: an example from the citrus industry in South Africa. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and



PhD student David Goble conducting research on his project *Prolonged batting impairs information processing: an investigation into the cognitive dynamics of a 30-over simulation*  
Photo: Department of Human Kinetics and Ergonomics



ABOVE: MSc student conducting research for her MSc project *Do differences in personality traits affect how drivers experience music at different intensities?*  
Photo: Department of Human Kinetics and Ergonomics

BELOW: Dr Swantje Zschernack presenting at an Interdisciplinary Research Consortium at Tongji University, China, in 2015.  
Photo: Department of Human Kinetics and Ergonomics



Exhibition Centre, Melbourne. Australia. August 2015.

**Nellemann, S.A., Davy, J.P. and Christie, C.J.**

**Nellemann, S.A., Davy, J.P. and Christie, C.J.** A laboratory simulated investigation into the impact of sunglass tint on the catching performance of fielders during cricket. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg. South Africa. October 2015.

**Pearson, J.T.**

**Pearson, J.T., Lambert, E.V. and Micklesfield, L.** A formative assessment of physical activity levels in pregnant women presenting at two public health clinics in Cape Town, South Africa. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg. South Africa. October 2015.

**Pearson, J.T. and Gobel, M.**

**Pearson, J.T. and Gobel, M.** Accommodation and job assignment for impaired workers. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg. South Africa. October 2015.

**Pearson, J.T. and Gobel, M.** Accommodation and job assignment for impaired workers. *International Society of Critical Health Psychology Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Pote, L. and Christie, C.J.**

**Pote, L. and Christie, C.J.** Strength and conditioning practices of University and High school level cricket players: a South African context. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg. South Africa. October 2015.

**Pote, L. and Christie, C.J.** Physiological and perceptual responses of batsmen during a simulated one day international century: Impact on performance. *5th World Conference of Science and Medicine in Cricket*. ICC, Sydney. Australia. March 2015.

**Rensing, S.C., Viljoen, J.E. and Christie, C.J.**

**Rensing, S.C., Viljoen, J.E. and Christie, C.J.** The importance of Banting research and its impact on human health. *International Society of Critical Health Psychology Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Ryan, B. and Todd, A.I.**

**Ryan, B. and Todd, A.I.** The Efficacy of a Community Based Soccer-Specific Hamstring Intervention in Black Amateur South African Players. *16th Biennial congress of the South African Association of Sports Medicine*. Sandton Convention Centre, Johannesburg. South Africa. October 2015.

**Viljoen, J.E. and Christie, C.J.**

**Viljoen, J.E., Dowse, R. and Christie, C.J.** Time Course of Cardiovascular Risk Responses to Progressive Resistance Training Post-Menses. *ASSAF-TWAS-ROSSA Annual Young Scientist Conference*. Birchwood Hotel and Conference Centre, Johannesburg. South Africa. September 2015.

**Viljoen, J.E. and Christie, C.J.** Restricted physical activity research in older women: does this represent additional risk to health? *International*

*Society of Critical Health Psychology Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Viljoen, J.E., Dowse, R. and Christie, C.J.** Time course of cardiovascular risk responses to progressive resistance training post-menses. *International Movement and Nutrition Society*. University of Regensburg, Regensburg, Bavaria. Germany. June 2015.

**Zschernack, S. and Berndt, E.J.**

**Zschernack, S. and Berndt, E.J.** The effect of physiological arousal associated with body posture (standing versus seated) on performance during a vigilance task. *2nd African Symposium on Human Factors and Aviation Safety*. Protea Fire and Ice, Cape Town. South Africa. September 2015.

**Zschernack, S. and Schaefer, P.M.**

**Zschernack, S. and Schaefer, P.M.** The influence of cattle height on the activity of shoulder muscles in veterinarians during rectal palpations. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne. Australia. August 2015.

**Zschernack, S. and Tichiwanhuyi, T.S.**

**Zschernack, S. and Tichiwanhuyi, T.S.** Understanding the cultural disparities in the approaches taken when learning new technology, in form of smartphone usage by Rhodes University students from two different ethnical dispositions. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne. Australia. August 2015.

**Zschernack, S. and Tlhoale, K.C.**

**Zschernack, S. and Tlhoale, K.C.** Understanding the multitask process of eating while driving and its potential effect on driving performance. *19th Triennial Congress of the International Ergonomics Association*. Melbourne Convention and Exhibition Centre, Melbourne. Australia. August 2015.

# ICHTHYOLOGY AND FISHERIES SCIENCE

The Department of Ichthyology and Fisheries Science (DIFS) had an excellent year with seventy-three (73) Postgraduate students presenting their research outputs at the DIFS end of year seminars in 2015. The small staff/Postgraduate-student ratio was made possible due to the strategic partnerships that DIFS has developed over the years, the most significant of which is its association with the South African Institute of Aquatic Biodiversity (SAIAB).



The Honours class on a fieldtrip electrofishing at Rondegat.  
*Photo: Pule Mpopetsi*

The SAIAB research staff participated in thirty (30) of the student research projects in 2015, either as the primary or co-supervisor. In addition to the direct contribution of its staff, it is the strategic relationship that members of the DIFS staff have developed with various national, regional and international institutions, which contributes to the productivity of the department.

Towards the end of the year we welcomed Dr. Wilbert Kadye who has joined the DIFS on a five-year contract, and will be involved in teaching, research and administration.

## Distinguished Visitors / International Visits

Professor Warwick Sauer and Professor Kevern Cochrane visited Brazil as part of a multinational research project on climate change and its impact on fisheries. Professor Sauer also visited Japan for a meeting of the Cephalopod International Advisory Council, and he and Dr Cliff Jones entered into discussions with Dalhousie

University in Canada on future collaborative courses on fisheries and aquaculture.

Professor Warren Potts continued his research work in Angola during the course of 2015, which included collaboration with scientists from the University of Agostinho Neto, the Ministry of Fisheries (Angola) and the University of Tromsø (Norway). His recreational fisheries research continued in collaboration with scientists from Carleton University, Canada and the Humboldt University of Berlin, Germany.

Dr Cliff Jones represented the DIFS at numerous meetings overseas as part of the multi-national/institutional program (South Africa, Uganda, Kenya and Malawi) aimed at improving regional PhD curricula in aquaculture and fisheries science research (EduLink II) and further developed collaborative links when he visited Newcastle University in the United Kingdom (UK). In addition to this, our staff attended numerous international conferences in their various fields of research.

## Significant Research Aligned Events

Professor Warren Potts carried out research into recreational fisheries in collaboration with South Africa's Rock and Surf Super Pro League (RASSPL) and continued with his climate-change work in Angola along with Dr Amber Childs.

Professors Warwick Sauer and Kevern Cochrane continued their fisheries and climate change research in 2015, and Professor Sauer joined the research diving team in Angola for two (2) weeks to assist in the diving operations and conducted field research on squid in St Francis Bay.

Professor Cochrane also worked on fisheries management and policy in South Africa during the year, working with World Wide Fund (WWF) on an economic valuation of the small-scale fishery in Kleinmond and on an analysis of the South African Marine Living Resources Act.

Professor Peter Britz headed his research program into abalone reseeded and developing technologies for freshwater crayfish farming. He also completed a Water Research Commission (WRC) research programme on inland fishery governance and facilitated the drafting of an inland fishing policy for the Department of Agriculture, Forestry and Fisheries. Together with Drs Cliff Jones and Tom Shipton, Professor Britz also continued with their abalone and kob nutrition research programs in collaboration with the abalone and marine finfish farming industries in South Africa, with numerous students based on the farms.

Dr Jones furthered his collaboration (co-supervision of United Kingdom student) with Newcastle University in developing sea cucumber farming technologies. Dr Jones also continued his research into beneficiation of brewery effluent and its linkages with aquaculture and agriculture, and worked closely with colleagues from the Environmental Biotechnology Research Institute (EBRU) on this project. Dr Jones also developed a new collaborative link with Professor Mark Laing (African Centre for Crop Improvement, UKZN).

Professor Horst Kaiser and Dr Clifford Jones carried out various research projects aimed at improving abalone farm technologies (i.e. larval settlement of South African abalone and optimizing



The moment of truth: one year after throwing an intricate part of his PhD project into 60m of Angolan Atlantic ocean, PhD student Alex Winkler wakes it up and asks it to pop to the surface.

Photo: Chenelle de Beer

abalone farm stocking densities), also, in close collaboration with the abalone farming industry. Professor Kaiser continued his collaboration with SAIAB researchers on invasive species behaviour and their functional responses, and this resulted in one publication in 2015. Professor Kaiser also collaborated with Professor Pott's group on research into dusky kob physiology.

Dr Amber Childs continued her research on the movement behaviour and ecology of various estuarine-marine fishes in collaboration with Dr Tor Naesje and Dr Ola Diserud from the Norwegian Institute for Nature Research, Trondheim, Norway, and Professor Cowley and Dr Bennett from SAIAB.

### Professor Warwick Sauer

Head of Department

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

### Colly, P.A.

Huchzermeyer, K.D.A. and Colly, P.A. (2015) Production of Koi Herpesvirus-Free Fish: Implementing Biosecurity Practices on a Working Koi Farm in South Africa. *Journal of Applied Aquaculture*. 27 (2015). p.318-329.

### Filmalter, J.D.

Tolotti, M.T., Filmalter, J.D., Bach, P., Travassos, P., Seret, B. and Dagorn, L. (2015) Banning is not enough: The complexities of ocean shark management by tuna regional fisheries management organizations. *Global Ecology and Conservation*. 4 (2015). p.1-7.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Bennett, R.H. and Childs, A.R.

Bennett, R.H., Cowley, P.D., Childs, A.R. and Naesje, T.F. (2015) Movements and residency of juvenile white steenbras *Lithognathus lithognathus* in a range of contrasting estuaries. *Estuarine Coastal and Shelf Science*. 152 (2015). p.100-108.

### Bokhutlo, T.

Bokhutlo, T., Weyl, O.L.F., Mosepele, K. and Wilson, G.G. (2015) Age and growth of sharptooth catfish, *Clarias gariepinus* (Burchell, 1822) (Clariidae), in the Lower Okavango Delta, Botswana. *Marine and Freshwater Research*. 66 (2015). p.420-428.

### Booth, A.J.

Zengeya, T.A., Booth, A.J. and Chimimba, C.T. (2015) Broad Niche Overlap between Invasive Nile Tilapia *Oreochromis niloticus* and Indigenous Congenerics in Southern Africa: Should We be Concerned? *Entropy* 17 (2015). p.4959-4973.

Smale, M.J., Dicken, M. and Booth, A.J. (2015) Seasonality, behaviour and philopatry of spotted ragged-tooth sharks *Carcharias taurus* in Eastern Cape nursery areas, South Africa. *African Journal of Marine Science*. 37 (2). p.219-231.



Jade Maggs measuring and tagging a Scottsman *Polysteganus praeorbitalis*.  
Photo: Bruce Mann

**Booth, A.J. and Sauer, W.H.H.**

da Silva, C., Booth, A.J., Dudley, S.F.J., Kerwath, S.E., Lamberth, S.J., Leslie, R.W., Sauer, W.H.H., McCord, M.E. and Zweig, T. (2015) The current status and management of South Africa's chondrichthyan fisheries. *African Journal of Marine Science*. 37 (2). p.233-248.

**Booth, A.J., Moss, S. and Weyl, O.L.F.**

Booth, A.J., Moss, S. and Weyl, O.L.F. (2015) Effect of rotenone on gill-respiring and plastron-respiring insects. *African Journal of Aquatic Science*. 40 (1). p.95-100.

**Britz, P.J.**

Britz, P.J. (2015) The history of South African inland fisheries policy with governance recommendations for the democratic era. *Water SA*. 41 (5). p.624-632.

Namulawa, V.T., Kato, C.D., Nyatia, E. and Britz, P.J. (2015) Transmission Electron Microscopy of the Gastrointestinal Tract of Nile Perch *Lates niloticus*. *International Journal of Morphology*. 33 (2). p.751-758.

**Chakona, A. and Malherbe, W.S.**

Chakona, A., Malherbe, W.S., Gouws, G. and Swartz, E.R. (2015) Deep genetic divergence between geographically isolated populations of the goldie bard (*Barbus pallidus*) in South Africa: potential taxonomic and conservation implications. *African Zoology*. 50 (1). p.5-10.

**Chakona, G.**

Chakona, G., Swartz, E.R. and Chakona, A. (2015) Historical abiotic events or human-aided dispersal: inferring the evolutionary history of a newly discovered galaxiid fish. *Ecology and Evolution*. 5 (7). p.1369-1380.

**Childs, A.R. and Cowley, P.D.**

Childs, A.R., Cowley, P.D., Naesje, T.F. and Bennett, R.H. (2015) Habitat connectivity and intra-population structure of an estuary-dependent fishery species. *Marine Ecology Progress Series*. 537 (2015). p.233-245.

**Cochrane, K.L.**

Cochrane, K.L. (2015) Use and misuse of CITES as a management tool for commercially-exploited aquatic species. *Marine Policy*. 59 (2015). p.16-31.

**Cochrane, K.L., Joyner, J. and Sauer, W.H.H.**

Cochrane, K.L., Joyner, J., Sauer, W.H.H. and Swan, J. (2015) An evaluation of the Marine Living Resources Act and supporting legal instruments as a framework for implementation of an ecosystem approach to fisheries in South Africa. *African Journal of Marine Science*. 37 (4). p.437-456.

**Downey-Breedt, N.J., Roberts, M.J. and Sauer, W.H.H.**

Downey-Breedt, N.J., Roberts, M.J., Sauer, W.H.H. and Chang, N. (2015) Modelling transport of inshore and deep-spawned chokka squid (*Loligo reynaudi*) paralarvae off South Africa: the potential contribution of deep spawning to recruitment. *Fisheries Oceanography*. 2015. p.1-16.

**Duncan, M.**

Duncan, M., James, N.C., Fennessy, S.T., Mutombene, R.J. and Mwale, M. (2015) Genetic structure and consequences of stock exploitation of *Chrysoblephus puniceus*, a commercially important sparid in the South West Indian Ocean. *Fisheries Research*. 164 (2015). p.64-72.

**Ellender, B.R.**

Ellender, B.R. and Weyl, O.L.F. (2015) Resilience of imperilled headwater stream fish to an unpredictable high-magnitude flood. *Koedoe*. 57 (1). p.1-8.

**Elston, C.**

Elston, C., von Brandis, R.G. and Cowley, P.D. (2015) Gastric lavage as a non-lethal method for stingray (*Myliobatiformes*) diet sampling. *African Journal of Marine Science*. 37 (3). p.415-419.

**Filmalter, J.D., Cowley, P.D. and Forget, F.G.**

Filmalter, J.D., Cowley, P.D., Forget, F.G. and Dagorn, L. (2015) Fine-scale 3-dimensional movement behaviour of silky sharks *Carcharhinus falciformis* associated with fish aggregating devices (FADs). *Marine Ecology Progress Series*. 539 (2015). p.207-233.

**Forget, F.G. and Filmalter, J.D.**

Forget, F.G., Capello, M., Filmalter, J.D., Govinden, R., Soria, M., Cowley, P.D. and Dagorn, L. (2015) Behaviour and vulnerability of target and non-target species at drifting fish aggregating devices (FADs) in the tropical tuna purse seine fishery determined by acoustic telemetry. *Canadian Journal of Fisheries and Aquatic Sciences*. 72 (2015). p.1398-1405.

**Götz, A.**

Roberson, L., Winker, H., Attwood, C., De Vos, L., Sanguinetti, C. and Götz, A. (2015) First survey of fishes in the Betty's Bay Marine Protected Area along South Africa's temperature south-west coast. *African Journal of Marine Science*. 37 (4). p.543-556.

De Vos, L., Watson, R.G.A., Götz, A. and Attwood, C.G. (2015) Baited remote underwater video system (BRUVs) survey of chondrichthyan diversity in False Bay, South Africa. *African Journal of Marine Science*. 37 (2). p.209-218.

**Howell, D.H., Cowley, P.D., Childs, A.R. and Weyl, O.L.F.**

Howell, D.H., Cowley, P.D., Childs, A.R. and Weyl, O.L.F. (2015) Movement behaviour of largemouth bass *Micropterus salmoides* in a South African impoundment. *African Zoology*. 50 (3). p.219-225.

**Kaiser, H.**

Kahwa, D., Rutaisire, J. and Kaiser, H. (2015) The use of clove oil to induce anaesthesia, and its effects on blood chemistry, in *Lates niloticus* from Lake Victoria, Uganda. *African Journal of Aquatic Science*. 40 (4). p.409-415.

Alexander, M., Kaiser, H., Weyl, O., Dick, J. (2015) Habitat simplification increases the impact of an invasive species. *Environmental Biology of Fishes*. 98: 477-486.

**Kemp, J.O.G. and Britz, P.J.**

Kemp, J.O.G., Britz, P.J. and Toledo Aguero, P.H. (2015) The effect of macroalgal, formulated and combination diets on growth, survival and feed utilisation in the red abalone *Haliotis rufescens*. *Aquaculture*. 448 (2015). p.306-314.

**Lipinski, M.R.**

Stromme, T., Lipinski, M.R. and Kainge, P. (2015) Life cycle of hake and likely management implications. *Reviews in Fish Biology and Fisheries*. 2015. p.1-14.

Allcock, A.L., von Boletzky, S., Bonnaud-Ponticelli, L., Brunetti, N.E., Cazzaniga, N.J., Hochberg, E., Ivanovic, M., Lipinski, M.R., Marian, J.E.A.R., Nigmatullin, C., Nixon, M., Robin, J.P., Rodhouse, P.G.K. and Vidal, E.A.G. (2015) The role of female cephalopod researchers: past and present. *Journal of Natural History*. 49 (21-24). p.1235-1266.

**Magellan, K.**

Magellan, K. (2015) Voluntary emergence and water detection in a newly recognized amphibious fish. *Journal of Fish Biology*. 86 (2015). p.1839-1844.

**Miya, T.**

Miya, T., Gon, O., Mwale, M. and Cheng, C.H. (2015) Multiple independent reduction or loss of antifreeze trait in low Antarctic and sub-Antarctic



End of a successful diving expedition aboard the Rei Bula Matadi, southern Angola. From left to right: Stuart Lang (Dive supervisor), Alex Winkler (DIFS PhD student), Dave Drennan (DIFS Chief Technical Officer), Warren Potts (DIFS Associate Professor), Matthew Parkinson (DIFS PhD student).  
Photo: Dave Drennan

notothenioid fishes. *Antarctic Science*. 2015. p.1-12.

#### Murray, T.S.

Dunlop, S.W., Mann, B.Q., Cowley, P.D., Murray, T.S. and Maggs, J.Q. (2015) Movement patterns of *Lichia amia* (Teleostei: Carangidae): results from a long-term cooperative tagging project in South Africa. *African Zoology*. 50 (3). p.249-257.

Smith, M.K.S., Kruger, N. and Murray, T.S. (2015) Aerial surveys conducted along the Garden Route coastline, South Africa, to determine patterns in shore fishing effort. *Koedoe*. 57 (1). p.1-9.

#### Parkinson, M.

Thackeray, S.R., Moore, S.D., Parkinson, M. and Hill, M.P. (2015) Citrus thrips, *Scirtothrips aurantii* (Thysanoptera: Thripidae), damage and infestation in the presence of molasses. *Crop Protection*. 78 (2015). p.72-77.

#### Peel, R.A.

Peel, R.A., Tweddle, D., Simasiku, E.K., Martin, G.D., Lubanda, J., Hay, C.J. and Weyl, O.L.F. (2015) Ecology, fish and fishery of Lake Liambezi, a recently refilled floodplain lake in the Zambezi Region, Namibia. *African Journal of Aquatic Science*. 40 (4). p.417-424.

Tweddle, D., Cowx, I.G., Peel, R.A. and Weyl, O.L.F. (2015) Challenges in fisheries management in the Zambezi, one of the great rivers of Africa. *Fisheries Management and Ecology*. 22 (2015). p.99-111.

#### Potts, W.M.

Maggs, J.Q., Mann, B.Q., Potts, W.M. and Dunlop, S.W. (2015) Traditional management strategies fail to arrest a decline in the catch-per-unit-effort of an iconic marine recreational fishery species with evidence of hyperstability. *Fisheries Management and Ecology*. 2015. p.1-13.

Rishworth, G.M., Strydom, N.A. and Potts, W.M. (2015) The nursery role of a sheltered surf-zone in warm-temperate southern Africa. *African Zoology*. 50 (1). p.11-16.

#### Potts, W.M. and Götz, A.

Potts, W.M., Götz, A. and James, N.C. (2015) Review of the projected impacts of climate change on coastal fishes in southern Africa. *Reviews in Fish Biology and Fisheries*. 25 (2015). p.603-630.

#### Robinson, G. and Jones, C.L.W.

Robinson, G., Caldwell, G.S., Jones, C.L.W., Slater, M.J. and Stead, S.M. (2015) Redox stratification drives enhanced growth in a deposit-feeding invertebrate: implications for aquaculture bioremediation. *Aquaculture Environment Interactions*. 8 (2015). p.1-13.

#### Sauer, W.H.H., Downey-Breedt, N.J. and Lipinski, M.R.

Arkhipkin, A.I., Rodhouse, P.G.K., Pierce, G.J., Sauer, W.H.H., Sakai, M., Allcock, L., Downey-Breedt, N.J., Lipinski, M.R., Arguelles, J., et al. (2015) World Squid Fisheries. *Reviews in Fisheries Science and Aquaculture*. 23 (2015). p.92-252.

#### Shaw, P.W.

McKeown, N.J., Arkhipkin, A.I. and Shaw, P.W. (2015) Integrating genetic and otolith microchemistry data to understand population structure in the Patagonian Hoki (*Macrurus magellanicus*). *Fisheries Research*. 164 (2015). p.1-7.

Woodall, L.C., Koldewey, H.J., Boehm, J.T. and Shaw, P.W. (2015) Past and present drivers of population structure in small coastal fish, the European long snouted seahorse *Hippocampus guttulatus*. *Conservation Genetics*. 16 (2015). p.1139-1153.

McKeown, N.J., Robin, J.P. and Shaw, P.W. (2015) Species-specific PCR-RFLP for identification of early life history stages of squid and other applications to fisheries research. *Fisheries Research*. 167 (2015). p.207-209.

#### Taylor, G.C.

Taylor, G.C., Weyl, O., Cowley, P.D. and Allen, M.S. (2015) Dispersal and population-level mortality of *Micropterus salmoides* associated with catch and release tournament angling in a South African reservoir. *Fisheries Research*. 162 (2015). p.37-42.

#### Van Der Vyver, J.S.F., Sauer, W.H.H., Shaw, P.W. and Lipinski, M.R.

Van Der Vyver, J.S.F., Sauer, W.H.H., McKeown, N.J., Yemane, D., Shaw, P.W. and Lipinski, M.R. (2015) Phenotypic divergence despite high gene flow in chokka squid *Loligo reynaudii* (Cephalopoda: Loliginidae): implications for fishery management. *Journal of the Marine Biological Association of the United Kingdom*. 2015. p.1-19.



MSc student Emily Moxham releasing a bonefish after it was successfully tagged with an acoustic transmitter (Seychelles).  
Photo: © Rainer von Brandis SOSF DRC



Baited Remote Underwater Video at Aldabra atoll capturing a lemon shark *Negaprion acutidens*, and twin spot snapper (*Lutjanus bohar*) over the shallow forereef crest, as part of Philip Haupt's PhD study to quantify the relative abundance of the fish community and assess the effects of habitat, tides and wave exposure on them.  
Photo: SAIAB and SIF (Seychelles Islands Foundation)

Wartenberg, R. and Booth, A.J.

Wartenberg, R. and Booth, A.J. (2015) Video transect are the most appropriate underwater visual census method for surveying high-latitude coral reef fishes in the southwestern Indian Ocean. *Marine Biodiversity*, 45 (2015). p.633-646.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Adesola, A.A., Jones, C.L.W. and Shipton, T.A.

Adesola, A.A., Jones, C.L.W. and Shipton, T.A. Dietary lysine requirement of South African dusky kob *Argyrosomus japonicas*. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Britz, P.J.

Nel, A. and Britz, P.J. Effect of kelp supplementation in formulated feeds on abalone growth performance and gut microbial community. *9th International Abalone Symposium*. Yeosu. Korea. October 2015.

Britz, P.J. and Raemaekers, S.J.N.

Britz, P.J. and Raemaekers, S.J.N. Status of the South African Abalone Industry. *International Abalone Symposium*. Yeosu. Korea. October 2015.

Kemp, J.O.G. and Britz, P.J.

Kemp, J.O.G. and Britz, P.J. Nutrient utilization in abalone: insights from studies applying combination diet feeding regimes in the South African abalone *Haliotis midae*. *9th International Abalone Symposium*. Yeosu. Korea. October 2015.

Lloyd, K. and Jones, C.L.W.

Lloyd, K. and Jones, C.L.W. Feeding behaviour of farmed abalone. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Lloyd, K., Jones, C.L.W. and Shipton, T.A.

Lloyd, K., Jones, C.L.W. and Shipton, T.A. Determining the dietary lysine requirement in *Haliotis midae*. *International Abalone Symposium*. Yeosu. Korea. October 2015.

Lloyd, K., Jones, C.L.W. and Shipton, T.A. Can Lysipearl be used to

determine the quantitative lysine requirement in *Haliotis midae*? *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Mayo, M., Britz, P.J. and Jones, C.L.W.

Mayo, M., Britz, P.J. and Jones, C.L.W. Harvesting algae from industrial effluent treatment ponds using tilapia. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Mogane, M. Jones, C.L.W. and Laubscher, R.K.

Mogane, M. Jones, C.L.W. and Laubscher, R.K. Micro-organisms in high rate algal ponds used to treat brewery effluent. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Moxam, E., Jones, C.L.W. and Kaiser, H.

Moxam, E., Jones, C.L.W. and Kaiser, H. The effect of simulated rainfall on the behaviours of farmed abalone, *Haliotis midae*. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Nel, A., Britz, P.J. and Jones, C.L.W.

Nel, A., Britz, P.J. and Jones, C.L.W. The effect of graded levels of dried kelp as a dietary supplement in formulated feed on growth of cultured South African abalone. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Nombembe, L., Jones, C.L.W. and Laubscher, R.K.

Nombembe, L., Jones, C.L.W. and Laubscher, R.K. The use of African catfish to remove microalgae from industrial effluent treatment ponds. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Taylor, R.P. and Jones, C.L.W.

Taylor, R.P. and Jones, C.L.W. The quality of brewery effluent grown duckweed as a tilapia feed supplement. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

Witte, W.K. and Britz, P.J.

Witte, W.K. and Britz, P.J. Status of the South African Abalone Industry. *9th International Abalone Symposium*. Yeosu. Korea. October 2015.

Wu, Y., Ayres, D.W.P., Kaiser, H., Yearsley, R.D. and Jones, C.L.W.

Wu, Y., Ayres, D.W.P., Kaiser, H., Yearsley, R.D. and Jones, C.L.W. Dietary soya influences gonad development in farmed *Haliotis midae* - a tradeoff between growth and gonad development. *International Abalone Symposium*. Yeosu. Korea. October 2015.

Wu, Y., Kaiser, H., Jones, C.L.W.

Wu, Y., Kaiser, H., Jones, C.L.W. The effects of dietary soya and crystalline phytoestrogens on the growth, gonad development and histology of farmed abalone, *Haliotis midae*. *Aquaculture Association of Southern Africa*. Polokwane. South Africa. September 2015.

# INFORMATION SYSTEMS

The year 2015 saw a number of milestones for the Department of Information Systems, including the promotion of staff members Dr Caroline Khene and Dr Kirstin Krauss to Associate Professor status.

Professor Khene was also presented with the Commerce Faculty's Researcher of the Year award based on her research contribution during the previous academic year, while Professor Krauss joined Professor Khene in achieving an National Research Foundation (NRF) Y2 rating.

Professors Foster, Krauss and Khene together with other academic staff, postgraduate students and distinguished visitors, contributed significantly to the number research publications and peer reviewed proceedings. Contributions from visiting academics are always greatly appreciated as they add richness to the research efforts in the Department.

## Postgraduates/Graduations

Postgraduate registrations in Information Systems continued to grow in 2015, with a total of eight (8) PhD candidates, fourteen (14) Masters candidates, and a class of thirty-two (32) Honours students. In April 2015 we celebrated the graduation of three (3) Masters and twenty-one (21) Honours students.

## Distinguished Visitors/International Visits

Distinguished visitors to the Department included Dr Adele Botha and Professor Marlien Herselman from the Meraka Institute, Professor Nic Hassan from the University of Minnesota, Professor Ojelanki Ngwenyama from Ryerson University, Professor Sue Conger from the University of Dallas, and previous Head of Department Professor Malcolm Sainsbury who returns every year to teach on the Honours programme. Research Associate Ms Brenda Mallinson continued to contribute to the research efforts of the Department, with a number of conference presentations in the field of eLearning.

## Significant Research Aligned Events

Students and staff from the Department once again participated in the Research Rumble, which is an annual event showcasing research initiatives being undertaken by members of the Information Technology (IT), Computer Science (CS) and Information Systems (IS) Departments of Rhodes University, Nelson Mandela Metropolitan University, Water Sisulu University and the University of Fort Hare.

The continuing MobiSAM project aims at improving local municipal service delivery, while the ICT4RED project aims to supply electronic textbooks to rural schools in the Cofimvaba district in the Eastern Cape. A new collaborative project with the University of Limerick focuses on stakeholder engagement in the field of ICT for Development.



Cofimvaba pupils using electronic textbooks supplied through the ICT4RED project.

*Photo: Department of Information Systems*



PhD students Hafeni Mthoko and Gugu Baduza attended the 7th International Conference on Information and Communication Technologies and Development 2015 (ICTD2015) in Singapore, together with fellow student Joshua Osah.

*Photo: Department of Information Systems*

In addition to presenting research papers at local and overseas conferences, IS Department staff contributed to their discipline as journal editors, conference reviewers and panel members, and external examiners for other academic institutions.

**Mrs Lydia Palmer**  
Head of Department

## Books/Chapters/Monographs

**Conger, S.**

**Conger, S.** (2015) Six Sigma and Business Process Management. In: vom Brocke, J. and Rosemann, M. (eds.). *Handbook on Business Process Management 1: Introduction, Methods and Information Systems*. 2nd Ed. Berlin Heidelberg: Springer. p.127-145. ISBN: 9783642450990.

**Nkula, K.Z. and Krauss, K.E.M.**

**Nkula, K.Z. and Krauss, K.E.M.** (2015) The Integration of ICTs in Marginalized Schools in South Africa: The integration of ICTs in marginalized Eastern Cape Schools: the perceptions of in-service teachers and understanding the role of training. In: Steyn, J. and Van Greunen, D. (eds.). *ICTs for Inclusive Communities in Developing Societies*. Newcastle on Thynne: Cambridge Scholars Publishing. p.320-343. ISBN: 9781443880817.

## Concerts, Exhibitions, Performances, Workshops, Events

**Khene, C., Mthoko, H., Osah, U.J. and Baduza, G.**

**Khene, C., Mthoko, H., Osah, U.J. and Baduza, G.** Workshop. Towards a shared understanding of the Comprehensive Nature of Evaluating ICT in Development: Trends in Current Practice. *Open Session of the International Conference on Information and Communication Technologies and Development (ICTD2015)*. Nanyang Technological University, Singapore. 15 May 2015.

**Krauss, K.E.M.**

**Krauss, K.E.M.** Invited speaker. Sense-making in ICT4D social situations: is critical hermeneutics the way to go or are there better, more ethical alternatives? *Southern African Chapter of the Association for Information Systems*. STIAS Wallenberg Centre, Stellenbosch. South Africa. 28 September 2015.

**Mallinson, B.**

**Mallinson, B.** Invited MOOC presentation. Exploring the Potential of Open Digital Badges. *Moodle MOOC6*. Online. 18 May 2015.

**Mallinson, B.** Invited MOOC developer and online facilitator. Module 3: How to use ICTs to Enhance your Teaching and Learning. In *Using ICT to Enrich Teaching and Learning*. African Virtual University and Commonwealth of Learning. March 2015.

## Distinguished Visitors

**Botha, A.**

**Dr A Botha.** Council for Scientific and Industrial Research (CSIR), Meraka Institute, Pretoria, South Africa. *Research Workshop*. May 2015.

**Hassan, N.**

**Professor N Hassan.** University of Minnesota Duluth, Duluth, United States. *Research seminars: "Theorizing in IS"*. July 2015.

**Herselman, M.**

**Professor M Herselman.** CSIR Meraka Institute, Pretoria, South Africa. *Lecture series on research methodology*. May 2015.

**Ngwenyama, O.**

**Professor O Ngwenyama.** (Ryerson University), Toronto, Canada. *Workshop on the philosophy of social science and research*. March 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Khene, C.**

**Khene, C.** (2015) Curriculum Development of an ICT4D Module in the South African Context. *Issues in Informing Science and Information Technology (IISIT)*. 12 (2015). p.111-140.

**Mallinson, B.**

**Mallinson, B.** and Krull, G.E. (2015) An OER online course remixing experience. *Open Praxis*. 7 (3). p.263-271.

## Peer-reviewed Proceedings

**Baduza, G. and Khene, C.**

**Baduza, G. and Khene, C.** A Comprehensive Approach to Scalability Assessment of ICTD projects: An ICT4RED Case Development. *ICTD 2015*. Nanyang Technological University, Singapore. May 2015.

**Conger, S., Krauss, K.E.M. and Simuja, C.**

**Conger, S., Krauss, K.E.M. and Simuja, C.** Human Factors Issues in Developing Country Remote K-12 Education. *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences*. Caesar's Palace, Las Vegas. United States of America. July 2015.

**Khene, C.**

**Khene, C.** Curriculum Development of an ICT4D Module in the South African Context. *InSITE 2015: Informing Science and IT Education Conferences*. University of South Florida, Tampa, Florida. United States of America. June 2015.

**Krauss, K.E.M.**

**Krauss, K.E.M.** Discourse and Discourse collisions: understanding the experiences of Information Systems students at a South African university. *13th International Conference on Social Implications of Computers in Developing Countries (IFIP 9.4)*. Jetwing Blue, Negombo. Sri Lanka. May 2015.

**Krauss, K.E.M., Simuja, C. and Conger, S.**

**Krauss, K.E.M., Simuja, C. and Conger, S.** ICT education practices in marginalized rural schools in South Africa: considerations for adequate sensemaking and practical immersion. *8th Annual SIG GlobDev Pre-ICIS Workshop*. Fort Worth Convention Center, Fort Worth, Texas. United States of America. December 2015.

**Mthoko, H. and Khene, C.**

**Mthoko, H. and Khene, C.** Assessing Outcome and Impact: Towards a comprehensive evaluation approach in ICT4D. *ICTD 2015*. Nanyang Technological University, Singapore. May 2015.

**Nash, J.M.**

**Nash, J.M.** Using video podcasts to teach procedural skills to undergraduate students. *SACLA 2015: Renewing ICT teach and learning: Building on the past to create new energies*. University of the Witwatersrand (WITS) University, Johannesburg. South Africa. July 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Dayisi, S. and Khene, C.**

**Dayisi, S. and Khene, C.** The Influence of ICT programmes in Informing Secondary School Learners from Marginalised Schools of Advanced ICT Studies offered at Higher Education Institutions. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

**Khene, C., Mthoko, H. and Osah, U.J.**

**Khene, C., Mthoko, H. and Osah, U.J.** Towards a Design Science Approach in ICT4D Research and Community Engagement. *Community Engagement Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Mallinson, B.**

**Nihuka, K. and Mallinson, B.** Towards OER Integration for Professional Development of Lecturers at OUT. *Distance Education and Teacher Education in Africa (DETA) Conference 2015*. Mauritius Institute of Education, Réduit. Mauritius. July 2015.

**Mallinson, B.** Moving from literacy to fluency: an academic approach.

*8th eLearning Update Conference*. Emperor's Palace, Johannesburg. South Africa. August 2015.

**Mallinson, B.** Remixing OERs - Adapting for Purpose and Context.

*Moodle Moot Virtual Conference 2015*. Online Conference. August 2015.

**Mallinson, B.** Evaluating an Online Learning Experience for Field-Based Child Protection in Emergencies Practitioners. *ICDE 2015*. Sun City, Pilanesberg. South Africa. October 2015.

**Muganda, C. Samzug, A. and Mallinson, B.** Empirical-Based Analytical Insights on the Position, Challenges and Potential for Promoting OER in ODeL Institutions in Africa. *2nd African Virtual University (AVU) Conference*. Nairobi, Kenya. July 2015.



**Mnjama, J.J. and Foster, G.G.**

**Mnjama, J.J. and Foster, G.G.** Towards a security evaluation framework for the protection of personal health information in mobile health applications. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

**Nash, J.M. and Krauss, K.E.M.**

**Nash, J.M. and Krauss, K.E.M.** A method for aligning MCQ assessment with cognitive skills and learning objectives. *SACLA 2015*. University of the Witwatersrand (WITS), Johannesburg. South Africa. 2-3 July 2015.

**Oridota, O.O. and Foster, G.G.**

**Oridota, O.O. and Foster, G.G.** Towards a framework to guide the development of smartphone behavioural change mobile health applications. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

**Osah, U.J. and Khene, C.**

**Osah, U.J. and Khene, C.** A Systems-Thinking Approach to E-Government Strategy for Water Service Delivery in South African Local Municipalities. *4th South African Young Water Professionals Conference (YWP-ZA)*. CSIR, Pretoria. South Africa. November 2015.

**Simuja, C. and Krauss, K.E.M.**

**Simuja, C. and Krauss, K.E.M.** Transformative ICT education practices in rural high schools in the Eastern Cape: Providing knowledge relevant for developmental needs and Realities. *SAICSIT 2015: M&D Symposium*. STIAS Wallenberg Centre, Stellenbosch. South Africa. September 2015.

**Simuja, C., Krauss, K.E.M. and Conger, S.**

**Simuja, C., Krauss, K.E.M. and Conger, S.** Relevant utilisation of ICTs among teachers and rural high school learners in the Eastern Cape Province. *Community Engagement Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Thomson, C. and Nash, J.M.**

**Thomson, C. and Nash, J.M.** A Framework for Evaluating the User Experience and Persuasive Design of Mobile Applications Promoting Physical Activity in Adults. *SAICSIT 2015: M&D Symposium*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

*Photo: Paul Greenway/3pphotography*

# JOURNALISM AND MEDIA STUDIES

Staff from the School of Journalism and Media Studies undertook a range of research activities and contributed to the field of journalism and media studies both nationally and internationally.

## Significant Research Aligned Events

Book contributions by staff were notable, particularly the publication *Antjie Krog and the Post-Apartheid Public Sphere: Speaking Poetry to Power* written by **Professor Anthea Garman**, which won the Vice-Chancellor's Book Award for 2015.

In addition, **Professor Lorenzo Dalvit** contributed two (2) chapters to *ICTs for inclusive Communities in Developing Societies* published by Cambridge Scholars Publishing. **Gillian Rennie's** chapter *Double Vision: Profile of a Profile* was published in *The Profiling Handbook*.

**Professor Harry Dugmore** authored a report which was published by the Academy of Science of South Africa called *Diversity in Human Sexuality: Implications for Policy in Africa*. The report covers key areas around the field of sexuality and aimed to provide clarity on many of the complex key points on the subject. The report aims to provide an up-to-date overview of the state of current biological, socio-psychological, and public health evidence and assess how this supports or contests the key arguments made in favour of new laws in the area. In addition, Professor Dugmore contributed to the online publication *The Conversation* with his article '*Why anti-gay sentiment remains strong in much of Africa*'.

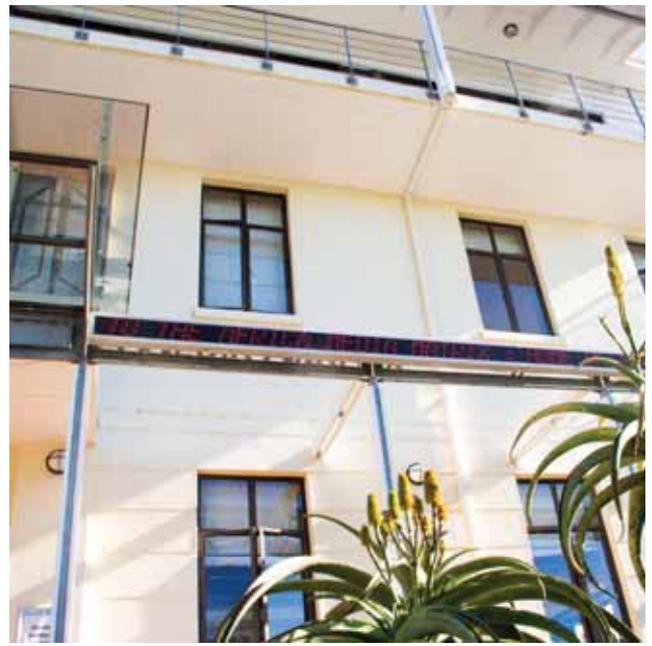
The department made a significant contribution (its largest ever) to the biggest local communications and media studies conference in South Africa (SACOMM), with eight (8) staff members (Anthea Garman, Lynette Steenveld, Jeanne Prinsloo, Rod Amner, Priscilla Boschhoff, Alette Schoon, Brian Garman, Kayla Roux; two (2) Postdoctoral Research Fellows (Vanessa Malila, Nkosinotando Mpofo), and ten (10) students (MA and PhD students) having attended and all presented at the South African Communications Association (SACOMM) conference held in Cape Town in October 2015.

Other notable conference presentations include those made by Anthea Garman and MA student Ray Hartle who attended and presented their work at the International Association of Media Communications Research (IAMCR) conference held in Canada. Both these members of the Media and Citizenship Project presented work which interrogates key notions around citizen identity, listening and the media in a South African context.

Anthea Garman attended and presented her work on '*Becoming English through reading: a white girl's experience in apartheid South Africa of the 1960s and 1970s*' at a conference hosted by the University of Sydney called *The private lives of Empire: Intimate histories of the settler colony, 1800 to the present day*.

**Alette Schoon** attended and presented her work at the HSRC-organized conference called *Rhythms of Life: Youth and popular culture in a changing South Africa*.

Vanessa Malila was invited to attend the Kettering Foundation's Deliberative Democracy Workshop (DDW) held in Dayton, Ohio.



The Africa Media Matrix Building  
Photo: Ettienne Ferreira

DDW brings together scholars, journalists, community leaders, and civil society practitioners that use a range of strategies designed to improve civil society by encouraging citizen participation and advancing knowledge of democratic practices.

The Media and Citizenship Project hosted a colloquium at University of Cape Town (UCT) aimed at gathering together authors of the book being edited by the project co-ordinators Professor Anthea Garman and Professor Herman Wasserman (UCT). The book will be published by HSRC Press in 2016, and will theorise media and citizenship, prolematising the concepts within a South African context with contributions from predominately South African scholars, as well as international experts in the field. The colloquium brought together authors to present their chapter contributions to the editors and other authors.

The School produced its 35th edition of Rhodes *Journalism Review* (RJR), which provided a forward looking and reflexive look at journalism through some key contributions to the field by researchers, academics, journalists and photographers.

The release of the RJR coincided with the 19th Annual Highway Africa Conference, held under the theme '*Journalism and the City*'. As in past years, Highway Africa hosted pre-conference workshops including council meetings of the African Editors Forum, and the South African National Editors Forum. The

conference programme was packed with talks, workshops, plenary discussions and debates by academics, journalists, researchers, educators, editors and students.

In 2015 Mr Rod Amner and Professor Louise Vincent received National Research Foundation (NRF) funding for the Pedagogy

of Place research project, an exciting venture which pairs research with community engagement projects in the city of Grahamstown.

**Professor Larry Strelitz**

Head of School



Four PGDip students, Ongeziwe, Mandi, Phiwe and Noko, travel with the Eastern Cape Communication Forum (ECCF) to Port Elizabeth to act as mentors during a three day media literacy and media management training course

Photo: School of Journalism & Media Studies

## Books/Chapters/Monographs

**Dalvit, L.**

**Dalvit, L. and Gunzo, F.T.** (2015) One Year On: A Longitudinal Case Study of Computer and Mobile Phone Use Among Rural South African Youth. In: Steyn, J. and Van Greunen, D. (eds.). *ICTs for Inclusive Communities in Developing Societies*. Newcastle on Thynne: Cambridge Scholars Publishing. p.226-237. ISBN: 9781443880817.

Ciaghi, A., Villafiorita, A. and **Dalvit, L.** (2015) Introducing a Maturity Model for ICT for Development Projects. In: Steyn, J. and Van Greunen, D. (eds.). *ICTs for Inclusive Communities in Developing Societies*. Newcastle on Thynne: Cambridge Scholars Publishing. p.72-83. ISBN: 9781443880817.

**Garman, A.**

**Garman, A.** (2015) *Antjie Krog and the Post-Apartheid Public Sphere: Speaking Poetry to Power*. Durban: UKZN Press. ISBN: 9781869142933.

**Garman, A.** (2015) Troubling White Englishness in South Africa: A Self-Interrogation of Privilege, Complicity, Citizenship and Belonging. In: Watson, V., Howard-Wagner, D. and Spanierman, L. (eds.). *Unveiling Whiteness in the Twenty-First Century: Global Manifestations, Transdisciplinary Interventions*. Plymouth United Kingdom: Lexington Books. p.211-228. ISBN: 9780739192962.

**Rennie, G.**

**Rennie, G.** (2015) Double Vision: Profile of a Profile. In: Joseph, S. and Keeble, R.L. (eds.). *The Profiling Handbook*. Bury St Edmunds: Abramis Academic Publishing. p.140-154. ISBN: 9781845496579.

## Concerts, Exhibitions, Performances, Workshops, Events

**Garman, A.**

**Garman, A.** Attended. *Menell Media Exchange*. Maslow Hotel, Johannesburg. South Africa. 12 - 13 June 2015.

**Garman, A.** Attended. *Franschhoek Literary Festival*. Franschhoek, Cape Town. South Africa. 13 - 15 May 2015.

**Garman, A.** Panellist. Black and white in colour: Why race (still) matters. *Mail & Guardian Literary Festival*. Turbine Hall, Johannesburg. South Africa. 1 - 2 August 2015.

**Garman, A.** Speaker. *Bookbedonnerd Literary Festival*. Richmond books, Richmond. South Africa. 23 - 25 October 2015.

**Garman, A.** Convenor. Think!Fest. *National Arts Festival*. Eden Grove, Grahamstown. South Africa. 2 - 12 July 2015.

**Garman, A. and Wasserman, H.J.**

**Garman, A. and Wasserman, H.J.** Convenor. Media and Citizenship. *Colloquium on Media and Citizenship*. University of Cape Town, Cape Town. South. 19 - 20 March 2015.

**Mallia, V.C.M.**

**Mallia, V.C.M.** Panellist. Troubling Race - Again and Again: A Debate. *Think!Fest*. Eden Grove, Grahamstown. South Africa. 2 - 12 July 2015.

**Mallia, V.C.M.** Speaker. Being a Born Free. *Think!Fest*. Eden Grove, Grahamstown. South Africa. 2 - 12 July 2015.

**Schoon, A.**

**Schoon, A.** Invited speaker. We don't do swagga: hip hop in Grahamstown as resistance to cultures of crime and consumerism. *Student Media Conference 2015: Telling the Truth from the Ground Up: A Culture built on Ethics*. Cape Peninsula University of Technology, Cape Town. South Africa. 2 September 2015.

**Schoon, A.** Invited speaker. Using participatory video techniques in the classroom and the community. *UWC Teaching and Learning: The scholarship of teaching and learning and socially just pedagogies - seminar series*. University of the Western Cape, Belville. South Africa. 28 August 2015.

## Other Publications

**Dugmore, H.**

**Dugmore, H.** (2015) Why anti-gay sentiment remains strong in much of Africa. In: *The Conversation*. South Africa: The Conversation.

**Dugmore, H.** (2015) Diversity in Human Sexuality: Implications for Policy in Africa. In: Coovadia, H., Gray, G., Beyrer, C., Higginbotham, D., Kiguli, J., Kramer, B., McIntyre, J., Nel, J., van Niekerk, J., Pepper, M., Singh, J., Steyn, M. and **Dugmore, H.** (lead author). (eds.). *Diversity in Human Sexuality: Implications for Policy in Africa*. Noordhoek: Academy of Science South Africa.

**Garman, A. and Rennie, G.**

**Garman, A. and Rennie, G.** (2015) Alexandra Fuller of Africa: A white Woman Writer Goes West. In: *Literary Journalism Studies*. United States: International Association of Literary Journalism Studies.

**Malila, V.C.M.**

**Malila, V.C.M.** (2015) Being a born free: the misunderstandings and missed opportunities facing young South Africans. In: *Rhodes Journalism Review*. Grahamstown: Rhodes University School of Journalism and Media Studies.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Amner, R.**

**Amner, R.** (2015) Book Review: Oxford Dictionary of Journalism: Tony Harcup. Oxford University Press. 2014. pp.368. ISBN: 978-0-19-964624-1 (hardback). *African Journalism Studies (Formerly Ecquid Novi - African Journalism Studies)*. 36 (2). p.98-101.

**Garman, A.**

**Garman, A.** (2015) Making Media Theory From The South. *African Journalism Studies (Formerly Ecquid Novi - African Journalism Studies)*. 36 (1). p.169-172.

**Jjuuko, M.**

**Jjuuko, M.** (2015) How three communities on Lake Victoria landing sites in Uganda perceive and interpret the radio programmes on the lake's crises. *African Journalism Studies (Formerly Ecquid Novi - African Journalism Studies)*. 2015 (2015). p.1-17.

**Santos, P.**

**Santos, P.** and Ndlovu, K. (2015) 'Democratic UnFreedom' on Facebook in Zimbabwe. *African Journalism Studies (Formerly Ecquid Novi - African Journalism Studies)*. 36 (4). p.145-163.

**Schoon, A. and Strelitz, L.**

**Schoon, A. and Strelitz, L.** (2014) (Im)mobile phones: "Stuckness" and mobile phones in a neighbourhood in a small town in South Africa. *Communicare: Journal for Communication Sciences in Southern Africa*. 33 (2). p. 25-39.

## Peer-reviewed Proceedings

**Cristoferi, M. and Dalvit, L.**

**Cristoferi, M. and Dalvit, L.** An investigation into money-related mobile phone use in a South African rural community. *IDIA2015 Conference*. Double Tree Resort (Hilton), Nungwi. Zanzibar. November 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Buthelezi, S.M.N.**

**Buthelezi, S.M.N.** The costs of mobile phones in a South African rural area. *South African Communication Conference*. AFDA, The South African School of Motion Picture Medium and Live Performance, Cape Town. South Africa. September 2015.

**Cristoferi, M.**

**Cristoferi, M.** Mediating distance - investigating and deconstructing mobile phone use into marginalized South African contexts. *South African Communication Association Conference*. AFDA, The South African School of Motion Picture Medium and Live Performance, Cape Town. South Africa. September 2015.

**Garman, A.**

**Garman, A.** Jonny Steinberg's negotiations of his powers of narration. *International Association of Media and Communication Researchers*. Université du Québec à Montréal, Montreal. Canada. July 2015.

**Garman, A.** Becoming English through reading: a white girl's experience in apartheid South Africa of the 1960s and 1970s. *Private Lives of Empire conference*. University of Sydney, Sydney. Australia. March 2015.

**Garman, A. and Malila, V.C.M.**

**Garman, A. and Malila, V.C.M.** Listening and the ambiguities of voice in South African Journalism. *International Association of Media and Communication Researchers*. Université du Québec à Montréal, Montreal. Canada. July 2015.

**Malila, V.C.M.**

**Malila, V.C.M.** Learning to listen - using mixed methods to listen to young South Africans. *South African Communication Association Conference*. AFDA, Cape Town. South Africa. October 2015.

**Malila, V.C.M.** Voting Void? Young South Africans, national elections and the media. *Political Science Association Media & Politics Group Annual Conference*. University of Chester, Chester. United Kingdom. November 2015.

**Miya, M.G.R.**

**Miya, M.G.R.** An investigation to epistemological access and learning of mobile phones in a South African rural area. *South African Communication Association Conference*. AFDA, The South African School of Motion Picture Medium and Live Performance, Cape Town. South Africa. September 2015.

**Mpofu, N. and Amner, R.**

**Mpofu, N., Amner, R. and Vincent, L.** Learning to care for our places: a critical pedagogy of place approach. *7th Annual Research Conference*. University of Namibia, Windhoek. Namibia. September 2015.

**Mpofu, N., Amner, R. and Vincent, L.** Reflecting on civic mapping as a place based learning approach for Journalism education. *Annual SACOMM Conference*. AFDA. Cape Town. South Africa. September 2015.

**Schoon, A.**

**Schoon, A.** 'We've got to represent!': Hip hop as a form of community listening. *SACOMM 2015*. AFDA, Cape Town. South Africa. September 2015.

**Schoon, A.** The digital shack: re-mixing black male identity and producing hope in the backyard hip-hop studio. *Rhythms of Life: Youth and popular culture in a changing South Africa*. Townhouse Hotel, Cape Town. South Africa. November 2015.

**Strelitz, L.**

**Young, C. and Strelitz, L.** Exploring patterns of Facebook usage, social capital, loneliness and well-being among a diverse South African student sample. *9th Biennial Conference of the International Society of Critical Health Psychology*. Grahamstown, Eastern Cape. South Africa. July 2015.



Some graduates gather around lecturer Brian Garman during 2015 graduation.  
Photo: Ettienne Ferreira

Towards the end of 2014, members of the Faculty of Law agreed to set a research output target for the 2015 academic year. This unprecedented decision for the Faculty was intended to encourage scholarly engagement with the law by all staff. We managed to exceed the target we set through varied and various research endeavours.

## Introduction

Our contribution includes the successful completion of research theses by Postgraduate students, delivery lectures and presentations at national and international conferences and colloquia, participation in seminars and workshops, and the publication of peer reviewed and non-peer chapters and articles in national and international journals.

Overall, our contribution for 2015, with the graduation of two (2) Postgraduate students, four (4) book chapters, three (3) peer-reviewed non-subsidy earning publications, ten and a half (10.5) subsidy earning peer-reviewed journal publications, twenty-four (24) conference papers and a number of other engagements, exceeded our contribution in previous years.

The steady increasing involvement of members of the Law Faculty in producing and disseminating knowledge to their peers, nationally and internationally, is encouraging and it affirms the Law Faculty's commitment to the teacher-scholar model of Rhodes University.

## Postgraduates / Graduation

In April 2015, two (2) candidates graduated with Postgraduate degrees in law. Ms Phoebe Oyugi graduated with a LL.M-degree on international criminal law (supervised by Professor Laurence Juma), while Ms Hetta van Niekerk (supervised by Dr K Muller, Research Associate) was admitted to the PhD degree for a thesis entitled *'Determining the competency of children with developmental delays to testify in criminal trials'*.

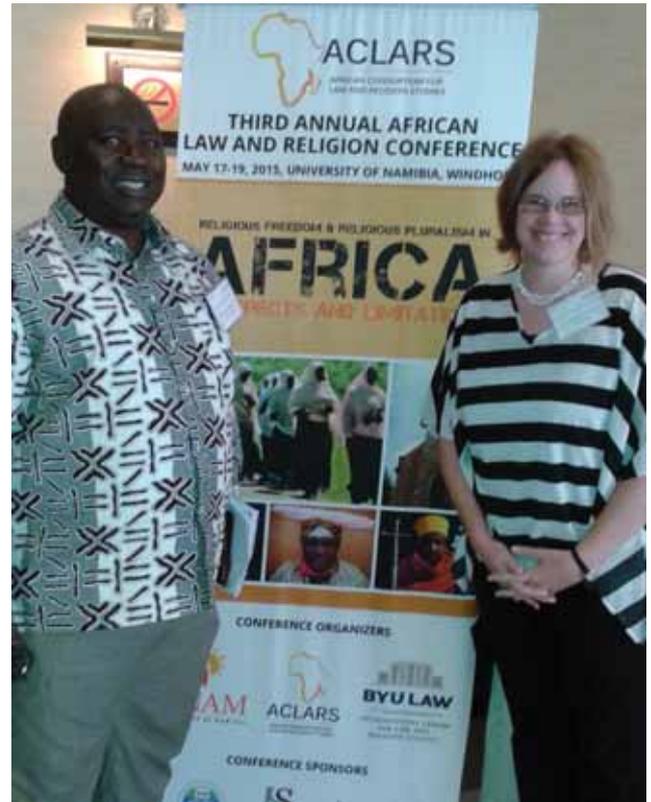
A total number of seven (7) LL.M candidates and one (1) PhD candidate were registered for studies in the Faculty in 2015. Postgraduate students participate in Faculty research activities.

## Distinguished Visitors / International Visits

The Deputy Dean, Professor Laurence Juma delivered the keynote address to the 16th Meeting of the UN Working Group of Experts of People of African Decent in Geneva, Switzerland, and a distinguished lecture at the Fredrick K Cox International Law Center at Case Western Reserve University Law School in the United States of America.

## Significant Research Aligned Events

In 2015, our Visiting Professors delivered public lectures on a range of topics. Judge Clive Plasket addressed the regulatory powers of national sporting bodies, while Mr Max Boqwana took a closer look at the law and politics of the Al-Bashir judgment. Ms Winnie Madikizela Mandela's claim to her former husband's family home in Qunu was



Professor Enyinna Nwauche and Dr Helena van Coler attended and delivered papers at the Third Conference on Law and Religion in Africa, which took place in Windhoek, Namibia, May 18-May 19, 2015. Professor Enyinna spoke about *Neutral Principles and the Criminal Prosecution of Religious Leaders in African States: a Constitutional Inquiry* and Dr van Coler on *Homosexuality and the Church: Controversies and Challenges*.  
Photo: Faculty of Law

addressed by Professor Digby Koyana, and Advocate Wim Trengove SC delivered a well-received lecture entitled *'The clash of equality and religion rights: De Lange v Presiding Bishop of the Methodist Church of Southern Africa'*.

Additionally, regular staff seminars continued and distinguished visitors to the Faculty, including Professor Chuks Okpaluba, Visiting Professor, College of Law, University of South Africa and adjunct professor, Nelson Mandela School of Law, University of Fort Hare, Professor Makau Matua from Buffalo Law School, New York, United States of America and Professor Tinyanjana Malua from Pennsylvania State University, United States of America and our Visiting Professor, Professor of Law and Director of the Strathclyde Law Clinic, Donald Nicolson OBE, presented seminars to staff.

**Professor Rosaan Krüger**  
Head of Department

## Books/Chapters/Monographs

**Bodenstein, J.**

**Bodenstein, J.** (2015) Chapter 11: Drafting of Wills. In: Mahomed, S.H. and Kirsten, B. (eds.). *Clinical Law in South Africa*. 3rd Ed. Durban: LexisNexis (Pty) Ltd. p.221-252. ISBN: 9780409122015.

**Koyana, D.**

**Koyana, D.** (2015) Seeking the Common Good in Pluralistic South Africa: With Special Reference to Customary Law. In: Coertzen, P., Green, M.C. and Hansen, L. (eds.). *Law and Religion in Africa: The quest for the common good in pluralistic societies*. Bloemfontein: SUN MeDIA. p.205-223. ISBN: 9781919985633.

**Nwauche, E.S.**

**Nwauche, E.S.** (2015). In: Bennett, T.W. (ed.). Book Review. *Traditional African Religions in South African law*. Cape Town: University of Cape Town Press. p.1-3. ISBN: 9781919895383.

**Van Coller, E.H.**

**Van Coller, E.H.** (2015) The Role and Duty of Religious Organisations in Civil Society. In: Coertzen, P., Green, M.C. and Hansen, L. (eds.). *Law and Religion in Africa: The quest for the common good in pluralistic societies*. Bloemfontein: SUN MeDIA. p.331-345. ISBN: 9781919985633.

## Concerts, Exhibitions, Performances, Workshops, Events

**Davies, G.E.**

**Davies, G.E.** Participant. *Second National LLB Writing Development Workshop*. Stellenbosch University, Stellenbosch. South Africa. 10 - 11 September 2015.

**Juma, L.O.**

**Juma, L.O.** Keynote address. Right to development and people of African descent: prospects and challenges. *16th Meeting of the UN Working Group of Experts on People of African Descent*. United Nations, Geneva. Switzerland. 29 March - 2 April 2015.

**Juma, L.O.** Distinguished Lecture. Wading through troubled waters: Supporting the work of the International Criminal Court through domestic legal institutions in Africa. *Distinguished Lecture*. Fredrick K Cox International Law Centre, Case Western Reserve University Law School. United States of America. 2 September 2015.

**Krüger, R.**

**Krüger, R.** Delivered a public lecture. Commemoration and the Fractured South African past: Free expression and Hate Speech. *Lecture series on Human Rights in Africa, funded by the Mellon Foundation and supported by W&L Center for International Education*. Washington and Lee University, Lexington, Virginia. United States of America. 9 November 2015.

**Krüger, R.** Participant. Panel discussion on legal Education. *Symposium: Twenty Years of South African Constitutionalism - Comparative Perspectives*. Stellenbosch University, Stellenbosch. South Africa. 13 March 2015.

**Muller, G.**

**Muller, G.** Guest Lecture. Adjudication of socio-economic rights under the Optional Protocol to the ICESR. *Advanced Short Course on the Justiciability of Socio-Economic Rights in Africa*. University of Pretoria, Pretoria. South Africa. 4 - 5 May 2015.

**Nwauche, E.S.**

**Nwauche, E.S.** Participant. *International Association for Constitutional Law (IACL) Roundtable on Separation of Powers in the Global South*. University of Johannesburg. Johannesburg. South Africa. 28 - 29 May 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Nicolson, N.J.**

**Nicolson, N.J.** (2015) Legal education, ethics and access to justice: forging warriors for justice in a neo-liberal world. *International Journal of the Legal Profession*. 22 (1). p.51-69.

**Nwauche, E.S.**

**Nwauche, E.S.** (2015) A Comment on the Exclusive Jurisdiction of



Professor Jobst Bodenstien at the South African Law Teachers Conference (SALT), which took place in Durban in 2015.

Photo: Faculty of Law

*Domestic Religious Tribunals in South Africa: De Lange v The Presiding Bishop of Methodist Church of Southern Africa*. Oxford Journal of Law and Religion. 4 (2). p.1-5.

**Nwauche, E.S.** (2015) The Emerging Right to Communal Intellectual Property. *Marquette Intellectual Property Law Review*. 19 (2). p.223-244.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Krüger, R.**

**Krüger, R.** (2015) The Ebb and Flow of the Separation of Powers in South African Constitutional Law - the Gleniser Litigation Campaign. *Verfassung und Recht in Übersee/Law and politics in Africa, Asia and Latin America*. 48 (2015). p.49-64.

**Kruuse, H.**

**Kruuse, H.** (2015) Book Review: The law of divorce and dissolution of life partnerships in South Africa. Jacqueline Heaton (Editor). Cape Town, South Africa. Juta. 2015, 800pp. ISBN 9781485107347, R950. *Journal for juridical science*. 40 (1). p.69-74.

Mwanbebe, L. and **Kruuse, H.** (2015) Unfulfilled Promises? The Implementation of the Recognition of Customary Marriages Act in South Africa. *International Journal of Law Policy and the Family*. 29 (2015). p.237-259.

**Mcconnachie, C.J.C.**

**Mcconnachie, C.J.C.** (2015) Transformative Unfair Discrimination Jurisprudence: The Need for a Baseline Intensity of Review. *South African Journal on Human Rights*. 31 (3). p.504-525.

**Muller, G.**

**Muller, G.** (2015) Evicting unlawful occupiers for health and safety reasons in post-apartheid South Africa. *South African law journal*. 2015 (3). p.616-638.

**Muller, G.** (2015) Proposing a way to develop the substantive content of the right of access to adequate housing: An alternative to the reasonableness review model. *Southern African Public Law (SA Public Law)*. 30 (1). p.71-93.

**Nwauche, E.S.**

**Nwauche, E.S.** (2015) Civil Questions Involving Customary Law as the Basis of Appellate Jurisdiction in Nigeria. *Acta universitatis danubius. Juridica*. 11 (1). p.38-53.

**Nwauche, E.S.** (2015) Affiliation To A New Customary Law In Post-Apartheid South Africa. *Potchefstroomse elektroniese regsblad/Potchefstroom electronic law journal*. 18 (3). p.569-592.

Jobeta, T. and **Nwauche, E.S.** (2015) Double Marriages in Botswana: Possibilities Implications and Comparative Perspectives. *International Journal of Law Policy and the Family*. 29 (2015). p.121-131.

**Nwauche, E.S.** (2015) Child marriage in Nigeria: (Il)legal and (un)constitutional? *African human rights law journal*. 15 (2015). p.421-432.

**Nwauche, E.S.** (2015) The protection of indigenous terms and expressions by the Merchandise Marks Act in South Africa. *Queen Mary Journal of Intellectual Property*. 5 (2). p.214-225.

**Renaud, C.A.**

Arendse, J.A., Stark, K. and **Renaud, C.A.** (2015) The Cohen and Kuttel stories: Is the place where I hang my hat still relevant to determine my residence for tax purposes? *Southern African Business Review*. 19 (2015). p.1-24.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bodenstein, J.**

**Bodenstein, J.** Quo vadis the "bleeding heart" law clinician - welcome to the real world. *The Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Bodenstein, J.** The refusal by the South African government to accede to the ICC warrant of arrest of Al Bashir, the Sudanese President: the implications and a possible way forward. *Justice Today for Peace Tomorrow: A conference marking 10 years of MICC*. Topography of Terror Documentation Centre, Berlin. Germany. October 2015.

**Campbell, J.**

**Campbell, J.** The purpose and impact of justice education, and its incorporation in legal education programme design. *8th Global Alliance for Justice Education (GAJE) World Conference, Justice Education for a Just Society*. Anadolu University, Eskisehir. Turkey. July 2015.

**Campbell, J.** The incorporation of justice education through clinical legal education in LLB programme design. *The Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Campbell, J.** Service learning at the Rhodes University Law clinic. *Rhodes University Community Engagement Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Cooper-Bell, T.C. and Mpofo, N.**

**Cooper-Bell, T.C. and Mpofo, N.** A Law Clinic Approach to Community Engagement: "Making Justice Work" through project involvement. *Rhodes University Community Engagement Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Dzedze, S.L.**

**Dzedze, S.L.** The Actio Iniuriarum Claim for Damages based on adultery in light of RH v DE. *Private Law and Social Justice Conference*. Nelson Mandela Metropolitan University, Port Elizabeth. South Africa. August 2015.

**Glover, G.B.**

**Glover, G.B.** Should the Constitutional Court be principled, or just be "cool" to the parties? Cool ideas 1186 CC v Hubbard 2014 (4) SA 474 (CC). *Private Law and Social Justice Conference*. Nelson Mandela Metropolitan University, Port Elizabeth. South Africa. August 2015.

**Hillier, J.H.**

Welgemoed, M. and **Hillier, J.H.** First do no harm - best practice for clinical supervisors. *The Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Jabavu, P.**

**Jabavu, P.** Oral traditions and history: tools for socio-educational change and the reformulation of being. *Oral History and Religion Heritage Conference*. Steve Biko Centre, King Williams Town. South Africa. October 2015.

**Juma, L.O.**

**Juma, L.O.** Contemporary Challenges to IHL: Private Military and Security companies. *The ICRC 15th Annual Regional Seminar on IHL*. Department of International Relations and Cooperation, Pretoria. South Africa. August 2015.

**Juma, L.O.** Appraising the role of the African Union in the Promotion of International Humanitarian Law in Africa. *The Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Juma, L.O.** Implication of the Private Security Industry Regulation Amendment Act 2012 on South Africa's Constitution. *Private Security Industry Regulation Reform Seminar*. Mandela Institute, University of the Witwatersrand (WITS) Law School, Johannesburg. South Africa. March 2015.

**Krüger, R.**

**Krüger, R.** Law regulating behaviour - the case of harassment. *The*

*Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Krüger, R.** Free speech, hate speech and commemoration. *North West University Law Faculty in celebration of its 50th anniversary*. North-West University, Potchefstroom. South Africa. September 2015.

**Kruuse, H.**

**Kruuse, H.** Legal ethics education: Using theory for best practice. *The Society of Law Teachers of Southern Africa Conference*. Varsity College, Durban. South Africa. July 2015.

**Muller, G.**

**Muller, G.** The Impact of the National Environmental Management: Biodiversity Act 10 of 2004 on the obligations of a usufructuary. *Private Law and Social Justice Conference*. Nelson Mandela Metropolitan University, Port Elizabeth. South Africa. August 2015.

**Muller, G.** The meaning and significance of 'home' for people living with insecure tenure. *Workshop on The Precarious Home: Socio-legal Perspectives on the Home in Insecure Times*. International Institute for the Sociology of Law, Onati. Spain. June 2015.

**Nwauche, E.S.**

**Nwauche, E.S.** Emerging Standards in the Protection of Traditional Cultural Expressions in Africa. *34th Annual Conference of the International Association for the Advancement of Teaching and Research in Intellectual Property (ATRIP)*. Radisson Blu Hotel, Cape Town. South Africa. September 2015.

**Nwauche, E.S.** Expanding Constitutional Justice: Direct Access to Anglophone African Constitutional Courts. *Third Stellenbosch Annual Seminar on Constitutionalism in Africa*. Stellenbosch University, Stellenbosch. South Africa. September 2015.

**Nwauche, E.S.** Neutral Principles and the Criminal Prosecution of Religious Leaders in African States: a Constitutional Inquiry. *Third ACLARS (African Consortium for Law and Religion Studies) Conference Religious Freedom and Religious Pluralism in Africa*. University of Namibia, Windhoek. Namibia. May 2015.

**Van Coller, E.H.**

**Van Coller, E.H.** Homoseksualiteit en die Kerk. *Annual Symposium SA Akademie vir Wetenskap en Kuns: Spanning: lokaal en globaal/Tensions: local and global*. University of Pretoria. Pretoria. South Africa. October 2015.

**Van Coller, E.H.** Homosexuality and the Church: Controversies and Challenges. *Third ACLARS (African Consortium for Law and Religion Studies) Conference: Religious Freedom and Religious Pluralism in Africa*. University of Namibia. Windhoek. Namibia. May 2015.

**Van Coller, E.H.** Freedom of Religion and Religious Education: Challenges and Opportunities. *Fifth International Conference on Religion and Spirituality in Society*. University of California, Berkeley. United States of America. April 2015.

## MANAGEMENT

The Department of Management during 2015 continued to integrate the development of research skills into its teaching, particularly at the fourth-year level where students are exposed to a research methodology module. The Department also offers a structured research component on the Masters and PhD programme.

## Postgraduates / Graduations

During 2015, fourteen (14) Masters students and four (4) PhD students were registered in the Department. Of these, four (4) Masters students will graduate at the 2016 graduation ceremony.

## Distinguished Visitors / International Visits

International visits by staff members of the Department took place during the year. This included **Professor Lynette Louw** and **Mr Theus Louw** who lectured at the Shanghai University of International Business and Economics (SUIBE) in Shanghai, China. Messrs Theus Louw and **Hans-Peter Bakker** also lectured in the Summer School programme at the University of Utrecht in Utrecht, Netherlands.

## Significant Research Aligned Events

**Mr Maritz** contributed a chapter to a Logistics Management textbook. Staff also presented their research at local conferences and published their research work in a journal.

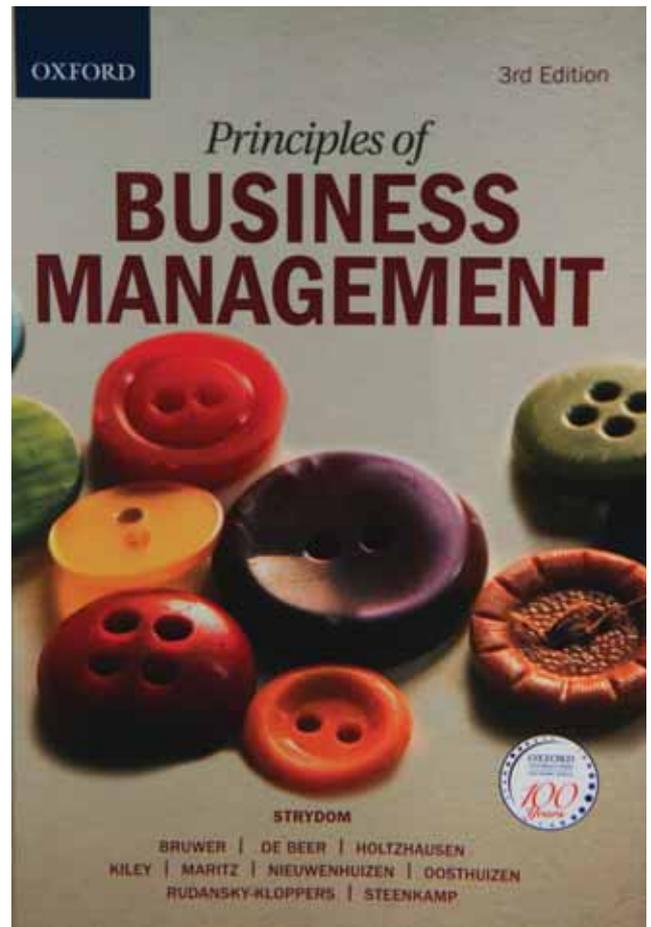
Professor Lynette Louw was pleased to share that her research project entitled "*Chinese organizations in Sub-Saharan Africa: New dynamics, new synergies*", previously funded by the Sandisa Imbewu funding from Rhodes University, is currently being funded by the National Research Foundation (NRF) for a three (3) year period.

The data collected from Chinese organisations in South Africa, Uganda, Tanzania, Cameroon and Kenya is currently being disseminated by means of national and international conference papers and publications. To date eleven (11) conference papers have been delivered.

Further contributions will be made in a monograph entitled "*Chinese Organizations in Sub-Saharan Africa: New Dynamics, New Synergies*". Editors of the monograph include: Terence Jackson, Lynette Louw, D. K. (Roshan) Boojihawon and Tony Fang with a foreword by Shuming Zhao, Dean, at Nanjing University Business School.

It is pleasing that three (3) PhDs, six (6) Master's students and three (3) groups of honours students have been registered under the auspices of this project. Two (2) honours students and two (2) of the three (3) Master's students have graduated with distinctions

A further development was the establishment of a "*China/Africa Higher Education Institution Consortium*" which is a collaboration



Mr Mark Maritz contributed the chapter *Logistics Management* to the book *Principles of Business Management*, published by Oxford University Press, South Africa.  
Photo: Tarryn Gillitt

between the five (5) South African Universities and five of the top universities in China to further research and project collaboration between China and South Africa, especially contributing towards achieving the goals of the Forum on China-Africa Cooperation (FOCAC) as outlined in the Johannesburg Summit in December 2015.

**Mr Trevor Amos**  
Head of Department



Mr Mark Maritz, staff member in the Department of Management  
 Photo: Paul Greenway/3pphotography

## Books/Chapters/Monographs

**Maritz, M.**

**Maritz, M.** (2015) Logistics Management. In: Strydom, J. (ed.). *Principles of Business Management*. South Africa: Oxford University Press. p.177-191. ISBN: 9780199056514.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Mayer, C.H. and Louw, L.**

**Mayer, C.H., Louw, L. and Baxter, J.** (2015) 'Committed, motivated and joyful?' Job satisfaction and organisational commitment of managers at a South African public utility. *Acta Commercii*. 15 (1), p.1-12. Art. #291, 12 pages. <http://dx.doi.org/10.4102/ac.v15i1.291>

## Peer-reviewed Proceedings

**Louw, L.**

Ndhlovu, T. and **Louw, L.** A Multi-Dimensional Comparison of Service Loyalty of Supermarket Customers. *The 27th SAIMS Annual Conference: Management in Southern Africa: Change, Challenge and Opportunity*. University of Cape Town, Cape Town. South Africa. August 2015.

**Mayer, C.H.**

**Mayer, C.H.** and Surtee, S. About Being Pragmatic, Tough and a Role Model - Identity of Women Leaders in South African Higher Education. *The 27th SAIMS Annual Conference: Management in Southern Africa: Change, Challenge and Opportunity*. University of Cape Town, Cape Town. South Africa. August 2015.

**Muriithi, S.M. and Louw, L.**

**Muriithi, S.M., Louw, L. and Radloff, S.** The Relationship between Emotional Intelligence and Leadership Effectiveness among Kenyan Indigenous Banks. *The 27th SAIMS Annual Conference: Management in Southern Africa: Change, Challenge and Opportunity*. University of Cape Town, Cape Town. South Africa. August 2015.

## Peer-reviewed Book of Abstracts and Conference Presentation

**Louw, M.J.**

**Mabuza, L.T. and Louw, M.J.** High commitment work system and organisational commitment - the case of a Chinese multinational corporation. *The 27th Annual SAIMS Conference: Management in*

*Southern Africa: Change, Challenge and Opportunity*. University of Cape Town, Cape Town. South Africa. August 2015.

## Non-peer reviewed Conference Presentation

**Louw, L.**

**Louw, L.** Chinese organisations in Sub-Saharan Africa: New dynamics, New synergies. *The 15th International Conference on Science, Engineering, Technology and Management of Innovation and the 2nd Forum on International Higher Education*. University of Pretoria, Pretoria. November, 30 - December 1, 2015.

# MATHEMATICS

The department is actively engaged in a number of fields of research in both pure and applied mathematics. These include functional analysis, measure theory, geometric control, matrix Lie groups, graph theory, non-autonomous dynamical systems, machine learning, computational astrophysics and relativistic cosmology. This work is supported by a growing number of graduate students and Postdoctoral assistants who contribute to a lively research environment, including weekly journal clubs and a regular seminar series.

## Postgraduates / Graduations

The department supervised three (3) Masters and seven (7) PhD students during 2015, a number of them through competitive external scholarships.

Three of our PhD students successfully graduated. Ross Adams's thesis, supervised by Dr Claudiu Remsing and co-supervised by Dr William Holderbaum (Reading), was titled, "*Contributions to the study of a class of optimal control problems on the orthogonal groups  $SO(3)$  and  $SO(4)$* ". Rory Biggs was supervised by Dr Claudiu Remsing and co-supervised by Professor Peter Nagy (Budapest). His thesis was on "*Invariant control systems and sub-Riemannian structures on Lie groups: Equivalence and isometries*". Matiki Talwanga's thesis was on "*Counting of finite fuzzy subsets with applications to fuzzy recognition and selection strategies*", supervised by Professor Venkat Murali.

During 2015, we were joined by a new Postdoctoral assistant, Dr Bishop Mongwane, who is recently graduated from University of Cape Town (UCT), who was working on applying the techniques of numerical relativity to cosmological models of structure formation. Subsequently, Dr Mongwane has been offered and accepted a lectureship at UCT, and we congratulate him on his success and look forward to continued fruitful collaborations.

## Distinguished Visitors / International Visits

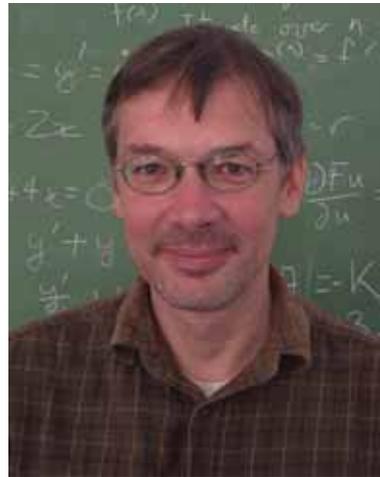
Our academic staff made research visits to Germany, Hungary, Romania, Slovenia, Spain, Sweden and the United Kingdom. We also hosted guests from collaborators in Hungary, Germany, Belgium and the United States of America who participated in our local seminar series for staff and students.

## Significant Research Aligned Events

**Professor Larena** served on the scientific organizing committee of the international "*Dark Side of the Universe*" conference in Cape Town.

**Dr Remsing** continued his participation in the Marie-Curie funded LIE-DIFF-GEOM programme, involving collaborators from Italy, Hungary, Czech Republic, with travels to Europe during June 2015 and July 2015.

The department became a member of the National Astrophysics and Space Science Programme, based at UCT. This will allow us



Department of Mathematics HOD, Professor Dennis Pollney.  
Photo: Department of Mathematics

to deliver graduate courses and attract graduate students from the broader astrophysics community in South Africa.

### Professor Denis Pollney

Head of Department

## International Visits

- Bishop, N.T.**  
**Bishop, N.T.** Max-Planck Institute for Gravitational Physics, Potsdam, Germany. *Cauchy-characteristic matching*. 6 - 20 September 2015.
- Bishop, N.T.** Perimeter Institute, Waterloo, Canada. *Gravitational waves in a de Sitter universe*. 14 - 30 October 2015.
- Bishop, N.T.** Goethe University Frankfurt am Main, Frankfurt am Main, Germany. *Compactification of the perturbative matching equations for gravitational wave extraction*. 20 September - 2 October 2015.
- Bishop, N.T.** Universitat de les Illes balears, Palma de Mallorca, Spain. *Gravitational wave analysis using neural networks*. 2 - 22 December 2015.
- Larena, J.**  
**Larena, J.** Queen Mary University of London, London, United Kingdom. *Application of the stochastic lensing formalism*. 1 - 17 December 2015.
- Remsing, C.C.**  
**Remsing, C.C.** West University of Timisoara, Timisoara, Romania. *Research collaboration*. 29 - 30 June 2015.
- Remsing, C.C.** University of Ostrava, Ostrava, Czech Republic. *Research collaboration (under Marie Curie IRSES project: 317721)*. 17 May - 4 June 2015.

**Remsing, C.C.** Obuda University, Budapest, Hungary. *Research collaboration (under Marie Curie IRSES project: 317721)*. 14 - 15 June 2015.

**Remsing, C.C.** University of Debrecen, Debrecen, Hungary. *Research collaboration (under Marie Curie IRSES project: 317721)*. 16 - 27 June 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Biggs, R. and Remsing, C.C.**

**Biggs, R. and Remsing, C.C.** (2015) Subspaces of real four-dimensional Lie algebras: classification of subalgebras, ideals, and full-rank subspaces. *Extracta Mathematicae*. 31 (1). p.41-93.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Bester, H.L., Larena, J. and Bishop, N.T.**

**Bester, H.L., Larena, J. and Bishop, N.T.** (2015) Towards the geometry of the Universe from data. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.2364-2377.

**Hees, A.**

Delva, P., **Hees, A.**, Bertone, S., Richard, E. and Wolf, P. (2015) Test of the gravitational redshift with stable clocks in eccentric orbits: application to Galileo satellites 5 and 6. *Classical and Quantum Gravity*. 32 (2015). p.1-11.

**Hees, A.**, Bailey, Q.G., Le Poncin-Lafitte, C., Bourgoin, A., Rivoldini, A., Lamine, B., Meynadier, F., Guerlin, C. and Wolf, P. (2015) Testing Lorentz symmetry with planetary orbital dynamics. *Physical Review D*. 92 (2015). p.1-12.

**Hees, A. and Larena, J.**

**Hees, A.**, Minazzoli, O. and **Larena, J.** (2015) Observables in theories with a varying fine structure constant. *General Relativity and Gravitation*. 47 (9). p.1-14.

**Larena, J.**

Sussman, R.A. and **Larena, J.** (2015) Gravitational entropy of local cosmic voids. *Classical and Quantum Gravity*. 32 (2015). p.1-23.

Fleury, P., **Larena, J.** and Uzan, J.P. (2015) The theory of stochastic cosmological lensing. *Journal of Cosmology and Astroparticle Physics*. 2015 (11). p.1-50.

**Mongwane, B.**

**Mongwane, B.** (2015) Toward a consistent framework for high order mesh refinement schemes in numerical relativity. *General Relativity and Gravitation*. 47 (60). p.1-21.

**Naicker, V.**

Henning, M.A. and **Naicker, V.** (2015) Graphs with large disjunctive total domination number. *Discrete Mathematics and Theoretical Computer Science*. 17 (1). p.255-282.

**Pinchuck, A.L.**

**Pinchuck, A.L.** and Jager, G. (2015) On the isomorphy of categories of probabilistic limit spaces under t-norms. *Hacettepe Journal of Mathematics and Statistics*. 44 (6). p.1411-1426.

## Peer-reviewed Proceedings

**Bishop, N.T.**

**Bishop, N.T.** and Rezzolla, L. Extraction of GWs from a Numerical Simulation. *Third Session of the sant Cugat Forum on Astrophysics*. Sant Cugat, Barcelona. Spain. April 2014.

**Hees, A.**

Hestroffer, D., David, P., **Hees, A.** and le Poncin-Lafitte, C. Local Tests of General Relativity with Faia and Solar System Objects. *Journées 2014 Systèmes de référence spatio-temporels: Recent developments and prospects in ground-based and space astrometry*. Pulkovo Observatory, St. Petersburg. Russia. September 2014.

Minazzoli, O. and **Hees, A.** Basics of the Pressuron. *2015 Gravitation: 100 years after GR*. La Thuile, Aosta Valley. Italy. March 2015.

**Hees, A.**, Hestroffer, D., Le Poncin-Lafitte, C. and David, P. Tests of Gravitation with Gaia Observations of Solar System Objects. *SF2A 2015*. Université Paul Sabatier, Toulouse. France. June 2015.

Delva, P., **Hees, A.**, Bertone, S., Richard, E. and Wolf, P. Test of the Gravitational Redshift using Galileo Satellites 5 and 6. *2015 Gravitation: 100 years after GR*. La Thuile, Aosta Valley. Italy. March 2015.

**Hees, A.**, Bertone, S., le Poncin-Lafitte, C. and Teyssandier, P. Range, Doppler and Astrometric Observables Computed from Time Transfer Functions: A Survey. *Journées 2014 Systèmes de référence spatio-temporels: Recent developments and prospects in ground-based and space astrometry*. Pulkovo Observatory, St. Petersburg. Russia. September 2014.

**Hees, A. and Larena, J.**

**Hees, A.**, Minazzoli, O. and **Larena, J.** Some Cosmological Consequences of a Breaking of the Einstein Equivalence Principle. *2015 Gravitation: 100 years after GR*. La Thuile, Aosta Valley. Italy. March 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Andriantiana, E.O.D.**

**Andriantiana, E.O.D.** and Wagner, S. Trees with minimum number of infima closed sets. *8th Slovenian Conference on Graph Theory*. Hotel Kompas, Kranjska Gora. Slovenia. June 2015.

**Bishop, N.T., Bester, H.L. and Larena, J.**

**Bishop, N.T.**, **Bester, H.L.** and **Larena, J.** The characteristic formalism: cosmology constructed from observational data. *Fourteenth Marcel Grossmann Meeting*. University of Rome "La Sapienza", Rome. Italy. July 2015.

**Remsing, C.C.**

**Remsing, C.C.** Invariant control systems on Lie groups. *International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2015)*. Yildiz Technical University, Istanbul. Turkey. June 2015.

**Bishop, N.T. and Pollney, D.**

Reisswig, C. **Bishop, N.T.** and **Pollney, D.** Numerical Relativistic Null-cone Evolutions at Fourth Order Accuracy. *13th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Astrophysics, and Relativistic Field Theories (MG13)*. July 2012. Stockholm, Sweden.



PhD candidate in the Department of Mathematics in 2015,  
Mr Sithembele Nkonkobe.  
Photo: Department of Mathematics

## MUSIC AND MUSICOLOGY

The Department of Music and Musicology enjoyed another year focused on staff and student creative outputs, teaching and learning, and research.

The Department presented a number of successful concerts in the annual Rhodes University (RU) concert series in 2015. Local, national and international performers graced the Department's stage with their musical presences. In order to raise the Department's profile on a national level, as well as to provide Rhodes staff and alumni with a performance platform, the Department introduced a new series of concerts in collaboration with the 2015 National Arts Festival.

Three (3) chamber staff concerts, in which eight (8) staff members performed, and five (5) solo alumni performances were presented to high critical acclaim.

Three (3) staff members were involved in international ventures in 2015: Dr Jeffrey Brukman presented a paper entitled *African-Western Dialogues: Bongani Ndodana-Breen's "Emhlabeni"* at the Musical Dialogues conference held at the Sydney Conservatorium of Music, Australia; Ms Daniela Heunis presented a paper entitled *Tintinyane, being from Africa* at the Cultural Diversity in Music Education XII conference held at the Music Department, Sibelius Academy, Helsinki, Finland; Professor Catherine Foxcroft served on the jury for the first round of the UNISA International Piano Competition in Pretoria.

**Professor Catherine Foxcroft**  
Head of Department



DSG staff member Kwazi Mkula (left) and Rhodes University BMus 2 student Akhona Nkinti (right) performing at *Carnival of the Animals*.  
Photo: Professor Catherine Foxcroft

## Concerts, Exhibitions, Performances, Workshops, Events

### **Brukman, J.J.**

**Brukman, J.J.** Collaborative pianist. Rhodes University Student-Lecturer Vocal Recital. *Recital: Sikelelwa Qwazi (voice), Jo-Nette LeKay (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 28 May 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Public Postgraduate Performance. *Recital: Kamogelo Sepotokele (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 23 November 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Public Postgraduate Performance. *Recital: Kay Mosiane (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 23 November 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Public Postgraduate Performance. *Recital: Raymond Ndhlovu (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 23 November 2015.

**Brukman, J.J.** Collaborative pianist. Hogsback Arts Festival. *Recital: Gwyneth Lloyd (voice), Devon Florence (voice), Kay Mosiane (voice), Kamogelo Sepotokele (voice), Raymond Ndhlovu (voice), Daniel Lulua (voice) and Jeffrey Brukman (piano)*. Fivaz Residence, Hogsback. South Africa. 22 November 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Public Postgraduate Performance. *Chamber Vocal Recital: Kay Mosiane (voice), Kamogelo Sepotokele (voice), Raymond Ndhlovu (voice), Devon Florence (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 24 November 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Lunch Hour Concert Series. *Recital: Daniel Lulua (voice), Raymond Ndhlovu (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 11 November 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Lunch Hour Concert Series. *Recital: Kamogelo Sepotokele (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 14 October 2015.

**Brukman, J.J.** Collaborative pianist. Rhodes University Lunch Hour Concert Series. *Recital: Kay Mosiane (voice) and Jeffrey Brukman (piano)*. Beethoven Room, Grahamstown. South Africa. 23 September 2015.

### **Foxcroft, C.J.**

**Foxcroft, C.J.** Chamber recital. George Arts Theatre Concert Series. *Chameleon Trio: Bridget Rennie-Salonen (flute, SA), Sarah Burnett (bassoon, UK) and Catherine Foxcroft (piano, SA)*. Arts Theatre, George. South Africa. 15 February 2015.

**Foxcroft, C.J.** Chamber recital. Humansdorp Concert Series. *Rhodes Piano Trio: Duncan Samson (violin), Kwazi Mkula (cello), Catherine Foxcroft (piano)*. Moederkerk, Humansdorp. South Africa. 6 May 2015.

**Foxcroft, C.J.** Chamber performance. NAF Rhodes staff concerts. *Tribute to Rebecca Clarke: Lizzie Rennie (viola) and Catherine Foxcroft (piano)*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 2 July 2015.

**Foxcroft, C.J.** Chamber performance. NAF Main event Performance 5 July: USA Lonestar Classical Voices Quartet (Bronwen Forbay, Jamie van Eyck, Randy Umstead, Christian Bester), Kaju Lee (pianist), Catherine Foxcroft (pianist). *Romantic Songs of Love: Brahms Neue Liebeslieder, Op 65; Brahms Liebeslieder, Op 52*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 5 July 2015.

**Foxcroft, C.J.** Chamber recital. Stirling High Concert Series. *Chameleon Trio: Bridget Rennie-Salonen (flute, SA), Sarah Burnett (bassoon, UK) and Catherine Foxcroft (piano, SA)*. Stirling High Concert Hall, East London. South Africa. 13 February 2015.

**Foxcroft, C.J.** Chamber performance. NAF Main event Performance 3 July: USA Lonestar Classical Voices Quartet (Bronwen Forbay, Jamie van Eyck, Randy Umstead, Christian Bester), Kaju Lee (pianist), Catherine Foxcroft (pianist). *Romantic Songs of Love: Brahms Neue Liebeslieder, Op 65; Brahms Liebeslieder, Op 52*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 3 July 2015.

**Foxcroft, C.J.** Chamber performance. NAF Rhodes Staff Concerts. *Tribute to Edith Piaf and Maria Callas: Jo-Nette Lekay (soprano), Etienne Ferreira (voice/piano), Catherine Foxcroft (piano)*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 2 July 2015.

**Foxcroft, C.J.** Chamber performance. NAF Rhodes Staff Concerts. *Rhodes Piano Trio: Duncan Samson (violin), Kwazi Mkula (cello), Catherine Foxcroft (piano)*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 2 July 2015.

**Foxcroft, C.J.** Chamber performance. Grahamstown Music Society. *Rhodes Piano Trio: Duncan Samson (violin), Kwazi Mkula (cello), Catherine Foxcroft (piano)*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 24 June 2015.

**Foxcroft, C.J.** Chamber recital. Baxter Hall CT 1st Galway Flute Festival. *Chameleon Trio: Bridget Rennie-Salonen (flute, SA), Sarah Burnett (bassoon, UK) and Catherine Foxcroft (piano, SA)*. Baxter Hall, Cape Town. South Africa. 18 February 2015.

**Foxcroft, C.J.** Chamber recital. Rhodes University Concert Series Chamber performance. *Chameleon Trio: Bridget Rennie-Salonen (flute, SA), Sarah Burnett (bassoon, UK) and Catherine Foxcroft (piano, SA)*. Beethoven Room, Rhodes University, Grahamstown. South Africa. 16 February 2015.

**Ramanna, N.**

Martin, L. and **Ramanna, N.** performer-composer. Programme of original compositions. *RU Department of Music and Musicology Concert Series*. Beethoven Room, Grahamstown. South Africa. 12 September 2015.

Martin, L. and **Ramanna, N.** Performer-composer. *RU Music Department National Arts Festival Shows in the Beethoven Room*. Programme of original music. Beethoven Room, Grahamstown. South Africa. 3 July 2015.



Performances of the *Carnival of the Animals*, a set of four concerts which the Rhodes Orchestra and pianists staged in October 2015. Professor Catherine Foxcroft conducted a research project based on these performances which she later presented at the *Performing Knowledge Conference* held in Cambridge University in April 2016.

Photo: Professor Catherine Foxcroft

## Distinguished Visitors

**Brukman, J.J.**

**JJ Brukman.** UNISA, Directorate: Music, George, Oudtshoorn, Beaufort West, South Africa. *Examiner for UNISA Directorate: Music public graded examinations*. September 2015.

**JJ Brukman.** University of South Africa, Directorate: Music, Cape Town, South Africa. *Academic presentation*. July 2015.

**JJ Brukman.** University of South Africa, Directorate: Music, Pretoria, South Africa. *Academic presentation*. July 2015.

**Foxcroft, C.J.**

**CJ Foxcroft.** UNISA, Pretoria, South Africa. *UNISA International Piano Competition Juror (screening committee)*. October 2015.

## International Visits

**Brukman, J.J.**

**Brukman, J.J.** University of Newcastle, School of Creative Arts, Conservatorium of Music, Newcastle, Australia. *Guest Lecturer*. 5 - 7 October 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Brukman, J.J.**

**Brukman, J.J.** African-Western Dialogues: Bongani Ndodana-Breen's "Emhlabeni". *Musical Dialogues*. Sydney Conservatorium of Music, Sydney, Australia. October 2015.

**Heunis, D.**

**Heunis, D.** Tintinyane, being from Africa. *Cultural Diversity in Music Education XII*. Music Department, Sibelius Academy, Helsinki. Finland. June 2015.



The production team of *Carnival of the Animals*, comprised of the Rhodes orchestra and pianists, Johan Pretorius from St Andrews College, DSG staff members Kwazi Mkula and Liz Rennie, as well as performers from DSG, Graeme and Kingswood. Photo: Professor Catherine Foxcroft

# INTERNATIONAL LIBRARY OF AFRICAN MUSIC

ILAM's innovative practice of giving back to researched communities, the knowledge gained through research via publication of African music education textbooks, curation of museum exhibitions, and digital return of recordings to their communities of origin is setting a standard for archival ethics.



## Distinguished Visitors / International Visits

On 14 May, 2015 ILAM, with the US Embassy and the Unit for Zimbabwean Studies hosted 'Women and their Songs' a seminar featuring rapper, poet, spoken word artist Dessa from the USA and singer, songwriter, mbira player, Hope Masvike, from Zimbabwe in conversation about their work as female artists and how they manage their international careers. On 4 July 2015 ILAM hosted an opening/preview of the newly created display of its instrument collection and a 60th Anniversary "Celebrating African Music" Concert in the Great Hall at the National Arts Festival that enjoyed a sold out audience. United States Ambassador to South Africa, Mr Patrick Gaspard spoke at the opening event, commenting that providing the grant for preservation of ILAM's instrument collection from the US Ambassador's Fund for Cultural Preservation was one of the easiest and best decisions he has made as Ambassador. Andrew Tracey presented Ambassador Gaspard with a specially engraved kalimba. Both the instrument collection preview and concert were a great success.

## Significant Research Aligned Events

Director, Professor Diane Thram, was an invited presenter at the multidisciplinary *"Memory, Power and Knowledge in Africa and*

*ViyaKazi Movers Pantsula Dancers at Celebrating African Music 60th Anniversary Concert, 4 July 2015.*  
Photo: ILAM photo

*Beyond"* conference at the Dhow Countries Music Academy, Zanzibar, in June 2015. She presented on ILAM's Repatriation Project in Digital Return and Re-study of Hugh Tracey's Field Recordings. Immediately before and after the conference she carried out field research interviews with descendants of musicians and community members to digitally return and restudy Hugh Tracey's recordings made in Zanzibar in June 1950.

In September 2015 she presented at the *Society for Ethnomusicology (SEM) - International Council for Traditional Music (ICTM) Joint Forum: Transforming Ethnomusicological Praxis through Activism and Community Engagement* at the University of Limerick, Limerick, Ireland, on the full scope of ILAM projects in research, community outreach and education, and repatriation over the past ten years. Presentations at these and other local and international conferences to audiences of internationally recognized scholars provided an excellent opportunity to showcase ILAM initiatives that bring together research, community education and repatriation.

ILAM's innovative practice of giving back to researched communities the knowledge gained through research via

publication of African music education textbooks, through curation of museum exhibitions, and through digital return of its founder, Hugh Tracey's historic field recordings to their communities of origin is setting a standard for archival ethics.

**Professor Diane Thram**

Director

---

Professor Diane Thram returning Zanzibari recordings to Dhow Countries Music Academy in Zanzibar.

Photo: ILAM photo



---

## Books/Chapters/Monographs

**Thram, D.J.**

**Thram, D.J.** (2015) Performing the Archive: Repatriation of Digital Heritage and the ILAM Music Heritage Project SA. In: Soloman, T. (ed.). *African Musics in Context*. Kampala, Uganda: Fountain Publishers. p.67-85. ISBN: 9789970252459.

---

## Concerts, Exhibitions, Performances, Workshops, Events

**Thram, D.J.**

**Thram, D.J.** producer. *Celebrating African Music International Library of African Music 60th Anniversary Concert*. Great Hall, Grahamstown. South Africa. 4 July 2015.

---

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Thram, D.J.**

**Thram, D.J.** (2015) Understanding music's therapeutic efficacy with implications for why music matters. *Action, Criticism & Theory for Music Education*. 14 (3). p.63-74.

---

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Thram, D.J.**

**Thram, D.J.** (2015) Editor of Journal. *African Music: Journal of the International Library of African Music*. 10 (1). p.4-232.

**Tracey, A.**

**Tracey, A.** (2015) The System of the Mbira. *African Music: Journal of the International Library of African Music*. 10 (1). p.127-149.

---

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Thram, D.J.**

**Thram, D.J.** Archives, Heritage Activism and Engaged Ethnomusicology: sustaining African musical heritage through research, outreach and education and repatriation. *SEM-ICTM Joint Forum: Transforming Ethnomusological Praxis through Activism and Community Engagement*. University of Limerick, Limerick. Ireland. September 2015.

**Thram, D.J.** Music archives and engaged ethnomusicology: the intersection of research, education and repatriation. *Society for Ethnomusicology*. University of Texas, Austin. Texas. December 2015.



New ILAM Instrument Collection display viewed from reception area.  
Photo: ILAM photo

**Thram, D.J.** Music heritage archives and engaged ethnomusicology: the intersection of research, education and repatriation. *South African Society for Research in Music*. University of Cape Town, Cape Town. South Africa. July 2015.

**Thram, D.J.** Archives, Heritage Education and Revitalization: The "ILAM Music Heritage Project SA" and Digital Return and Re-Study of Hugh Tracey Field Recordings. *Memory, Power and Knowledge in Africa and Beyond*. Dhow Countries Music Academy, Zanzibar. Tanzania. June 2015.

# DEPARTMENT OF PHARMACY

The research activities in the Faculty of Pharmacy continued to flourish and to make a significant impact nationally and internationally. The year began with a bang as we received the news that Dr Sandile Khamanga had received a Y2 rating by the National Research Foundation (NRF). This is significant recognition of his track record as a productive researcher.

## Introduction

**Professor Ros Dowse's** many contributions to the discipline were rightfully acknowledged when she was inducted as an Honorary Life Member of the Academy of Pharmaceutical Sciences at their Annual General Meeting (AGM) and Conference in 2015. This is a rare privilege and a prestigious distinction.

**Professor Sunitha Srinivas** received a grant from the Talloires Network under their "*University Education for Transformative Leadership in Africa*" programme. This programme recognises individuals at universities in Africa working in community-engaged teaching, research and scholarship.

Staff and students presented their research at a wide range of local and international conferences, as detailed below, and published nineteen (19) journal articles.

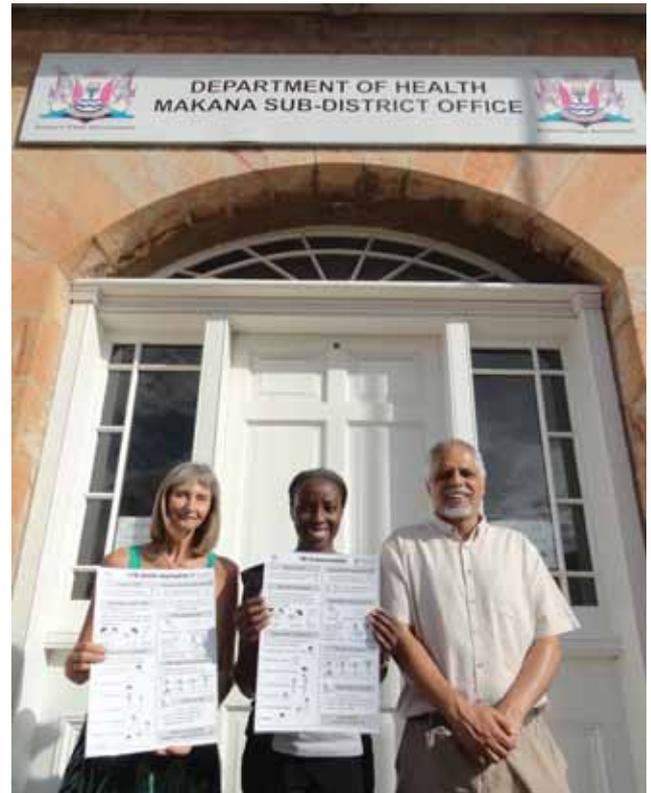
Chantell Hayward-Zeelig, a PharmD student, based at the Kimberley Hospital Complex, presented both a talk and a poster at the South African Association of Hospital and Institutional Pharmacists (SAAHIP) annual conference, and she was awarded both the Life Health Care Best Podium Presentation and Poster awards.

At the 2015 Community Engagement Awards in October the Faculty was very well represented by our research students, particularly Shingirai Katsinde and Nomsa Chemuru, who jointly received the top award in the *Student Researcher of the Year* category for their research in areas of exclusive breastfeeding promotion and teenage pregnancy prevention in local communities. Fadzai Mushoriwa and Tinatsei Chigumete were runners-up in the same *Student Researcher of the Year* category for their research on health promotion for non-communicable diseases.

## Distinguished Visitors / International Visits

One of the highlights of the year was the visit by Dr. Hans Hogerzeil, Professor of Global Health at the University of Groningen, Co-Chair of the Lancet Commission on Essential Medicines Policies and former World Health Organisation (WHO) Director for Essential Medicines and Pharmaceutical Policies in September 2015.

Dr Betty Patterson from North Dakota State University, a regular visitor, and a major contributor to the Pharm D programme, visited the Faculty in October 2015. During her time here she also visited the Pharm D students at their bases in Port Elizabeth, East London and Kimberley, providing the Pharm D class with a valuable international perspective.



Professor Ros Dowse (LEFT) and her MPharm student Ida Okeyoare (CENTRE) seen here with a representative of the Makana District Health Office, Mohamed Docrat, displaying a simple, illustrated poster on key aspects of TB and its prevention and diagnosis developed as part of Ida's research programme.  
Photo credit: Department of Pharmacy

## Significant Research Aligned Events

At the end of November 2015, the Postgraduate students again organised a very successful Postgraduate research symposium at which they had an opportunity to present their research to their peers and to the staff of the Faculty.

**Professor George Wells**  
Acting Dean of Pharmacy

## Distinguished Visitors

**Patterson, B.**

**Dr B Patterson.** North Dakota State University, Fargo, United States of America. *Doctor of Pharmacy Collaboration.* November 2015.

## Other Publications

**Luyt, C.D., Khamanga, S.M. and Tandlich, R.**

**Luyt, C.D., Khamanga, S.M., Tandlich, R. and Muller, W.J.** (2015) Survival of Bifidobacteria and their usefulness in Faecal Source Tracking. In: Mizsey, P. (ed.). *Liquid Waste Recovery.* Poland: De Gruyter Open.

**Moyo, F. and Tandlich, R.**

**Moyo, F. and Tandlich, R.** (2015) Optimisation of the emulsion liquid membrane composition and demulsification for rhodium extraction. In: Mizsey, P. (ed.). *Liquid Waste Recovery.* Poland: De Gruyter Open.

**Ngqwala, N.P., Tandlich, R. and Madikizela, P.**

**Ngqwala, N.P., Tandlich, R., Al-Adawi, S., Ahmed, M. and Madikizela, P.** (2015) Reuse of greywater to retrench water needs. In: Thanikal, J.V. (ed.). *Caledonian Journal of Engineering.* Sultanate of Oman: Caledonian College of Engineering.

**Srinivas, S.**

**Srinivas, S.** (2015) Strengthening Community University Research Partnerships: Global Perspectives: In: Hall, B., Tandon, R., Tremblay, C. (eds.). *Chapter 4 Case Studies - South Africa: Maternal and Infant Health Initiative: Ubunye Foundation, RUCE and the Rhodes Faculty of Pharmacy.* p.213 - 220.

**Walker, R.B.**

**Walker, R.B.** (2015) Editorial: Exciting Science in Edinburgh. In: Perrie, Y., Frey, C., Giannos, S., McDowell, A., Nichniak-Kohn, B. and Walker, R.B. (eds.). *Controlled Release Society Newsletter.* Minnesota: Controlled Release Society.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Chemuru, N.R. and Srinivas, S.C.**

**Chemuru, N.R. and Srinivas, S.C.** (2015) Application of the PEN-3 Cultural Model in Assessing Factors affecting Adolescent Pregnancies in Rural Eastern Cape, South Africa. *International Journal of Reproduction, Fertility and Sexual Health.* S1 (001). p.1-8.

**Tariq, M.T., Mushoriwa, F., Chigumete, T.G., Morobi, T.R. and Srinivas, S.C.**

**Tariq, M.T., Mushoriwa, F., Chigumete, T.G., Morobi, T.R. and Srinivas, S.C.** (2015) Economics of Non-Communicable Diseases: Case Study of South Africa and India. *Indian Journal of Pharmacy Practice.* 8 (3). p.90-97.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Chirenda, T.G., Srinivas, S.C. and Tandlich, R.**

**Chirenda, T.G., Srinivas, S.C. and Tandlich, R.** (2015) Microbial water quality of treated water and raw water sources in the Harare area, Zimbabwe. *Water SA.* 41 (5). p.691-697.

**Dowse, R.**

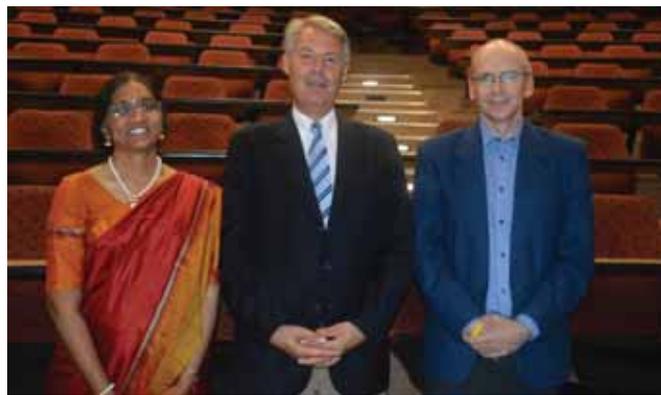
**Dowse, R.** (2015) Reflecting on patient-centred care in pharmacy through an illness narrative. *International Journal of Clinical Pharmacy.* 37 (2015). p.551-554.

**Fakee, J.**

**Fakee, J., Francis, C., Beukes, D.R., Mattio, L., Anderson, R.J. and Bolton, J.J.** (2015) Meeting Abstract: Chemistry Meets Biosystematics: Parallel Studies on the Diversity of the Laurencia Complex (Rhodomelaceae, Rhodophyta) in South Africa. *European Journal of Phycology.* 50 (supp 1). p.27.

**Glass, B.D.**

**Kanakaraju, D., Kockler, J., Motti, C.A., Glass, B.D. and Oelgemoller, M.**



Renowned scholar and former Director of Essential Medicines and Pharmaceutical Policies at the World Health Organization (WHO), Professor Hans Hogerzeil is seen here (centre) with Professor Sunitha Srinivas and Professor George Wells, following his public lecture on World Heart Day.

*Photo: Department of Pharmacy*

(2015) Titanium dioxide/zeolite integrated photocatalytic adsorbents for the degradation of amoxicillin. *Applied Catalysis B-Environmental.* 166-167 (2015). p.45-55.

**Kanakaraju, D., Motti, C.A., Glass, B.D. and Oelgemoller, M.** (2015) TiO<sub>2</sub> photocatalysis of naproxen: Effect of the water matrix, anions and diclofenac on degradation rates. *Chemosphere.* 139 (2015). p.579-588.

**Kanfer, I.**

**Zuo, Z., Huang, M., Kanfer, I., Chow, M.S.S. and Cho, W.C.S.** (2015) Editorial: Herb-Drug Interactions: Systematic Review, Mechanisms, and Therapies. *Evidence-based Complementary and Alternative Medicine.* 2015. p.1.

**Patnala, S. and Kanfer, I.** (2015) Medicinal use of Sceletium: Characterization of Phytochemical Components of Sceletium Plant Species using HPLC with UV and Electrospray Ionization - Tandem Mass Spectroscopy. *Journal of Pharmacy and Pharmaceutical Sciences.* 18 (4). p.414-423.

**Kanfer, I.** (2015) Workshop Report: In Quest of More Affordable and More Accessible Medicines. *Dissolution Technologies.* 2015. p.44-53.

**Kanfer, I.** (2015) AAPS Open Forum Report: Proposals for Regulatory Harmonization of a Global BCS Framework: Challenges and Opportunities. *Dissolution Technologies.* 2015. p.58-65.

**Patel, S. and Dowse, R.**

**Patel, S. and Dowse, R.** (2015) Understanding the medicine information-seeking behaviour and information needs of South African long-term patients with limited literacy skills. *Health Expectations.* 18 (2015). p.1494-1507.

**Srinivas, S.C.**

**Srinivas, S.C. and Paphitis, S.A.** (2015) Hypertension and Diabetes Mellitus: A Preliminary South African Health Promotion Activity Using Service-Learning Principles. *Journal of Community Health.* 2015. p.1-9.

**Srinivas, S.C., Ncomanzi, A. and Tandlich, R.**

**Srinivas, S.C., Paphitis, S.A., Ncomanzi, A., Tandlich, R. and Bradshaw, K.** (2015) Service-Learning Based Environmental Health Promotion Activities For Pharmacy Students: Educating Youth On The Safe Disposal Of Medicines And Used Sharps. *Journal for New Generation Sciences.* 13 (3). p.182-196.

**Veale, C.G.L.**

**Davies-Coleman, M.T. and Veale, C.G.L.** (2015) Recent Advances in Drug Discovery from South African Marine Invertebrates. *Marine Drugs.* 13 (2015). p.6366-6383.

**Veale, C.G.L.** (2015) A new synthesis of versatile indolyl-3-carbonylnitriles. *Tetrahedron Letters.* 56 (2015). p.5287-5290.

**Veale, C.G.L., Edkins, A.L., De La Mare, J.A., de Kock, C., Smith, P.J. and Khanye, S.D.** (2015) Facile synthesis and biological evaluation of assorted indolyl-3-amides and esters from a single, stable carbonyl nitrile intermediate. *Tetrahedron Letters.* 56 (2015). p.1860-1864.

**Walker, R.B.**

**Assi, N., Mohammadi, A., Manuchehri, Q.S. and Walker, R.B.** (2015) Synthesis and characterization of ZnO nanoparticle synthesized by a

microwave-assisted combustion method and catalytic activity for the removal of ortho-nitrophenol. *Desalination and Water Treatment*. 54 (2015). p.1939-1948.

Mohammadi, A., Kazemipour, M., Ranjbar, H., Walker, R.B. and Ansari, M. (2015) Amoxicillin Removal from Aqueous Media Using Multi-Walled Carbon Nanotubes. *Fullerenes Nanotubes and Carbon Nanostructures*. 23 (2015). p.165-169.

## Peer-reviewed Proceedings

**Siruma, A., Tandlich, R. and Srinivas, S.C.**

**Siruma, A., Tandlich, R., Hornby, D. and Srinivas, S.C.** Role of higher education institution and community engagement in disaster management in South Africa. *15th SGEM GeoConference on Water Resources, Forest, Marine and Ocean Ecosystems, Volume 2: ecology, economics, education and legislation conference proceedings- ecology and environmental protection environmental legislation, multilateral relations and funding opportunities*. Albena. Bulgaria. June 2015.

**Tandlich, R. and Luyt, C.D.**

**Tandlich, R., Luyt, C.D., Irwin, B., Thinyane, H. and Kohly, N.** Proposed Paradigm and Potential Problems with Non-Governmental Information Sources about Microbial Drinking Water Quality Information in South Africa. *15th International Multidisciplinary Scientific GeoConference SGEM 2015: Ecology, Economics, Education and Legislation*. Albena Resort, Albena. Bulgaria. June 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Chemuru, N.R. and Srinivas, S.C.**

**Chemuru, N.R., Hornby, D. and Srinivas, S.C.** Using community-based participatory research to develop a culturally sensitive teenage pregnancy prevention intervention with community care workers. *29th Annual South African Association of Hospital and Institutional Pharmacists conference*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Chigumete, T.G. and Srinivas, S.C.**

**Chigumete, T.G. and Srinivas, S.C.** Workplace Health Promotion: Policies and Practices at Rhodes University. *36th Academy of Pharmaceutical Sciences of South Africa*. Sandton Conference Centre, Johannesburg. South Africa. September 2015.

**Chikukwa, M.T.R., Khamanga, S.M. and Walker, R.B.**

**Chikukwa, M.T.R., Khamanga, S.M. and Walker, R.B.** The application of Design of Experiments to the development and validation of a reversed-phase chromatographic method (RP-HPLC) for the quantitation of captopril in liquid dosage forms. *The 36th Annual Congress of the Academy of Pharmaceutical Science*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Dowse, R.**

**Dowse, R.** Craniofacial rehabilitation - the patient's perspective. *ISMR Regional Conference (International Society for Maxillofacial Rehabilitation)*. University Medical Center Groningen, Groningen. The Netherlands. June 2015.

**Viljoen, J.E., Dowse, R. and Christie, C.J.** Time Course of Cardiovascular Risk Responses To Progressive Resistance Training Post-Menses.

*ASSAf-TWAS-ROSSA Annual Young Scientist Conference*. Birchwood Hotel and Conference Centre, Johannesburg. South Africa. September 2015.

**Viljoen, J.E., Dowse, R. and Christie, C.J.** Time course of cardiovascular risk responses to progressive resistance training post-menses. *International Movement and Nutrition Society*. University of Regensburg, Regensburg, Bavaria. Germany. June 2015.

**Dowse, R.** Pictograms for communicating side effect information: Yes or no? *29th Annual Conference of the South African Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Dube, C.S., Ngqwala, N.P. and Tandlich, R.**

**Dube, C.S., Ngqwala, N.P. and Tandlich, R.** Microbiological analysis and dry heat sterilization of raw talc and kaolinite. *The 2015 Academy of Pharmaceutical Sciences of South Africa/SAAPI Conference*. Johannesburg. South Africa. September 2015.

**Gray, S. and Dowse, R.**

**Gray, S. and Dowse, R.** Health literacy testing in an isiXhosa-speaking

population: a pilot study. *29th Annual Conference of the South African Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Irwin, Y.L. and Chiwanza, F.**

**Irwin, Y.L. and Chiwanza, F.** A Comparison of Readings between Conventional Office Blood Pressure Monitoring and 24 hour Ambulatory Blood Pressure Monitoring. *29th Annual Conference of the South African Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Jhundoo, H.D. and Walker, R.B.**

**Jhundoo, H.D. and Walker, R.B.** Selection and characterization of a suitable lipid for the manufacture of ketoconazole-loaded solid lipid microparticles. *The 75th International Pharmaceutical Federation World Congress of Pharmacy and Pharmaceutical Sciences*. Dusseldorf Congress Center, Dusseldorf. Germany. October 2015.

**Jhundoo, H.D. and Walker, R.B.** Development and validation of an HPLC method for the simultaneous analysis of four imidazole antifungals in pharmaceutical dosage forms. *The 75th International Pharmaceutical Federation World Congress of Pharmacy and Pharmaceutical Sciences*. Congress Center Dusseldorf, Dusseldorf. Germany. October 2015.

**Kanfer, I.**

**Kanfer, I., Patnala, S. and Nallagundla, S.** Dermatopharmacokinetic Assessment of Bioequivalence of Topical Acyclovir Creams using Tape Stripping. *2015 AAPS Annual Meeting and Exposition*. Orlando. United States of America. October 2015.

**Kanfer, I., Patnala, S. and Reddy, N.H.S.** Comparative dissolution studies between innovator and selected immediate release oral dosage forms containing BCS Class III drugs, acyclovir, atenolol and ciprofloxacin hydrochloride tablets marketed in South Africa and India. *2015 AAPS Annual Meeting and Exposition*. Orlando. United States of America. October 2015.

**Bodenlenz, M., Tiffner, K., Raml, R., Tschapeller, B., Augustin, T., Dragatin, C., Birngruber, T., Kainz, S., Schwagerle, G., Kanfer, I. and et al.** Open Flow Microperfusion as Dermal Pharmacokinetic Approach to Evaluate Topical Bioequivalence. *American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition*. Orange County Convention Centre, Orlando. Florida. October 2015.

**Tiffner, K., Kanfer, I., Schimek, D., Reisenegger, P., Raml, R., Augustin, T., Tschapeller, B., Raney, S.G. and Sinner, F.** Comparative *In Vitro* Release of six Different Topical Acyclovir Products Using a Vertical Diffusion Cell (VDF) Apparatus. *American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition*. Orange County Convention Centre, Orlando. Florida. October 2015.

**Tiffner, K., Bodenlenz, M., Swingsenschuh, S., Hajnsek, M., Reisenegger, P., Kainz, M.J., Augustin, T., Baumann, P., Tschapeller, B., Schwagerle, G., Raml, R., Kanfer, I. and Sinner, F.** Characterization of TEWL and Skin Impedance in a clinical study measuring acyclovir permeation by dermal open flow microperfusion. *13th Meeting of the European Epidermal Barrier Research Network (E2BRN)*. Rotterdam. The Netherlands. September 2015.

**Kangausaru, S.T., Khamanga, S.M. and Walker, R.B.**

**Kangausaru, S.T., Khamanga, S.M. and Walker, R.B.** Development and validation of a RP-HPLC method for the quantitative analysis of hydralazine hydrochloride (HYD). *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Katsinde, S.M. and Srinivas, S.C.**

**Katsinde, S.M., Hornby, D. and Srinivas, S.C.** Use of a cultural model in identifying and addressing factors affecting exclusive breastfeeding. *29th Annual South African Association of Hospital and Institutional Pharmacists conference*. Champagne Sports Resort, Drakensburg. South Africa. March 2015.

**Khamanga, S.M., Mhaka, F.A. and Walker, R.B.**

**Khamanga, S.M., Mhaka, F.A. and Walker, R.B.** Preparation of pellets with a highly soluble drug by extrusion-spheronization and coated with Surelease(r). *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Madikizela, P. and Tandlich, R.**

**Madikizela, P., Laubscher, R.K., Tandlich, R. and Maatoug, M.** Faecal sludge management in South Africa: a literature review. *The FSM3, 3rd International Faecal Sludge Management Conference*. Hanoi. Vietnam. January 2015.

**Madikizela, P., Ngqwala, N.P. and Tandlich, R.**

**Madikizela, P., Laubscher, R.K., Ngqwala, N.P. and Tandlich, R.** Reuse of faecal sludge for fertiliser in South African subsistence agriculture. *4th YWP ZA Biennial and 1st African YWP Conference*. CSIR International Convention Centre, Pretoria. South Africa. November 2015.

**Makan, A., Khamanga, S.M. and Walker, R.B.**

**Makan, A., Khamanga, S.M. and Walker, R.B.** Development and validation of a RP-HPLC method for the analysis of metronidazole in pharmaceutical dosage forms. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Marimwe, C. and Dowse, R.**

**Marimwe, C. and Dowse, R.** Validation of a medicines literacy test in an isiXhosa-speaking population. *29th Annual Conference of the South African Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Drakensberg. South Africa. March 2015.

**Mukozhiwa, S.Y., Khamanga, S.M. and Walker, R.B.**

**Mukozhiwa, S.Y., Khamanga, S.M. and Walker, R.B.** Evaluation of swelling and erosion of HPMC based captopril tablets. *The 42nd Annual Meeting and Exposition of the Controlled Release Society*. Edinburgh International Conference Centre, Edinburgh. Scotland. July 2015.

**Mushoriwa, F. and Srinivas, S.C.**

**Mushoriwa, F. and Srinivas, S.C.** A pilot study exploring the knowledge, attitudes and perceptions of Non-governmental organisation employees on food labels and the consequences of a high salt diet on health. *The 36th Academy of Pharmaceutical Sciences of South Africa*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Ncube, M. and Tandlich, R.**

**Ncube, M., Wilhelmi, B.S., Maatoug, M., Dellal, A. and Tandlich, R.** Solubilisation of Triclosan from silica gel with bile acids at 37 °C. *The 2015 Academy of Pharmaceutical Sciences of South Africa/SAAPI Conference*. Johannesburg. South Africa. September 2015.

**Ncube, M., Wilhelmi, B.S., Tandlich, R., Maatoug, M. and Dellal, A.** Fate of Triclosan and wastewater sludge reuse in Grahamstown, South Africa and Tiaret, Algeria. *The SA-Algeria First Joint Researchers Workshop*. iThemba Laboratories, Stellenbosch. South Africa. October 2015.

**Ngqwala, N.P. and Tandlich, R.**

**Nondlazi, S., Ngqwala, N.P. and Tandlich, R.** The fate of Triclosan in the wastewater treatment process. *The 4th YWP ZA Biennial and 1st African YWP Conference*. CSIR International Convention Centre, Pretoria. South Africa. November 2015.

**Madikizela, P., Laubscher, R.K., Ngqwala, N.P. and Tandlich, R.** The applicability of the pit latrine faecal sludge from Hlalani Township, Grahamstown as a fertilizer. *The 2015 Academy of Pharmaceutical Sciences of South Africa/SAAPI Conference*. Johannesburg. South Africa. September 2015.

**Angala, A.N., Ngqwala, N.P. and Tandlich, R.** Microbial and chemical tap water quality in Makana Municipality; and its toxicological implications. *4th YWP ZA Biennial and 1st African YWP Conference, held in from 16th until 18th November 2015*. CSIR International Convention Centre, Pretoria. South Africa. November 2015.

**Ngqwala, N.P. and Tandlich, R.** The improved H2S strip test Kit, community engagement and water quality monitoring in South Africa. *Community Engagement Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Nicholson, T.J., Dube, T., Ngqwala, N.P. and Tandlich, R.**

**Nicholson, T.J., Dube, T., Ngqwala, N.P. and Tandlich, R.** A disaster management strategy to address intermittent power and water supply and a concomitant disease outbreak. *The 2015 Public Health Association of South Africa Conference*. Southern Sun Elangeni, Durban. South Africa. October 2015.

**Ntemi, P.V., Walker, R.B. and Khamanga, S.M.**

**Ntemi, P.V., Walker, R.B. and Khamanga, S.M.** Formulation, manufacture of clarithromycin (CLA) effervescent granules. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Okeyo, I. and Dowse, R.**

**Okeyo, I. and Dowse, R.** TB knowledge and information needs of community care workers in Grahamstown. *29th Annual Conference of the South African Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Drakensberg. South Africa. March 2015.

**Ramanah, A. and Walker, R.B.**

**Ramanah, A. and Walker, R.B.** Monitoring sol-gel phase transitions of



PhD student Shafick Hoosein took this photo during his research on Environmental Health in Jamaica. It shows Zika virus spraying in the local community. Photo: Shafick Hoosein

thermosetting gel formulations using a 'tabletop' rheological technique. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Ramanah, A. and Walker, R.B.** Development and assessment of thermosetting ketoconazole (KZ) vaginal gels. *The 42nd Annual Meeting and Exposition of the Controlled Release Society*. Edinburgh International Convention Centre, Edinburgh. Scotland. July 2015.

**Ranchhod, J., Khamanga, S.M. and Walker, R.B.**

**Ranchhod, J., Khamanga, S.M. and Walker, R.B.** Development and validation of a RP-HPLC method for quantitation of minocycline hydrochloride in pharmaceutical dosage forms. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Srinivas, S.C.**

**Srinivas, S.C.** Synergy of Local Knowledge and North-South Collaboration in Shaping the Health Research Agenda Post 2015. *Southern Africa-Nordic Association (Sanord) Conference*. Namibia University of Science and Technology, Windhoek. Namibia. December 2015.

**Srinivas, S.C.** Initiatives in Community Engagement and Service learning in Pharmacy education. *University-Community Engagement Conference*. Mantra on view, Gold Coast. Australia. November 2015.

**Srinivas, S.C.** International research partnerships: lessons learnt on facilitating and constraining factors. *19th Annual International Education Association of South Africa Conference*. Radisson, Port Elizabeth. South Africa. August 2015.

**Srinivas, S.C., Tandlich, R. and Khamanga, S.M.**

**Srinivas, S.C., Tandlich, R., Khamanga, S.M. and Bradshaw, K.** The improved H2S strip test Kit, community engagement and water quality monitoring in South Africa. *Community Engagement Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Tandlich, R.**

**Laubscher, R.K. and Tandlich, R.** Disaster Management and On-Site Urban Sanitation in South Africa. *The FSM3, 3rd International Faecal Sludge Management Conference*. Hanoi. Vietnam. January 2015.



Professor Walker (back left) and Dr Oltmann (back right) with the 2015 PhD graduates: (from left to right front) Dr Jameel Fakee, Dr Sonal Patel, Dr Nosiphiwe Ngqwala and, Dr Maynard Chiwakata (back centre).  
 Photo: Department of Pharmacy

**Tandlich, R. and Chiwakata, M.T.**

**Motha, C.M., Tandlich, R., Chiwakata, M.T., Wilhelmi, B.S. and Smogrovicova, D.** Analysis of South African honey quality based on their compositional properties by characterizing their microbial and biochemical properties. *The International Symposium on Agro-biotechnology and Sustainable Development*. University of Ibn-Khaldoun, Tiaret. Algeria. May 2015.

**Veerubhotla, H.M.K., Khamanga, S.M. and Walker, R.B.**

**Veerubhotla, H.M.K., Khamanga, S.M. and Walker, R.B.** Unpacking a Design of Experiments approach for the optimization of a granulation process. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Conference Centre, Sandton. South Africa. September 2015.

**Walker, R.B.**

**Walker, R.B.** Adapting to the needs of the profession: Clarifying roles and responsibilities. *The Pharmaceutical Society of Zimbabwe Annual Pharmacists Indaba*. Holiday Inn Hotel, Bulawayo. Zimbabwe. October 2015.

**Walker, R.B.** Generic medicines: debunking myths. *Pharmaceutical Society of South Africa Border and Eastern Districts Mini-Conference*. Manderson Hotel, Stutterheim. South Africa. October 2015.

**Witika, B.A. and Walker, R.B.**

**Witika, B.A. and Walker, R.B.** The development and validation of a reversed-phase high performance liquid chromatographic (RP-HPLC) method for the determination of nevirapine. *The 36th Annual Congress of the Academy of Pharmaceutical Sciences*. Cedarwoods Congress Centre, Sandton. South Africa. September 2015.



Dr Sandile Khamanga, senior lecturer in the Faculty of Pharmacy, is seen here with a Table Press, which is used in the manufacture of tablets.  
 Photo: Supplied by Sandile Khamanga

## PHILOSOPHY

2015 was a year of transition and rebuilding. Philosophy lost two (2) senior staff members: Tom Martin became Dean of Humanities and Samantha Vice moved to a Chair at the University of Witwatersrand (WITS). The Department succeeded in appointing two (2) strong researchers: Dr Uchenna Okeja and Dr Laurence Bloom.

## Introduction

In this report I would like to showcase three (3) examples of how Philosophy at Rhodes University, especially the affiliated Allan Gray Centre for Leadership Ethics (AGCLE), engaged with the challenges the discipline faces in a changing world.

## Postgraduates

Laura de Lange gave a paper, *“What is Maths Really About? Philosophy of Maths and its influence on Pedagogy”*, at the *Postgraduate Philosophy Association of Southern Africa Annual Conference* (University of the Witwatersrand (WITS), July 2015). She argued that every student has a unique mathematical lived experience: a unique amalgamation of ideas about mathematics, exposure to mathematical concepts and feelings about mathematics.

A student’s unique set of circumstances means that not every explanatory account of mathematics will cohere with her previous experiences. For an explanation to have explanatory potential, it must provide an account which coheres with the other beliefs a student has about mathematics. If an explanation has no such coherence, it will not be recognisable as an explanation of the phenomenon of mathematics for the student. Our explanatory accounts of mathematics and mathematical knowledge are our philosophies of mathematics. Different philosophies of mathematics will better explain different sets of mathematical lived experiences. The research she presented formed part of her thesis for the MA in Philosophy.

## Significant Research Aligned Events

As of the beginning of 2016, *liNtetho zoBomi: Conversations about Life, Meaning, and Community* will become a credit-bearing course housed in the Philosophy Department. This course is the primary focus of the Allan Gray Centre for Leadership Ethics and is constantly being refined by relevant stakeholders through careful monitoring and evaluation processes at peer and student levels.

As it is running this year, *liNtetho zoBomi* is a product of the research of the AGCLE, experiences from piloting the course since 2013, and exceptionally helpful feedback received at a roundtable focusing on the course. The roundtable brought together South African and International scholars for two days of rich conversation about the course on the 19 and 20 of October 2015. Participants included Professor Ann Cahill—a renowned intersectional feminist scholar—Professor Lorenzo Fioramonti, Dr Michael Lamb, Dr Nceku Nyathi, Dr Barney Pityana, and Professor Dan Stein.

All participants read a substantial amount of information about the course prior to attending the roundtable, which allowed each session to focus on a particular aspect of the course. Participants critically



Dr Sharli Paphitis (left), pictured here with Dr Lindsay Kelland (right), graduated from the Department of Philosophy with her PhD in 2015.  
Photo: Department of Philosophy

engaged with all aspects of the course including its content and structure, the use of film as a pedagogical medium, the use of social psychology, thought experiments, and real-world cases, the role of facilitators/student leaders in running the conversations, how best to get students to engage practically in a transformative and pedagogical way, and how best to align assessment with the aims and learning outcomes of the course.

The roundtable was an invaluable part of the process of designing *liNtetho zoBomi*. In particular, it was on the basis of conversations held at the roundtable that we decided to incorporate Service Learning into the course, and to assess the course on a continuous basis in the form of reflective journals. Participants at the roundtable are thinking of putting together an edited collection on the course, but this is still in the pipe-lines.

In 2015, Sharli Anne Paphitis and Lindsay Kelland—both of whom received PhDs from Rhodes’ Philosophy Department—contributed to a special issue of *The South African Journal of Philosophy* on ‘Contests and Contrasts about Philosophy’. Their paper—‘Challenging the dominant ideological paradigm: can community engagement contribute to the central epistemic

aims of philosophy'-is in part a response to the call for the transformation of the higher education sector. The paper is in equal part a response to the perception governing the South African philosophical community that community engagement is unable to further the epistemic aims of philosophy, and could in fact be seen as hindering the attainment of these aims by distracting philosophers from what they currently perceive to be their primary task-namely, research.

In the paper, Paphitis and Kelland propose a view of philosophy that allows for the transformation of the discipline through community engagement activities, and call for South African philosophers to make an epistemic shift in the ways in which they think about their discipline, teach their discipline, and go about furthering the epistemic aims of their discipline. Adopting this epistemic shift would, they argue, enable the South African

community of philosophers to make rich and nuanced contributions to the international community, whose views have long held dominance over their African counterparts.

While their particular take on the transformation of the discipline has been seen by some as controversial, Paphitis and Kelland are not alone in thinking about the transformation of philosophy at Rhodes University or in South Africa.

Professor Pedro Tabensky from the Allan Gray Centre for Leadership Ethics is working with philosophers locally and abroad on a large-scale project to transform the discipline from within, funded by the Andrew W. Mellon Foundation.

**Professor Marius Vermaak**

Head of Department

## Books/Chapters/Monographs

**Hosseini, S.R.**

**Hosseini, S.R.** (2015) *Wittgenstein and Meaning in Life: In Search of the Human Voice*. UK: Palgrave Macmillan. ISBN: 9781137440907.

**Pityana, N.B.**

**Pityana, N.B.** (2015) Ecumenical Witness for Social Justice: Beyers Naudé and Denis Hurley. In: Melber, H. (ed.). *Faith As Politics: Reflections in Commemoration of Beyers Naudé (1915 - 2004)*. UK: The Nordic Africa Institute. p.19-36. ISBN: 9789171067807.

**Tabensky, P.A.**

**Tabensky, P.A.** (2015) The Countercultural University. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.221-241. ISBN: 9781869142902.

**Matthews, S. and Tabensky, P.A.** (ed.) (2015) *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. ISBN: 9781869142902.

**Vice, S.W.**

**Vice, S.W.** (2015) 'Feeling at Home': Institutional Culture and the Idea of a University. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.45-71. ISBN: 9781869142902.

## Concerts, Exhibitions, Performances, Workshops, Events

**Kelland, L.A.**

**Donaldson, N. and Kelland, L.A.** Workshop Co-facilitator. Gender Dynamics: Women Only. *Rhodes University Residence Leadership Training*. Barratt Lecture Theatre, Grahamstown. South Africa. 5 February 2015.

**Kelland, L.A., Hosseini, S., Alloggio, S. and Landry, C.R.**

**Kelland, L.A., Hosseini, S., Alloggio, S. and Landry, C.R.** Organisation. *Allan Gray Centre for Leadership Ethics Roundtable*. The Highlander, Grahamstown. South Africa. 19 - 20 October 2015.

## Distinguished Visitors

**Cahill, A.**

**Professor A Cahill.** Elon University, North Carolina, United States of America. *Allan Gray Centre for Leadership Ethics Roundtable*. October 2015.

**Lamb, M.**

**Dr M Lamb.** Oxford University, Oxford, United Kingdom. *Allan Gray Centre for Leadership Ethics Roundtable*. October 2015.

## Other Publications

**Alloggio, S.**

**Alloggio, S.** (2015) Translation of the following paper from Philippe-Joseph Salazar: "Soggettività sotto sorveglianza: retorica redux" (Subjectivity under surveillance: rhetoric redux). In: Pisano, L. and Carassai, M. (eds.). *Lo Sguardo*. Italy: Gaffi Editore.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Flockemann, R.A.**

**Flockemann, R.A.** (2015) Book Review: Business Ethics & Other Paradoxes, by Jimmy Winfield, George Hull and Greg Fried, Cape Town, Fairest Cape Press, 2014, 378pp., ISBN 9780620605182. *South African Journal of Philosophy*. 34 (2). p.265-269.

**Jones, W.E.**

**Jones, W.E.** and Metz, T. (2015) The politics of philosophy in Africa: A conversation. *South African Journal of Philosophy*. 34 (4). p.538-550.

**Jones, W.E.** (2015) Wisdom as an Aim of Higher Education. *Journal of Value Inquiry*. 49 (2015). p.1-15.

**Jones, W.E.** (2015) Venerating Death. *Philosophical Papers*. 44 (1). p.61-81.

**Kelland, L.A.**

**Kelland, L.A.** (2015) Brief Note: Response to Benatar. *Journal of Interpersonal Violence*. 30 (19). p.3424-3428.

**Paphitis, S.A. and Kelland, L.A.** (2015) Challenging the dominant ideological paradigm: Can community engagement contribute to the central epistemic aims of philosophy? *South African Journal of Philosophy*. 34 (4). p.419-432.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Alloggio, S.**

**Alloggio, S.** The struggle to come: deconstruction, ideological replication and historical materialism. *Research seminar at the Department of Philosophy*. University of Rome 3, Rome. Italy. July 2015.

**Alloggio, S.** Working through repression: Lyotard's aporetic approach to psychoanalysis. *5th Annual Wild Coast Philosophy Symposium*. Fort Hare, Cintsa. South Africa. October 2015.

**Dyantyi, M.O., Kelland, L.A. and Tabensky, P.A.**

**Bulunga, A.A.L., Dyantyi, M.O., Kelland, L.A. and Tabensky, P.A.** *liNtetho zoBomi: A Conversation on Transformational Curriculum*. *liNtetho*

zoBomi: *A Conversation on Transformational Curriculum*. University of Cape Town (UCT), Cape Town. South Africa. September 2015.

**Flockemann, R.A.**

**Flockemann, R.A.** Avoiding Falsehood. *Philosophical Society of Southern African Annual Philosophy Conference*. The Athenaeum, Port Elizabeth. South Africa. January 2015.

**Hamilton, R.P.**

**Hamilton, R.P.** Biological Explanation. *Spring Colloquium*. University of Cape Town (UCT), Cape Town. South Africa. September 2015.

**Hamilton, R.P.** A Modest Defence of Chastity. *Festschrift for Rosalind Hursthouse*. University of Auckland, Auckland. New Zealand. August 2015.

**Hosseini, S.R.**

**Hosseini, S.R.** On Detachment. *Second Festival of Philosophy Outside Academia*. Katholieke Universiteit, Leuven. Belgium. September 2015.

**Hosseini, S.R.** Meaningfulness and Morality. *Presentation at the School of Fine Arts*. University of Cape Town (UCT), Cape Town. South Africa. January 2015.

**Hosseini, S.R.** Book of Facts, Book of Values. *Delivered at the Institute for Research in Fundamental Sciences*. IPM, Tehran. Iran. June 2015.

**Kelland, L.A.**

**Paphitis, S.A.** and **Kelland, L.A.** Existential Conversations: Community Engagement, Philosophy and the Good Life. *Community Engaged Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Kelland, L.A.** Patriarchy and Narratives of Sexual Violence: Resistance or Perpetuation. *Spring Colloquium*. University of Cape Town (UCT), Cape Town. South Africa. September 2015.

**Kelland, L.A.** and **Paphitis, S.A.** Siyahluma: A Critical Health Education Intervention. *9th Biennial International Society for Critical Health Psychology Conference: Health, Healthcare and Social Justice*. Rhodes University, Grahamstown. South Africa. July 2015.

**Kelland, L.A.** and **Paphitis, S.A.** The Africanness of White South Africans? *3rd Annual Conference for the Centre for Phenomenology in South Africa: Identity and Difference*. University of Johannesburg, Johannesburg. South Africa. March 2015.

**Landry, C.R.**

**Landry, C.R.** Thinking Through Moral Distress with Simone de Beauvoir. *Annual Meeting of the Australasian Society for Continental Philosophy*. University of Sydney, Sydney. Australia. December 2015.

**Tabensky, P.A.**

**Tabensky, P.A.** Inattentiveness to Place: The Case of South African Philosophy. *University of the Witwatersrand (WITS) Seminar Series*. Johannesburg. South Africa. May 2015.

**Tabensky, P.A.** Inattentiveness to Place. *Thinking Africa*. RU, Grahamstown. South Africa. September 2015.

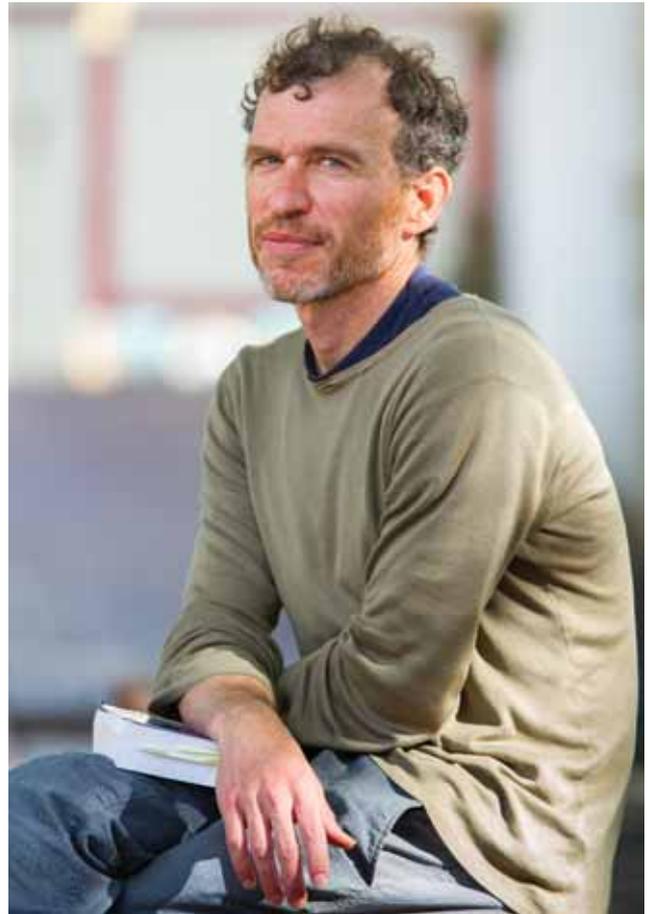
**Tabensky, P.A.** Anti-Intellectualism. *2015 Yearly Wild Coast Philosophy Symposium*. Fort Hare, Cintsu. South Africa. October 2015.

**Tabensky, P.A.** Discussion of the iIntetho zoBomi programme and the role it plays in transformation. *University of Johannesburg Seminar Series*. University of Johannesburg, Johannesburg. South Africa. September 2015.

**Tabensky, P.A.** The Place of Philosophy in South Africa. *What are You Teaching Me? Africanising the Curriculum in Universities in Africa*. *University of the Witwatersrand (WITS)*. Johannesburg. South Africa. September 2015.

**Tabensky, P.A.** Jeff Malpas on Place. *Philosophical Society for Southern Africa*. Nelson Mandela Metropolitan University (NMMU), Port Elizabeth. South Africa. January 2015.

**Tabensky, P.A.** iIntetho ZoBomi: Conversations About Ethics, Meaning and Community. *Seeking the Ethical Foundations of the South African Nation*. MISTRA, Johannesburg. South Africa. November 2015.



Department of Philosophy, Dr Larry Bloom  
Photo: Paul Greenway/3pphotography

# PHYSICS AND ELECTRONICS

The research life in the department is healthy. The department has active research in Solid State Physics, Nuclear Physics, Theoretical physics, Electronics and Radio Astronomy. Various members of staff have made good progress in their projects. Several in the department also served on national and international research panels and have also forged productive collaborations with colleagues elsewhere.



## Introduction

The Electronics Research Group developed a proposal for a research laboratory. The proposal was approved in principle by Senate. The main idea is for our department to participate in ALICE, Large Ion Collider Experiment. This is one of the one of the largest experiments in the world focussed on research in the physics of matter at an infinitely small scale. We became an associate member of the ALICE Collaboration on 26 June 2015

South Africa has now become established as a hub of the Square Kilometer Array (SKA) radio telescope. The SKA will be the most advanced radio telescope of its kind. We are particularly proud of the role being played by our department in this through the work of **Professor Justin Jonas** and other former students of this department.

The Centre for Radio Astronomy Techniques and Technologies headed by **Professor Oleg Smirnov** is making significant headway in their research programme. The second batch of students from the programme graduated in 2015.

## Postgraduates / Graduations

Seven (7) MSc students graduated in 2015. Kate Bryan submitted her thesis on *The EPR Paradox - Back from the Future*, and Jean Claude Uwamahoro's work was on *Single station TEC modelling during storm conditions*.

Professor Makaiko Chithambo (right) and PhD student Angel Nyirenda (centre) standing by the North Sea with their host Professor Adrian Finch (left) while on a research visit to the University of St. Andrews, Scotland.  
*Photo: Department of Physics and Electronics*

Kate Bryan is a gifted writer and presenter and discusses her work with an unusual clarity. One of her examiners in fact picked up on this and commended her for her lucidity. This is commendable given the complexity of her project which looks at some aspect of relativity theory going back to Albert Einstein.

**Professor Makaiko Chithambo**  
Head of Department

## International Visits

**Chithambo, M.L.**

**Chithambo, M.L.** University of St Andrews, St Andrews, United Kingdom (UK). *High sensitivity luminescence measurements of a-Al<sub>2</sub>O<sub>3</sub>:C and a-Al<sub>2</sub>O<sub>3</sub>:C,Mg.* 13 November - 1 December 2015.

**Medved, A.J.M.**

**Medved, A.J.M.** Ben Gurion University, Beer Sheva, Israel. *Collaboration in Theoretical High-Energy Physics.* 26 June - 8 August 2015.

**Medved, A.J.M.** Ben Gurion University, Beer S, Israel. *Collaboration in Theoretical High-Energy Physics.* 21 November - 3 January 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Bernardi, G.**

Kocz, J., Greenhill, L.J., Barsdell, B.R., **Bernardi, G.**, Bourke, S., Clark, M.A., Craig, J., Dexter, M., Dowell, J., Eftekhari, T. and et al. (2015) Digital Signal Processing Using Stream High Performance Computing: A 512-Input Broadband Correlator for Radio Astronomy. *Journal of Astronomical Instrumentation.* 4 (1/2). p.1-12.

**Nyirenda, A.N. and Chithambo, M.L.**

**Nyirenda, A.N. and Chithambo, M.L.** (2015) Kinetic analysis of the main glow peak of  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>:C exposed to high irradiation dose. *Journal of Nuclear Sciences.* 2 (2). p.23-30.

**Smirnov, O.M.**

Lochner, M., Bassett, B., Kunz, M., Natarajan, I., **Smirnov, O.M.** and Zwart, J. (2015) Bayesian inference for radio observations - Going beyond deconvolution. *Proceedings of the International Astronomical Union.* 10 (2015). p.185-188.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Abdalla, F.B.**

Chang, C., Busha, M.T., Wechsler, R.H., Refregier, A., Amara, A., Rykoff, E., Becker, M.R., Bruderer, C., Gamper, L., **Abdalla, F.B.** and et al. (2015) Modeling the Transfer Function for the Dark Energy Survey. *Astrophysical Journal.* 801 (2). p.1-14.

Raichoor, A., Comparat, J., Delubac, T., Kneib, J.P., Yeche, C.H., Zou, H., **Abdalla, F.B.**, Dawson, K., de la Macorra, A., Fan, X. and et al. (2015) The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: selecting emission line galaxies using the Fisher discriminant. *Astronomy and Astrophysics.* 2015. p.1-19.

Kessler, R., Marriner, J., Childress, M., Covarrubias, R., D'Andrea, C.B., Finley, D.A., Fischer, J., Foley, R.J., Goldstein, D., **Abdalla, F.B.** and et al. (2015) The Difference Imaging Pipeline for the Transient Search in the Dark Energy Survey. *Astronomical Journal.* 150 (6). p.1-18.

Drlica-Wagner, A., Bechtol, K., Rykoff, E.S., Luque, E., Queiroz, A., Mao, Y.Y., Wechsler, R.H., Simon, J.D., Santiago, B., **Abdalla, F.B.** and et al. (2015) Eight Ultra-Faint Galaxy Candidates Discovered in Year Two of the Dark Energy Survey. *Astrophysical Journal.* 813 (2). p.1-20.

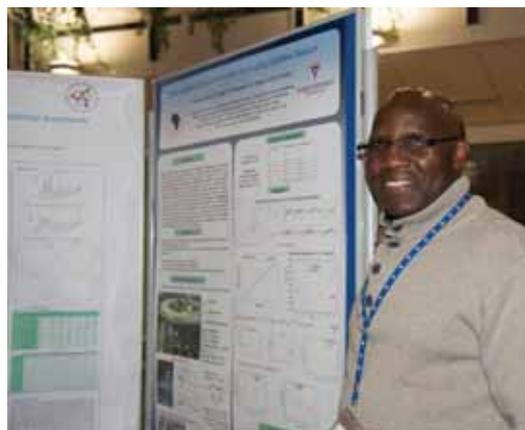
Soumagnac, M.T., **Abdalla, F.B.**, Lahav, O., Kirk, D., Sevilla, I., Bertin, E., Rowe, B.T.P., Annis, J., Busha, M.T., da Costa, L.N., and et al. (2015) Star/galaxy separation at faint magnitudes: application to a simulated Dark Energy Survey. *Monthly Notices of the Royal Astronomical Society.* 450 (2015). p.666-680.

Oikonomou, F., Kotera, K. and **Abdalla, F.B.** (2015) Simulations for a next-generation UHECR observatory. *Journal of Cosmology and Astroparticle Physics.* 1501 (2015). p.1-19.

**Abdalla, F.B. and Bernardi, G.**

Ciardi, B., Inoue, S., **Abdalla, F.B.**, Asad, K., **Bernardi, G.**, Bolton, J.S., Brentjens, M.A., de Bruyn, A.G., Chapman, E., Daiboo, S. and et al. (2015) Simulating the 21 cm forest detectable with LOFAR and SKA in the spectra of high-z GRBs. *Monthly Notices of the Royal Astronomical Society.* 453 (2015). p.101-105.

Asad, K.M.B., Koopmans, L.V.E., Jelic, V., Pandey, V.N., Ghosh, A.,



Dr Shadrack Nsengiyumva presenting a poster at the First African Light Source Conference and Workshop (15-20 November 2015) held at European Synchrotron Radiation Facility (ESRF), Grenoble, France.

Photo: Chantal Argoud and Liliane Cardonne

**Abdalla, F.B., Bernardi, G., Brentjens, M.A., de Bruyn, A.G., Bus, S.** and et al. (2015) Polarization leakage in epoch of reionization windows - I. Low Frequency Array observations of the 3C196 field. *Monthly Notices of the Royal Astronomical Society.* 451 (2015). p.3709-3727.

**Abdalla, F.B., Bernardi, G., Smirnov, O.M. and Tasse, C.** Vedantham, H.K., Koopmans, L.V.E., de Bruyn, A.G., Wijnholds, S.J., Brentjens, M., **Abdalla, F.B.**, Asad, K.M.B., **Bernardi, G.**, **Smirnov, O.M.**, **Tasse, C.** and et al. (2015) Lunar occultation of the diffuse radio sky: LOFAR measurements between 35 and 80 MHz. *Monthly Notices of the Royal Astronomical Society.* 450 (2015). p.2291-2305.

**Bernardi, G.**

Abazov, V.M., Abbott, B., Acharya, B.S., Adams, M., Adams, T., Agnew, J.P., Alexeev, G.D., Alkhazov, G., Alton, A., **Bernardi, G.** and et al. (2015) Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from tt production at the Tevatron. *Physical Review D.* 92 (2015). p.1-16.

Thyagarajan, Nithyanandan, T.N., Jacobs, D.C., Bowman, J.D., Barry, N., Beardsley, A.P., **Bernardi, G.**, Briggs, F., Cappallo, R.J., Carroll, P. and et al. (2015) Foregrounds in Wide-Field Redshifted 21cm Power Spectra. *Astrophysical Journal.* 804 (1). p.1-15.

Tremblay, S.E., Ord, S.M., Bhat, N.D.R., Tingay, S.J., Crosse, B., Pallot, D., Oronsaye, S.I., **Bernardi, G.**, Bowman, J.D., Briggs, F. and et al. (2015) The High Time and Frequency Resolution Capabilities of the Murchison Widefield Array. *Publications of the Astronomical Society of Australia.* 32 (e005). p.1-9.

Purcell, C.R., Gaensler, B.M., Sun, X.H., Carretti, E., **Bernardi, G.**, Haverkorn, M., Kesteven, M.J., Poppi, S., Schnitzeler, D.H.F.M. and Staveley-Smith, L. (2015) A Radio-Polarisation and Rotation Measure Study of the Gum Nebula and Its Environment. *Astrophysical Journal.* 809 (1). p.1-26.

Prabu, T., Srivani, K.S., Roshi, D.A., Kamini, P.A., Madhavi, S., Emrich, D., Crosse, B., Williams, A.J., Waterson, M., Deshpande, **Bernardi, G.** and et al. (2015) A digital-receiver for the Murchison Widefield Array. *Experimental Astronomy.* 39 (2015). p.73-93.

Pober, J.C., Ali, Z.S., Parsons, A.R., McQuinn, M., Aguirre, J.E., **Bernardi, G.**, Bradley, R.F., Carilli, C.L., Cheng, C., deBoer, D.R. and et al. (2015) PAPER-64 Constraints On Reionization. II. The Temperature of the z = 8.4 Intergalactic Medium. *Astrophysical Journal.* 809 (1). p.1-11.

Oronsaye, S.I., Ord, S.M., Bhat, N.D.R., Tremblay, S.E., McSweeney, S.J., Tingay, S.J., van Straten, W., Jameson, A., **Bernardi, G.**, Bowman, J.D. and et al. (2015) Simultaneous Observations of Giant Pulses from the Crab Pulsar, with the Murchison Widefield Array and Parkes Radio Telescope: Implications for the Giant Pulse Emission Mechanism. *Astrophysical Journal.* 809 (1). p.1-10.

Wayth, R.B., Lenc, E., Bell, M.E., Callingham, J.R., Dwarakanath, K.S., Franzen, T.M.O., For, B.Q., Gaensler, B., Hancock, **Bernardi, G.** and et al. (2015) GLEAM: The GaLactic and Extragalactic All-Sky MWA Survey. *Publications of the Astronomical Society of Australia.* 32 (e025). p.1-12.

Murphy, T., Bell, M.E., Kaplan, D.L., Gaensler, B.M., Offringa, A.R., Lenc,

- E., Hurley-Walker, N., **Bernardi, G.**, Bowman, J.D., Briggs, F. and et al. (2015) Limits on low-frequency radio emission from southern exoplanets with the Murchison Widefield Array. *Monthly Notices of the Royal Astronomical Society*. 446 (2015). p.2560-2565.
- Kaplan, D.L., Tingay, S.J., Manoharan, P.K., Macquart, J.P., Hancock, P., Morgan, J., Mitchell, D.A., Ekers, R.D., Wayth, **Bernardi, G.** and et al. (2015) Murchison Widefield Array Observations of Anomalous Variability: A Serendipitous Night-time Detection of Interplanetary Scintillation. *Astrophysical Journal Letters*. 809 (1). p.1-7.
- Ali, Z.S., Parsons, A.R., Zheng, H., Pober, J.C., Liu, J., Aguirre, J.E., Bradley, R.F., **Bernardi, G.**, Carilli, C.L., Cheng, C. and et al. (2015) PAPER-64 Constraints on Reionization: The 21 cm Power Spectrum at  $z = 8.4$ . *Astrophysical Journal*. 809 (1). p.1-21.
- Arora, B.S., Morgan, J., Ord, S.M., Tingay, S.J., Hurley-Walker, N., Bell, M., **Bernardi, G.**, Bhat, N.D.R., Briggs, F., Callingham, J.R. and et al. (2015) Ionospheric Modelling using GPS to Calibrate the MWA. 1: Comparison of First Order Ionospheric Effects between GPS Models and MWA Observations. *Publications of the Astronomical Society of Australia*. 32 (e029). p.1-21.
- Callingham, J.R., Gaensler, B.M., Ekers, R.D., Tingay, S.J., Wayth, R.B., Morgan, J., **Bernardi, G.**, Bell, M.E., Bhat, R., Bowman, J.D. and et al. (2015) Broadband Spectral Modeling of the Extreme Gigahertz-Peaked Spectrum Radio Source PKS B0008-421. *Astrophysical Journal*. 809 (2). p.1-14.
- Bernardi, G.**, McQuinn, M. and Greenhill, L.J. (2015) Foreground Model and Antenna Calibration Errors in the Measurement of the Sky-Averaged 21cm Signal at  $z \sim 20$ . *Astrophysical Journal*. 799 (90). p.1-11.
- Dillon, J.S., Neben, A.R., Hewitt, J.N., Tegmark, M., Barry, N., Beardsley, A.P., Bowman, J.D., Briggs, F., Carroll, P., **Bernardi, G.** and et al. (2015) Empirical covariance modeling for 21cm power spectrum estimation: A method demonstration and new limits from early Murchison Widefield Array 128-tile data. *Physical Review D*. 91 (123011). p.1-16.
- George, L.T., Dwarakanath, K.S., Johnston-Hollitt, M., Hurley-Walker, N., Hindson, L., Kapinska, A.D., Tingay, S.J., Bell, M., Callingham, J.R., **Bernardi, G.** and et al. (2015) An analysis of the halo and relic radio emission from Abell 3376 from Murchison Widefield Array observations. *Monthly Notices of the Royal Astronomical Society*. 451 (2015). p.4207-4214.
- Hurley-Walker, N., Johnston-Hollitt, M., Ekers, R., Hunstead, R., Sadler, E.M., Hindson, L., Hancock, P., **Bernardi, G.**, Bowman, J.D., Briggs, F. and et al. (2015) Serendipitous discovery of a dying Giant Radio Galaxy associated with NGC 1534, using the Murchison Widefield Array. *Monthly Notices of the Royal Astronomical Society*. 447 (2015). p.2468-2478.
- Loi, S.T., Murphy, T., Cairns, I.H., Menk, F.W., Waters, C.L., Erickson, P.J., Trott, C.M., Hurley-Walker, N., Morgan, J., **Bernardi, G.** and et al. (2015) Real-time imaging of density ducts between the plasmasphere and ionosphere. *Geophysical Research Letters*. 41 (2015). p.3707-3714.
- Loi, S.T., Trott, C.M., Murphy, T., Cairns, I.H., Bell, M., Hurley-Walker, N., Morgan, J., Lenc, E., Offringa, A.R., **Bernardi, G.** and et al. (2015) Power spectrum analysis of ionospheric fluctuations with the Murchison Widefield Array. *Radio Science*. 50 (2015). p.574-596.
- Loi, S.T., Murphy, T., Bell, M.E., Kaplan, D.L., Lenc, E., Offringa, A.R., Hurley-Walker, N., **Bernardi, G.**, Bowman, J.D., Briggs, F. and et al. (2015) Quantifying ionospheric effects on time-domain astrophysics with the Murchison Widefield Array. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.2731-2746.
- McKinley, B., Yang, R., Lopez-Caniego, M., Briggs, F., Hurley-Walker, N., Wayth, R.B., Offringa, A.R., Crocker, R., **Bernardi, G.**, Procopio, P. and et al. (2015) Modelling of the spectral energy distribution of Fornax A: leptonic and hadronic production of high-energy emission from the radio lobes. *Monthly Notices of the Royal Astronomical Society*. 446 (2015). p.3478-3491.
- Tingay, S.J., Trott, C.M., Wayth, R.B., **Bernardi, G.**, Bowman, J.D., Briggs, F., Cappallo, R.J., Deshpande, A.A., Feng, L., Gaensler, B.M. and et al. (2015) A Search for Fast Radio Bursts at Low Frequencies with Murchison Widefield Array High Time Resolution Imaging. *Astronomical Journal*. 150 (6). p.1-14.
- Neben, A.R., Bradley, R.F., Hewitt, J.N., **Bernardi, G.**, Bowman, J.D., Briggs, F., Cappallo, R.J., Deshpande, A.A., Goeke, R., Greenhill, L.J. and et al. (2015) Measuring phased-array antenna beam patterns with high dynamic range for the Murchison Widefield Array using 137 MHz ORBCOMM Satellites. *Radio Science*. 50 (2015). p.614-629.
- Tingay, S.J., Macquart, J.P., Collier, J.D., Rees, G., Callingham, J.R., Stevens, J., Carretti, E., Wayth, R.B., Wong, G.F., **Bernardi, G.** and et al. (2015) The Spectral Variability of the GHz-Peaked Spectrum Radio Source PKS 1718-649 and a Comparison of Absorption Models. *Astronomical Journal*. 149 (74). p.1-9.
- Thyagarajan, Nithyanandan, T.N., Jacobs, D.C., Bowman, J.D., Barry, N., Beardsley, A.P., **Bernardi, G.**, Briggs, F., Cappallo, R.J., Carroll, P., and et al. (2015) Confirmation of Wide-field Signatures in Redshifted 21cm Power Spectra. *Astrophysical Journal Letters*. 807 (2). p.1-5.
- Ord, S.M., Crosse, B., Emrich, D., Pallot, D., Wayth, R.B., Clark, M.A., Tremblay, S.E., Arcus, W., Barnes, D., **Bernardi, G.** and et al. (2015) The Murchison Widefield Array Correlator. *Publications of the Astronomical Society of Australia*. 32 (e006). p.1-14.
- Offringa, A.R., Wayth, R.B., Hurley-Walker, N., Kaplan, D.L., Barry, N., Beardsley, A.P., Bell, M.E., **Bernardi, G.**, Bowman, J.D., Briggs, F. and et al. (2015) The Low-Frequency Environment of the Murchison Widefield Array: Radio-Frequency Interference Analysis and Mitigation. *Publications of the Astronomical Society of Australia*. 32 (e008). p.1-13.
- Bernardi, G.**, Karastergiou, A. and Tasse, C. Morosan, D.E., Gallagher, P.T., Zucca, P., O'Flannagain, A., Fallows, R., Reid, H., Magdalenic, J., **Bernardi, G.**, Karastergiou, A., Tasse, C. and et al. (2015) LOFAR tied-array imaging and spectroscopy of solar S bursts. *Astronomy & Astrophysics*. 580 (A65). p.1-6.
- Bernardi, G.**, Karastergiou, A., Smirnov, O.M. and Tasse, C. Corstanje, A., Schellart, P., Nelles, A., Buitink, S., Enriquez, J.E., Falcke, H., **Bernardi, G.**, Karastergiou, A., Smirnov, O.M., Tasse, C. and et al. (2015) The shape of the radio wavefront of extensive air showers as measured with LOFAR. *Astroparticle Physics*. 61 (2015). p.22-31.
- Shulevski, A., Morganti, R., Barthel, P.D., Murgia, M., van Weeren, R.J., White, G.J., **Bernardi, G.**, Karastergiou, A., Smirnov, O.M., Tasse, C., and et al. (2015) The peculiar radio galaxy 4C 35.06: a case for recurrent AGN activity? *Astronomy & Astrophysics*. 579 (27). p.1-10.
- Nelles, A., Schellart, P., Buitink, S., Corstanje, A., de Vries, K.D., Enriquez, J.E., **Bernardi, G.**, Karastergiou, A., Smirnov, O.M., Tasse, C. and et al. (2015) Measuring a Cherenkov ring in the radio emission from air showers at 110-190 MHz with LOFAR. *Astroparticle Physics*. 65 (2015). p.11-21.
- Moldon, J., Deller, A.T., Wucknitz, O., Jackson, J., Drabant, A., Carozzi, T., **Bernardi, G.**, Karastergiou, A., Smirnov, O.M., Tasse, C. and et al. (2015) The LOFAR long baseline snapshot calibrator survey. *Astronomy & Astrophysics*. 574 (73). p.1-13.
- Bernardi, G.**, Smirnov, O.M. and Tasse, C. Schellart, P., Trinh, T.N.G., Buitink, S., Corstanje, A., Enriquez, J.E., Falcke, H., Horandel, J.R., **Bernardi, G.**, Smirnov, O.M., Tasse, C. and et al. (2015) Probing Atmospheric Electric Fields in Thunderstorms through Radio Emission from Cosmic-Ray-Induced Air Showers. *Physical Review Letters*. 114 (16). p.1-6.
- Orru, E., van Velzen, S., Pizzo, R.F., Yatawatta, S., Paladino, R., Iacobelli, M., Murgia, M., **Bernardi, G.**, Smirnov, O.M., Tasse, C. and et al. (2015) Wide-field LOFAR imaging of the field around the double-double radio galaxy B1834+620. A fresh view on a restarted AGN and doubletjes. *Astronomy & Astrophysics*. 584 (112). p.1-12.
- Chithambo, M.L.**  
**Chithambo, M.L.** (2015) Luminescence lifetimes in natural quartz annealed beyond its second phase inversion temperature. *Radiation Measurements*. 81 (2015). p.198-204.
- Mokoena, P.P., **Chithambo, M.L.**, Kumar, V., Swart, H.C. and Ntwaeaborwa, O.M. (2015) Thermoluminescence of calcium phosphate co-doped with gadolinium and praseodymium. *Radiation Measurements*. 77 (2015). p.26-33.
- Chithambo, M.L. and Nyirenda, A.N.**  
**Chithambo, M.L., Nyirenda, A.N., Finch, A.A. and Rawat, N.S.** (2015) Time-resolved optically stimulated luminescence and spectral emission features of  $-Al_2O_3:C$ . *Physica B-Condensed Matter*. 473 (2015). p.62-71.
- Deane, R.P. and Heywood, I.**  
**Deane, R.P., Obreschkow, D. and Heywood, I.** (2015) Strongly lensed neutral hydrogen emission: detection predictions with current and future radio interferometers. *Monthly Notices of the Royal Astronomical Society*. 452 (2015). p.49-53.
- Foster, G. and Karastergiou, A.**  
**Foster, G., Karastergiou, A., Pullin, R., Carozzi, T.D., Johnston, S. and van Straten, W.** (2015) Intrinsic instrumental polarization and high-

precision pulsar training. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.1489-1502.

#### Habarulema, J.B.

Mungufeni, P., Jurua, E., Habarulema, J.B. and Katrini, S.A. (2015) Modelling the probability of ionospheric irregularity occurrence over African low latitude region. *Journal of Atmospheric and Solar-Terrestrial Physics*. 128 (2015). p.46-57.

Andima, G., Jurua, E., Amabayo, E.B. and Habarulema, J.B. (2015) Statistical analysis of TEC perturbations over a low latitude region during 2009-2013 ascending solar activity phase. *Advances in Space Research*. 56 (2015). p.2542-2551.

#### Habarulema, J.B. and Katamzi, Z.T.

Habarulema, J.B., Katamzi, Z.T. and Yizengwa, E. (2015) First observations of poleward large-scale traveling ionospheric disturbances over the African sector during geomagnetic storm conditions. *Journal of Geophysical Research - Space Physics*. 120 (2015). p.6914-6929.

#### Heywood, I.

Serra, P., Koribalski, B., Kilborn, V., Allison, J.R., Amy, S.W., Ball, L., Bannister, K., Bell, M.E., Bock, D.C.J., Heywood, I. and et al. (2015) ASKAP H I imaging of the galaxy group IC 1459. *Monthly Notices of the Royal Astronomical Society*. 452 (2015). p.2680-2691.

Banfield, J.K., Wong, O.I., Willett, K.W., Norris, R.P., Rudnick, L., Shabala, S.S., Simmons, B.D., Snyder, C., Garon, A., Heywood, I. and et al. (2015) Radio Galaxy Zoo: host galaxies and radio morphologies derived from visual inspection. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.2326-2340.

Allison, J.R., Sadler, E.M., Moss, V.A., Whiting, M.T., Pracy, M.B., Curran, S.J., Croom, S.M., Glowacki, M., Morganti, R., Heywood, I. and et al. (2015) Discovery of H I gas in a young radio galaxy at  $z = 0.44$  using the Australian Square Kilometre Array Pathfinder. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.1249-1267.

#### Jonas, J.L.

Irfan, M.O., Dickinson, C., Davies, R.D., Copley, C., Davis, R.J., Ferreira, P.G., Holler, C.M., Jonas, J.L., Jones, M.E., King, O.G. and et al. (2015) C-Band All-Sky Survey: a first look at the Galaxy. *Monthly Notices of the Royal Astronomical Society*. 448 (4). p.3572-3586.

#### Jozsa, G.I.G.

Wong, O.I., Schawinski, K., Jozsa, G.I.G., Urry, C.M., Lintott, C.J., Simmons, B.D., Kaviraj, S. and Masters, K.L. (2015) Misalignment between cold gas and stellar components in early-type galaxies. *Monthly Notices of the Royal Astronomical Society*. 447 (2015). p.3311-3321.

Janowiecki, S., Leisman, L., Jozsa, G.I.G., Salzer, J.J., Haynes, M.P., Giovanelli, R., Rhode, K.L., Cannon, J.M., Adams, E.A.K. and Janesh, W.F. (2015) (Almost) Dark HI Sources in the ALFALFA Survey: The Intriguing Case of HI1232+20. *Astrophysical Journal*. 801 (96). p.1-17.

Wang, E., Wang, J., Kauffmann, G., Jozsa, G.I.G. and Li, C. (2015) H I scaling relations of galaxies in the environment of H I-rich and control galaxies observed by the Bluedisk project. *Monthly Notices of the Royal Astronomical Society*. 449 (2015). p.2010-2023.

Wang, J., Serra, P., Jozsa, G.I.G., Koribalski, B.S., van der Hulst, T., Kamphuis, P., Li, C., Fu, J., Xiao, T., Overzier, R., Wieringa, M. and Wang, E. (2015) An H I view of galaxy conformity: H I-rich environment around H I-excess galaxies. *Monthly Notices of the Royal Astronomical Society*. 453 (2015). p.2399-2411.

Carton, D., Brinchmann, J., Wang, J., Bigiel, F., Cormier, D., van der Hulst, T., Jozsa, G.I.G., Serra, P. and Verheijen, M.A.W. (2015) Gas-phase metallicity profiles of the Bluedisk galaxies: Is metallicity in a local star formation regulated equilibrium? *Monthly Notices of the Royal Astronomical Society*. 451 (2015). p.210-235.

Kamphuis, P., Jozsa, G.I.G., Oh, S.H., Spekkens, K., Urbancic, N., Serra, P., Koribalski, B.S. and Dettmar, R.J. (2015) Automated kinematic modelling of warped galaxy discs in large H I surveys: 3D tilted-ring fitting of H I emission cubes. *Monthly Notices of the Royal Astronomical Society*. 452 (2015). p.3139-3158.

den Heijer, M., Oosterloo, T.A., Serra, P., Jozsa, G.I.G., Kerp, J., Morganti, R., Cappellari, M., Davis, T.A., Duc, P.A., Emsellem, E., Krajnovic, D., McDermid, R.M., Naab, T., Weijmans, A.M. and de Zeeuw, P.T. (2015) The HI Tully-Fisher relation of early-type galaxies. *Astronomy and Astrophysics*. 581 (A98). p.1-11.

Cannon, J.M., Martinkus, C.P., Leisman, L., Haynes, M.P., Adams, E.A.K., Giovanelli, R., Hallenbeck, G., Janowiecki, S., Jones, M., Jozsa, G.I.G. and et al. (2015) The ALFALFA "Almost Darks" campaign: Pilot VLA H

I observations of five high mass-to-light ratio systems. *Astronomical Journal*. 149 (2). p.1-16.

den Heijer, M., Jozsa, G.I.G., Kerp, J., Serra, P., van der Hulst, T., Kauffmann, G., Wang, J., Bigiel, F., Brinchmann, J., Carton, D., Cormier, D. and Huang, M.L. (2015) A study of the kinematics of unusually H I-rich galaxies. *Astronomische Nachrichten*. 336 (3). p.284-311.

#### Karastergiou, A.

Noutsos, A., Sobey, C., Kondratiev, V.I., Weltevrede, P., Verbiest, J., Karastergiou, A., Kramer, M., Kuniyoshi, M., Alexov, A., Breton, R.P. and et al. (2015) Pulsar polarisation below 200 MHz: Average profiles and propagation effects. *Astronomy and Astrophysics*. 576 (A62). p.1-26.

Karastergiou, A., Chennamangalam, J., Armour, W., Williams, C., Mort, B., Dulwich, F., Salvini, S., Magro, S., Roberts, S., Serylak, M., Doo, A. and et al. (2015) Limits on fast radio bursts at 145 MHz with ARTEMIS, a real-time software backend. *Monthly Notices of the Royal Astronomical Society*. 452 (2015). p.1254-1262.

#### Karastergiou, A. and Serylak, M.

Torchinsky, S.A., Olofsson, A.O.H., Censier, B., Karastergiou, A., Serylak, M., Renaud, P. and Taffoureau, C. (2015) EMBRACE@Nancay: An ultra wide field of view prototype for the SKA. *Journal of Instrumentation*. 10 (7). p.1-15.

Karastergiou, A., Bernardi, G., Smirnov, O.M. and Tasse, C. Sobey, C., Young, N.J., Hessels, J.W.T., Weltevrede, P., Noutsos, A., Stappers, B.W., Karastergiou, A., Bernardi, G., Smirnov, O.M., Tasse, C. and et al. (2015) LOFAR discovery of a quiet emission mode in PSR B0823+26. *Monthly Notices of the Royal Astronomical Society*. 451 (2015). p.2493-2506.

#### Karastergiou, A., Smirnov, O.M. and Tasse, C.

Nelles, A., Horandel, J.R., Karskens, T., Krause, M., Buitink, S., Corstanje, A., Enriquez, J.E., Karastergiou, A., Smirnov, O.M., Tasse, C. and et al. (2015) Calibrating the absolute amplitude scale for air showers measured at LOFAR. *Journal of Instrumentation*. 10 (2015). p.1-34.

#### Matamba, T., Habarulema, J.B. and Mckinnell, L.A.

Matamba, T., Habarulema, J.B. and Mckinnell, L.A. (2015) Statistical analysis of the ionospheric response during geomagnetic storm conditions over South Africa using ionosonde and GPS data. *Space Weather-The International Journal of Research and Applications*. 13 (2015). p.536-547.

#### Mckinnell, L.A. and Habarulema, J.B.

Ssessanga, N., Mckinnell, L.A. and Habarulema, J.B. (2015) Introduction of new data into the South African Ionospheric Map to improve the estimation of F2 layer parameters. *Annals of Geophysics*. 58 (2). p.1-12.

#### Medved, A.J.M.

Brustein, R. and Medved, A.J.M. (2015) How black holes burn: Entanglement entropy evolution for an evaporating black hole. *Physical Review D*. 91 (2015). p.1-5.

Brustein, R. and Medved, A.J.M. (2015) Quantum state of the black hole interior. *Journal of High Energy Physics*. 82 (2015). p.1-15.

Brustein, R. and Medved, A.J.M. (2015) Falling through the black hole horizon. *Journal of High Energy Physics*. 2015 (2015). p.1-18.

Alberte, L., Brustein, R., Khmel'nitsky, A. and Medved, A.J.M. (2015) Density matrix of black hole radiation. *Journal of High Energy Physics*. 15 (2015). p.1-36.

Brustein, R. and Medved, A.J.M. (2015) Constraints on the quantum state of pairs produced by semiclassical black holes. *Journal of High Energy Physics*. 2015. p.1-16.

#### Molenaar, G.J.

Swinbank, J., Staley, T.D., Molenaar, G.J., Rol, E., Rowlinson, A., Scheers, B., Spreeuw, H., Bell, M.E., Broderick, J.W., Carbone, D. and et al. (2015) The LOFAR Transients Pipeline. *Astronomy and Computing*. 11 (2015). p.25-48.

#### Poole, L.M.G.

Jones, J., Poole, L.M.G. and Webster, A.R. (2015) Whipple's ejection model and the Geminid stream. *Monthly Notices of the Royal Astronomical Society*. 455 (2015). p.3424-3429.

#### Roux, D.G.

Roux, D.G., Ma, W.C., Hagemann, G.B., Amro, H., Elema, D.R., Fallon, P., Gorgen, A., Herskind, B., Hubel, H., Li, Y. and et al. (2015) Toward complete spectroscopy of 167Lu. *Physical Review C*. 92 (2015). p.1-28.

#### Sirothia, S.K.

Tamhane, P., Wadadekar, Y., Basu, A., Singh, V., Ishwara-Chandra, C.H., Beelen, A. and Sirothia, S.K. (2015) J021659-044920: a relic giant radio galaxy at  $z = 1.3$ . *Monthly Notices of the Royal Astronomical Society*.

453 (2015). p.2438-2446.

Basu, A., Wadadekar, Y., Beelen, A., Singh, V., Archana, K.N., **Sirothia, S.K.** and Ishwara-Chandra, C.H. (2015) Radio-far-infrared correlation in "blue cloud" galaxies with  $0 < z < 1.2$ . *Astrophysical Journal*. 803 (2). p.1-16.

**Smirnov, O.M.**

Price, D.C. and **Smirnov, O.M.** (2015) Generalized formalisms of the radio interferometer measurement equation. *Monthly Notices of the Royal Astronomical Society*. 449 (2015). p.107-118.

Lochner, M., Natarajan, I., Zwart, J.T.L., **Smirnov, O.M.**, Bassett, B.A., Oozeer, N. and Kunz, M. (2015) Bayesian inference for radio observations. *Monthly Notices of the Royal Astronomical Society*. 450 (2015). p.1308-1319.

**Smirnov, O.M. and Kenyon, J.S.**

Dabbech, A., Ferrari, C., Mary, D., Slezak, E., **Smirnov, O.M.** and **Kenyon, J.S.** (2015) MORESANE: MOfel REconstruction by Synthesis-ANalysis Estimators. A sparse deconvolution algorithm for radio interferometric imaging. *Astronomy and Astrophysics*. 576 (A7). p.1-16.

**Smirnov, O.M. and Tasse, C.**

**Smirnov, O.M.** and **Tasse, C.** (2015) Radio interferometric gain calibration as a complex optimization problem. *Monthly Notices of the Royal Astronomical Society*. 449 (2015). p.2668-2684.

**Tasse, C.**

Scaife, A.M.M., Oozeer, N., de Gasperin, F., Bruggen, M., **Tasse, C.** and Magnus, L. (2015) KAT-7 detection of radio halo emission in the Triangulum Australis galaxy cluster. *Monthly Notices of the Royal Astronomical Society*. 451 (2015). p.4021-4028.

**Tasse, C. and Smirnov, O.M.**

Perkins, S.J., Marais, P.C., Zwart, J.T.L., Natarajan, I., **Tasse, C.** and **Smirnov, O.M.** (2015) Montblanc: GPU accelerated radio interferometer measurement equations in support of Bayesian inference for radio observations. *Astronomy and Computing*. 12 (2015). p.73-85.

**Tasse, C., Bernardi, G., Karastergiou, A. and Smirnov, O.M.**

Heald, G., Pizzo, R.F., Orru, E., Breton, R.P., Carbone, D., Ferrari, C., **Tasse, C., Bernardi, G., Karastergiou, A., Smirnov, O.M.** and et al. (2015) The LOFAR Multifrequency Snapshot Sky Survey (MSSS): I. Survey description and first results. *Astronomy and Astrophysics*. 582 (123). p.1-22.

**Tasse, C., Karastergiou, A. and Smirnov, O.M.**

Garsden, H., Girard, J.N., Starck, J.L., Corbel, S., **Tasse, C.**, Woiselle, A., McKean, J.P., van Amesfoort, A.S., **Karastergiou, A., Smirnov, O.M.** and et al. (2015) LOFAR sparse image reconstruction. *Astronomy and Astrophysics*. 575 (A90). p.1-18.

**Uwamahoro, J.C. and Habarulema, J.B.**

**Uwamahoro, J.C.** and **Habarulema, J.B.** (2015) Modelling total electron content during geomagnetic storm conditions using empirical orthogonal functions and neural networks. *Journal of Geophysical Research - Space Physics*. 120 (2015). p.11000-11012.

## Peer-reviewed Proceedings

**Abdalla, F.B.**

Kirk, D., Benoit-Levy, A., **Abdalla, F.B.**, Bull, P. and Joachimi, B. Cross correlation surveys with the Square Kilometre Array. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Brown, M.L., Bacon, D.J., Camera, S., Harrison, I., Joachimi, B., Metcalf, R.B., Pourtsidou, A., Takahashi, K., Zuntz, J.A., **Abdalla, F.B.** and et al. Weak gravitational lensing with the Square Kilometre Array. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Pritchard, J., Ichiki, K., Mesinger, A., Metcalf, R.B., Pourtsidou, A., Santos, M., **Abdalla, F.B.**, Chang, T.C., Chen, X., Weller, J. and Zaroubi, S. Cosmology from EoR/Cosmic Dawn with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Bacon, D., Bridle, S., **Abdalla, F.B.**, Brown, M., Bull, P., Camera, S., Fender, R., Grainge, K., Ivezić, Z., Jarvis, M. and et al. Synergy between the Large Synoptic Survey Telescope and the Square Kilometre Array. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Wolz, L., **Abdalla, F.B.**, Alonso, D., Blake, C., Bull, P., Chang, T.C.,

Ferreira, P.G., Kuo, C.Y., Santos, M.G. and Shaw, R. Foreground Subtraction in Intensity Mapping with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

**Abdalla, F.B.**, Bull, P., Camera, S., Benoit-Levy, A., Joachimi, B., Kirk, D., Klockner, H.R., Maartens, R., Raccanelli, A., Santos, M.G. and Zhao, G.B. Cosmology from HI galaxy surveys with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Maartens, R., **Abdalla, F.B.**, Jarvis, M. and Santos, M.G. Overview of Cosmology with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

**Abdalla, F.B. and Bernardi, G.**

Koopmans, L.V.E., Pritchard, J., Mellema, G., **Abdalla, F.B.**, Aguirre, J.E., Ahn, K., Barkana, R., van Bemmell, I., **Bernardi, G.**, Bonaldi, A., Briggs, F. and et al. The Cosmic Dawn and Epoch of Reionization with the Square Kilometre Array. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Messina. Italy. June 2014.

Chapman, E., Bonaldi, A., Harker, G., Jelic, V., **Abdalla, F.B., Bernardi, G., Bobin, J., Dulwich, F., Mort, B., Santos, M.G.** and Starck, J.L. Cosmic Dawn and Epoch of Reionization Foreground Removal with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

**Bernardi, G.**

Govoni, F., Murgia, M., Xu, H., Li, H., Feretti, L., Giovannini, G., Vacca, V., **Bernardi, G.**, Bonafede, A., Brunetti, G., Carretti, E. and et al. Cluster magnetic fields through the study of polarized radio halos in the SKA era. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Messina. Italy. June 2014.

Giardi, B., Inoue, S., Mack, K.J., Xu, Y. and **Bernardi, G.** 21cm Forest with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Cassano, R., **Bernardi, G.**, Brunetti, G., Bruggen, M., Clarke, T., Dallacasa, D., Dolag, K., Etori, S., Giacintucci, S., Giocoli, C., Gitti, M. and et al. Cluster Radio Halos at the crossroads between astrophysics and cosmology in the SKA era. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Messina. Italy. June 2014.

**Bernardi, G. and Abdalla, F.B.**

Santos, M.G., Bull, P., Alonso Betancourt, O., Camera, S., Ferreira, B.P., **Bernardi, G.**, Maartens, R., Viel, M., Villaescusa-Navarro, F., **Abdalla, F.B.**, Jarvis, M., Metcalf, R.B., Pourtsidou, A. and Wolz, L. Cosmology with a SKA HI intensity mapping survey. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

**Bernardi, G. and Heywood, I.**

Deane, R.P., Paragi, Z., Jarvis, M., Coriat, M., **Bernardi, G.**, Frey, S., **Heywood, I.** and Klockner, H.R. Multiple supermassive black hole systems: SKA's future leading role. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

**Heywood, I.**

Wagg, J., Da Cunha, E., Carilli, C., Walter, F., Aravena, M., **Heywood, I.**, Hodge, J., Murphy, E., Riechers, D., Sargent, M. and Wang, R. Enabling the next generation of cm-wavelength studies of high-redshift molecular gas with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Zwart, J., Wall, J., Karim, A., Jackson, C., Norris, R., Condon, J., Afonso, J., **Heywood, I.**, Jarvis, M., Navarrete, F. and et al. Astronomy Below the Survey Threshold in the SKA Era. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Murphy, E.J., Sargent, M.T., Beswick, R.J., Dickinson, C., **Heywood, I.**, Hunt, L.K., Hyunh, M.T., Jarvis, M., Karim, A., Krause, M. and et al. The Astrophysics of Star Formation Across Cosmic Time at <10 GHz with the Square Kilometre Array. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Jarvis, M.J., Seymour, N., Alfonso, J., Best, P., Beswick, R., **Heywood, I.**, Huynh, M., Murphy, E., Prandoni, I., Schinnerer, E., Simpson, C., Vaccari, M. and White, S. The star-formation history of the Universe with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Messina. Italy. June 2014.

**Jozsa, G.I.G.**

Popping, A., Meyer, M., Staveley-Smith, L., Obreschkow, D., **Jozsa, G.I.G.** and Pisano, D.J. Observations of the Intergalactic Medium and the Cosmic Web in the SKA era. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Messina. Italy. June 2014.

**Makhathini, S., Abdalla, F.B., Heywood, I. and Smirnov, O.M.**

Patel, P., Harrison, I., Makhathini, S., Abdalla, F.B., Bacon, D., Brown, M.L., Heywood, I., Jarvis, M. and Smirnov, O.M. Weak Lensing Simulations for the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Makhathini, S., Smirnov, O.M. and Heywood, I.

Makhathini, S., Smirnov, O.M., Jarvis, M.J. and Heywood, I. Morphological classification of radio sources for galaxy evolution and cosmology with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

Mitra, M., Makhathini, S., Foster, G. and Smirnov, O.M.

Mitra, M., Makhathini, S., Foster, G., Smirnov, O.M. and Perley, R. Incorporation of antenna primary beam patterns in radio-interferometric data reduction to produce wide-field, high-dynamic-range images. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*. Torino Incontra Congress Center, Torino. Italy. September 2015.

Smirnov, O.M., Makhathini, S. and Kenyon, J.S.

Ferrari, C., Dabbech, A., Smirnov, O.M., Makhathini, S., Kenyon, J.S., Murgia, M., Govoni, F., Mary, D., Slezak, E., Vazza, F. and et al. Non-thermal emissions from galaxy clusters: feasibility study with the SKA. *Advancing Astrophysics with the Square Kilometre Array*. Giardini Naxos, Sicily. Italy. June 2014.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Atang, E.F.M. and Chithambo, M.L.

Atang, E.F.M. and Chithambo, M.L. Phosphorescence of phototransferred thermoluminescence in annealed synthetic quartz. *South African Institute of Physics Conference*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.

Chithambo, M.L.

Lontsi Sob, J. and Chithambo, M.L. The influence of annealing on radioluminescence and thermally stimulated luminescence of natural quartz. *South African Institute of Physics Conference*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.

Chithambo, M.L. Temperature-dependence of time-resolved luminescence from  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>:C. *UK Luminescence and ESR meeting*. University of Glasgow, Glasgow. Scotland. July 2015.

Chithambo, M.L. Temperature-dependence of time-resolved luminescence intensity from  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>:C. *5th International Conference on Luminescence and Its Applications*. Boardwalk Convention Centre, Port Elizabeth. South Africa. February 2015.

Mthwesi, Z. and Chithambo, M.L.

Mthwesi, Z. and Chithambo, M.L. Thermoluminescence of annealed synthetic quartz. *South African Institute of Physics Conference*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.

Nsengiyumva, S.

Nsengiyumva, S., Raji, A.T., Britton, D.T. and Harting, M. Stress assisted diffusion of krypton in polycrystalline titanium. *The African Light Source Conference and Workshop*. European Synchrotron Radiation Facility, Grenoble. France. November 2015.

Nsengiyumva, S., Topic, M., Pichon, L. and Comrie, C.M. Oxygen depth profiling by resonant backscattering and glow discharge optical emission spectroscopy of Ti-6Al-4V alloy oxidized by ion implantation and plasma based treatment. *The 13th International Conference on Plasma Based Ion Implantation & Deposition, PBI&D 2015*. The cultural Center General San Martin, Buenos Aires. Argentina. October 2015.

Nsengiyumva, S. and Chithambo, M.L.

Nsengiyumva, S. and Chithambo, M.L. Phototransferred thermoluminescence in argon implanted synthetic quartz. *South African Institute of Physics Conference*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.

Nsengiyumva, S. and Chithambo, M.L. Phototransferred thermoluminescence in argon implanted synthetic quartz. *South African Institute of Physics 2015*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.

Nyirenda, A.N. and Chithambo, M.L.

Nyirenda, A.N., Chithambo, M.L. and Polymeris, G. On luminescence stimulated from deep traps in  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>:C. *9th International Conference on Luminescent Detectors and Transformers of Ionizing Radiation*. Dorpat Conference Centre, Tartu. Estonia. September 2015.

Nyirenda, A.N. and Chithambo, M.L. Dependence of the photo-ionization cross-section of  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>:C on the measurement temperature. *South African Institute of Physics Conference*. Boardwalk Convention Centre, Port Elizabeth. South Africa. July 2015.



Staff member in the Department of Physics, Dr Jennifer Williams, won the Vice-Chancellor's Distinguished Teaching Award in 2015 (shared with Professor Catherine Foxcroft of the Department of Music and Musicology).  
Photo: Paul Greenway/3pphotography

# POLITICAL AND INTERNATIONAL STUDIES

The Department of Political and International Studies contributed to the national debate on Curriculum Transformation and Institutional Transformation in Higher Education through ongoing projects, the holding of an international colloquium, as well as with its Teach-In for 2015.



Political and International Studies Department staff and visitors (back row left to right) Dr Philip Mwanika, Dr Gwinyayi Dzinesa, Ms Yvonne Phyllis, Dr Fenneke Reysoo, Professor Leonhard Praeg, (front row left to right) Dr Sally Matthews, Dr Tony Fluxman, Ms Lumka Mqingwana, Ms Lukhona Mdluli, Mr Mlamuli Hlatshwayo, Professor Paul-Henri Bischoff, and Ms Siphokazi Magadla.  
*Photo: Department of Political and International Studies*

## Introduction

Several Postgraduate offerings were courses taught by Visiting Professors and Lecturers from the United States of America, Ghana, Kenya, Switzerland and Colombia.

Throughout the year the department offered up space for intellectual inquiry through its weekly public Friday seminar series.

Adding to this context of intellectual inquiry, study and work-in-progress were a number of important publications by staff and scholars associated with the department - including three (3) book publications, six (6) book chapters and twenty (20) articles in academic journals. Significantly, five (5) contributions to research outputs involved or emanated from postgraduate students, while two (2) academic interventions came from Postdoctoral Research Fellows at the department.

## Postgraduates / Graduations

The department had a complement of seventy-one (71) Postgraduate students in 2015. Nineteen (19) of these students were awarded their Honours degrees. Of these more than a quarter, twenty-six percent (26%), obtained a First Class pass. Four (4) students obtained their Diploma in African Diplomacy and Peacekeeping (PDIS) and four (4) obtained their Master degrees with three (3) of the latter awarded with a First Class pass.

## Distinguished Visitors / International Visits

### Visiting Professors, Lecturers and Postdoctoral Research Fellows

**Professor Lewis R. Gordon**, Professor of Philosophy and Africana Studies at UCONN-Storrs, University of Connecticut; European Union Visiting Chair in Philosophy at Université Toulouse Jean Jaurès, France serving in his second year as Visiting Nelson Mandela Professor of Political Studies in the department taught on "Fanon at 90."

**Professor Fenneke Reysoo**, Research Scientific Director, Programme on Gender and Global Change, The Graduate Institute of International and Development Studies, Geneva, Switzerland taught a course on "Gender, Culture and Power."

**Professor Amitav Acharya** of the American University, Washington, United States of America, was Visiting Professor.

**Dr Philip Mwanika**, Senior Lecturer, Diplomacy and International Security Programme, Department of Peace and

International Studies, Daystar University, Kenya taught on “African Diplomacy in a Globalised World” to postgraduate students.

**Dr Fiifi Edu-Afful**, Deputy Programme Head of Peace Support Operations Programme (PSO) in the Faculty of Academic Affairs in the Kofi Annan International Peacekeeping Training Centre, Accra, Ghana, taught on “West African Security Issues” to Postgraduates.

**Dr Paul-Simon Handy**, Senior Programme leader at the Institute of Security Studies (ISS) in Pretoria taught on “International Peacekeeping and Africa-Theory and Practice” to Honours and Diploma students.

**Dr Mathieu Adjagbe**, a graduate of the University of Ottawa, Canada, served as Postdoctoral Research Fellow.

**Mr Fabio Diaz**, MA, a graduate of the Institute of Social Studies, Erasmus University, The Hague, Netherlands and the Universidad de los Andes, Bogota, Colombia and PhD student at the Institute of Social Studies, Erasmus University, The Hague, Netherlands, taught a course on “Comparative Civil Wars” to Postgraduates.

**Dr Emmanuel Mayeza**, a graduate of the University of KwaZulu-Natal served as Postdoctoral Research Fellow and taught on Political Sociology to second year students.

**Dr Nkosi Mpfu**, a graduate of the University of KwaZulu-Natal, served as Postdoctoral Research Fellow.

September Teach-In “Pedagogies of Place” - Speakers:

- **Dr Lis Lange**, DVC Academic (University of the Free State),
- **Professor Juliet Perumal** (University of Johannesburg),
- **Mr Adam Elliot-Cooper** (University of Oxford)
- **Mr Sizwe Mpfu-Walsh** (University of Oxford “RhodesMustFall”)

**Visitors presenting seminars in the department’s Friday lunchtime series:**

- **Dr Fiifi Edu-Afful**, African agency in R2P: interventions by African union and ECOWAS in Mali, Cote Divoire and Libya. Friday, 31 July 2015.
- **Professor Steven Friedman**, The Janus face of the past: Preserving and Resisting African Path Dependence. Friday, 14 August 2015.
- **Dr Philip Mwanika**, Kenya’s soft-power diplomacy and strategic intervention in the Somali conflict. Friday, 21st August 2015.
- **Professor Fenneke Reysoo**, Chic, cheque, choc. Bodily transactions and love strategies among adolescents and young adults in Bamako, Mali. Friday, 28 August 2015.
- **Professor Jolleen Steyn-Kotze**, NNMU, #Rhodesmustfall and open Stellenbosch: a Maoist exploration. Friday, 18 September 2015.
- **Dr Tim Murithi**, The Pan-African School of international relations: the trajectory of an idea. Friday, 9 October 2015.
- **Professor Lewis Gordon**, Fanon on violence. Friday, 16 October 2015.



Dr Fiifi Edu-Afful taught Postgraduate students on “West African Security Issues” during his visit to the Department in 2015.  
Photo: Department of Political and International Studies

## Significant Research Aligned Events

The 2015 International Thinking Africa conference on Curriculum Transformation took place in September 2015 and amounted to a collaboration between the department’s Thinking Africa project led by Professor Leonhard Praeg and the Allan Gray Centre for Leadership Ethics (Rhodes University), the Centre for Higher Education Research, Teaching and Learning, (Rhodes University); the office of Equity and Institutional Culture, (Rhodes University) and The NRF Funded Research Focus on Institutional Cultures. In an attempt to go beyond the ideological confines of a nationalist discourse on Africanisation, the conference explored the usefulness of approaching these issues from the perspective of Critical Pedagogies of Place.

The Annual Teach-In entitled “*Pedagogies of Place*” had four (4) speakers deliver lunch hour presentations to the student body and a wider public. These included, Dr Lis Lange, DVC Academic (UFS), Professor Juliet Perumal (UJ), Mr Adam Elliot-Cooper (Oxford) and Mr Sizwe Mpfu-Walsh (Oxford “RhodesMustFall”).

**Professor Louise Vincent**, awarded a Mellon Focus Area grant, allowed a number of students to take up scholarships to work on topics related to higher education institutional transformation. Four (4) students from this project completed their Masters with distinction in 2015. Vincent’s ongoing interest in the politics of the body was taken up in a project critiquing obesity discourses in news reporting. Her student, Chantelle Malan, graduated with her Masters thesis in this area of work and the work was published in two (2) journals - *Sexualities* and *Fat Sex*.

**Professor Paul-Henri Bischoff**

Head of Department

## Books/Chapters/Monographs

**Friedman, S.**

**Friedman, S.** (2015) *Race, Class and Power: Harold Wolpe and the Radical Critique of Apartheid*. UKZN Press. ISBN: 9781869142865.

**Friedman, S.** (2015) The Janus Face of the Past: Preserving and Resisting South African Path Dependence In: Mangcu, X. (ed.). *The Colour of our Future: Does Race Matter in Post-Apartheid South Africa?* Johannesburg: Wits University Press. p.45-63. ISBN: 9781868145690.

**Gordon, L.**

**Gordon, L.** (2015) *What Fanon Said: A Philosophical Introduction to His Life and Thought*. Johannesburg: WITS University Press. ISBN: 9781868148608.

**Gordon, L.** (2015) Race and Justice in Higher Education: Some Global Challenges, with Attention to the South African Context. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.157-183. ISBN: 9781869142902.

**Gordon, L.** (2015) Fanon, Frantz. In: LaFollette, H. (ed.). *The International Encyclopedia of Ethics*. Oxford: Wiley-Blackwell. p.1-6. ISBN: 9781444367072.

**Gordon, L.** (2015) Satre, Jean-Paul. In: Gibbons, M.T., Coole, D., Ellis, E. and Ferguson, K. (eds.). *The Encyclopedia of Political Thought*. Oxford: Wiley-Blackwell. p.3335-3346. ISBN: 9781118474396.

**Matthews, S.**

**Matthews, S.** (2015) White Privilege and Institutional Culture at South African Higher Education Institutions. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.72-95. ISBN: 9781869142902.

**Matthews, S. and Tabensky, P.A.** (ed.) (2015) *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. ISBN: 9781869142902.

**Vincent, L.**

**Vincent, L.** (2015) 'Tell Us a New Story': A Proposal for the Transformatory Potential of Collective Memory Projects. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.21-44. ISBN: 9781869142902.

## Other Publications

**Dzinesa, G.A.**

**Dzinesa, G.A.** (2015) Sudan Election Postmortem. In: *Election Watch: Management of democratic election in Africa "Creating a community on African elections"*. Pretoria: UNISA Press.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Msomi, Z.N. and Matthews, S.**

**Msomi, Z.N. and Matthews, S.** (2015) Protecting Indigenous Knowledge using Intellectual Property Rights Law: The Masakhane Pelargonium Case. *Africanus: Journal of Development Studies*. 45 (1). p.71-86.

**Naicker, C.**

**Naicker, C.** (2015) Marikana and the Subaltern: The Politics of Specificity. *Economic and Political Weekly*. 24 (2015). p.99-107.

**Vincent, L. and Malan, C.**

**Vincent, L. and Malan, C.** (2015) Interpreting press coverage of South Africa's post-apartheid 'obesity epidemic'. *Fat Studies*. 5 (1). p.1-13.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Acharya, A.**

Jetschke, A., **Acharya, A.**, De Lombaerde, P., Katsumata, H. and Pempel, T.J. (2015) Roundtable: studying Asian and comparative regionalism through Amitav Acharya's work. *International Relations of the Asia-Pacific*. 2015 (2015). p.1-30.

**Friedman, S.**

**Friedman, S.** (2015) Archipelagos of dominance. Party fiefdoms and South African democracy. *Zeitschrift für Politikwissenschaft*. 9 (2015). p.139-159.

**Good, K.**

**Good, K.** (2015) Lara Pawson (2014) In the Name of the People: Angola's Forgotten Massacre. New York: I.B.Tauris. *Journal of Asian and African Studies*. 50 (2015). p.488-491.

**Howell, S.**

**Macleod, C. and Howell, S.** (2015) Public foetal images and the regulation of middle-class pregnancy in the online media: a view from South Africa. *Culture Health & Sexuality*. 17 (10). p.1207-1220.

**Magadla, S.**

**Magadla, S.** (2015) Book Review: Mark Duffield (2014) *Global Governance and the New Wars: The Merging of Development and Security* (London and New York: Zed Books), 320pp., ISBN 978-1-780-32560-6. *Politikon*. 42 (1). p.151-153.

**Magadla, S.** (2015) Book Review: Pumla Dineo Gqola, *A Renegade called Simphiwe: The Wounded Hero*. IMF Books: Johannesburg, 2013; 159pp, ISBN: 978-1-920601-08-9. *Journal of Asian and African studies*. 50 (3). p.382-383.

**Magadla, S.** (2015) Women combatants and the liberation movements in South Africa: Guerrilla girls, combative mothers and the in-betweeners. *African Security Review*. 24.4 (2015). p.390-402.

**Matthews, S.**

**Matthews, S.** (2015) *Reflections on Teaching Africa in South Africa*. *Politics*. 2015 (2015). p.1-15.

**Matthews, S.** (2015) Privilege, solidarity and social justice struggles in South Africa: a view from Grahamstown. *Transformation*. 88 (2015). p.1-24.

**Matthews, S.** (2015) Shifting White Identities in South Africa: White Africanness and the Struggle for Racial Justice. *Phronimon: Journal of the South African Society for Greek Philosophy and the Humanities*. 16 (2). p.112-129.

**Mayeza, E.**

**Mayeza, E.** (2015) Exclusionary violence and bullying in the playground: Football and gender 'policing' at school. *African Safety Promotion - A journal of Injury and violence Prevention*. 13 (1). p.49-70.

**Mthatyana, A. and Vincent, L.**

**Mthatyana, A. and Vincent, L.** (2015) Multiple femininities in a 'single sex' school: Re-orienting Life Orientation to learner lifeworlds. *Perspectives in education*. 33 (2). p.49-62.

**Naicker, C.**

**Naicker, C.** (2015) Worker Struggles as Community Struggles: The Politics of Protest in Nkaneng, Marikana. *Journal of Asian and African Studies*. 2015 (2015). p.1-14.

**O'Halloran, P.**

**O'Halloran, P.** (2015) Dreaming the Post-Colony: Achille Mbembe's On the Postcolony, Wits University Press, 2015, 274 pages, ZAR280, paperback, EAN: 978 1 86814 691 8. *Journal of Asian and African Studies*. 2015 (2015). p.1-6.

**O'Halloran, P.** (2015) Moments of conceptual potential: Frantz Fanon, the postcolony, and "nonwar communities". *Politics, Groups, and Identities*. 2015 (2015). p.1-15.

**Vincent, L.**

Shefer, T., Kruger, L.M., Macleod, C., Baxen, J. and **Vincent, L.** (2015) '...a huge monster that should be feared and not done': Lessons learned in sexuality education classes in South Africa. *African Safety Promotion - A Journal of Injury and Violence Prevention*. 13 (1). p.71-87.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Adjagbe, M.**

**Adjagbe, M.** Ban on Political Science and Barbarism: Professionalizing the Science of Government in Côte d'Ivoire. *Conference of Francophone Associations of Political Science*. Lausanne, Switzerland. July 2015.

**Dzinesa, G.A.**

**Dzinesa, G.A.** Conflict Resolution South African Style from Mediation



Nelson Mandela Visiting Professor Lewis Gordon taught on "Fanon at 90".  
 Photo: Department of Political and International Studies



Political and International Studies students Anna Kharucha (left) and  
 Kate Janse Van Rensburg (right).  
 Photo: Department of Political and International Studies

to Peace Enforcement. *Department of International Relations (Wits)/South African Institute of International Affairs (SAIIA)/ Hans Seidel Foundation "South African Solutions for African Problems? Debating South African Leadership on the Continent?" workshop.* University of the Witwatersrand, Johannesburg. South Africa. June 2015.

**Dzinesa, G.A.** Key Peace and Security Trends in the Region. *University of Johannesburg/SAAPS Colloquium on the theme "Progress or Stagnation: Quo Vadis Southern African Politics?"* University of Johannesburg, Johannesburg. South Africa. August 2015.

**Magadla, S.**

**Magadla, S.** Women combatants and the liberation movements in South Africa: Guerrilla girls, combative mothers and the in-betweeners. *Gender and Security in Africa.* Protea Hotel, Pretoria. South Africa. June 2015.

**Matthews, S.**

**Matthews, S.** Alternatives to Development in Africa. *British International Studies Association 40th Anniversary Conference.* Guoman Tower Hotel, London. United Kingdom. June 2015.

**Vincent, L.**

**Mpofu, N., Amner, R. and Vincent, L.** Learning to care for our places: a critical pedagogy of place approach. *7th Annual Research Conference.* University of Namibia, Windhoek. Namibia. September 2015.

**Mpofu, N., Amner, R. and Vincent, L.** Reflecting on civic mapping as a place based learning approach for Journalism education. *Annual SACOMM Conference.* AFDA, Cape Town. South Africa. September 2015.

# PSYCHOLOGY

Staff, students and Research Associates of the Psychology Department produced eighteen (18) subsidy-earning journal articles in 2015, one (1) monograph book, three (3) subsidy-bearing book chapters, and presented thirty-seven (37) conference papers at local and international conferences.

## Introduction

The book, *Men's pathways to parenthood: Silence and heterosexual gendered norms*, published by HSRC Press, was authored by Tracy Morison (a PhD graduate from and Research Associate of the Psychology Department, and fulltime researcher at the *Human Sciences Research Council* and Professor Catriona Macleod (her PhD supervisor, and *SARCHI Chair of the Critical Studies in Sexualities and Reproduction* programme in the Psychology Department).

Departmental research outputs were richly varied across themed sub-disciplinary areas of psychology, and included ten (10) subsidy-earning publications that were collaborations between Psychology Department staff and their students and/or Research Associates. Strong research themes included:

- Psychological assessment in South Africa, including cross-cultural issues and translation of instruments;
- Sexual citizenship and reproductive justice, including sexuality education in schools with young people, and unsupported pregnancy;
- Critical studies in sexualities and alternate forms of families and parenting;
- Participatory Action Research, community psychology, and a peer group supervision model;
- Psychotherapeutic modalities and processes, using case study, schema, narrative and psychoanalytic approaches;
- Concussive injury in rugby players, and sport psychology;
- Gender-based violence and masculinities;
- University students' wellbeing and social media usage;
- Negotiating ethics in various sensitive and ethnographic research processes.

## Postgraduates/Graduations

The Psychology Department celebrated the graduations of Postgraduate students from Honours through to PhD, who completed their degrees to graduate at various ceremonies. We are still in the enviable position of receiving far more applications for Postgraduate study than we are able to accommodate.

There were a whopping fifty-seven (57) Postgraduate graduations in total - forty-four (44) Honours, six (6) Masters in Psychology by full dissertation, five (5) Masters in Clinical or Counselling Psychology and two (2) Doctorates.

There is a varying amount of research-related activity in these degrees. For example, the Honours in General or Organizational Psychology degree contains a thirty percent (30%) research component, with a rigorous research methodology course and independent, supervised research project. The Masters in Clinical



CSSR graduates and award winners (from front left to right) Tracey Feltham-King (PhD), Catriona Macleod (VC's Distinguished Senior Researcher Award), Zipho Dolamo (Hons), Ryan du Toit (Siyahluma/Community Engagement Award), Malvern Tatenda Chiweshe (PhD), Sharli Paphitis (Community Engagement Award), Nicola Jearey-Graham (Masters in Clinical Psychology)  
Photo: Shelley Jacobs

or Counselling Psychology training includes examinable coursework and a half-thesis thirty-four percent (34%), and graduates require further professional development to register with the *Health Professions Council of South Africa* to practice as clinical or counselling psychologists.

Our two (2) Doctoral graduates, Dr Graham Kingma and Dr Diana Zoccola, were supervised by Professor Charles Young (co-supervised by Dr Carla Meijen at the University of Kent in the United Kingdom) and Professor Ann Edwards respectively. These Doctoral studies were entitled: *Minding your game: Self-regulation and psychological momentum among golfers* (Kingma); and *Neurocognitive effects of head and body collisions on club level Rugby Union players* (Zoccola).

## Distinguished Visitors

The Department hosted several distinguished visitors during 2015, who presented public lectures or workshops, and engaged with staff and students at various levels. These visits included undergraduate and/or Postgraduate students, and represent strategic attempts in the Psychology Department to build relevance of its curricula through active engagements between psychological services and community practices,

and between teaching and engaged research - as responsive to a range of pressing social issues and contexts.

Since 2008, the Department has made an annual *Social Change Award* to acknowledge the contributions that psychologists make towards social transformation in South Africa, in ways that go beyond providing services to individuals to the 'public good', and draw deeply on research and thinking about how to do research (and theorize our findings) differently.

In September 2015, this award was presented to Professor Kopano Ratele. Ratele is a co-Director of the *Institute for Social and Health Sciences* at UNISA, and founding member and chairperson of the NGO *Sonke Gender Justice*. His social-political activism, community mobilization and research scholarship as a public intellectual focuses on the subjects of boys, men and masculinities as they intersect with traditions, violence, class, sexuality, race - and the discipline of psychology in Africa. He presented a well-received talk entitled: *Why do we need an African Psychology if we're happy with Psychology in Africa?*

## Significant research aligned events

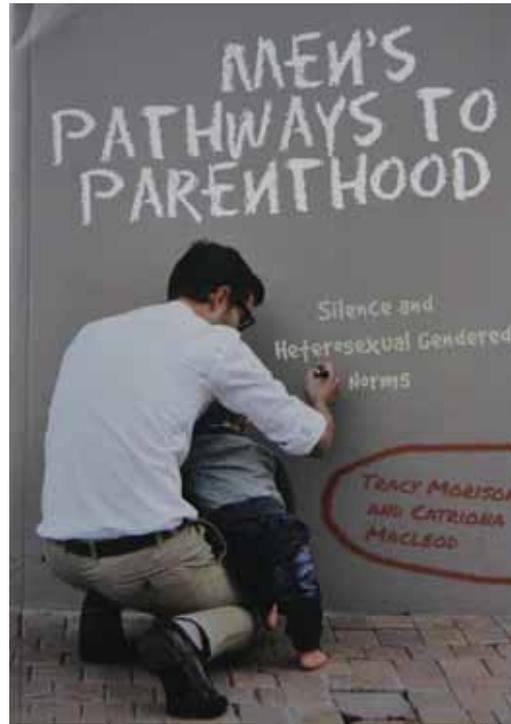
Professor Catriona Macleod - holding the SARChI Chair in *Critical Studies in Sexualities and Reproduction*, in the Psychology Department - continued to provide inspired research leadership through her productivity in subsidy-earning publications, conference presentations, and her networking and mentoring with up-and-coming researchers. In recognition of her excellence in research activities, she was honoured with two (2) awards in 2015 - as the recipient of the *2015 Vice Chancellor's Distinguished Senior Research Award*, and the *2015 Vice Chancellor's Distinguished Award for Community Engagement*, shared between Dr Sharli Paphitis, Dr Lindsay Kelland and Mr Ryan Du Toit, for their *Siyahluma* (Menstruation) Project.

She also served as chief conference organizer of a prestigious international conference that was held at Rhodes University in July 2015. The *9th Biennial International Society for Critical Health Psychology (ISCHP) Conference* brought together almost one hundred and twenty (120) global scholars who were interested in exploring ongoing and emerging issues in critical research, critical theory and critical practice in relation to health, health care and social justice.

Significantly, twenty-two (22) papers were presented by Psychology Department staff, students and Research Associates at this conference. A young PhD student in the Psychology Department, Jabulile Mavuso, described her conference experience like this:

*I thoroughly enjoyed participating in the conference. The opportunity to present my work and hear invaluable insights from others doing similar work and the privilege to hear (important) work being done by others in this field were priceless. The key note addresses got me thinking about the histories of psychology and about the kind of knowledges we produce today. A memorable experience!*

Two (2) staff members in the Psychology Department edited a *Virtual Special Issue* entitled "Constructing Sexualities" for the well-regarded international journal, *Feminism & Psychology*. Jacqui Marx and Natalie Donaldson edited this issue available



Tracy Morison and Professor Catriona Macleod's book *Men's pathways to parenthood: Silence and heterosexual gendered norms*, published by HSRC Press in 2015.

Photo credit: Taryn Gillitt

at [http://fap.sagepub.com/site/vsi/Constructing\\_Sexualities.xhtml](http://fap.sagepub.com/site/vsi/Constructing_Sexualities.xhtml), and produced a meta-analytical introductory editorial/article in it that unpacked research trends in sexualities research, over several decades, within *Feminism & Psychology*.

Dr Marx, a registered research psychologist with the *Health Professions Council of South Africa*, alongside Dr Sharli Paphitis, was appointed as Co-Chair of the *Rhodes University Ethical Standards Committee* towards the end of 2015.

The Psychology Department also invested in development of its younger academics and Postgraduate researchers. The *Prabashini Appalsamy Memorial Award* in 2015 was shared between two (2) Psychology Honours students who received the highest marks for the research methodology and research project component of the course - Rachel Bennie and Chesney Ward-Smith.

The aim of this award is to contribute towards developing research capacity through encouraging recipients to continue to Masters-level research degrees, and to pursue careers in research psychology. Both Bennie and Ward-Smith have registered for Masters of Arts in Psychology (by thesis) in 2016.

**Professor Lindy Wilbraham**  
Head of Department

## Books/Chapters/Monographs

**Barker, K.E.**

Van der Walt, C. and **Barker, K.E.** (2015) Making the Circle Safer: Intercultural Bible Reading in the Context of Sexual Violence (A Dialogue within South Africa). In: de Wit, H. and Dyk, J. (eds.). *Bible and Transformation: The Promise of Intercultural Bible Reading*. Atlanta: SBL Press. p.215-239. ISBN: 9781628371055.

**Donaldson, N.**

**Donaldson, N.** (2015) What about the Queers? The Institutional Culture of Heteronormativity and Its Implications for Queer Staff and Students. In: Tabensky, P. and Matthews, S. (eds.). *Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions*. Durban: UKZN Press. p.130-146. ISBN: 9781869142902.

**Macleod, C.**

**Macleod, C.** (2015) Teenage pregnancy. In: Whelehan, P. and Bolin, A. (eds.). *The International Encyclopedia of Human Sexuality*. America: John Wiley & Sons. ISBN: 9781118896877.

**Morison, T. and Macleod, C.**

**Morison, T. and Macleod, C.** (2015) *Men's Pathways to Parenthood: Silence and Heterosexual Gendered Norms*. Pretoria: HSRC Press. ISBN: 978079625039.

## Concerts, Exhibitions, Performances, Workshops, Events

**Chiweshe, M.T., Mavuso, J.M.J., Glover, J.M., Ndabula, Y., Kalyanaraman, Y. and Du Toit, R.R.**

**Chiweshe, M.T., Mavuso, J.M.J., Glover, J.M., Ndabula, Y., Kalyanaraman, Y. and Du Toit, R.R.** *Invited Presentations*. Gender, gender identity and sexuality: Grades 9 and 10. Victoria Girls High School, Grahamstown. South Africa. 7 September - 10 November 2015.

**Chiweshe, M.T., Mavuso, J.M.J., Ndabula, Y., Kalyanaraman, Y. and Glover, J.M.**

**Chiweshe, M.T., Mavuso, J.M.J., Ndabula, Y., Kalyanaraman, Y. and Glover, J.M.** *Invited Presentation*. Gender and Sexual violence. Kingswood College, Grahamstown. South Africa. 22 October 2015.

**Donaldson, N.**

**Donaldson, N. and Kelland, L.A.** *Co-facilitated Workshop*. Gender Dynamics: Women Only. Rhodes University Residence Leadership Training. Barratt Lecture Theatre, Grahamstown. South Africa. 5 February 2015.

**Du Toit, R.R.**

**Du Toit, R.R.** *Invited Presentation*. Reproductive justice? A critical examination of pre-termination of pregnancy consultations in the public health sector in South Africa and in Great Britain. Sociology Department, University of York, York. United Kingdom. 19 November 2015.

**Edwards, D.**

**Edwards, D.** *Presentation*. Schema Therapy Training Course Part 1. Professional Training for Psychologists. Southern Sun Hotel Newlands, Cape Town. South Africa. 21 - 23 March 2015.

**Padmanabhanunni, A. and Edwards, D.** *Co-presented professional training workshop*. The use of a specialist CBT treatment protocol for PTSD. University of the Western Cape, Cape Town. South Africa. 3 - 4 September 2015.

**Fleischack, A., Macleod, C. and Bohmke, W.R.**

**Fleischack, A., Macleod, C. and Bohmke, W.R.** *Invited Presentation*. Counsellors' understandings of, and responses towards, intimate partner violence during pregnancy: A narrative-discursive approach. AKESO Clinic, Pietermaritzburg. South Africa. 3 June 2015.

**Macleod, C.**

**Macleod, C.** *Publication workshop*. International Society of Theory and Psychology conference. University of Coventry, Coventry. United Kingdom. 26 - 30 June 2015.

**Macleod, C.** *Invited Presentation*. 'Adolescent pregnancy': feminism and reproductive justice. Sociology Department, University of York, York. United Kingdom. 1 - 10 July 2015.

**Macleod, C.** *Invited Workshop*. Publish or perish? Psychology Department, University of KwaZulu-Natal, Pietermaritzburg. South Africa. 11 - 12 May 2015.

**Macleod, C.** *Invited Workshop*. Research as a social activity. Sociology Department, University of York, York. United Kingdom. 1 - 10 July 2015.

**Mavuso, J.M.J. and Du Toit, R.R.**

**Mavuso, J.M.J. and Du Toit, R.R.** *Invited Presentation*. Let's talk about sex and gender. Community Engaged Learning Symposium. Rhodes University, Grahamstown. South Africa. 4 - 6 May 2015.

**Mavuso, J.M.J., Chiweshe, M.T., Du Toit, R.R., Kalyanaraman, Y., Ndabula, Y., Glover, J.M. and Pilusa, M.E.K.**

**Mavuso, J.M.J., Chiweshe, M.T., Du Toit, R.R., Kalyanaraman, Y., Ndabula, Y., Glover, J.M. and Pilusa, M.E.K.** *Invited Presentations*. Gender, dating and relationships and peer relationships. Kingswood College, Grahamstown. South Africa. 21 April - 12 May 2015.

**Mavuso, J.M.J., Thacker, M., Chiweshe, M.T., Kalyanaraman, Y., Glover, J.M., Barker, K.E., Donaldson, N., Jearey-Graham, N., Murire, M.N., Macleod, C. and Reuvers, M.J.**

**Mavuso, J.M.J., Thacker, M., Chiweshe, M.T., Kalyanaraman, Y., Glover, J.M., Barker, K.E., Donaldson, N., Jearey-Graham, N., Murire, M.N., Macleod, C. and Reuvers, M.J.** *Invited Presentation*. Real women intervention. Diocesan School for Girls, Grahamstown. South Africa. 25 September 2015.

**Mavuso, J.M.J., Thacker, M., Chiweshe, M.T., Kalyanaraman, Y., Jearey-Graham, N., Donaldson, N. and Ndabula, Y.**

**Mavuso, J.M.J., Thacker, M., Chiweshe, M.T., Kalyanaraman, Y., Jearey-Graham, N., Donaldson, N. and Ndabula, Y.** Workshop for teachers. *Real women intervention*. Diocesan School for Girls, Grahamstown. South Africa. 5 October 2015.

**Morison, T.**

**Morison, T.** *Workshop*. Psychology Honours Qualitative Research Workshops on Narrative Enquiry. Rhodes University, Grahamstown. South Africa. 6 - 25 March 2015.

**Shuttleworth-Edwards, A.B.**

**Shuttleworth-Edwards, A.B.** Presenter. Neurocognitive Assessment in the South African Cross-cultural Context: Preliminary Normative Data and their Application. *Workshop presented under the auspices of the South African Clinical Neuropsychological Society (SACNA) at the 21st South African Psychology Conference of the Psychological Society of South Africa (PsySSA)*. Emperors Palace, Johannesburg. South Africa. 15 September 2015.

**Truter, S.**

**Truter, S.** Presenter. The Skull, Meninges and Blood Supply. *Workshop presented under the auspices of NeuropsychologySA*. Helderberg Clinic, Somerset West. South Africa. 30 January 2015.

**Truter, S.** Presenter. Understanding and Measuring Memory: A Workshop of Applied Neuropsychology. *Workshop presented under the auspices of Mindmuzik Media*. Erinvale Hotel, Somerset West. South African. 27 February 2015.

**Truter, S. and Shuttleworth-Edwards, A.B.**

**Truter, S. and Shuttleworth-Edwards, A.B.** Coordinators of a training and norming workshop by Dr Pat Jansen. Advances in Cross-Cultural Assessment: Testing Children using the NEPSY II. *NeuropsychologySA*. Wanderers Club, Johannesburg. South Africa. 23 November 2015.

**Truter, S. and Shuttleworth-Edwards, A.B.** Coordinators of a training and norming workshop presented by Dr Pat Jansen. Advances in Cross-Cultural Assessment: Testing Children using the NEPSY II. *NeuropsychologySA*. Maharani Hotel, Durban. South Africa. 25 November 2015.

**Truter, S. and Shuttleworth-Edwards, A.B.** Coordinators of a training and norming workshop presented by Dr Pat Jansen. Advances in Cross-Cultural Assessment: Testing Children using the NEPSY II. *NeuropsychologySA*. Garden Court, East London. South Africa. 30 November 2015.

**Truter, S. and Shuttleworth-Edwards, A.B.** Coordinators of a training and norming workshop presented by Dr Pat Jansen. Advances in Cross-Cultural Assessment: Testing Children using the NEPSY II. *NeuropsychologySA*. Lord Charles Hotel, Somerset West. South Africa. 30 November 2015.

## Distinguished Visitors

**Britten, L.**

**Ms L Britten.** Macquarie University, Sydney, Australia. She gave a presentation entitled *Footprints and mirrors: Reflecting on journeys forward by looking through the glass ceiling*. September 2015.

**Ratele, K.**

**Professor Kopano Ratele.** Professor and Co-Director in the Institute of Social and Health Sciences at the University of South Africa (UNISA).

He received the Social Change Award, and presented a public lecture entitled *Who needs African Psychology when we are happy with Psychology in Africa?* September 2015.

**Toerien, M.**

**Ms M Toerien.** University of York, York, United Kingdom. She facilitated a research methodology workshop for postgraduate students entitled *Analysing doctor-patient interaction: a hands-on workshop.* July 2015.

## International Visits

**Akhurst, J.E.**

**Akhurst, J.E.** British Psychological Society, London, United Kingdom. Presented workshop on *Peer Group Supervision.* 15 - 16 June 2015.

## Other Publications

**Edwards, D.**

**Edwards, D.** (2015) Self Pity/Victim: A Surrender Schema Mode. In: Parsonnet, L. and Hayes, C. (eds.). *Schema Therapy Bulletin.* Online: International Society of Schema Therapy.

**Edwards, D.** (2015) Embodied relational knowing and lifeworld-led care as core dimensions of authentic professional practice. [Review of the book *Caring and Well-being: A lifeworld approach* by Kathleen Galvin and Les Todres]. In: *Indo-Pacific Journal of Phenomenology.*

**Marx, J. and Donaldson, N.**

**Marx, J. and Donaldson, N.** (2015) *Feminism and Psychology: Virtual Special Issue* [http://fap.sagepub.com/site/vsi/Constructing\\_Sexualities.xhtml](http://fap.sagepub.com/site/vsi/Constructing_Sexualities.xhtml). This special issue, entitled *Constructing Sexualities*, was edited and with an introductory editorial/article by Jacqueline Marx and Natalie Donaldson. The article is listed under peer-reviewed, subsidy-bearing outputs below.

**Morison, T.**

**Morison, T.** (2015) 'Non-conventional' families. In: *HSRC Review.* Pretoria: HSRC Press.

**Morison, T., Moolman, B. and Reddy, V.** (2015) Beyond the Clinic Walls: Making Sexual and Reproductive Rights Real for Marginalised Groups. In: *Sexual and Reproductive Health Rights: Barriers and boundaries.* South Africa: AIDS Foundation of South Africa.

**Morison, T.** (2015) What gay fathers can teach us about feminism and parenthood. In: *The Conversation.* South Africa: The Conversation.

**Morison, T. and Lynch, I.**

**Morison, T., Lynch, I. and Reddy, V.** (2015) All in the Family: Fathers and family diversity in South Africa. In: *HSRC Review.* Pretoria: HSRC Press.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Akhurst, J.E.**

**Akhurst, J.E.** and Elwell, C. (2015) 'Viewing ethics in a new light': Students' reactions to an under-emphasised yet important component of CHIP. *History and Philosophy of Psychology.* 16 (1). p.41-52.

**Dawson, D. and Akhurst, J.E.** (2015) 'I wouldn't dream of ending with a client in the way he did to me': An exploration of supervisees' experience of an unplanned ending to the supervisory relationship. *Counselling and Psychotherapy Research: Linking Research with Practice.* 15 (1). p.21-30.

**Saville Young, L. and Jearey-Graham, N.**

**Saville Young, L. and Jearey-Graham, N.** (2015) "They're gonna come and corrupt our children": A psychosocial reading of South African xenophobia. *Psychoanalysis, Culture & Society.* 20 (4). p.395-413.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Edwards, D.**

**Padmanabhanunni, A. and Edwards, D.** (2015) A Case Study of Social Cognitive Treatment of PTSD in a South African Rape Survivor: The

Central Role of Case Formulation. *Journal of Child Sexual Abuse.* 24. p.174-194.

**Padmanabhanunni, A. and Edwards, D.** (2015) Rape Survivors' Experiences of the Silent Protest: Implications for Promoting Healing and Resilience. *Qualitative Health Research.* DOI: 10.1177/10497323155732012015.

**Guilfoyle, M.**

**Guilfoyle, M.** (2015) Therapy and the aesthetics of the self. *British Journal of Guidance and Counselling.* DOI: 10.1080/03069885.2014.1002075.

**Jearey-Graham, N. and Macleod, C.**

**Jearey-Graham, N. and Macleod, C.** (2015) A discourse of disconnect: Young people from the Eastern Cape talk about the failure of adult communications to provide habitable sexual subject positions. *Perspectives in Education.* 33 (2). p.11-29.

**Kelland, L. and Macleod, C.**

**Kelland, L. and Macleod C.** (2015) When is it legitimate to use images in moral arguments? The use of foetal imagery in anti-abortion campaigns as an exemplar of an illegitimate instance of a legitimate practice. *Philosophy and Social Criticism.* 41 (2). p.179-195.

**Macleod, C.**

**Shefer, T. and Macleod, C.** (2015) Life Orientation sexuality education in South Africa: Gendered norms, justice and transformation. *Perspectives in Education.* 33 (2). p.1-10.

**Macleod, C.** (2015) Public reproductive health and 'unintended' pregnancies: introducing the construct 'supportability'. *Journal of Public Health.* DOI: 10.1093/pubmed/fdv123.1-8.

**Shefer, T., Kruger, L.M., Macleod, C., Baxen, J. and Vincent, L.** (2015) 'A huge monster that should be feared and not done': Lessons learned in sexuality education classes in South Africa. *African Safety Promotion - A Journal of Injury and Violence Prevention.* 13 (1). p.71-87.

**Feltham-King, T. and Macleod, C.** (2015) Gender, abortion and substantive representation in the South African newsprint media. *Women's Studies International Forum.* 51. p.10-18.

**Macleod, C. and Howell, S.** (2015) Public foetal images and the regulation of middle-class pregnancy in the online media: a view from South Africa. *Culture, Health and Sexuality.* 17 (10). p.1207-1220.

**Callaghan, J., Andenaes, A. and Macleod, C.** (2015) Deconstructing Developmental Psychology 20 years on: Reflections, implications and empirical work. *Feminism and Psychology.* 25 (3). p.255-265.

**Macleod, C. and Jearey-Graham, N.**

**Macleod, C. and Jearey-Graham, N.** (2015) "Peer Pressure" and "Peer Normalization": Discursive Resources that Justify Gendered Youth Sexualities. *Sexuality Research and Social Policy.* DOI: 10.1007/s13178-015-0207-8.

**Macleod, C., Moodley, D. and Saville Young, L.**

**Macleod, C., Moodley, D. and Saville Young, L.** (2015) Sexual socialisation in Life Orientation manuals versus popular music: Responsibilisation versus pleasure, tension and complexity. *Perspectives in Education.* 33 (2). p.90-107.

**Marx, J. and Donaldson, N.**

**Marx, J. and Donaldson, N.** (2015) Constructing sexualities: A critical overview of articles published in *Feminism & Psychology.* *Feminism and Psychology.* DOI: 10.1177/0959353515572704.

**Morison, T.**

**Morison, T., Gibson, A.F., Wigginton, B. and Crabb, S.** (2015) Online Research Methods in Psychology: Methodological Opportunities for Critical Qualitative Research. *Qualitative Research in Psychology.* 12. p.223-232.

**Morison, T., Macleod, C. and Lynch, I.**

**Morison, T., Macleod, C., Lynch, I., Mijas, M. and Shivakumar, S.T.** (2015) Stigma Resistance in Online Childfree Communities: The Limitations of Choice Rhetoric. *Psychology of Women Quarterly.* DOI: 10.1177/0361684315603657.

**Pinto Sales De Freitas Matoso, P.**

**Pinto Sales De Freitas Matoso, P.** (2015) Book Review - The Politics of Pleasure in Sexuality Education: Pleasure Bond: Louisa Allen, Mary Lou Rasmussen and Mary Quinlivan (Eds), Routledge/Routledge Research in Education, 2014, 204 pages, ISBN: 978-0-415-81226. *Perspectives in Education.* 33 (2). p.113-117.

**Shuttleworth-Edwards, A.B.**

**Alexander, D.G., Shuttleworth-Edwards, A.B., Kidd, M. and Malcolm,**

C.M. (2015) Mild traumatic brain injuries in early adolescent rugby players: Long-term neurocognitive and academic outcomes. *Brain Injury*, 29 (9). p.1113-1125.

## Peer-reviewed Proceedings

**Akhurst, J.E.**

Freeman, E. and Akhurst, J.E. Rethinking notions of therapeutic landscapes: A case study exploring perceptions of a wild place experience. *5th and 6th International Adventure Therapy Conference*. Czech Republic. September 2012.

**Oosthuizen, J. and Young, C.**

Oosthuizen, J. and Young, C. How students' relationships with their cellphones inform their experiences of socialising online and offline. *African Cyber Citizenship Conference 2015*. Boardwalk, Port Elizabeth. South Africa. November 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Akhurst, J.E.**

Akhurst, J.E., Lovell, J. and Kagan, C. Art, innovation and being true to our voices. *14th European Congress of Psychology*. University of Milano, Bicocca, Milan. Italy. July 2015.

Van Der Riet, M. and Akhurst, J.E. Developmental Work Research as health intervention research. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

Akhurst, J.E. and Lawson, S. Specialist workforce development through mentoring: Comparing collaborative programme evaluation using action research and realist evaluation. *9th Biennial International Society of Critical Health Psychology conference*. Rhodes University, Grahamstown. South Africa. July 2015.

Kagan, C. and Akhurst, J.E. I Now See the World Differently: What Can We Learn from Participatory Arts Projects. *14th European Congress of Psychology*. University of Milano: Bicocca, Milan. Italy. July 2015.

Lovell, J. and Akhurst, J.E. Whose PARTY is this? The dilemmas of a participatory action research process of evaluating a community cooperative. *9th Action Learning Action Research Association (ALARA) and 13th Participatory Action Research World Congress*. St Georges Conference Centre, Pretoria. South Africa. November 2015.

Akhurst, J.E. and Roerhle, B. Education in Community Psychology in Europe; Report and Outline of European ideas related to basic Competencies. *Education in Community Psychology Association conference: 'Strengthening community psychology in Europe'*. ISPA University Institute, Lisbon. Portugal. November 2015.

**Barker, K.E. and Macleod, C.**

Barker, K.E. and Macleod, C. Reconsidering research ethics in ethnographic research: Bearing witness to 'irreparable harm'. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

Barker, K.E. and Macleod, C. 'Victim' or 'survivor'? Language, identity and ethics revisited. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Bomela, Y.F., Feltham-King, T.J. and Macleod, C.**

Bomela, Y.F., Feltham-King, T.J. and Macleod, C. Negotiating access to the problematised subject. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Chiweshe, M.T. and Macleod, C.**

Chiweshe, M.T. and Macleod, C. A narrative-discursive analysis of abortion decision making in Zimbabwe. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Chiweshe, M.T., Mavuso, J.M.J. and Macleod, C.**

Chiweshe, M.T., Mavuso, J.M.J. and Macleod, C. Justifying the decision to terminate pregnancies: Comparisons of women's narratives from South Africa and Zimbabwe. *7th African Population Conference (APC) of the Union for African Population Studies (UAPS)*. St Georges



World-renowned community psychologist, Professor Caterina Arcidiacono (second from the left) with her team of counselling psychology interns at the International Congress on Community Psychology (ICCP), held at the Durban ICC on 27-30 May. The interns are currently doing their second year of their Counselling Psychology training in the Rhodes University Counselling Centre, and their attendance at the ICCP was in part supported by the Research Office. From left: intern psychologist Carl Wurz, Professor Caterina Arcidiacono, intern psychologists Elretha Bartlett, Abigail Schwartz and Siphso Dlamini.

Photo: Department of Psychology

Hotel and Conference Venue, Pretoria. South Africa. December 2015.

**Donaldson, N.**

Donaldson, N. Transforming higher education: Thoughts on looking ahead. *Teaching and Learning Showcase: Scholarly Teaching and Learning in the Context of Transforming Higher Education*. Rhodes University, Grahamstown. South Africa. November 2015.

Donaldson, N. In a time of transformation, we cannot afford to be neutral. *CHERTL: Curriculum Conversations*. Rhodes University, Grahamstown. South Africa. May 2015.

**Du Toit, R.R.**

Du Toit, R.R. How can conversation analysis contribute to 'doing' critical work? Extending the methodological conversation. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Feltham-King, T.J.**

Feltham-King, T.J. The right to buy antenatal healthcare. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Fleischack, A., Macleod, C. and Bohmke, W.R.**

Fleischack, A., Macleod, C. and Bohmke, W.R. Counsellors' understandings of, and responses towards, intimate partner violence during pregnancy: A narrative-discursive approach. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Jearey-Graham, N. and Macleod, C.**

Jearey-Graham, N. and Macleod, C. Young people's use of 'peer pressure/normalization' as discursive resources to justify gendered youth sexualities: Implications for Life Orientation sexuality education programmes. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Lynch, I.**

Lynch, I. South African lesbian and bisexual women's experiences of violence: Implications for an HIV response. *3rd International Association for the Social Sciences and Humanities in HIV (ASSHH) Conference*. Stellenbosch University, Stellenbosch. South Africa. July 2015.

**Lynch, I., Macleod, C., Morison, T. and Du Toit, R.R.**

Lynch, I., Mijas, M., Macleod, C., Morison, T., Du Toit, R.R. and Shivakumar, S.T. Knowledge production about voluntary childlessness as a family form: A systematic review of trends. *9th Biennial International Society for Critical Health Psychology (ISCHP) Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Macleod, C.**

Macleod, C. How do we insert feminist theory into the juggernaut of psychologised reproductive health literature? *International Society of*

*Theory and Psychology conference*. University of Coventry, Coventry, United Kingdom. June 2015.

**Macleod, C., Chiweshe, M.T. and Mavuso, J.M.J.**

**Macleod, C., Chiweshe, M.T. and Mavuso, J.M.J.** Health Psychology and the framing of abortion in Africa: A critical review of the literature. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Marx, J.**

**Marx, J.** Queer identity politics: What's in a name? Strength in Unity, *21st Annual South African Psychology Congress*. Emperors Palace, Kempton Park. South Africa. September 2015.

**Marx, J. and Macleod, C.**

**Marx, J. and Macleod, C.** The politics of erasure: Thinking critically about anonymity and confidentiality in ethnographic research. *9th International Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Marx, J. and Macleod, C.** Race and gender politics in cross-dressing, dressing-up, and drag. *9th International Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Mavuso, J.M.J. and Macleod, C.**

**Mavuso, J.M.J. and Macleod, C.** Women's micro-narratives of the process of abortion decision-making: Justifying the decision to have an abortion. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Morison, T.**

**Morison, T. and Rule, C.** 'You have to keep reproducing success': South African student's constructions of success and agency in Higher Education. *World Social Science Forum*. International Conference Centre (ICC), Durban. South Africa. September 2015.

**Morison, T.** Beyond the clinic walls: Making sexual and reproductive rights real for marginalised groups. *South African AIDS Conference*. International Convention Centre (ICC), Durban. South Africa. June 2015.

**Morison, T.** Gay men and fatherhood in South Africa: A discursive study. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Murire, M.N. and Macleod, C.**

**Murire, M.N. and Macleod, C.** Exploring the emancipatory potential of nursing practice in relation to sexuality: A systematic literature review of nursing research 2009-2014. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Ngqangweni, H. and Macleod, C.**

**Ngqangweni, H. and Macleod, C.** The intersection of culture and gender in constructions of 'ukuzila' (spousal mourning) among AmaXhosa in the Eastern Cape. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Pinto Sales De Freitas Matoso, P. and Macleod, C.**

**Pinto Sales De Freitas Matoso, P. and Macleod, C.** Precocious little monsters and the birth of puberty science: Tracing early puberty as a health matter. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Saville Young, L. and Berry, J.**

**Saville Young, L. and Berry, J.** Caring for a child with disabilities: A psychosocial analysis. *9th Biennial International Society of Critical Health Psychology (ISCHP) Conference*. Rhodes University, Grahamstown. South Africa. July 2015.

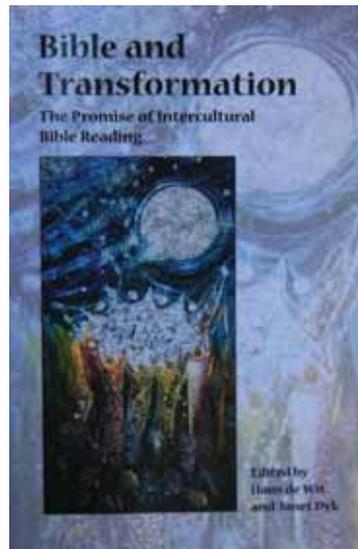
**Saville Young, L. and Berry, J.** A psychosocial analysis of maternal subjectivity in the context of infant disability. *Gauteng Association for Infant Mental Health Conference*. Ububele, Johannesburg. South Africa. October 2015.

**Shuttleworth-Edwards, A.B.**

Alexander, D.G., **Shuttleworth-Edwards, A.B.**, Kidd, M. and Malcolm, C.M. Mild traumatic brain injuries in early adolescent rugby players: Long-term neurocognitive and academic outcomes. *39th Annual Williamsburg Conference - Brain Injury Rehabilitation: Practical Solutions to Real World Problems*. Double Tree Hilton Hotel, Williamsburg, Virginia. USA. April 2015.

**Wilbraham, L.**

**Wilbraham, L.** Condoms in pockets and HIV-free certificates: Mother-daughter communication about sex and risk in a time of Aids epidemic



Kim Barker published a chapter in the book *Bible and Transformation: The Promise of Intercultural Bible Reading*.  
Photo: Tarryn Gillitt

in South Africa. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Young, C.**

**Young, C. and Strelitz, L.** Exploring patterns of Facebook usage, social capital, loneliness and well-being among a diverse South African student sample. *9th Biennial International Society of Critical Health Psychology (ISCHP) conference*. Rhodes University, Grahamstown. South Africa. July 2015.

**Young, C.** The professional identity of counselling psychologists: Lessons from around the world. *2nd Australian Psychological Society's College of Counselling Psychologists Conference*. Melbourne, Australia. February 2015.

# RHODES BUSINESS SCHOOL

The school continues to make good progress in the implementation of its strategic plan as it works towards ensuring that the Association of Masters of Business Administration (MBAs) (AMBA) re-accreditation process in 2017 is achieved.



Advocate Thuli Madonsela was the speaker at the inaugural Archbishop Thabo Makgoba Development Trust annual lecture. Pictured here (from left to right) is Director of the Rhodes Business School Professor Owen Skae, Archbishop Thabo Makgoba, Archbishop Makgoba's mother-in-law Mrs Manona, Public Protector Advocate Thuli Madonsela, and Rhodes University Vice-Chancellor Dr Sizwe Mabizela.

*Photo: Rhodes University Business School*

## Postgraduates / Graduations

We were delighted to achieve a record graduation of twenty-one (21) MBA graduates, two (2) graduating with distinction, namely Dr Chukwuka Onaga and Ms Geraldine Simak. The fellowship award recipient was Mr Ludwe Sityoshwana, virtually a unanimous choice by his peers.

Whilst the number of Postgraduate Diploma in Enterprise Management (PDEM) numbers were down from 2014, we are pleased to report a one hundred percent (100%) pass rate with twenty-six (26) graduates. Joshua Gibbon, Christine Kariuki, Lynett Muvembi, Brendon Smith, Leon Soko and Morgan Wedderburn-Maxwell graduated with distinction.

## Distinguished Visitors / International Visits

The highlight of the year was the inaugural Archbishop Thabo Makgoba Development Trust (ATMDT) Annual Lecture on Values Based Leadership.

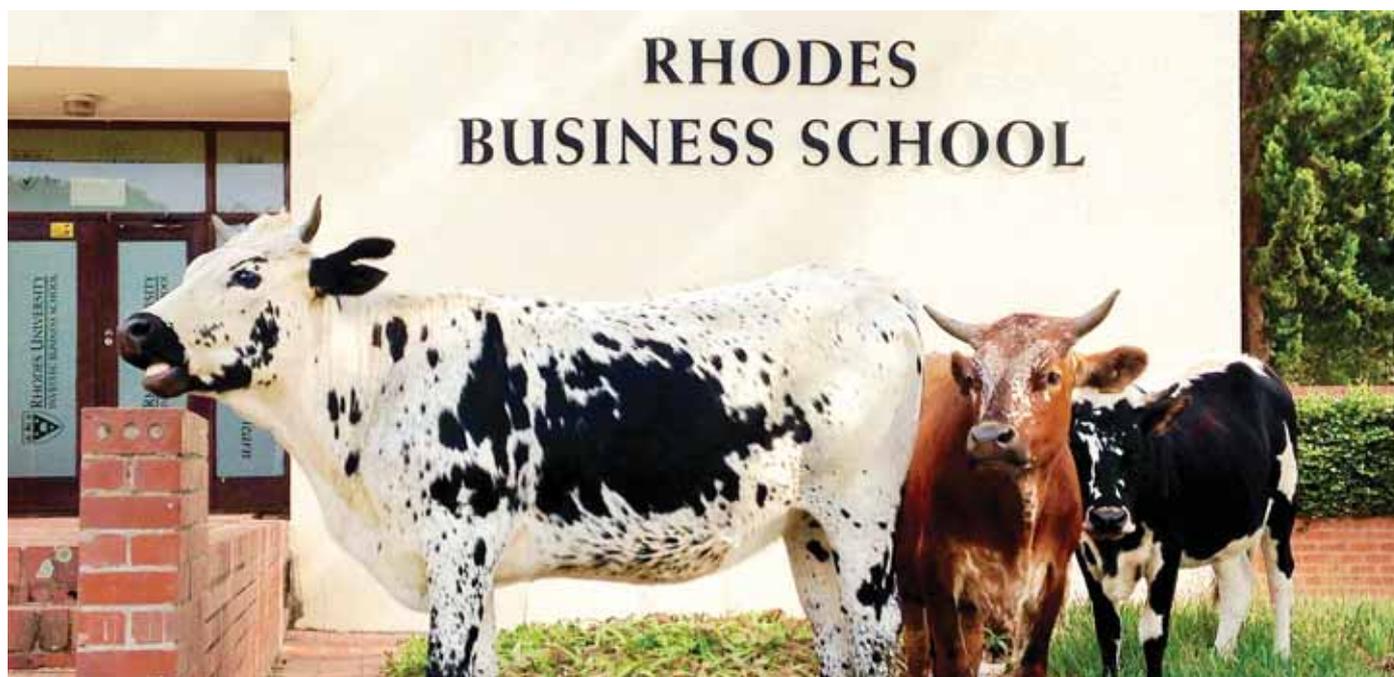
The ATMDT states as its objectives *"In the face of global inequality, poverty and discord, promoting human development and fostering common goals in society are key to the Trust's aims. These are pursued through the Trust's support of education, health and development of entrepreneurial skills, as well as mentoring and encouraging dialogues in communities"*.

We were unanimous in agreeing that the first speaker at the inaugural event was the Public Protector, Advocate Thuli Madonsela, who we acknowledged *"as a person who has been globally recognized as the custodian and steward of a Constitution born out of a society torn apart by a legalised system of prejudice and exclusiveness. In fulfilling her duties, she has shown remarkable courage, moral fortitude and an ethical mind-set that has proven to be the inspiration of millions of people in putting the interests of our fledgling democracy above all else. In short, no better person to give this inaugural lecture on the 25th September 2015"*.

## Significant Research Aligned Events

The School continues to encourage our graduates to convert their research mini-theses into conference papers or journal publications. Dr Chukwuka Onaga's was presented at the 9th International Business Conference and we hope that this will be a continuing trend.

**Professor Owen Skae**  
Director



## Distinguished Visitors

### Arnold, M.

**Dr M. Arnold.** Executive Director, South African Business Schools Association (SABSA), Johannesburg, South Africa. *The future of Management Education: Its contribution to a sustainable and just society.* May 2015.

### Madonsela, T.

**Advocate T. Madonsela.** Office of the Public Protector, Johannesburg, South Africa. *Archbishop Thabo Makgoba Development Trust Annual Lecture on Values Based Leadership.* September 2015.

### Maimane, M., Mills, G. and Herbst, J.

**M. Maimane, Dr G. Mills and Dr J. Herbst.** Pan Macmillan, Cape Town, South Africa. *How SA works and what we must do to make it work better.* July 2015.

### Ramalho, A.

**A. Ramalho.** King IV Project Lead, Institute of Directors in Southern Africa, Johannesburg, South Africa. *The future of Corporate Governance: A South African perspective.* September 2015.

### Whitfield, A.

**A. Whitfield MP.** Eastern Cape Deputy, Democratic Alliance, Port Elizabeth, South Africa. *South Africa's National Development Plan (NDP): Implications for a sustainable Eastern Cape.* February 2015.

## Other Publications

### Skae, F.O.

**Skae, F.O.** (2015) The Challenge of Success. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) We have a human problem. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Calling Air Traffic Control. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Going bust gradually...and then suddenly. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Flying at supersonic speed. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Great leaders make hard choices. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Goodbye yesterday, hello tomorrow. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Macrame and Mr Botha. In: Penfold, G. (ed.). *Leadership.*

The Rhodes Business School.

Photo: Paul Greenway/3pphotography

Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) The house that Jack built. In: Penfold, G. (ed.). *Leadership.* Cape Town: New Africa Publications Magazines Ltd.

**Skae, F.O.** (2015) Daunting, exciting times. In: Penfold, G. (ed.). *Leadership Magazine.* Cape Town: New Africa Publications Magazines Ltd.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Pearse, N.J.

Peterlin, J., **Pearse, N.J.** and Dimovski, V. (2015) Strategic Decision Making for Organizational Sustainability: The Implications of Servant Leadership and Sustainable Leadership Approaches. *Economic and business review.* 17 (3). p.273-290.

## Peer-reviewed Proceedings

### Staude, G.E.

**Staude, G.E.** Coca-Cola Sabco - A Case Study in Distribution to the "Main Market" in South Africa. *1996 Multicultural Marketing Conference.* Virginia Beach, Virginia. United States of America. May 1996.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

### Pearse, N.J. and Onaga, C.M.

**Pearse, N.J. and Onaga, C.M.** The impact of job redesign on employee job outcomes: The case of the implementation of a private-public partnership model at a hospital. *9th International Business Conference.* Zambezi Sun Hotel, Livingstone. Zambia. September 2015.

# LANGUAGES AND LITERATURE

The School of Languages and Literatures is a large department made of six (6) Sections: African Languages, Afrikaans and Netherlandic, Chinese, Classical, French and German Studies.

## Introduction

The 2015 academic year was a very remarkable year as staff members within the School engaged in various research activities, as highlighted in this report, at both national and international levels. Staff members within the School made a fruitful contribution to the research outputs during the year. Books, peer reviewed papers and book chapters were published during the year.

Dr Arthur Mukenge, for example, published an interesting research in the field of Francophone African literature, and the book (titled: *“Les deux faces de la colonisation. Saarbrücken-Germany: Editions Universitaires Européennes. ISBN: 9783841674456”*) is a big contribution to Francophone African literature after so many years of research in the field of colonial literature in French-speaking countries in Africa.

Dr Pamela Maseko and Professor Jeff Opland co-edited a book on African literature written in isiXhosa during the colonial era, and Dr D Nkomo co-edited a book in the field of lexicography.

Three (3) PhD students graduated, and staff members from the School were hosted by various institutions, locally and internationally.

## Postgraduates / Graduations

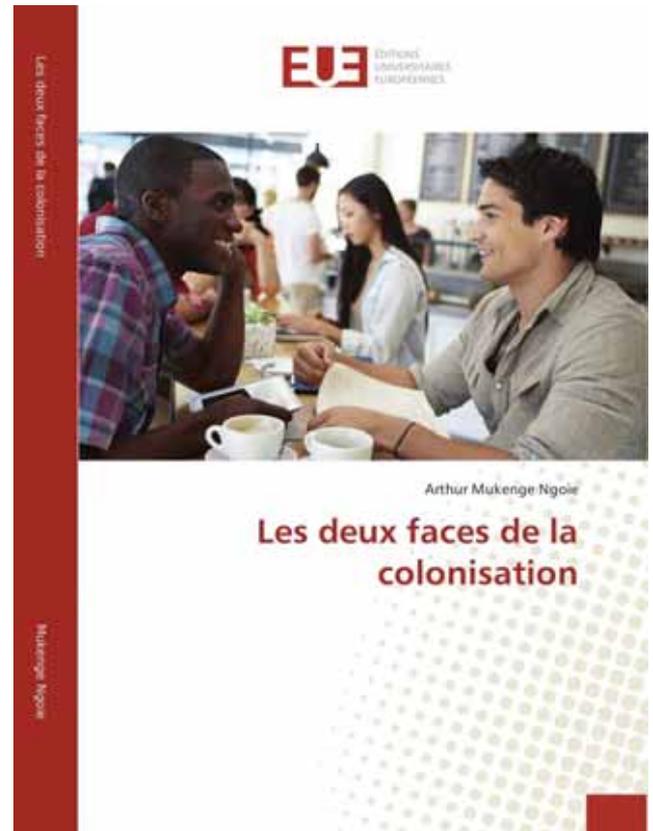
Undine Weber's PhD was titled: *Wolfgang Koeppens Auseinandersetzung mit der Tradition: Aspekte der Intertextualität in der so genannten Nachkriegs-Trilogie. (Wolfgang Koeppen and Tradition: Aspects of Intertextuality in the so-called Post-War Trilogy)*. Undine Weber received her PhD after years of intense research and administration, as Head of the German Studies Section.

Haroun Maalim, supervised by Professor Russel Kaschula and co-supervised by Dr Dion Nkomo, was awarded his PhD for his thesis on *“Exploring the relationship between an “English-only” language-in-education policy and bilingual practices in secondary schools in Zanzibar”*.

Godfrey Mona's PhD thesis was titled, *“A century of isiXhosa written poetry and the ideological contest in South Africa”*. He was supervised by Professor Russel Kaschula.

## Distinguished Visitors / International Visits

The School of Languages and Literatures hosted Professor Jeff Opland who worked with Dr Pamela Maseko on a book series. Two (2) publications have been produced so far by UKZN Press, and the collaboration continues.



Dr Arthur Mukenge's book *Les deux faces de la colonisation* ("The two faces of colonisation"), published in 2015.  
Photo: Dr Arthur Mukenge

In the meantime, **Professor Russell Kaschula** was invited by the National Research Foundation (NRF) in Pretoria to chair the NRF Linguistics, Literature, Language rating Panel. Professor Russell Kaschula was hosted as keynote-speaker by the University of South Carolina (United States of America), by the British Council Going Global 2015 Conference (London) and by the Grolier Club Conference in New York.

Dr Dion Nkomo was a guest speaker at Lupane State University in Bulawayo. The conference was about the language policy in Zimbabwe.

**Professor Patrice Kabeya Mwepu**

Head: School of Languages and Literatures

## African Languages

### Books/Chapters/Monographs

**Dlutu, B.A.**

**Kaschula, R.H. and Dlutu, B.A.** (2015) Reinventing the Oral Word and Returning It to the Community via Technauriture. In: Bidwell, N.J. and Wanschiers-Theophilus, H. (eds.). *At the Intersection of Indigenous and Traditional Knowledge and Technology Design*. Santa Rosa, California: Informing Science Press. p.377-389. ISBN: 9781932886993.

**Kaschula, R.H.**

**Kaschula, R.H. and Dlutu, B.A.** (2015) Reinventing the Oral Word and Returning It to the Community via Technauriture. In: Bidwell, N.J. and Wanschiers-Theophilus, H. (eds.). *At the Intersection of Indigenous and Traditional Knowledge and Technology Design*. Santa Rosa, California: Informing Science Press. p.377-389. ISBN: 9781932886993.

**Maseko, P. and Opland, J.**

**Maseko, P. and Opland, J.** (ed.) (2015) *D.L.P Yali-Manisi: Iimbali Zamanyange, Historical Poems*. Durban: UKZN Press. ISBN: 9781869142834.

**Nkomo, D.**

**Nkomo, D.** (2015) Back-Translation and Notes on Insumansumane Zika-Alice. In: Lindseth, J.A. (ed.). *Alice in a World of Wonderlands*. New Castle: Oak Knoll Press. p.449-452. ISBN: 9781384563360.

**Nkomo, D.** (2015) "The Mad Tea-Party" in Alice's Adventures in Ndebele. In: Lindseth, J.A. (ed.). *Alice in a World of Wonderlands*. New Castle: Oak Knoll Press. p.406-410. ISBN: 9781384563360.

**Opland, J. and Maseko, P.**

**Opland, J., Kuse, W. and Maseko, P.** (ed.) (2015) *William Wellington Gqoba: Isizwe Esinembali Xhosa Histories and Poetry (1873 - 1888)*. Durban: UKZN Press. ISBN: 9781869142827.

### Concerts, Exhibitions, Performances, Workshops, Events

**Nkomo, D.**

**Nkomo, D.** Panelist. Protection of Minority Rights with Focus on African Politics, Languages and Cultures. *Africa Week Seminar Series*. Bulawayo Agenda, Bulawayo. Zimbabwe. 6 - 27 May 2015.

### Distinguished Visitors

**Kaschula, R.H.**

**R.H. Kaschula.** SAFM, Johannesburg, South Africa. *Interviewed live by Rowena Baird on SAFM's morning show*. January 2015.

**R.H. Kaschula.** Radio 702, Johannesburg, South Africa. *Interviewed on Radio 702's Redi Tlhabi show*. September 2015.

**R.H. Kaschula.** NRF, Pretoria, South Africa. *Chair person of the NRF Linguistics, Literature, Language rating panel*. January 2015.

### International Visits

**Kaschula, R.H.**

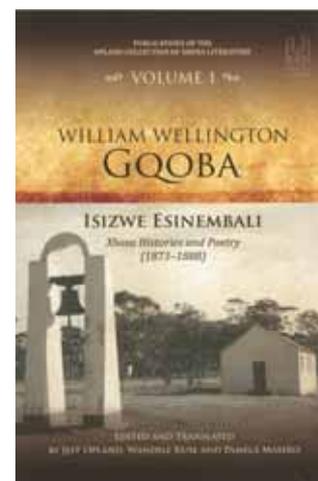
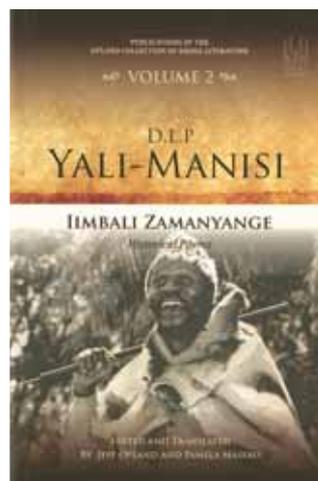
**Kaschula, R.H.** British Council Going Global 2015 Conference, London, United Kingdom. *Invited Speaker: English as Medium of Instruction: An African perspective*. 5 - 31 October 2015.

**Kaschula, R.H.** University of South Carolina, USA, South Carolina, USA. *Presented a guest lecture: University of South Carolina, United States of America Malumalele Burning: Language Rights in South Africa. Multilingualism in Higher Education in South Africa*. 1 January 2015.

**Kaschula, R.H.** Grolier Club Conference on Lewis Carroll Alice in a World of Wonderlands, New York, United States of America. *Keynote Address: Alice in Wonderland: Translating to read across Africa*. 7 - 8 October 2015.

**Nkomo, D.**

**Nkomo, D.** Lupane State University, Bulawayo, Zimbabwe. *Research on Zimbabwe's new language policy*. 2 - 28 May 2015.



Publications of the Opland Collection of Xhosa Literature series, *D.L.P Yali-Manisi: Iimbali Zamanyange, Historical Poems*, edited by Jeff Opland and Pamela Maseko, and *William Wellington Gqoba: Isizwe Esinembali Xhosa Histories and Poetry (1873 - 1888)*, edited by Jeff Opland, Wandile Kuse, and Pamela Maseko. The books were published by UKZN Press in 2015.

Photo: Tarryn Gillitt

### Other Publications

**Docrat, Z. and Kaschula, R.H.**

**Docrat, Z. and Kaschula, R.H.** (2015). In: Docrat, Z. and Kaschula, R.H. (eds.). *Strategy for multilingual success*. Johannesburg: Mail & Guardian print newspaper.

**Kaschula, R.H.**

**Kaschula, R.H.** (2015). In: Kaschula, R.H. (ed.). *Reclaiming our languages*. South Africa: City Press Newspaper.

**Kaschula, R.H.** (2015). In: Kaschula, R.H. (ed.). *African languages must take centre-stage in the continent's universities*. South Africa: The Conversation.

**Kaschula, R.H.** (2015). In: Kaschula, R.H., Heugh, K., Maseko, P., Nosilela, B., Mbude-Shale, N. and Hendricks, M. (eds.). *Teaching Mandarin in schools is another slap in the face for African languages*. South Africa: The Conversation.

**Nkomo, D.**

**Nkomo, D.** (2015) Insumansumane Zika-Alice (Ndebele translation of Lewis Carroll's Alice's Adventures in Wonderland). In: *Translation*. Laos: Evertype.

### Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Nkomo, D.**

**Nkomo, D.** (2015) Integrating dictionary pedagogy in the outer texts of school dictionaries: The case of the Oxford Bilingual School Dictionary. *Lexicography ASIALEX*. 2 (1). p.71-99.

### Peer Reviewed Subsidy-Earning Journal Research Publications

**Docrat, Z. and Kaschula, R.H.**

**Docrat, Z. and Kaschula, R.H.** (2015) 'Meaningful engagement': Towards a language rights paradigm for effective language policy implementation. *South African journal of African languages/Suid-Afrikaanse tydskrif vir Afrikatale*. 35 (1). p.1-9.

**Jadezweni, M.**

**Jadezweni, M.** (2015) Beyond Dudlu Ntombazana! - The Voice of S.E.K. Mqhayi. *Southern African Journal for Folklore Studies*. 25 (1). p.97-113.

**Maalim, H.A.**

**Maalim, H.A.** (2015) The Replacement of Swahili Medium of Instruction

by English from Grade 5 in Zanzibar: from Complementary to Contradictory. *Nordic journal of African studies*. 24 (1). p.45-62.

**Mona, G.V.**

**Mona, G.V.** (2015) The Interface Between The Oral and Written: An Interdisciplinary Analysis of Selected Poems by Mqhayi and Jolobe. *Southern African Journal for Folklore Studies*. 25 (1). p.58-72.

**Nkomo, D.**

**Nkomo, D.** (2015) An African User-Perspective on English Children's and School Dictionaries. *International Journal of Lexicography*. 2015. p.1-24.

**Oosthuysen, J.C.**

**Oosthuysen, J.C.** (2015) Extricating the description of the grammar of isiXhosa from a Eurocentric approach. *South African journal of African languages/Suid-Afrikaanse tydskrif vir Afrikatale*. 35 (1). p.83-92.

**Wolff, H.E.**

**Wolff, H.E.** (2015) Losing the Flavour? From Orature to Literature, And On Choices When Compiling Dictionaries For Unwritten African Languages. *Southern African Journal for Folklore Studies*. 25 (1). p.1-20.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Kaschula, R.H.**

**Kaschula, R.H.** Alice in Wonderland: Translating to read across Africa. *Grolier Club Conference on Lewis Carroll Alice in a World of Wonderlands*. Grolier Club Conference, New York. England. October 2015.

**Kaschula, R.H.** English as Medium of Instruction: An African perspective. *British Council Going Global 2015 Conference, London*. British Council, London. United Kingdom. August 2015.

**Kaschula, R.H.** Africanisation of the Higher Education Sector: The language question. *18th International ALASA Conference*. Cape Peninsula University of Technology (CPUT), Cape Town. South Africa. June 2015.

**Kaschula, R.H. and Docrat, Z.**

**Kaschula, R.H. and Docrat, Z.** The fissure between language and law revealed in the case of Lourens versus Speaker of the National Assembly and Others. *18th International ALASA Conference*. Cape Peninsula University of Technology (CPUT), Cape Town. South Africa. June 2015.

**Nkomo, D.**

**Nkomo, D.** Reflections on the Translation of Alice's Adventures in Wonderland into Ndebele: Can Alice Really Become African? *Conference Africa Nko: Africa in the World*. University Cheick Anta Diop, Dakar. Senegal. December 2015.

**Nkomo, D.** From common conversations around the Oxford Bilingual School Dictionary: IsiXhosa-English to constructive dictionary criticism. *20th International Conference of the African Association for Lexicography*. University of the KwaZulu-Natal, Durban. South Africa. July 2015.

**Nkomo, D.** Supporting Languages and Multilingualism through Lexicography and Technology. *Oxford Global Languages Symposium*. Oxford University, Oxford. United Kingdom. September 2015.

**Nkomo, D.** Sixteen Officially-recognised Languages: Is it the Dawn for linguistic Democracy in Zimbabwe? *International Conference of the African Languages Association of Southern Africa (ALASA)*. Cape Peninsula University of Technology (CPUT), Cape Town. South Africa. June 2015.

**Nkomo, D.** Reflections on talking dictionaries in Zimbabwe's indigenous languages: Can we really talk? *20th International Conference of the African Association for Lexicography*. University of the KwaZulu-Natal, Durban. South Africa. July 2015.

**Nkomo, D.** Integrating dictionary pedagogy in the outer texts of school dictionaries: The case of the Oxford Bilingual School Dictionary: IsiXhosa and English. *StellenLex Conference*. Stellenbosch University, Stellenbosch. South Africa. March 2015.

## Classics

### Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Malamis, D.**

**Malamis, D.** Epithetic Hymns in the Paris Magical Papyrus. *Classical Association of South Africa Biennial Conference*. University of the North West, Potchefstroom. RSA. July 2015.

## French Studies

### Books/Chapters/Monographs

**Mukenge, A.N.**

**Mukenge, A.N.** (2015) *Les deux faces de la colonisation*. Saarbrücken-Germany : Editions Universitaires Européennes. ISBN: 9783841674456.

### Peer Reviewed Subsidy-Earning Journal Research Publications

**Mwepu, P.K.**

**Mwepu, P.K.** (2015) L'art et la guérison Des impératifs éthiques dans Jardin secret de Julien Kilanga Musinde. *Tydskrif vir letterkunde*. 52 (1). p.201-214.

**Mwepu, P.K.** (2015) Art and healing: ethical imperatives in Julien Kilanga Musinde's Jardin secret. *Tydskrif vir letterkunde*. 52 (1). p.265-278.

**Mwepu, P.K.** (2015) Entre vacuité et plénitude: Loin de mon père de Véronique Tadjou. *French Review*. 88 (4). p.33-46.

### Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Mukenge, A.N.**

**Mukenge, A.N.** (2015) L'enseignement de la littérature africaine dans les universités: pour quelle nécessité? *Journal of the African Literature Association*. 9 (1). p.73-85.

## German Studies

### Books/Chapters/Monographs

**Domingo, R.S.C.**

**Domingo, R.S.C.** (2015) Measuring the Unmeasurable: On the Objective Assessment of Subjective Learning. In: Witte, A. and Harden, T. (eds.). *Foreign Language Learning as Intercultural Experience: The Subjective Dimension*. Bern: Peter Lang. p.243-251. ISBN: 9783034318792.

**Weber, U.S.**

**Weber, U.S.** (2015) Can Studying a Foreign Language Build or Improve (Inter-)Cultural Competence? A Preliminary Case Study of Students' Subjective Impressions. In: Witte, A. and Harden, T. (eds.). *Foreign Language Learning as Intercultural Experience: The Subjective Dimension*. Bern: Peter Lang. p.231-241. ISBN: 9783034318792.

## SOCIOLOGY

The Department of Sociology continues to have one of the largest undergraduate and postgraduate programmes not only in the Faculty of Humanities but also at the entire university.

## Introduction

In 2015, it had around four hundred (400) students at first year level, two hundred (200) students at second year level and one hundred and twenty (120) students at third year level.

At second and third year levels, the department runs two (2) separate programmes, namely, General Sociology and Industrial and Economic Sociology. These two (2) programmes also exist at Honours, Masters and PhD levels.

During 2015, the department had close to forty (40) registered PhD students and approximately twenty-six (26) registered Masters students, with the PhD programme being the largest in the university. The Masters students were either registered in the two-year Masters by thesis programme or the one-year Masters by thesis/coursework programme.

## Postgraduates / Graduations

A significant portion of the work undertaken by academic staff in the department is Postgraduate supervision, particularly at Masters and PhD levels. Most of our Masters students are graduates of Rhodes University at both undergraduate and Honours levels, while most of our PhD students come to Rhodes after completing their Masters degree at another university, including many from Zimbabwe. Our Masters students are generally South African, and our PhD student profile is increasingly South African.

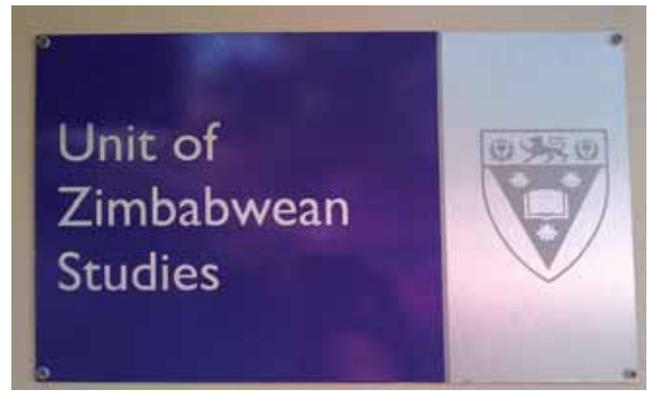
The department introduced the one-year Masters by thesis/coursework programme in 2014 and seven (7) students from this programme graduated in 2015, along with eight (8) Masters students in the full thesis programme. Additionally, two (2) PhD students graduated in 2015.

One of the PhD graduates (Dr Babalwa Magoqwana) is a lecturer in the department and the other graduate (Dr Sandra Bhatasara) lectures in the Department of Sociology at the University of Zimbabwe in Harare.

By the end of 2015, six (6) PhD students in our department had submitted theses for external examination.

## Distinguished Visitors / International Visits

Academic staff in the department have international linkages with scholars in Latin America, India and elsewhere. These linkages have led to the appointment of a number of international scholars as Visiting Professors attached to our department. These include Professor Alberto Bialakowsky (Argentina), Professor John Holloway (Mexico) and Professor Praveen Jha (India). They have all visited our department in recent years and their ongoing contribution to our academic programme is manifested in the significant number



ABOVE: The Unit of Zimbabwean Studies was established in 2015 and based at the Department of Sociology  
Photo: Professor Kirk Helliker



ABOVE: The late Professor Sam Moyo was a Visiting Professor in the Department of Sociology

RIGHT: The official launch poster for the Unit of Zimbabwean Studies  
Photo: Professor Kirk Helliker

of their publications listed in our 2015 report. Professor Sam Moyo was one of the department's Visiting Professors, and was a member of the Advisory Board of the Unit of Zimbabwean Studies. The Unit is headed by Professor Kirk Helliker. Professor Kirk Helliker collaborated for over ten years with Professor Moyo. Tragically, Professor Moyo died in a car accident in India in 2015.

Additionally, two (2) members of the department (Tarryn Alexander and Professor Kirk Helliker) visited the University of Puebla (Mexico) in March 2015, where Professor Holloway is located. During their visit, they presented a paper at a conference titled "*Conference on women, autonomism and the formation of the commons: Latin American and African experiences*".

Another member of staff, Professor Lucien van der Walt, visited Brazil in June 2015, where he presented a paper at the Federal Rural University (Rio de Janeiro). The conference was titled "*Anarchism: Insurgent practices and thought*".

## Significant Research Aligned Events

The most important new initiative in the department was the establishment of the Unit of Zimbabwean Studies. The unit was officially launched in May 2015 by the Vice-Chancellor Dr. Sizwe Mabizela. Besides the official launch, there was a series of events including a public talk by one of Zimbabwe's foremost public intellectuals (Professor Brian Raftopoulos). As well, Hope Masike (the "Princess of Mbira") came from Zimbabwe to give a concert. Her visit is related to an ethnomusicology dimension to the Unit's activities led by the unit's current Postdoctoral Fellow. The Director of the Unit undertook research in Zimbabwe on the land occupation movement in Shamva district which arose in the year 2000, and presented two (2) papers at the university based on this research.

Professor van der Walt was quite active in attending local conferences as well as publishing both academic work and more popular pieces, including in relation to the trade union movement.

Additionally, and very importantly, a number of our students presented papers at local conferences or published academic work, including Sandra Bhatasara, Leroy Maisiri, Lali Naidoo, Michael Kwet, Sandra Makwembere, Nomzamo Kheswa and Sian Byrne. In this regard, our department strongly encourages our Masters and PhD students to engage in such academic activities.

**Professor Kirk Helliker**

Head of Department

## Books/Chapters/Monographs

**Bialakowsky, A.L.**

dos Santos, T., Monge, D.C., Carrera, E.A.V., Valdivia, J.R., Tavares dos Santos, J.V., Coronado, J.A.P., **Bialakowsky, A.L.** and Martins, P.H. (2015) Reflexiones sobre el contexto social latinoamericano (2014-2015). In: Bialakowsky, A.L., Cathalifaud, M.A. and Martins, P.H. (eds.). *El Pensamiento Latinoamericano: Dialogos en Alas. Sociedad y Sociología*. Ciudad Autonoma de Buenos Aires: Teseo Editorial. p.45-60. ISBN: 9789877230567.

**Bialakowsky, A.L.** and Lusnich, C. (2015) Universidad y los movimientos sociales al intelecto colectivo. In: Nestor Horacio Correa, S.Y.L., Emiliozzi, S., Ferro, F., Romo, R.M. and Duarte, D. (eds.). *Desafios y dilemas de la universidad y la ciencia en America Latina y el caribe en el siglo XXI*. Argentina: Editorial Teseo. p.187-207. ISBN: 9789877230574.

**Bialakowsky, A.L.** (ed.) (2015) *El Pensamiento Latinoamericano: Dialogos en Alas. Sociedad y Sociología*. Ciudad Autonoma de Buenos Aires: Teseo Editorial. ISBN: 9789877230567.

**Gunnigle, P.**

Lamare, J.R., Farndale, E. and **Gunnigle, P.** (2015) Employment Relations and IHRM. In: Collings, D.G., Wood, G.T. and Caligiuri, P.M. (eds.). *The Routledge Companion to International Human Resource Management*. New York, USA: Routledge Global Institutions Series. p.99-120. ISBN: 9781315761282.

**Holloway, J.P.**

**Holloway, J.P.**, Matamoros, F. and Tischler, S. (2015) *Zapatismo: Reflexion teorica y subjetividades emergentes*. Buenos Aires: Herramienta. ISBN: 9789871505463.

**Holloway, J.P.** (2015) *Lire la Preiere Phase du Capital*. Paris: Libertalia. ISBN: 9782918059585.

**Holloway, J.P.** (2015) *Contra el Dinero*. Buenos Aires: Herramienta. ISBN: 9786074878967.

**Holloway, J.P.** (2015) Hegel, Filosofo de la Rebelion. In: Gunn, R. (ed.). *Lo que usted siempre quiso saber sobre Hegel y no se atrevio a preguntar*. Buenos Aires: Herramienta. p.9-27. ISBN: 9789871505449.

**Holloway, J.P.** (2015) *Das Kapital lesen: der erste Satz*. In: Reitter, K. (ed.). *Karl Marx: Philosoph der Befreiung oder Theoretiker des Kapitals - zur Kritik der neuen Marx-Lektüre*. Vienna: Mandelbaum Verlag. p.19-48. ISBN: 9783854766391.

**Jha, P.K.**

**Jha, P.K.** (2015) Labour conditions in rural India: Reflections on continuity and change. In: Oya, C. and Pontara, N. (eds.). *Rural Wage Employment in Developing Countries: Theory, Evidence, and Policy*. London: Routledge. p.205-229. ISBN: 9780415686495.

**Jha, P.K.** (2015) Volume 3: Labour Conditions in Contemporary India. In: Patnaik, P. (ed.). *ICSSR Research Surveys and Explorations: Economics Volume 1-3*. India: Oxford University Press. p.1200-1300. ISBN: 9780199458967.

**Klerck, G.**

**Klerck, G.** (2015) Sociology and international human resource management. In: Collings, D.G., Wood, G.T. and Caligiuri, P.M. (eds.).

*The Routledge Companion to International Human Resource Management*. New York, USA: Routledge Global Institutions Series. p.29-58. ISBN: 9781315761282.

**Matatu, S. and Magoqwana, B.**

**Matatu, S.** and **Magoqwana, B.** (2015) E-Government Implementation for Internal Efficiency: Perceptions and Experiences of Control at City of Cape Town, South Africa. In: Sodhi, I.S. (ed.). *Emerging Issues and Prospects in African E-Government*. USA: IGI Global. p.269-278. ISBN: 9781466662964.

**Moyo, S.**

**Moyo, S.**, Tsikata, D. and Diop, Y. (2015) Introduction: Africa's Diverse and Changing Land Questions. In: Moyo, S., Tsikata, D. and Diop, Y. (eds.). *Land in the Struggles for Citizenship in Africa: Le foncier dans les luttes pour la citoyennete en Afrique*. Dakar: CODESRIA National Working Group on Zimbabwe. p.1-33. ISBN: 9782869786363.

**Moyo, S.**, Tsikata, D. and Diop, Y. (ed.) (2015) *Land in the Struggles for Citizenship in Africa: Le foncier dans les luttes pour la citoyennete en Afrique*. Dakar: CODESRIA National Working Group on Zimbabwe. ISBN: 9782869786363.

**Van Der Walt, L.J.W.**

Schmidt, M. and **Van Der Walt, L.J.W.** (2015) Apresentando Chama Negra. In: Corrêa, F., Viana da Silva, R. and Soares da Silva, A. (eds.). *Teoria e História do Anarquismo*. Curitiba: Editora Prismas. p.63-103. ISBN: 9788568274378.

**Van Der Walt, L.J.W.** and Schmidt, M. (2015) Prefácio. In: Correa, F. (ed.). *Bandeira Negra: Rediscutindo o Anarquismo*. Curitiba: Editora Prismas. p.15-40. ISBN: 9788568274385.

## Concerts, Exhibitions, Performances, Workshops, Events

**Van Der Walt, L.J.W.**

**Van Der Walt, L.J.W.** Seminar input. Trade Union and Worker Ideologies, Historic and Global: Anarchism, Syndicalism and Labour. *Joint GLU (Global Labour University) (GLU)/ ENGAGE (Empowerment & Capacity Building Network for Global Trade Unionists & Labour Activists) Seminar*. University of the Witwatersrand, Johannesburg. South Africa. 20 November 2015.

**Van Der Walt, L.J.W.** Input at workshop. Revolution in Guinea-Bissau: Assessing Cabral and the PAIGC Experience. *Tokolologo seminar*. University of the Witwatersrand, Johannesburg. South Africa. 21 November 2015.

**Van Der Walt, L.J.W.** Input at workshop. A Radical Analysis of the Post-Colonial African Context. *Tokolologo seminar*. University of the Witwatersrand, Johannesburg. South Africa. 21 February 2015.

**Van Der Walt, L.J.W.** Input at workshop. Thomas Sankara and the Revolution of the Colonels. *Tokolologo seminar*. University of the Witwatersrand, Johannesburg. South Africa. 16 May 2015.

Ulrich, N. and **Van Der Walt, L.J.W.** Presentation. A Historical Perspective on the South African Labour Movement and the National Question. *Vuyisile Mini Winter School, Neil Aggett Labour Unit*. Rhodes University, Grahamstown. South Africa. 15 - 18 July 2015.

## Other Publications

Holloway, J.P.

Holloway, J.P. (2015) Interview: Dem Kapital ein "Fuck off" entgegenschleudern. In: *Jungle World (Julio 2015)*. online: jungle-world.com.

Holloway, J.P. (2015) Opinión: El pensamiento crítico frente a la hidra capitalista. In: *La Jornada 15 de May 15*. Mexico: DEMOS Media Development.

Holloway, J.P. (2015) Pensar la Esperanza, Pensar la Crisis. In: Sandoval, R. (ed.). *Pensar desde la Resistencia anticapitalista y la autonomía*. Mexico: CIESAS.

Holloway, J.P. (2015) Resistance Studies: A Note, a Hope. In: *Journal of Resistance Studies*. Sweden: Irene Publishing.

Van Der Walt, L.J.W.

Van Der Walt, L.J.W. (2015) From Living Wage to Working Class Counter-Power: Theory, Strategy and Struggle. In: Cottle, E. (ed.). *Bargaining Indicators 2015: A Collective Bargaining Omnibus*. Cape Town: Labour Research Services.

Van Der Walt, L.J.W. (2015) Self-Managed Class-Struggle Alternatives to Neo-liberalism, Nationalisation, Elections. In: Nkosi, M. and Pons-Vignon, N. (eds.). *Global Labour Column*. Johannesburg: Global Labour University.

Van Der Walt, L.J.W. and Sefalafala, T. (2015) Building a Mass Anarchist Movement: The Example of Spain's CNT. In: Sizovuka, T. (ed.). *Zabalaza: A Journal of Southern African Revolutionary Anarchism*. Johannesburg: Zabalaza Books.

Van Der Walt, L.J.W. (2015) From Living Wage to Working Class Counter-Power. In: Chiwota, E. (ed.). *South African Labour Bulletin*. Johannesburg: South African Labour Bulletin.

Van Der Walt, L.J.W. (2015) Imperial Wars, Imperialism and the Losers: A Critique of Certain 'Labour Aristocracy' Theories. In: Sizovuka, T. (ed.). *Zabalaza: A Journal of Southern African Revolutionary Anarchism*. Johannesburg: Zabalaza Books.

Van Der Walt, L.J.W. (2015) How Imperialism and Postcolonial Elites have Plundered Africa. In: Veerapan-Lewis, L. (ed.). *Tokolago*. Johannesburg: Zabalaza Books.

Van Der Walt, L.J.W. (2015) Bill Andrews and South Africa's Revolutionary Syndicalists. In: Veerapan-Lewis, L. (ed.). *Tokolago*. Johannesburg: Zabalaza Books.

Van Der Walt, L.J.W. and Hattingh, S. (2015) Nationality or Autonomy? Existential Crisis of the Kurdish in Turkey and Elsewhere. In: Mayekiso, M. (ed.). *Ndivhuwo: Journal for Intellectual Engagement*. South Africa: Ndivhuwo: Journal for Intellectual Engagement.

Van Der Walt, L.J.W. (2015) Beyond 'White Monopoly Capital': Who Owns South Africa? In: Chiwota, E. (ed.). *South African Labour Bulletin*. Johannesburg: South African Labour Bulletin.

Van Der Walt, L.J.W. and Byrne, S.D.

Van Der Walt, L.J.W., Byrne, S.D., McGregor, W. and Chinguwo, P. (2015) Why May Day Matters to Botswana: A History with Anarchist Roots. In: Makori, H. (ed.). *Pambazuka News*. Nairobi, Kenya: FAHUMA.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Bhatasara, S.

Bhatasara, S. (2015) Rethinking climate change research in Zimbabwe. *Journal of Environmental Studies and Sciences*. 2015. p.1-14.

Bialakowsky, A.L.

Bialakowsky, A.L. and Lusnich, C. (2015) Procesos laborales e intelecto colectivo, nuevos productores en el entorno latinoamericano del siglo XXI. *Controversias y Concurrencias Latinoamericanas*. 7 (12). p.41-60.

Bialakowsky, A.L. (2015) ALAS y el fluir de una praxis intelectual latinoamericana1. *Onteaiken*. 20 (2015). p.15-23.

Byrne, S.D. and Van Der Walt, L.J.W.

Byrne, S.D. and Van Der Walt, L.J.W. (2015) Worlds of Western Anarchism and Syndicalism: Class struggle, transnationalism, violence and anti-imperialism, 1870s-1940. *Canadian Journal of History*. 50 (1). p.98-123.

Jha, P.K. and Moyo, S.

Jha, P.K., Moyo, S. and Yeros, P. (2015) The Agrarian Question in the

21st Century. *Economic and Political Weekly*. 50 (37). p.35-41.

Kheswa, N.S.

Kheswa, N.S. (2015) A Review on the History of Commercial Farming in South Africa: Implications for Labour Legislation. *Ubuntu: Journal of Conflict Transformation*. 4 (1). p.37-54.

## Peer Reviewed Subsidy-Earning Journal Research Publications

Bhatasara, S.

Bhatasara, S. (2015) Debating sociology and climate change. *Journal of Integrative Environmental Sciences*. 12 (3). p.217-233.

Drewett, M.

Drewett, M. (2015) Book Review: *Sounding the Cape: Music, Identity and Politics in South Africa*. By Denis-Constant Martin. Somerset West: African Minds, 2013. 472 pp. ISBN: 978-1-920-48982-3 (pb), 978-1-920-67716-9 (ebook). *Popular Music*. 34 (2). p.334-336.

Gimenez Amoros, L.

Gimenez Amoros, L. (2015) Book Review: Music and Social Change in South Africa: Maskanda Past and Present. Kathryn Olsen. 2014. Philadelphia: Temple University Press. 10 tables, 18 figures, index, 222pp. *African Music: Journal of the International Library of African Music*. 10 (1). p.214-217.

Gimenez Amoros, L. (2015) Book Review: Taarab Music in Zanzibar in the Twentieth Century: A Story of 'Old is Gold' and Flying Spirit. Janet Topp Fargion. 2014. Surrey: Ashgate. 10 b & w figures, 1 table, index, 250pp. *African Music: Journal of the International Library of African Music*. 10 (1). p.211-214.

Gimenez Amoros, L. (2015) AZAWAN: Precolonial Musical Culture and Saharawi Nationalism in the Refugee Camps of the Hamada Desert in Algeria. *African Music: Journal of the International Library of African Music*. 10 (1). p.31-51.

Gunnigle, P.

Butler, P., Lavelle, J., Gunnigle, P. and O'Sullivan, M. (2015) Skating on thin ICE? A critical evaluation of a decade of research on the British Information and Consultation Regulations (2004). *Economic and Industrial Democracy*. 2015. p.1-8.

Gunnigle, P., Pulignano, V., Edwards, T., Belizon, M.J., Navrbjerg, S., Olsen, K.M. and Susaeta, L. (2015) Advancing understanding on industrial relations in multinational companies: Key research challenges and the INTREPID contribution. *Journal of Industrial Relations*. 57 (2). p.146-165.

Helliker, K.

Helliker, K. (2015) Aziz Choudry and Dip Kadoor (eds.). *NGOization: Complicity, Contradictions and Prospects*. London and New York: Zed Books, 2013. *Journal of Asian and African studies*. 50 (3). p.383-384.

Holloway, J.P.

Holloway, J.P. (2015) Read Capital: The First Sentence: Or, Capital Starts with Wealth, not with the Commodity. *Historical Materialism-Research in Critical Marxist Theory*. 23 (3). p.3-26.

Klerck, G.

Dibben, P., Klerck, G. and Wood, G. (2015) The ending of southern Africa's tripartite dream: the cases of South Africa, Namibia and Mozambique. *Business History*. 57 (3). p.461-483.

Makwembere, S.

Makwembere, S. (2015) Hallmarks of irresponsible and unresponsive governance: Internal xenophobic attacks in South Africa's municipalities. *Journal for Transdisciplinary Research in Southern Africa*. 11 (4). p.118-126.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

Alexander, T.L. and Helliker, K.

Alexander, T.L. and Helliker, K. Autonomist Feminism, Commoning and Land Occupations in Zimbabwe. *Conference on Women, Autonomism and the Formation of the Commons: Latin American and African Experiences*. University of Puebla, Mexico. March 2015.

Byrne, S.D.

Byrne, S.D. Red, Black and Gold: FOSATU, South African 'Workerism', 'Syndicalism' and the Nation. *Neil Aggett Labour Studies Seminar Series*. Rhodes University, Grahamstown. South Africa. September 2015.

Helliker, K. and Bhatasara, S.

Helliker, K. and Bhatasara, S. A Commoning Perspective on the Fast Track Land Occupations in Shamva District, Zimbabwe. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium*. Rhodes University, Grahamstown. South Africa. August 2015.

Kwet, M.F.

Kwet, M.F. Copyright, Education and the Struggle for a Digital Commons: South Africa and Beyond. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium*. Rhodes University, Grahamstown. South Africa. August 2015.

Magoqwana, B.

Mkhize, N., Magoqwana, B. and Mohoto, L. Critiquing Intellectualism: Towards Building an Intellectualising Political Culture. *Intellectuals and Popular Struggles. A Colloquium of Engaged Scholarship*. University of Cape Town, Cape Town. South Africa. September 2015.

Magoqwana, B. The Disconnected Local State: Reconnecting the Citizens in South African Metropolitan Municipalities. *World Social Science Forum*. Durban ICC, Durban. South Africa. September 2015.

Magoqwana, B. Researching the Local State in South Africa: The Challenges of 'disorder' for Sociological Research. *South African Sociological Association (SASA) Congress 2015*. University of Johannesburg, Johannesburg. South Africa. June 2015.

Maisiri, L.J.

Maisiri, L.J. Locating the Commons in the South African 'People's Power' Movement in the 1980s. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium*. Rhodes University, Grahamstown. South Africa. August 2015.

Naidoo, L.

Naidoo, L. Labour, Land and the Commons: Rethinking the Labour-Land Nexus in the South African Agrarian Sector. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium*. Rhodes University, Grahamstown. South Africa. August 2015.

Van Der Walt, L.J.W.

Van Der Walt, L.J.W. Classes, Commons, Collectivisation: Labour and the Left. *Class, Colonialism and the Commons: The Case of Southern Africa colloquium*. Rhodes University, Grahamstown. South Africa. August 2015.

Van Der Walt, L.J.W. and Ulrich, N. Red, Black and Gold: FOSATU, South African 'Workerism', 'Syndicalism' and the Nation. *Hidden Voices: The Unresolved National Question in Left Thinking workshop*. COSATU House, Johannesburg. South Africa. May 2015.

Van Der Walt, L.J.W. From the Periphery: Anarchism and Revolutionary Syndicalism in the Colonial and Post-Colonial World of the Twentieth Century. *Anarchism: Insurgent Practices and Thought conference*. Federal Rural University, Rio de Janeiro. Brazil. June 2015.



Professor Lucien van der Walt (LEFT), talking alongside Eddie Cottle from Labour Research Services in Cape Town (CENTRE) and Oupa Lehulere from Khanya College in Johannesburg (RIGHT) at the Global Labour University Alumni Summer School.  
Photo: Tandiwe Gross

# DEPARTMENT OF STATISTICS

Members of the Department of Statistics continued to pursue a wide range of research interests and activities during 2015.

## Introduction

Six (6) journal publications and two (2) peer-reviewed conference proceedings emanated from both theoretical and applied collaborative research in 2015.

- **Mr Amos Chinomona's** research in Sampling and Survey methods resulted in two (2) peer-reviewed journal publications;
- **Mr Jeremy Baxter's** research collaborations with the Department of Management resulted in one (1) peer-reviewed journal publication;
- **Professor Sarah Radloff's** research collaborations with the Departments of Economics, Environmental Science and Management resulted in one (1) peer-reviewed journal publication and two (2) peer-reviewed conference proceedings;
- **Dr Lizanne Raubenheimer's** research in Bayesian Estimation resulted in two (2) peer-reviewed journal publications.

Four (4) papers were presented by members of staff at two (2) international and two (2) national conferences. **Mr Amos Chinomona** presented one (1) paper at the 57th Annual South African Statistical Association (SASA) Conference in Pretoria.

**Dr Lizanne Raubenheimer** presented her research at two (2) international conferences, one (1) in Smolenice, Slovakia and another in Rio de Janeiro, Brazil.

**Mr Sharkay Izally, Dr Lizanne Raubenheimer and Associate Professor Akim Adekpedjou** jointly presented a paper at the 57th Annual South African Statistical Association (SASA) Conference in Pretoria.

## Postgraduates / Graduations

During 2015, five (5) honours students and three (3) masters students completed their studies. These students will graduate during the April 2016 graduation.

During the 57th Annual South African Statistical (SASA) Conference in Pretoria, **Dr Raubenheimer's** Masters student won the first prize for the best masters poster presentation.

## Distinguished Visitors / International Visits

During 2015, the Department was privileged to have four (4) Distinguished Visitors:

In August 2015, **Associate Professor Akim Adekpedjou** from Missouri University of Science and Technology, Missouri, United States of America, visited the department. He gave a talk on "*Chi-square test based on random cells with recurrent events*". He gave a course in Survival Analysis, and worked on topics in Accelerated



(Left to right) Din Chen, Elizabeth Zell, Lizanne Raubenheimer, Donald Rubin, Michael von Maltitz, James Allison, at the 57th Annual Conference of the South African Statistical Association for 2015 (SASA 2015), hosted at the University of Pretoria.  
Photo: Department of Statistics

Life Testing with Dr Lizanne Raubenheimer and Mr Sharkay Izally.

In August 2015, **Professor Joseph Ngatchou Wandji** from the University of Lorraine, France, gave a talk on "*The kernel density estimators for dependent and non-stationary random fields*".

In September 2015, **Emeritus Professor Anestis Antoniadis** from the Joseph Fourier University, Grenoble, France, gave the following three talks, "*Smoothing and variable selection using P-splines*", "*Local comparison of empirical distributions via nonparametric regression*" and "*Functional time-series prediction and applications*".

In December 2015, **Professor Steven Heeringa** from the University of Michigan, Ann Arbor, United States of America, visited the department.

## Significant Research Aligned Events

**Dr Raubenheimer** was the chair and co-organiser of a special invited session on Bayesian statistics at the 57th Annual South African Statistical (SASA) Conference in Pretoria. The main speaker in this session was **Professor Donald Rubin**, the John L. Loeb Professor of Statistics at Harvard University.

**Dr Lizanne Raubenheimer**  
Acting Head of Department

## Distinguished Visitors

### Adekpedjou, A.M.

**Professor AM Adekpedjou.** Missouri University of Science and Technology, Missouri, United States of America. *Lecture, Research and Collaboration.* August 2015.

### Antoniadis, A.

**Professor A Antoniadis.** University Joseph Fourier, Grenoble, France. *Lectures.* September 2015.

### Heeringa, S.

**Professor S Heeringa.** University of Michigan, Ann Arbor, United States of America. *Collaboration.* December 2015.

### Ngatchou-Wandji, J.

**Professor J Ngatchou-Wandji.** University of Lorraine, Lorraine, France. *Lecture.* August 2015.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Baxter, J.

Mayer, C.H., Louw, L. and **Baxter, J.** (2015) 'Committed, motivated and joyful?' Job satisfaction and organisational commitment of managers at a South African public utility. *Acta Commercii.* 15 (1). p.1-12.

### Chinomona, A.

**Chinomona, A.** and Mwambi, H. (2015) Multiple imputation for non-response when estimating HIV prevalence using survey data. *BMC Public Health.* 15 (1059). p.1-10.

**Chinomona, A.** and Mwambi, H. (2015) Estimating HIV Prevalence in Zimbabwe: Using Population-Based Survey Data. *PLoS One.* 10 (12). p.1-17.

### Radloff, S.

Steele, M.Z., Shackleton, C.M., Shaanker, R.U., Ganeshiah, K.N. and **Radloff, S.** (2015) The influence of livelihood dependency, local ecological knowledge and market proximity on the ecological impacts of harvesting non-timber forest products. *Forest Policy and Economics.* 50 (2015). p.285-291.

### Raubenheimer, L.

**Raubenheimer, L.** and van der Merwe, A.J. (2015) Bayesian control chart for nonconformities. *Quality and Reliability Engineering International.* 31 (2015). p.1359-1366.

**Raubenheimer, L.** and van der Merwe, A.J. (2015) Bayes Factors for Grouped Data. *Journal for New Generation Sciences.* 13 (3). p.149-162.



Sharkay Izally, pictured here with his supervisor Dr Lizanne Raubenheimer, won the prize for the best Masters poster presentation at the 57th Annual Conference of the South African Statistical Association for 2015 (SASA 2015).  
Photo: Department of Statistics



For his overwhelming contribution to statistical innovation, Professor Trevor Hastie (pictured here with Dr Chrissie Boughey, Deputy Vice Chancellor: Academic & Student Affairs), is awarded the Distinguished Old Rhodian Award 2015. Trevor graduated from Rhodes University with a BSc (Hons) in Statistics in 1976.  
Photo: Supplied

## Peer-reviewed Proceedings

### Radloff, S.

**Muriithi, S.M., Louw, L. and Radloff, S.** The Relationship Between Emotional Intelligence and Leadership Effectiveness Among Kenyan Indigenous Banks. *The 27th SAIMS Annual Conference: Management in Southern Africa: Change, Challenge and Opportunity.* University of Cape Town, Cape Town. South Africa. August 2015.

**Botha, F., Snowball, J.D., De Klerk, V.A. and Radloff, S.** Determinants of Student Satisfaction with Campus Residence Life at a South African University. *XI International Society for Quality-of-Life Studies (ISQOLS) Conference.* Ca' Foscari University of Venice, Venice. Italy. November 2012.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

### Chinomona, A.

**Chinomona, A.** and Mwambi, H. Hierarchical logistic regression for HIV using population-based survey data accounting for missing values. *The South African Statistical Association Conference.* University of Pretoria, Pretoria. South Africa. November 2015.

### Izally, S.R., Raubenheimer, L. and Adekpedjou, A.M.

**Izally, S.R., Raubenheimer, L. and Adekpedjou, A.M.** Bayesian accelerated life testing for the exponential model using the MDI prior. *The South African Statistical Association Conference.* University of Pretoria, Pretoria. South Africa. November 2015.

### Raubenheimer, L.

**Raubenheimer, L.** Predictive density for the Phase II Shewart-type p - chart. *The International Conference on Probability and Statistics.* Smolenice Castle, Smolenice. Slovakia. June 2015.

**Raubenheimer, L.** An objective Bayesian approach to tolerance intervals for the Poisson distribution. *The World Statistics Congress of the International Statistical Institute.* Riocentro, Rio de Janeiro. Brazil.

# ZOOLOGY AND ENTOMOLOGY

The staff, Research Associates and Postgraduate students within the Department of Zoology and Entomology published a total of seventy (70) subsidy-earning research articles on a diverse range of topics during 2015, the greater majority of which were published in top international peer review journals. In addition, staff within the department also contributed four (4) book chapters.



The high research publication output reflects the strong research collaborations established by the staff with research institutes in southern and North Africa, Europe, North and South America and Australasia. In recognition of their high standing within the science community, a number of academic staff within the department presented keynote lectures at both local and international conferences and were invited to review scientific peer review articles and local and international research programmes.

## Postgraduates / Graduations

The department continued to have a highly vibrant Postgraduate school with no less than eleven (11) honours students, thirty-nine (39) MSc and thirty-three (33) PhD students registered within the department. The following PhD students graduated in 2015:

1. **Uyi, O.** 2015. *Aspects of the biology, thermal physiology and nutritional ecology of *Pareuchaetes insulata* (Walker) (Lepidoptera: Erebidae: Arctiinae), a specialist herbivore introduced into South Africa for the biological control of *Chromolaena odorata* (L.) King and Robinson (Asteraceae).*
2. **Chambers, C.B.** 2015. *Production of the *Cydia pomonella* granulovirus (CpGV) in a heterologous host, *Thaumotobia leucotreta* (Meyrick) (False Codling Moth).*

Delegates from the joint Zoological Society of South Africa (ZSSA)/Entomological Society of South Africa (ESSA) conference in July 2015.

Photo: Department of Zoology and Entomology

3. **Jones, R.W.** 2015. *Aquatic Invasions of the Nseleni River System: causes, consequences and control.*
4. **Bergamino, L.** 2015: *Reciprocal aquatic/terrestrial trophic subsidies through estuarine benthic organisms in a South African hydrological catchment.*
5. **Dalu, T.** 2015. *Spatio-temporal variation in the phyto-benthos and phytoplankton community structure and composition of particulate matter along a river-estuary continuum assessed using microscopic and stable isotope analyses.*
6. **Puccinelli, E.** 2015. *Diets of coastal filter feeders: impact of factors operating at different scales.*
7. **Williams, K.** 2015. *Systematics of the genus *Lucilia* (Diptera: Calliphoridae) in southern Africa.*
8. **Daly, R.** 2015. *Feeding ecology, residency patterns and migration dynamics of bull sharks (*Carcharhinus leucas*) in the southwest Indian Ocean.*
9. **May, B.** 2015. *Investigations into insect-induced plant responses of Water Hyacinth, (*Eichhornia crassipes*) (Pontederiaceae).*

10. Weyl, P. S. R. 2015. *Friend or foe? Resolving the status of the submerged macrophyte Myriophyllum spicatum L. (Haloragaceae) in southern Africa.*

## Distinguished Visitors / International Visits

During 2015, the department hosted Dr Walter Song attached to the Natural Museum in Vienna. In addition, Professor Vilis Nams from the University of Dalhousie, Canada was a Hugh Kelly Fellow in the Department. Professor Nams' research focused the utilisation of space by carnivores and was conducted in collaboration with Dr Dan Parker.

As part of his sabbatical, Professor Adrian Craig visited the University of Rennes, France, which involved research on vocal communication in birds. The collaborative three (3) year project is funded by the NRF and CNR and includes partners from The Universities of Witwatersrand and Limpopo.

## Books/Chapters/Monographs

**McQuaid, C.D.**

**McQuaid, C.D.**, Porri, F., Nicastro, K.R. and Zardi, G.I. (2015) Simple, scale-dependent patterns emerge from very complex effects: an example from the intertidal mussels *Mytilus galloprovincialis* and *Perna perna*. In: Hughes, R.N., Hughes, D.J. and Dale, A.C. (eds.). *Oceanography and Marine Biology: An Annual Review 53*. Boca Raton London New York: CRC Press. p.127-156. ISBN: 9781498705455.

**Parker, D.M.**

Collinson, W., **Parker, D.M.**, Patterson-Abrolat, C., Alexander, G. and Davies-Mostert, H.T. (2015) Setjhaba SA, South Afrika: A South African Perspective of an Emerging Transport Infrastructure. In: van der Ree, R., Smith, D.J. and Grilo, C. (eds.). *Handbook of Road Ecology*. America: John Wiley & Sons. p.439-447. ISBN: 9781118568187.

**Villet, M.H.**

**Villet, M.H.** (2015) History, accomplishments, and challenges of forensic entomology in Africa. In: Tomberlin, J.K. and Benbow, M.E. (eds.). *Forensic Entomology: International Dimensions and Frontiers*. United Kingdom: Taylor and Francis. p.161-171. ISBN: 9781466572409.

Amendt, J., Anderson, G., Campobasso, C. P., Dadour, I., Gaudry, E., Hall, M. J. R., Moretti, T.C., Sukontason, K. L., and **Villet, M.H.** (2015) Standard Practices. In: Tomberlin, J.K. and Benbow, M.E. (eds.). *Forensic Entomology: International Dimensions and Frontiers*. United Kingdom: Taylor and Francis. p.381-398. ISBN: 9781466572409.

## Concerts, Exhibitions, Performances, Workshops, Events

**Mlambo, P.Z., Pereira Da Conceicao, L.L. and Roux, R.**

Barber-James, H., **Mlambo, P.Z., Pereira Da Conceicao, L.L. and Roux, R.** Delegate. Freshwater macroinvertebrates: guardians of river health. How species diversity can tell us about the health of rivers and streams. *Talkshop for WaterWorld*. SAIAB, SciFest, Grahamstown. South Africa. 18 - 25 March 2015.

## Other Publications

**Froneman, P.W.**

Matcher, G.F., **Froneman, P.W.** and Dorrington, R.A. (2015) Aquatic microbial diversity: A sensitive and robust tool for assessing ecosystem health and functioning. In: *Aquatic microbial diversity: A sensitive and robust tool for assessing ecosystem health and functioning*. South Africa: WRC.

## Significant Research Aligned Events

The Biological Control Research Group under the leadership of Professor Martin Hill won the NSTF (National Science Technology Forum) Green Matter award which is awarded to an individual or an organization towards achieving biodiversity, environmental sustainability and a greener economy.

Moreover the department successfully hosted the joint Zoological Society of South Africa (ZSSA)/ Entomological Society of South Africa (ESSA) conference in July 2015. The highly successful conference was held over a period of five (5) days with over four hundred (400) delegates participating in the event.

**Professor PW Froneman**

Head of Department



Professor Nicole Richoux with graduating MSc student, Liko Sikutshwa.  
Photo: Department of Zoology and Entomology

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Craig, A.J.F., Hulley, P.E., Kuiper, T.R., Smith, D.L. and Wolmarans, M.H.L.**

**Craig, A.J.F., Hulley, P.E., Galpin, M.P., Kuiper, T.R., Smith, D.L. and Wolmarans, M.H.L.** (2015) Winter's Boon: Ringing Birds at Eastern Cape Aloe Patches. *Afring News*. 44 (2015). p.1-8.

**Hepburn, H.R.**

Rattanawanee, A., Duangpakdee, O., Rod-Im, P. and **Hepburn, H.R.** (2015) Discrimination of two *Tetragonula* (Apidae: Meliponini) species in Thailand using geometric morphometric analysis of wing venation. *Kasetsart Journal - Natural Science*. 49 (5). p.700-710.

**Villet, M.H.**

Barker, E., Price, B.W., Rycroft, S. and **Villet, M.H.** (2015) Global Cicada

Sound Collection I: Recordings from South African and Malawi by BW Price & MH Villet and harvesting of BioAcoustica data by GBIF. *Biodiversity Data Journal*. 2015. p.1-8.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Allanson, B.R. and Hodgson, A.N.**

Pinchuck, S.C., **Allanson, B.R.** and **Hodgson, A.N.** (2015) Evolutionary retention of defensive lateral pedal glands in the smallest *siphonariid limpet* (Gastropoda: Pulmonata). *African Zoology*. 50 (4). p.327-330.

**Antonio, E.S. and Richoux, N.B.**

**Antonio, E.S.** and **Richoux, N.B.** (2015) Tide-Induced Variations in the Fatty Acid Composition of Estuarine Particulate Organic Matter. *Estuaries and Coasts*. 2015 (2015). p.1-12.

**Baldanzi, S., McQuaid, C.D. and Porri, F.**

**Baldanzi, S., McQuaid, C.D.** and **Porri, F.** (2015) Temperature Effects on Reproductive Allocation in the Sandhopper *Talorchestia capensis*. *Biologica Bulletin*. 228 (2015). p.181-191.

**Baldanzi, S., Weidberg, N.F., McQuaid, C.D. and Porri, F.**

**Baldanzi, S., Weidberg, N.F., Fusi, M., Cannicci, S., McQuaid, C.D.** and **Porri, F.** (2015) Contrasting environments shape thermal physiology across the spatial range of the sandhopper *Talorchestia capensis*. *Oecologia*. 179 (2015). p.1067-1078.

**Barnes, R.S.K.**

**Barnes, R.S.K.** and **Hendy, I.W.** (2015) Seagrass-associated macrobenthic functional diversity and functional structure along an estuarine gradient. *Estuarine Coastal and Shelf Science*. 164 (2015). p.233-243.

**Barnes, R.S.K.** and **Hendy, I.W.** (2015) Functional uniformity underlies the common spatial structure of macrofaunal assemblages in intertidal seagrass beds. *Biological Journal of Linnean Society*. 115 (2015). p.114-126.

**Bell, C., McQuaid, C.D. and Porri, F.**

**Bell, C., McQuaid, C.D.** and **Porri, F.** (2015) Barnacle settlement on rocky shores: Substratum preference and epibiosis on mussels. *Journal of Experimental Marine Biology and Ecology*. 473 (2015). p.195-201.

**Bellingan, T.A. and Villet, M.H.**

**Bellingan, T.A., Woodford, D.J., Gouws, J., Villet, M.H.** and **Weyl, O.L.F.** (2015) Rapid bioassessment of the effects of repeated rotenone treatments on invertebrate assemblages in the Rondegat River, South Africa. *African Journal of Aquatic Science*. 40 (1). p.89-94.

**Bergamino, L. and Richoux, N.B.**

**Bergamino, L.** and **Richoux, N.B.** (2015) Food preferences of the estuarine crab *Sesarma catenata* estimated through laboratory experiments. *Marine and Freshwater Research*. 66 (2015). p.750-756.

**Bernard, A.T.F.**

Soler, G.A., Edgar, G.J., Thomson, R.J., Kininmonth, S., Campbell, S.J., Dawson, T.P., Barrett, N.S., **Bernard, A.T.F.**, Galvan, D.E., Willis, T.J., Alexander, T.J. and Stuart-Smith, R.D. (2015) Reef Fishes at All Trophic Levels Respond Positively to Effective Marine Protected Areas. *PLoS One*. 10 (10). p.1-12.

**Bissett, C., Parker, D.M., Bernard, R.T.F. and Perry, T.W.**

**Bissett, C., Parker, D.M., Bernard, R.T.F.** and **Perry, T.W.** (2015) Management-induced niche shift? The activity of cheetahs in the presence of lions. *African Journal of Wildlife Research*. 45 (2). p.197-203.

**Brassine, E. and Parker, D.M.**

**Brassine, E.** and **Parker, D.M.** (2015) Trapping Elusive Cats: Using Intensive Camera Trapping to Estimate the Density of a Rare African Felid. *PLoS One*. 10 (2). p.1-15.

**Brits, D., Ridgeway, J.A. and Timm, A.E.**

**Brits, D., Ridgeway, J.A.** and **Timm, A.E.** (2015) Laboratory evaluation of temperature effects on the efficacy of *Cryptophlebia leucotreta* granulovirus (CrleGV-SA) on fourth instar false codling moth larvae. *African Entomology*. 23 (1). p.243-246.

**Collinson, W.J., Parker, D.M. and Bernard, R.T.F.**

**Collinson, W.J., Parker, D.M., Bernard, R.T.F.,** Reilly, B.K. and Davies-Mostert, H.T. (2015) An inventory of vertebrate roadkill in the Greater Mapungubwe Transfrontier Conservation Area, South Africa. *African Journal of Wildlife Research*. 45 (3). p.301-311.

**Compton, S.G.**

Liu, M., **Compton, S.G.**, Peng, F.E., Zhang, J. and Chen, X.Y. (2015) Movements of genes between populations: are pollinators more effective at transferring their own or plant genetic markers? *Proceedings of the Royal Society B - Biological Sciences*. 282 (1808). p.20150290.

Liu, G.X., Yang, D.R., Peng, Y.Q. and **Compton, S.G.** (2015)

Complementary fruiting phenologies facilitate sharing of one pollinator fig wasp by two fig trees. *Journal of Plant Ecology*. 8 (2). p.197-206.

Wang, R., **Compton, S.G.**, Quinnell, R.J., Peng, Y.Q., Barwell, L. and Chen, Y. (2015) Insect responses to host plant provision beyond natural boundaries: latitudinal and altitudinal variation in a Chinese fig wasp community. *Ecology and Evolution*. 5 (17). p.3642-3656.

Wang, R.W., Wen, X.L., Chen, C., Shi, L. and **Compton, S.G.** (2015) Spatial heterogeneity and host repression in fig-fig wasp mutualism. *Science China-Life Sciences*. 58 (5). p.492-500.

Ghana, S., Suleman, N. and **Compton, S.G.** (2015) Ability to gall: the ultimate basis of host specificity in fig wasps? *Ecological Entomology*. 40 (2015). p.280-291.

Ghana, S., Suleman, N. and **Compton, S.G.** (2015) A comparison of pollinator fig wasp development in figs of *Ficus montana* and its hybrids with *Ficus asperifolia*. *Entomologia Experimentalis et Applicata*. 156 (2015). p.225-237.

Wang, R., Segar, S.T., Harper, M., Yu, H., Quinnell, R.J. and **Compton, S.G.** (2015) Between-species facilitation by male fig wasps in shared figs. *Ecological Entomology*. 40 (2015). p.428-436.

Wang, R., Aylwin, R., Cobb, J., Craine, L., Ghana, S., Reyes-Betancort, J.A., Quinnell, R.J. and **Compton, S.G.** (2015) The impact of fig wasps (Chalcidoidea), new to the Mediterranean, on reproduction of an invasive fig tree *Ficus microcarpa* (Moraceae) and their potential for its biological control. *Biological Control*. 81 (2015). p.21-30.

Wang, R., Aylwin, R., Barwell, L., Chen, X.Y., Chen, Y., Chou, L.-S., Cobb, J., Collette, D., Craine, L., Giblin-Davis, R.M., Ghana, S., Harper, M., Harrison, R.D., Mcpherson, J.R., Peng, Y.Q., Pereira, R.A.S., Reyes-Betancort, A., Rodriguez, L.J.V., Strange, E., van Noort, S., Yang, H.-W., Yu, H. and **Compton, S.G.** (2015) The fig wasp followers and colonists of a widely introduced fig tree, *Ficus microcarpa*. *Insect Conservation and Diversity*. 8 (2015). p.322-336.

Suleman, N., Sait, S. and **Compton, S.G.** (2015) Female figs as traps: Their impact on the dynamics of an experimental fig tree-pollinator-parasitoid community. *Acta Oecologica-International Journal of Ecology*. 62 (2015). p.1-9.

**Connan, M.**

Whittington, P.A., Tree, A.J., **Connan, M.** and Watkins, E.G. (2015) The status of the Damara Tern in the Eastern Cape, South Africa. *Ostrich*. 86 (1&2). p.65-73.

**Connan, M., Teske, P.R. and McQuaid, C.D.**

**Connan, M., Teske, P.R.,** Tree, A.J., Whittington, P.A. and **McQuaid, C.D.** (2015) The subspecies of Antarctic Terns (*Sterna vittata*) wintering on the South African coast: evidence from morphology, genetics and stable isotope. *Emu*. 115 (2015). p.223-236.

**Coombes, C.A., Hill, M.P., Moore, S.D. and Fullard, T.**

**Coombes, C.A., Hill, M.P., Moore, S.D., Dames, J.F.** and **Fullard, T.** (2015) *Beauveria* and *Metarhizium* against false codling moth (Lepidoptera: Tortricidae): A step towards selecting isolates for potential development of a mycoinsecticide. *African Entomology*. 23 (1). p.239-242.

**Craig, A.J.F.**

Henry, L., **Craig, A.J.F.**, Lemasson, A. and Hausberger, M. (2015) Social coordination in animal vocal interactions. Is there any evidence of turn-taking? The starling as an animal model. *Frontiers in Psychology*. 6 (1416). p.1-21.

Henry, L., Biquand, V., **Craig, A.J.F.** and Hausberger, M. (2015) Sexing Adult Pale-Winged Starlings Using Morphometric and Discriminant Function Analysis. *PLoS One*. 10 (9). p.1-9.

**Craig, A.J.F. and Bonnevie, B.T.**

**Craig, A.J.F.,** Hausberger, M., **Bonnevie, B.T.** and Henry, L. (2015) The timing of moult in males and females of the monomorphic Pale-winged Starling *Onychognathus nabeourop*. *African Zoology*. 50 (1). p.69-71.

**Dalu, T.**

Suarez-Morales, E., **Wasserman, R.J.** and **Dalu, T.** (2015) A New Species of *Lovenula Schmeil* (Copepoda, Calanoida, Diaptomidae) from the Eastern Cape Province of South Africa. *Crustaceana*. 88 (3). p.324-342.

**Dalu, T. and Froneman, P.W.**

- Dalu, T., Weyl, O.L.F., Froneman, P.W. and Wasserman, R.J. (2015) Trophic interactions in an austral temperate ephemeral pond inferred using stable isotope analysis. *Hydrobiologia*. 2015. p.1-14.
- Dalu, T., Dube, T., Froneman, P.W., Sachikonye, M.T.B., Clegg, B. and Nhwatiwa, T. (2015) An assessment of chlorophyll-*a* concentration spatio-temporal variation using Landsat satellite data, in a small tropical reservoir. *Geocarto International*. 30 (10). p.1130-1143.
- Dalu, T., Wasserman, R.J., Jordaan, M., Froneman, P.W. and Weyl, O.L.F. (2015) An Assessment of the Effect of Rotenone on Selected Non-Target Aquatic Fauna. *PLoS One*. 10 (11). p.1-13.
- Dalu, T., Richoux, N.B. and Froneman, P.W.
- Dalu, T., Richoux, N.B. and Froneman, P.W. (2015) Nature and source of suspended particulate matter and detritus along an austral temperate river-estuary continuum, assessed using stable isotope analysis. *Hydrobiologia*. 2015. p.1-16.
- Dalu, T., Taylor, J.C., Richoux, N.B. and Froneman, P.W. (2015) A re-examination of the type material of *Entomoneis paludosa* (W SMITH) REIMER and its morphology and distribution in African waters. *Fottea*. 15 (1). p.11-25.
- Dalu, T., Bere, T., Richoux, N.B. and Froneman, P.W. (2015) Assessment of the spatial and temporal variations in periphyton communities along a small temperate river system: A multimetric and stable isotope analysis approach. *South African Journal of Botany*. 100 (2015). p.203-212.
- Danckwerts, D.K.
- Le Corre, M., Danckwerts, D.K., Ringler, D., Bastien, M., Orlowski, S., Morey Rubio, C., Pinaud, D. and Micol, T. (2015) Seabird recovery and vegetation dynamics after Norway rat eradication at Tromelin Island, western Indian Ocean. *Biological Conservation*. 185 (2015). p.85-94.
- Deschodt, C.M.
- Deschodt, C.M. (2015) Status changes, new synonymies, key and descriptions of seven new species in the subgenus *Scarabaeus* (*Scarabaeolus*) Balthasar 1965 (Coleoptera: Scarabaeidae: Scarabaeinae). *Zootaxa*. 3931 (1). p.505-527.
- Deschodt, C.M., Davis, A.L. and Scholtz, C.H. (2015) A new synonymy in the fidius group of *Copris* Müller 1764 (Coleoptera: Scarabaeidae: Scarabaeinae) and a new species from the highland grasslands of South Africa. *Zootaxa*. 3939 (3). p.431-438.
- Froneman, P.W.
- Plon, S., Cockcroft, V.G. and Froneman, P.W. (2015) The Natural History and Conservation of Indian Ocean Humpback Dolphins (*Sousa plumbea*) in South African Waters. *Advances in Marine Biology*. 72 (Part 1). p.143-162.
- Goble, T.A. and Hill, M.P.
- Goble, T.A., Conlong, D.E. and Hill, M.P. (2015) Virulence of *Beauveria brongniartii* and *B.bassiana* against *Schizonycha affinis* white grubs and adults (Coleoptera: Scarabaeidae). *Journal of Applied Entomology*. 139 (2015). p.134-145.
- Hill, J.M., Jones, R.W. and Hill, M.P.
- Hill, J.M., Jones, R.W., Hill, M.P. and Weyl, O.L.F. (2015) Comparisons of isotopic niche widths of some invasive and indigenous fauna in a South African river. *Freshwater Biology*. 60 (2015). p.893-902.
- Humphries, A.T. and McQuaid, C.D.
- Humphries, A.T., McQuaid, C.D. and McClanahan, T.R. (2015) Context-Dependent Diversity-Effects of Seaweed Consumption on Coral Reefs in Kenya. *PLoS One*. 10 (12). p.1-18.
- litembu, J.A. and Richoux, N.B.
- litembu, J.A. and Richoux, N.B. (2015) Trophic relationships of hake (*Merluccius capensis* and *M. paradoxus*) and sharks (*Centrophorus squamosus*, *Deania calcea* and *D. profundorum*) in the Northern (Namibia) Benguela Current region. *African Zoology*. 50 (4). p.273-279.
- Kramer, R., McQuaid, C.D., Mostert, B.P. and Wasserman, R.J.
- Kramer, R., McQuaid, C.D., Vink, T.J.F., Mostert, B.P. and Wasserman, R.J. (2015) Utilization of mangrove crab-burrow micro-habitats by the goby *Redigobius dewaali*: Evidence for dominance hierarchy. *Journal of Experimental Marine Biology and Ecology*. 462 (2015). p.1-7.
- Kuiper, T.R. and Parker, D.M.
- Kuiper, T.R., Loveridge, A.J., Parker, D.M., Johnson, P.J., Hunt, J.E., Stapelkamp, B., Sibanda, L. and Macdonald, D.W. (2015) Seasonal herding practices influence predation on domestic stock by African lions along a protected area boundary. *Biological Conservation*. 191 (2015). p.546-554.
- Kuiper, T.R., Smith, D.L., Wolmarans, M.H.L., Jones, S.S., Forbes,



The Biological Control Research Group (BCRG), led by Professor Martin Hill, received the *GreenMatter Award* for biodiversity, environmental sustainability and a greener economy at the National Science Technology Forum (NSTF) Awards. Professor Hill (left) is pictured here with Dr Sibusiso Manzini (right), GreenMatter Executive Programme Director, who sponsored the award. Photo: Department of Zoology and Entomology

- R.W., Hulley, P.E. and Craig, A.J.F.
- Kuiper, T.R., Smith, D.L., Wolmarans, M.H.L., Jones, S.S., Forbes, R.W., Hulley, P.E. and Craig, A.J.F. (2015) The importance of winter-flowering *Aloe ferox* for specialist and generalist nectar-feeding birds. *Emu*. 115 (1). p.49-57.
- Lathlean, J.A.
- Lathlean, J.A., McWilliam, R.A., Ayre, D.J. and Minchinton, T.E. (2015) Biogeographical patterns of rocky shore community structure in south-east Australia: effects of oceanographic conditions and heat stress. *Journal of Biogeography*. 42 (2015). p.1538-1552.
- Magoro, M.L.
- Murray, T.S., Magoro, M.L., Whitfield, A.K. and Cowley, P.D. (2015) Movement behaviour of alien largemouth bass *Micropterus salmoides* in the estuarine headwater region of the Kowie River, South Africa. *African Zoology*. 50 (4). p.263-271.
- Magoro, M.L. and Carassou, L.
- Magoro, M.L., Whitfield, A.K. and Carassou, L. (2015) Predation by introduced largemouth bass *Micropterus salmoides* on indigenous marine fish in the lower Kowie River, South Africa. *African Journal of Aquatic Science*. 40 (1). p.81-88.
- Mangan, R.
- Mangan, R., Dirilgen, T. and Baars, J.R. (2015) Responses of adult *Hydrellia lagarosiphon* to a revised diet: implications for life cycle studies and laboratory culturing techniques. *Entomologia Experimentalis et Applicata*. 157 (2). p.164-169.
- Mann, G.K.H., Lagesse, J.V. and Parker, D.M.
- Mann, G.K.H., Lagesse, J.V., O'Riain, M.J. and Parker, D.M. (2015) Beefing up species richness? The effect of land-use on mammal diversity in an arid biodiversity hotspot. *African Journal of Wildlife Research*. 45 (3). p.321-331.
- Marsberg, T., Hill, M.P. and Moore, S.D.
- Abdulkadir, F., Knox, C., Marsberg, T., Hill, M.P. and Moore, S.D. (2015) Genetic and biological characterisation of a novel *Plutella xylostella* granulovirus, PtxyGV-SA. *Biocontrol*. 60 (2015). p.507-515.
- Marsberg, T., Hill, M.P., Moore, S.D. and Timm, A.E.
- Marsberg, T., Hill, M.P., Moore, S.D. and Timm, A.E. (2015) DNA-based identification of Lepidoptera associated with citrus in South Africa. *African Entomology*. 23 (1). p.165-171.
- Martin, G.D.
- Peel, R.A., Tweddle, D., Simasiku, E.K., Martin, G.D., Lubanda, J., Hay, C.J. and Weyl, O.L.F. (2015) Ecology, fish and fishery of Lake Liambezi, a recently refilled floodplain lake in the Zambezi Region, Namibia. *African Journal of Aquatic Science*. 40 (4). p.417-424.

- McQuaid, C.D.**  
Qhaji, Y., Jansen Van Vuuren, B., Papadopoulos, I., **McQuaid, C.D.** and Teske, P.R. (2015) A comparison of genetic structure in two low-dispersal crabs from the Wild Coast, South Africa. *African Journal of Marine Science*. 37 (3). p.345-351.
- McQuaid, C.D. and Porri, F.**  
Fusi, M., Giomi, F., Babbini, S., Daffonchio, D., **McQuaid, C.D.**, **Porri, F.** and Cannicci, S. (2015) Thermal specialization across large geographical scales predicts the resilience of mangrove crab populations to global warming. *Oikos*. 124 (2015). p.784-795.
- McQuaid, C.D., Porri, F. and Zardi, G.I.**  
**McQuaid, C.D.**, **Porri, F.**, Nicastro, K.R. and Zardi, G.I. (2015) Simple, Scale-Dependent Patterns Emerge From Very Complex Effects-An Example From The Intertidal Mussels *Mytilus Galloprovincialis* and *Perna Perna*. *Oceanography and Marine Biology*. 53 (2015). p.127-156.
- Mmonwa, K.L. and McQuaid, C.D.**  
**Mmonwa, K.L.**, Teske, P.R., **McQuaid, C.D.** and **Barker, N.P.** (2015) Historical demography of southern African patellid limpets: congruence of population expansions, but not phylogeography. *African Journal of Marine Science*. 37 (1). p.11-20.
- Monaco, C.J.**  
**Monaco, C.J.**, Wethey, D.S., Gulledge, S. and Helmuth, B. (2015) Shore-level size gradients and thermal refuge use in the predatory sea star *Plaster ochraceus*: the role of environmental stressors. *Marine Ecology Progress Series*. 539 (2015). p.191-205.
- Toscano, B.J. and **Monaco, C.J.** (2015) Testing for relationships between individual crab behavior and metabolic rate across ecological contexts. *Behavioral Ecology and Sociobiology*. 69 (2015). p.1343-1351.
- Moore, S.D.**  
**Moore, S.D.**, Kirkman, W., Richards, G.I. and Stephen, P.R. (2015) The *Cryptophlebia leucotreta* Granulovirus - 10 Years of Commercial Field Use. *Viruses*. 7 (2015). p.1284-1312.
- Moore, S.D.**, Kirkman, W. and Hattingh, V. (2015) The host status of lemons for the false codling moth, *Thaumatotibia leucotreta* (Meyrick) (Lepidoptera: Tortricidae) with particular reference to export protocols. *African Entomology*. 23 (2). p.519-525.
- Moore, S.D. and Hill, M.P.**  
Knox, C., **Moore, S.D.**, Luke, G.A. and **Hill, M.P.** (2015) Baculovirus-based strategies for the management of insect pests: a focus on development and application in South Africa. *Biocontrol Science and Technology*. 25 (1). p.1-20.
- Nel, H.A. and Froneman, P.W.**  
**Nel, H.A.** and **Froneman, P.W.** (2015) A quantitative analysis of microplastic pollution along the south-eastern coastline of South Africa. *Marine Pollution Bulletin*. 101 (2015). p.274-279.
- Nepgen, E.S., Hill, M.P. and Moore, S.D.**  
**Nepgen, E.S.**, **Hill, M.P.** and **Moore, S.D.** (2015) The Effect of Long-Distance Transportation on the Fitness of Irradiated False Codling Moth (Lepidoptera: Tortricidae) for Use in a Sterile Insect Release Program. *Journal of Economic Entomology*. 108 (6). p.2610-2619.
- Page, S.K. and Parker, D.M.**  
**Page, S.K.**, **Parker, D.M.**, Peinke, D.M. and Davies-Mostert, H.T. (2015) Assessing the Potential Threat Landscape of a Proposed Reintroduction Site for Carnivores. *PLoS One*. 10 (3). p.1-16.
- Paterson, I.**  
**Barker, N.P.**, **Paterson, I.** and **Howis, S.** (2015) "Barcoding" and ISSR data illuminate a problematic infraspecific taxonomy for *Chrysanthemoides monilifera* (Calenduleae: Asteraceae): Lessons for biocontrol of a noxious weed. *Biochemical Systematics and Ecology*. 61 (2015). p.541-551.
- Plass-Johnson, J.G., McQuaid, C.D. and Hill, J.M.**  
**Plass-Johnson, J.G.**, **McQuaid, C.D.** and **Hill, J.M.** (2015) The effects of tissue type and body size on  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  values in parrotfish (Labridae) from Zanzibar, Tanzania. *Journal of Applied Ichthyology*. 2015. p.1-5.
- Plass-Johnson, J.G., McQuaid, C.D. and Hill, J.M.** (2015) Morphologically similar, coexisting hard corals (*Porites lobata* and *P. solida*) display similar trophic isotopic ratios across reefs and depths. *Marine and Freshwater Research*. 2015. p.1-6.
- Ray, P. and Hill, M.P.**  
**Ray, P.** and **Hill, M.P.** (2015) More is not necessarily better: the interaction between insect population density and culture age of fungus on the control of invasive weed water hyacinth. *Hydrobiologia*. 2015. p.1-12.
- Richoux, N.B. and Ndhlovu, R.T.**  
**Richoux, N.B.** and **Ndhlovu, R.T.** (2015) Temporal variability in the isotopic niches of rocky shore grazers and suspension-feeders. *Marine Ecology*. 36 (2015). p.1045-1059.
- Ridgeway, J.A. and Timm, A.E.**  
**Ridgeway, J.A.** and **Timm, A.E.** (2015) Reference Gene Selection for Quantitative Real-Time PCR Normalization in Larvae of Three Species of *Grapholithini* (Lepidoptera: Tortricidae). *PLoS One*. 10 (6). p.1-15.
- Tagliarolo, M. and McQuaid, C.D.**  
**Tagliarolo, M.** and **McQuaid, C.D.** (2015) Sub-lethal and sub-specific temperature effects are better predictors of mussel distribution than thermal tolerance. *Marine Ecology Progress Series*. 535 (2015). p.145-159.
- Thackeray, S.R., Moore, S.D. and Hill, M.P.**  
**Thackeray, S.R.**, **Moore, S.D.**, **Parkinson, M.** and **Hill, M.P.** (2015) Citrus thrips, *Scirtothrips aurantii* (Thysanoptera: Thripidae), damage and infestation in the presence of molasses. *Crop Protection*. 78 (2015). p.72-77.
- Tocco, C.**  
Chamberlain, D., **Tocco, C.**, Longoni, A., Mammola, S., Palestrini, C. and Rolando, A. (2015) Nesting strategies affect altitudinal distribution and habitat use in Alpine dung beetle communities. *Ecological Entomology*. 40 (2015). p.372-380.
- Tweddle, G.P. and Froneman, P.W.**  
**Tweddle, G.P.** and **Froneman, P.W.** (2015) Influence of mouth status on population structure of southern African endemic estuarine-spawning ichthyofauna in a temperate, temporarily open/closed estuary. *African Journal of Aquatic Science*. 1 (2015). p.1-5.
- Uyi, O.O. and Hill, M.P.**  
**Uyi, O.O.**, Zachariades, C., **Hill, M.P.** and Conlong, D. (2015) The nocturnal larvae of a specialist folivore perform better on *Chromolaena odorata* leaves from a shaded environment. *Entomologia Experimentalis et Applicata*. 156 (2015). p.187-199.
- Villet, M.H.**  
Kuria, S.K., Kingu, H.J.C., **Villet, M.H.** and Dhaffala, A. (2015) Human myiasis in rural South Africa is under-reported. *SAMJ South African Medical Journal*. 105 (2). p.129-133.
- Kotze, Z., **Villet, M.H.** and Weldon, C.W. (2015) Effect of temperature on development of the blowfly, *Lucilia cuprina* (Wiedemann) (Diptera: Calliphoridae). *International Journal of Legal Medicine*. 129 (2015). p.1155-1162.
- Von Der Meden, C.E.O., Cole, V.J. and McQuaid, C.D.**  
**Von Der Meden, C.E.O.**, **Cole, V.J.** and **McQuaid, C.D.** (2015) Do the threats of predation and competition alter larval behaviour and selectivity at settlement under field conditions? *Journal of Experimental Marine Biology and Ecology*. 471 (2015). p.240-246.
- Wasserman, R.J. and Froneman, P.W.**  
Wasserman, R.J., Vink, T.J.F., **Woodford, D.J.** and **Froneman, P.W.** (2015) Spawning and nest guarding of the river goby (*Glossogobius callidus*) from the Eastern Cape province of South Africa. *African Journal of Ecology*. 53 (2015). p.609-612.
- Wasserman, R.J., Dalu, T. and Froneman, P.W.**  
**Wasserman, R.J.**, Vink, T.J.E., **Dalu, T.** and **Froneman, P.W.** (2015) Fish predation regimes modify benthic diatom community structures: Experimental evidence from an in situ mesocosm study. *Austral Ecology*. 40 (2015). p.806-815.
- Watermeyer, J.P., Carroll, S.L. and Parker, D.M.**  
**Watermeyer, J.P.**, **Carroll, S.L.** and **Parker, D.M.** (2015) Seasonal consumption of browse by the African buffalo (*Syncerus caffer*) in the Thicket Biome of South Africa. *African Journal of Ecology*. 53 (2015). p.599-601.
- Weidberg, N.F., Porri, F., Von Der Meden, C.E.O. and McQuaid, C.D.**  
**Weidberg, N.F.**, **Porri, F.**, **Von Der Meden, C.E.O.**, **Jackson, J.M.**, **Goschen, W.** and **McQuaid, C.D.** (2015) Mechanisms of nearshore retention and offshore export of mussel larvae over the Agulhas Bank. *Journal of Marine Systems*. 144 (2015). p.70-80.
- Welch, R.J., Bissett, C., Perry, T.W. and Parker, D.M.**  
**Welch, R.J.**, **Bissett, C.**, **Perry, T.W.** and **Parker, D.M.** (2015) Somewhere to hide: Home range and habitat selection of cheetahs in an arid, enclosed system. *Journal of Arid Environments*. 114 (2015). p.91-99.
- Wieters, E.A.**  
Kefi, S., Berlow, E.L., **Wieters, E.A.**, Joppa, L.N., Wood, S.A., Brose, U. and Navarrete, S.A. (2015) Network structure beyond food webs: mapping

non-trophic and trophic interactions on Chilean rocky shores. *Ecology* 96 (1). p.291-303.

**Zardi, G.I.**

**Zardi, G.I., Nicastro, K.R., Serrao, E.A., Jacinto, R., Monteiro, C.A. and Pearson, G.A.** (2015) Closer to the rear edge: ecology and genetic diversity down the core-edge gradient of a marine macroalga. *Ecosphere* 6 (2). p.1-25.

Lourenco, C.R., Nicastro, K.R., Serrao, E.A., Castilho, R. and **Zardi, G.I.** (2015) Behind the mask: cryptic genetic diversity of *Mytilus galloprovincialis* along southern European and northern African shores. *Journal of Molluscan Studies* 81 (2015). p.380-387.

**Zardi, G.I. and McQuaid, C.D.**

**Zardi, G.I., Nicastro, K.R., McQuaid, C.D., Castilho, R., Costa, J., Serrao, E.A. and Pearson, G.A.** (2015) Intraspecific genetic lineages of a marine mussel show behavioural divergence and spatial segregation over a tropical/subtropical biogeographic transition. *BMC Evolutionary Biology* 15 (100). p.1-11.

Assis, J., Zupan, M., Nicastro, K.R., **Zardi, G.I., McQuaid, C.D.** and Serrao, E.A. (2015) Oceanographic Conditions Limit the Spread of a Marine Invader along Southern African Shores. *PLoS One* 10 (6). p.1-17.

**Zimba, K., Hill, M.P., Moore, S.D. and Heshula, U.**

**Zimba, K., Hill, M.P., Moore, S.D. and Heshula, U.** (2015) *Agathis bishopi* (Hymenoptera: Braconidae) as a Potential Tool for Detecting Oranges Infested with *Thaumotobia leucotreta* (Lepidoptera: Tortricidae). *Journal of Insect Behavior* 28 (2015). p.618-633.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Antonio, E.S. and Richoux, N.B.**

**Antonio, E.S. and Richoux, N.B.** Tide-induced variations in the quality of estuarine particulate organic matter: implications to food web studies. *SASAQs conference*. Drakensberg, KwaZulu-Natal. Sout Africa. July 2015.

**Bellingan, T.A.**

De moor, F.C. and **Bellingan, T.A.** Evaluation of the conservation requirements of *Trichoptera* from the Tsitsikamma mountain streams in South Africa. *International Symposium on Trichoptera*. Rutgers University, New Brunswick, New Jersey. United States of America. July 2015.

**Canavan, K., Paterson, I. and Hill, M.P.**

**Canavan, K., Paterson, I. and Hill, M.P.** Investigating the Enemy Release Hypothesis on large-statured grasses in South Africa, using *Arundo donax*, *Phragmites mauritianus* and *Phragmites australis* as models. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Chari, L.D., Richoux, N.B. and Villet, M.H.**

**Chari, L.D., Richoux, N.B. and Villet, M.H.** Fatty acid indicators of trophic cross-subsidies in riparian predators. *The Southern African Society of Aquatic Scientists (SASAQs) conference*. Drakensberg, KwaZulu-Natal. South Africa. July 2015.

**Chari, L.D., Villet, M.H. and Richoux, N.B.**

**Chari, L.D., Villet, M.H. and Richoux, N.B.** Aquatic dietary subsidies to dragonfly behavioural groups. *Joint congress of the Entomological and Zoological Societies of Southern Africa*. Grahamstown. South Africa. July 2015.

**Coombes, C.A., Hill, M.P. and Moore, S.D.**

**Coombes, C.A., Hill, M.P., Moore, S.D. and Dames, J.F.** Entomopathogenic fungi as biological control agents of false codling moth. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Coombes, C.A., Wiblin, D.R., Hill, M.P. and Moore, S.D.**

**Coombes, C.A., Chartier-Fitzgerald, V., Wiblin, D.R., Dames, J.F., Hill, M.P. and Moore, S.D.** The role of entomopathogenic fungi in the control of citrus pests in South Africa: cause for optimism. *15th IOBC-WPRS Working Group Meeting: Microbial and Nematode Control of Invertebrate Pests*. Riga. Latvia. June 2015.

**Daniel, C.A., Hill, M.P. and Moore, S.D.**

**Daniel, C.A., Hill, M.P. and Moore, S.D.** Improving the cold temperance of false codling moth through diet manipulation for improved performance in a sterile insect release programme. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

and larval behavior. *15th IOBC-WPRS Working Group Meeting: Microbial and Nematode Control of Invertebrate Pests*. Riga. Latvia. June 2015.

**Joubert, F.D., Hill, M.P. and Moore, S.D.**

**Joubert, F.D., Hill, M.P. and Moore, S.D.** An audit of the efficacy of the sterile insect technique programme for false codling moth in the Sundays River Valley. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Kenfack-Voukeng, S.N., Weyl, P.S.R. and Hill, M.P.**

**Kenfack-Voukeng, S.N., Weyl, P.S.R. and Hill, M.P.** The distribution, ecology and impact of the weevils, *Neochetina eichhornia* Warner (Coleoptera: Curculionidae), and *Neochetina bruchi* Hustache (Coleoptera: Curculionidae) on water hyacinth in Cameroon. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Kenfack-Voukeng, S.N., Weyl, P.S.R., Hill, M.P. and Ghogue, J.-P.**

Impact of *Eichhornia crassipes* (Mart-Solms) Laubach on plant diversity in the Wouri-Basin, Douala-Cameroon. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. SA. July 2015.

**Love, C.N., Hill, M.P. and Moore, S.D.**

**Love, C.N., Hill, M.P. and Moore, S.D.** Know your enemy: investigating the pupation of false codling moth. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Mangan, R., Hill, M.P. and Compton, S.G.**

**Mangan, R., Hill, M.P. and Compton, S.G.** A geographic matrix approach to biological control agent selection. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Martin, G.D., Hill, M.P. and Hill, J.M.**

**Martin, G.D., Hill, M.P., Coetzee, J.A. and Hill, J.M.** Integrating applied entomology in to the community. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Masclaux, H. and Richoux, N.B.**

**Masclaux, H. and Richoux, N.B.** Variability of trophic shift of carbon and nitrogen isotope signatures between zooplankton and its food: effects of temperature and food quality. *Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting*. Granada. Spain. February 2015.

**Maseko, Z. and Hill, M.P.**

**Maseko, Z., Coetzee, J.A. and Hill, M.P.** Nutrient dynamics of *Salvinia molesta* in shaded and open sites: how does plant quality affect the success of biological control by *Cyrtobagous salviniae*? *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Moyo, S., Richoux, N.B. and Villet, M.H.**

**Moyo, S., Richoux, N.B. and Villet, M.H.** Trophic relationships in temperate streams of South Africa revealed by stable isotope and fatty acid analysis. *SASAQs conference*. Drakensberg, KwaZulu-Natal. SA. July 2015.

**Mvandaba, S.F., Hill, M.P. and Compton, S.G.**

**Mvandaba, S.F., Coetzee, J.A., Hill, M.P. and Compton, S.G.** The thermal physiology of *Stenopelmus rufinasus* Gyllenhal Coleoptera: Curculionidae and *Neohydronomus affinis* Hustache (Coleoptera: Curculionidae), two biological control agents for floating aquatic weeds, *Azolla filiculoides* and *Pistia stratiotes* in South Africa. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Ngxande-Koza, S.W., Heshula, U. and Hill, M.P.**

**Ngxande-Koza, S.W., Heshula, U. and Hill, M.P.** Volatile Chemical Compounds: Attractants or Repellents to *Falconia intermedia*? *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Pereira Da Conceicao, L.L.**

**Barber-James, H., Monaghan, M.T. and Pereira Da Conceicao, L.L.** Is *Prosopistoma pennigerum* (Müller, 1785) only one species? A preliminary molecular assessment. *XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. The James Hutton Institute, Aberdeen. Scotland. May 2015.

**Barber-James, H. and Pereira Da Conceicao, L.L.** Mayflies as tools for conservation: examples from the Western Cape, South Africa. *Joint Entomological Society of Southern Africa XIX Congress, Zoological Society of Southern Africa XXXVII Congress*. Grahamstown. South Africa. July 2015.

**Pereira Da Conceicao, L.L. and Barber-James, H.** Paleo-drainage patterns and effects on the distribution of Teloganodidae (Ephemeroptera):



The Zoological Society of South Africa (ZSSA)/Entomological Society of South Africa (ESSA) conference in July 2015.  
 Photo: Department of Zoology and Entomology

a South African example. *XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. The Hutton James Institute, Aberdeen. Scotland. May 2015.

**Peyper, M., Hill, M.P. and Moore, S. D.**

**Peyper, M., Hill, M.P. and Moore, S.D.** *Anagyrus sp. nr. pseudococci* as a control agent of the key citrus pests, *Planococcus citri* and *Paracoccus burnerae*. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Richoux, N.B., Bergamino, L., Moyo, S., Dalu, T., Chari, L.D., Carassou, L. and Villet, M.H.**

**Richoux, N.B., Bergamino, L., Moyo, S., Dalu, T., Chari, L.D., Carassou, L. and Villet, M.H.** Connectivity through allochthony: reciprocal links between adjacent aquatic and terrestrial ecosystems in South Africa. *Association for the Sciences of Limnology and Oceanography Aquatic Sciences meeting*. Granada. Spain. February 2015.

**Taylor, C.L.**

**Barber-James, H. and Taylor, C.L.** Investigating disjunct distribution patterns in closely related mayflies between the Palaeartic and Southern Africa regions. *XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. The James Hutton Institute, Aberdeen. Scotland. May 2015.

**Thackeray, S.R., Hill, M.P., Moore, S.D. and Parkinson, M.**

**Thackeray, S.R., Hill, M.P., Moore, S.D. and Parkinson, M.** Citrus thrips, *Scirtothrips aurantii* Faure (Thysanoptera: Thripidae) damage and infestation in the presence of molasses. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Van Niekerk, S., Hill, M.P. and Moore, S. D.**

**Van Niekerk, S., Hill, M.P. and Moore, S.D.** False codling moth population ecology in citrus orchards: the influence of orchard age. *XIX Congress of the Entomological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

TWENTY

15

# Affiliates, Institutes & Units



# ALBANY MUSEUM

The Albany Museum celebrated its 160th birthday on 11th September 2015. This sparked off a year's worth of celebrations, with each department taking a turn to run a week's outreach event, which will continue into 2016. Mrs Linda Dyani has been instrumental in organising these events. The museum has continued to run smoothly under the able management of Mr Vabaza.

New exhibitions during 2015 included the launch of the temporary exhibition 'A Glimpse of Grahamstown in the Great War' in December. Further, a small exhibition on the new fossil Coelacanth discovery, and *Homo naledi* was up before the opening of the National Science Festival this year.

The Earth Science Department has seen growth both in terms of numbers of researchers and productivity. Although they still have only one government-funded post in the department, they employed extra staff through the acquisition of funding for contract posts and students. Their staff complement comprises the new curator/Head of Department (Dr Rose Prevec), three (3) NRF-funded technicians, Emeritus Curator (Dr Billy de Klerk), and Postdoctoral Research Fellow (Dr Robert Gess).

The preparation laboratory was renovated, and a new dust-extraction system installed in August 2015. This has greatly improved working conditions for the preparation staff, as there is now good ventilation and lower dust levels in the laboratory, and there is also less dust making its way into the storage section of the department.

The Department of Freshwater Invertebrates, headed by Dr Helen James, assisted by Mr Musa Mlambo, employed two (2) interns to assist with specimen curation and research, a part-time employee to sort samples and Mr Dez Weeks to continue with databasing, while Dr Ferdy de Moor continued as an emeritus curator and researcher. Dr James and her team ran a SASS5 biomonitoring training course 4-7 May 2015 in collaboration with colleagues from GroundTruth Consultants in KwaZulu-Natal (KZN), followed by a SASS5 accreditation day on 8 May; this was attended by delegates from Lesotho, Gauteng, KZN and Eastern Cape.

Dr Midgley, head of Entomology and Arachnology, gave a course on specimen databasing to scientists from the Durban Natural Science and Kwa-Zulu Natal Museums, illustrating the continued collaborations the Albany Museum has with other institutions in the country.

Ms Amy van Wezel, Head Curator of History Department, in addition to putting together the Great War exhibition, dedicated time to the reorganisation of storerooms for better access and preservation, in particular the Art Store, while Mr Barry September, the Assistant to the Curator, dealt with storage of a large donation of negatives.

Ms Fleur Way-Jones, the Curator Emeritus and Genealogist, continued her tireless research in the Genealogical section, answering a large number of complicated queries on a daily basis as well as assisting the department with curation and guidance.

The Anthropology department, led by Ms Phumeza Mntonintshi, participated in the King Coronation Project, assisted by students from Rhodes University Fine Arts department and one from University of the Western Cape History department.



Dr Rob Gess prospecting in Bokkeveld rocks in the Klein Karoo.  
Photo: Serena Gess

The Archaeology Department, led by Ms Celeste Booth, continues with surveys for archaeological sites along the Tsitsikamma and with the Langkloof Archaeological Research Project.

Museum staff have been busy with various educational lessons, tours and lectures throughout the year, many organised by the museums Education Department.

Research staff have also been involved in lecturing at Rhodes University. Dr Prevec gave eight (8) lectures and two (2) practicals on palaeontology for the Geology department. Dr Midgley gave two (2) weeks of lectures to the second year Entomology students. Dr James gave two (2) weeks of lectures and ran two (2) practicals for second year Entomology students, while Dr de Moor ran lectures and practicals for four (4) weeks for the third year class. During the year, two (2) Postgraduates students (MSc and PhD) supervised by Dr James completed their degrees.

Mr Dold lectured a class of Rhodes University Botany students on herbarium practice and ethnobotany for two (2) weeks in February 2015 and took thirty-two (32) students to Fort Fordyce



Delegates from Lesotho, Gauteng, KZN and Eastern Cape who attended a South African Scoring System version 5 (SASS5) biomonitoring training workshop held in May 2015, run by the Department of Freshwater Invertebrates in association with GroundTruth Consultants, KZN. The workshop was followed by SASS accreditation exercise.

Photo: Mark Graham

for a two (2) day specimen collection excursion as part of their training.

## Distinguished Visitors / International Visits

The Herbarium hosted Dr Mario Martinez-Azorin from Alicante University, Spain, who spent a month based at the herbarium, carrying out research on the Hyacinthaceae.

The Department of Entomology and Arachnology hosted Dr Ian Engelbrecht and Dimitri Kambas identified the baboon spider collection during 15-17 July 2015. James Harrison, Mike Picker and Burgert Muller examined specimens during the *XIX Congress of the Entomological Society of Southern Africa*, 12-17 July 2015.

Professor Chris Appleton (emeritus Professor from UKZN) spent a week during October 2015 in the Department of Freshwater Invertebrates, studying the freshwater snail collection.

Dr Helen James and Dr Lyndall Pereira da Conceicao (then still a PhD student) participated in the *XIV International Conference on Ephemeroptera* and *XVIII International Symposium on Plecoptera* at The James Hutton Institute, Aberdeen Scotland 31 May - 5 June 2015, where they interacted with international colleagues and set up new collaborations.

Dr James was elected to be on the Global IUCN red-listing of Ephemeroptera committee along with Dr Ian Campbell from Australia. While in the United Kingdom (UK), Dr James met Professor Mary Kelly-Quinn and Dr Jan-Robert Baars at The University College, Dublin. Dr Baars took her out experience collecting invertebrates in Irish rivers and, and she was excited to hear stoneflies drumming, something still never recorded in African species. Dr James spent five (5) days at the Natural History Museum, London, with Dr Ben Price, looking at specimens, comparing database management, curatorial practices, fundraising approaches and devising joint research projects.

The Archaeology Department was visited by Ms Margaret Ashley-Veall from Oxford University, who is trained in chemistry. She is doing her PhD looking at acquiring samples of mastic (glue) from some of the stone artefacts in the Melkhoutboom collection and artefacts from Plettenberg Bay. These samples have since been analysed to identify the organic material used in making the glues used to haft the stone artefacts as composite tools.

Dr Matt Caruana, an Early Stone Age specialist based at the University of Johannesburg, is continuing excavations at the Amanzi Early Stone Age site near Uitenhage and using material in the Amanzi collection in the Archaeology Department.

## Significant Research Aligned Events

Various fieldtrips were conducted by members of the Earth Sciences Department. Dr Robert Gess located a lag deposit of fish bones at Warmwaterberg, Dr Prevec returned to the Wapadsberg Pass and found more plant fossils, in addition to trying very hard to excavate a large burrow containing several *Lystrosaurus* skeletons. She and her small team comprising Ms Camagu (preparator) and several Rhodes University students will return armed with a rock drill, after being defeated by the very hard matrix surrounding the burrow.

The arrival of Dr Claudia Tocco as a Postdoctoral Research Fellow significantly increased the research diversity in the department of Entomology and Arachnology, and created a positive research atmosphere.

The continuation of Dr Sarah Gess' research on aculeate Hymenoptera has seen her travel for collecting to the United Arab Emirates, showing the regard with which she is held in the international entomological community.

Dr Midgley's research collaborations with Rhodes University continue to bear fruit.

Dr James (Department of Freshwater Invertebrates), was awarded funding for research on freshwater invertebrate diversity in the Kruger National Park, and the first fieldtrip took place in September 2015. Several thousand specimens collected are still being sorted, identified and catalogued. Dr John Midgely from the Museum Entomology department joined Dr James and Mr Mlambo for this fieldtrip.

Dr de Moor continued with his research on photographic studies of flying aquatic insects.

Mr Musa Mlambo was awarded GreenMatter funding for his research on temporary water bodies, and has continued with active research in this field, employing several undergraduate students during their vacations to work on samples.

Dr James was elected as a Board member of the Freshwater Working Group for the international Society for Conservation Biology.

Ms van Wezel did much historical research for the exhibition about Grahamstown during World War One.

The Archaeology Department, headed by Ms Celeste Booth, carried out ongoing research into the early history of the KhoiSan people over the past twenty thousand (20 000) years.

The Anthropology department, led by Phumeza Mntonintshi, was involved in a project on King Zwelonke Sigcawu's Coronation 2015 and Iminombo yakwantu (AmaXhosa family trees).

**Mr Vabaza Manzi**

Manager: Albany Museum

## Books/Chapters/Monographs

**Barber-James, H.**

**Barber-James, H.** (2015) Mayflies - Order Ephemeroptera. In: Griffiths, C., Day, J. and Picker, M. (eds.). *Freshwater Life: A field guide to the plants and animals of southern Africa*. Cape Town: Struik Nature. p.140-151. ISBN: 9781775841029.

**de moor, F.C.**

**de moor, F.C.** (2015) Caddisflies - Order Trichoptera. In: Griffiths, C., Day, J. and Picker, M. (eds.). *Freshwater Life: A field guide to the plants and animals of southern Africa*. Cape Town: Struik Nature. p.228-239. ISBN: 9781775841029.

## Concerts, Exhibitions, Performances, Workshops, Events

**Barber-James, H.M**

**Barber-James, H., Mlambo, M.C., Pereira da Conceicao, L.L. and Roux, R.** Freshwater macroinvertebrates: Guardians of river health. How species diversity can tell us about the health of rivers and streams. *Talkshop for WaterWorld*. SAIAB, SciFest, Grahamstown. South Africa. 18 - 25 March 2015.

**Prevec, R.**

**Prevec, R.** Delegate. *Centre of Excellence in Palaeosciences Seminar series*. Evolutionary Studies Institute, WITS, Johannesburg. South Africa. 25 August 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Gess, F. and Gess, S.**

**Gess, F., Pulawski, W.J. and Gess, S.** (2015) A Revision of the *Rhopaloberus* Species Group of *Bembecinus* Costa (Hymenoptera: Crabronidae: Bembicinae). *Proceedings of the California Academy of Sciences: Series 4*. 62 (7). p.207-256.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Cimi, P.**

**Cimi, P. and Dold, A.P.** (2015) Meeting Abstract: Investigation of the species diversity, density, abundance and distribution of street trees in the Grahamstown area. *South African Journal of Botany*. 98 (2015). p.174.

**De Klerk, W.J.**

McPhee, B.W., Mannion, P.D., **De Klerk, W.J.** and Choiniere, J.N. (2015) High diversity in the sauropod dinosaur fauna of the Lower Cretaceous Kirkwood Formation of South Africa: Implications for the Jurassic-Cretaceous transition. *Cretaceous Research*. 59 (2016). p.228-248.

**Prevec, R.**

Bordy, E.M. and **Prevec, R.** 2015. Lithostratigraphy of the Emakwezini Formation, (Karoo Supergroup), South Africa. *South African Journal of Geology*. 118:307-310.

Muir, R.A., Bordy, E.M. and **Prevec, R.** 2015. Lower Cretaceous deposit reveals first evidence of a post-wildfire debris flow in the Kirkwood Formation, Algoa Basin, Eastern Cape, South Africa. *Cretaceous Research*. 56:161-179.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Barber-James, H.M.**

**Barber-James, H.M., Monaghan, M.T. and Pereira Da Conceicao, L.L.** Is *Prosopistoma pennigerum* (Müller, 1785) only one species? A preliminary molecular assessment. *XIV International Conference on*

*Ephemeroptera and XVIII International Symposium on Plecoptera*. The James Hutton Institute, Aberdeen. Scotland. May 2015.

**Barber-James, H.M. and Pereira Da Conceicao, L.L.** Mayflies as tools for conservation: Examples from the Western Cape, South Africa. *Joint Entomological Society of Southern Africa XIX Congress, Zoological Society of Southern Africa XXXVII Congress*. Grahamstown. South Africa. July 2015.

**Pereira Da Conceicao, L.L. and Barber-James, H.** Paleo-drainage patterns and effects on the distribution of Teloganodidae (Ephemeroptera): A South African example. *XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. The Hutton James Institute, Aberdeen. Scotland. May 2015.

**Barber-James, H.M. and Taylor, C.L.** Investigating disjunct distribution patterns in closely related mayflies between the Palaearctic and Southern Africa regions. *XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. The James Hutton Institute, Aberdeen. Scotland. May 2015.

**Cimi, P.**

**Cimi, P.** Investigation of the species diversity, density, abundance and distribution of street trees in the Grahamstown area. *79th SAMA National Conference*. Durban. South Africa. October 2015.

**de moor, F.C.**

**de moor, F.C. and Bellingan, T.A.** Evaluation of the conservation requirements of Trichoptera from the Tsitsikamma mountain streams in South Africa. *International Symposium on Trichoptera*. Rutgers University, New Brunswick, New Jersey. United States of America. July 2015.

**Gess, R.W.**

Coates, M.I., **Gess, R.W.**, Finarelli, J.A., Criswell, K.E. and Sansom, I.J. Diversity, homoplasy and uncertainty among the earliest sharks. *13th International Symposium on Early and Lower Vertebrates: Royal Society of Victoria*. Melbourne. Australia. August 2015.

**Gess, R.W.** A high latitude Late Devonian (Famennian) lagerstätten from South Africa: an ecological window into marginal marine and terrestrial Gondwanan ecosystems. *13th International symposium on Early and Lower Vertebrates: Royal Society of Victoria*. Melbourne. Australia. August 2015.

**Gess, R.W. and Coates, M.I.** A Middle Devonian (Givetian) fossilised shark jaw from South Africa. *13th International symposium on Early and Lower Vertebrates: Royal Society of Victoria*. Melbourne. South Africa. August 2015.

**Gess, R.W.** The Witteberg Group fossil record and the End Devonian Mass Extinction event. Abstract volume, Cape Karoo. *IMBIZO: Origin and Evolution of the Cape Mountains and Karoo Basin*. Nelson Mandela Metropolitan University (NMMU). Port Elizabeth. South Africa. November 2015.

**Midgley, J.M.**

Midgley, J.M. and Coetzer, W. Collection databases at the Albany Museum: what have we done, what can we still do? *XIX Congress of the Entomological Society of Southern Africa and 37th Congress of the Zoological Society of Southern Africa*. Grahamstown. South Africa. July 2015.

**Prevec, R.**

**Prevec, R.** *Glossopteris* floras of South Africa: an untapped biostratigraphic resource or a lost cause? *Karoo IMBIZO: Origin and Evolution of the Cape Mountains and Karoo Basin*. Nelson Mandela Metropolitan University (NMMU). Port Elizabeth. South Africa. November 2015.

**Prevec, R.** The morphological diversity of South African glossopterid fructifications, and implications for their homologies and evolution. *International Conference on Current Perspectives and Emerging Issues in Gondwana Evolution*. Birbal Sahni Institute for Palaeobotany, Lucknow. India. February 2015.

**van Wezel, A.H.**

**van Wezel, A.H.** Conceptions and implications of a "civilising mission": Roman Imperial views of Germans, Gauls and Britons compared with the perception of amaXhosa by Sir Harry Smith. *Classics Association of South Africa Conference*. Potchefstroom. South Africa. July 2015.

# ELECTRON MICROSCOPY UNIT

The EM Unit is a service facility of the university that houses both light and two (2) electron microscopes.



The two (2) technical staff officers of the unit fulfilled their primary role by assisting academic staff and their students with a variety of research projects that included investigations using nanoparticles, and studies on chemicals viruses, bacteria, whole organisms, animal and plant tissues, and rocks.

The majority of the investigators were from Rhodes University science departments including Botany, Biochemistry and Microbiology, Chemistry, Geology, Ichthyology and Fisheries Science, Pharmacy, and Zoology and Entomology.

In addition external researchers from the Albany Museum, South African Institute of Aquatic Biodiversity (SAIAB), East London Museum, University of Fort Hare (UHF) and Nelson Mandel Metropolitan University (NMMU) all made use of the facilities. In this way the unit made a significant contribution to the research output of the university, and the Eastern Cape.

**Professor Alan N Hodgson**

Head of Department

Postdoctoral Fellow in the Department of Zoology and Entomology, Dr Tatenda Dalu, using the Scanning Electron Microscope (SEM).

*Photo: Electron Microscopy Unit*

## Peer Reviewed Subsidy-Earning Journal Research Publications

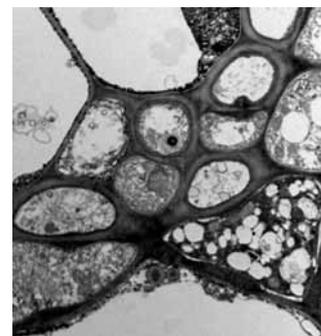
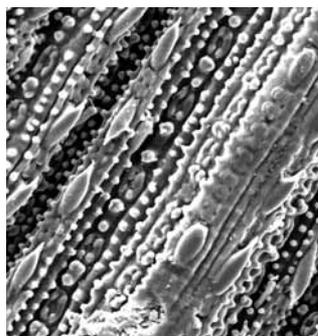
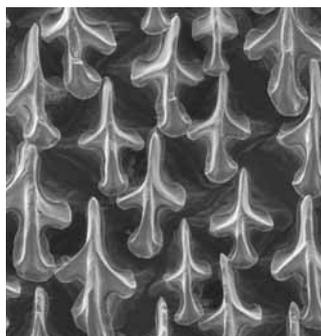
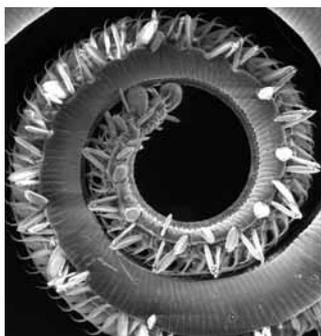
**Pinchuck, S.C. and Hodgson, A.N.**

**Pinchuck, S.C., Allanson, B.R. and Hodgson, A.N.** (2015) Evolutionary retention of defensive lateral pedal glands in the smallest *siphonariid* limpet (Gastropoda: Pulmonata). *African Zoology*. 50 (4). p.327-330.

## Peer-reviewed Proceedings

**Pinchuck, S.C., Randall, M. and Hodgson, A.N.**

**Pinchuck, S.C., Randall, M. and Hodgson, A.N.** A Preliminary Description of the Perinotal Glands of *Peronia peronii* (Mollusca: Orchidiidae). *MSSA 2015: 53rd Annual Conference of MSSA*. St George's Hotel, Pretoria. South Africa. November 2015.



(Left to Right) Scanning Electron Microscope (SEM) images of an insect proboscis, shark skin, leaf surface and a plant vascular bundle.

*Photo: Electron Microscopy Unit*

# INSTITUTE FOR ENVIRONMENTAL BIOTECHNOLOGY

Institute for Environmental Biotechnology (EBRU) continued research and development of sustainable remedial biotechnologies for industry supported by grants awarded to Professor A. K. Cowan from Anglo American Coal, the Water Research Commission and the Technology Innovation Agency.

Patent applications for the treatment of mine wastewater and the bacterial degradation of bituminous coal discard and petroleum hydrocarbons are complete.

A technical report titled '*Evaluation of integrated algae pond systems for municipal wastewater treatment: The Belmont Valley WWTW pilot-scale IAPS case study*', the culmination of a three (3)-year study and authored by EBRU researchers, was published by the Water Research Commission.

Additionally, several scientific papers on aspects relating to the bioremediation of domestic sewage, waste coal, and hydrocarbon cleanup will be published in international journals.

Studies on the in situ bioremediation of South African coal discard dumps was accepted by the Australian Centre for Geomechanics and will be published in the compilation "*Mine Closure 2016*".

The final technical report on the outcomes of the Anglo American Coal sponsored project 'Fungcoal' is available from either EBRU or Anglo American Coal.

Professor Cowan was invited by the editors of '*The Encyclopedia of Food and Health*' to contribute a chapter on avocado. He also completed the first extensive overview of seven carbon sugars in plants, algae and fungi which has been published in the journal, *Phytochemistry Reviews*.

Department of Science and Technology (DST) funding was awarded to EBRU (Professor A. K. Cowan) via the Water Research Commission to manage the design, construction, and implementation of a second commercial scale IAPS. On this occasion an amount of R13 million was awarded for the project destined for Umjindi Local Municipality (Barberton).

A further Water Research Commission sponsored project led by Mr. R. Laubscher on the anaerobic digestion of faecal sludge for the production of "biofertilizers" was successfully completed.

Additional projects related to bioremediation of mine wastewater, biological degradation of hydrocarbons, commercial-scale production of biofertilizers, and the influence of reactive oxygen species on irrigation and treated waste water are currently the focus areas.

## Postgraduates / Graduations

Four (4) Postgraduate students were registered for higher degrees in Environmental Biotechnology at EBRU in 2015 - three (3) PhDs and one (1) MSc.

Ms. Sylvie Tebitendwa continued her research towards a PhD on the biotechnology and performance of hybrid constructed wetlands



PhD candidate Sylvie Tebitenwa monitoring plant performance.  
Photo: EBRU

for wastewater treatment sponsored by the Organization for Women in Science in the Developing World (OWSD).

Mr Jacob Olewale, a PhD candidate, continued his study of the possible mechanisms involved in the bacterial breakdown of coal discard.

Ms Taobat Jimoh joined EBRU as a MSc candidate to study the generation of products of value formed during algae-based wastewater treatment.

Oghenekume Gerald Edeki was awarded a PhD degree for his thesis, "*Bacterial degradation of fossil fuel waste in aqueous and solid media*", supervised by Professor A. Keith Cowan.

## Significant Research Aligned Events

Researchers and students represented EBRU at several international and national conferences during 2015. Professor Cowan addressed the 2nd International Conference on Food and Biosystems Engineering in Mykonos, Greece.

Mr Laubscher and several students participated in and addressed The FSM3, 3rd International Faecal Sludge Management Conference. in Hanoi, Vietnam.

Mr Olewale presented a poster paper at the Third Annual LaRSSA Conference: *Productive Value from Rehabilitated*

*Land held at Glenburn Lodge, Muldersdrift, South Africa.*

Ms Sylvie Tebitendwa presented aspects of her work at the 4th Young Water Professionals-2A Biennial Conference, CSIR Convention Centre, Pretoria, South Africa in November 2015 and, at the International Conference on Sustainable Water Management. Murdoch University, Perth, Australia in December 2015.

EBRU continues to engage both government and industry to further its research and the training of competent environmental biotechnologists and attended workshops/strategy meetings hosted by the Technology Innovation Agency and the South African National Energy Development Institute.

**Professor A. Keith Cowan**

Director: EBRU

## Books/Chapters/Monographs

**Cowan, A.K.**

**Cowan, A.K.** and Wolstenholme, B.N. (2015) Avocado. In: Caballero, B., Finglas, P. and Toldrá, F. (eds.). *The Encyclopedia of Food and Health*. Oxford: Academic Press. p.294-300. ISBN: 9780123849472.

## Other Publications

**Cowan, A.K., Mambo, M.P., Westensee, D.K. and Render, D.S.**  
**Cowan, A.K., Mambo, M.P., Westensee, D.K. and Render, D.S.** (2015). In: *Evaluation of integrated algae pond systems for municipal wastewater treatment: The Belmont Valley WWTW pilot-scale IAPS case study*. South Africa: Water Research Commission. ISBN 978-1-4312-0732-9

## Patents

**Cowan, A.K., Edeki, O.G., Igbinigie, E. and Isaacs, M.**  
**Cowan, A.K., Edeki, O.G., Igbinigie, E. and Isaacs, M.** (2015) *Treatment of a hydrocarbon component*. South Africa. 2015. 2015/02748.

**Cowan, A.K., Edeki, O.G., Madikiza, L., Sekhohola, L.M. and Isaacs, M.**

**Cowan, A.K., Edeki, O.G., Madikiza, L., Sekhohola, L.M. and Isaacs, M.** (2015) *Treatment of a coal component*. South Africa. 2015. 2015/02749.

**Isaacs, M., Render, D.S. and Cowan, A.K.**

**Isaacs, M., Render, D.S., Persson, U.T. and Cowan, A.K.** (2015) *The treatment of waste water*. South Africa. 2015. 2015/03312.

## Peer-reviewed Proceedings

**Cowan, A.K. and Mlambo, P.Z.**

**Cowan, A.K. and Mlambo, P.Z.** Algae-based wastewater treatment: Opportunities in food production and biosystems engineering. *2nd International Conference on Food and Biosystems Engineering*. Mykonos Island, Mykonos Town. Greece. May 2015.

**Cowan, A.K. and Mlambo, P.Z.** Proceedings of 2nd International Conference on Food and Biosystems Engineering. *2nd International Conference on Food and Biosystems Engineering (FABE2015)*. Mykonos Island, Mykonos. Greece. May 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Laubscher, R.K.**

**Madikizela, P., Laubscher, R.K., Tandlich, R. and Maatoug, M.** Faecal sludge management in South Africa: a literature review. *The FSM3, 3rd International Faecal Sludge Management Conference*. Hanoi. Vietnam. January 2015.

**Madikizela, P., Laubscher, R.K., Ngqwala, N.P. and Tandlich, R.** Reuse of faecal sludge for fertiliser in South African subsistence agriculture. *4th YWP ZA Biennial and 1st African YWP Conference*. CSIR International Convention Centre, Pretoria. South Africa. November 2015.



MSc candidate Taobat Jimoh harvesting water samples.  
Photo: EBRU

**Laubscher, R.K. and Tandlich, R.** Disaster management and on-site urban sanitation in South Africa. *The FSM3, 3rd International Faecal Sludge Management Conference*. Hanoi. Vietnam. January 2015.

**Laubscher, R.K. and Tandlich, R.** Disaster Management and On-Site Urban Sanitation in South Africa. *The FSM3, 3rd International Faecal Sludge Management Conference*. Hanoi. Vietnam. January 2015.

**Madikizela, P. and Laubscher, R.K.**

**Madikizela, P., Laubscher, R.K., Ngqwala, N.P. and Tandlich, R.** The applicability of the pit latrine faecal sludge from Hlalani Township, Grahamstown as a fertilizer. *The 2015 Academy of Pharmaceutical Sciences of South Africa/SAAPI Conference*. Johannesburg. South Africa. September 2015.

**Olawale, J.T. and Cowan, A.K.**

**Olawale, J.T. and Cowan, A.K.** Determination and quantification of coal-degrading bacte. *Third Annual LaRSSA Conference: Productive Value from Rehabilitated Land*. Glenburn Lodge, Muldersdrift. South Africa. September 2015.

**Tebitendwa, S.M. and Cowan, A.K.**

**Tebitendwa, S.M. and Cowan, A.K.** Pollutant removal efficiency of vertical-horizontal subsurface flow hybrid constructed wetlands in wastewater treatment. *4th Young Water Professionals -2A Biennial Conference*. CSIR Convention Centre, Pretoria. South Africa. November 2015.

**Tebitendwa, S.M. and Cowan, A.K.** Pollutant removal efficiency of vertical-horizontal subsurface flow hybrid constructed wetlands in wastewater treatment. *International Conference on Sustainable Water Management*. Murdoch University, Perth. Australia. December 2015.

# INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA

The highlights of 2015 were the number of graduates from the Masters in Creative Writing (MACW) programme and the Bachelor of Education teacher education programme. The MACW graduated seven (7) students, four (4) with distinctions, while the BEd graduated nineteen (19), with one (1) distinction.

Among the firsts for the year were fifteen (15) accredited academic publications arising from the MACW colloquium in 2014 and the first Postgraduate, Honours-level teacher education module, taught in collaboration with Professor Pam Maseko, a colleague in the African Languages Division.

Further good news was confirmation that the MACW was granted a further three (3) year Andrew W. Mellon Foundation award to support the Writers-in-Residence programme and a bursary programme for students. In addition, the Sishen Iron Ore Company Community Development Trust renewed its support of the teacher education programme in the Kuruman area.

Staff news for the year included the Director, Professor Monica Hendricks, going on a three (3) month sabbatical to research and develop a curriculum for a professional Masters in Education course and edit a book on the history of the Institute. Dr Madeyandile Mbelani was awarded an National Research Foundation (NRF) Thuthuka grant, while Ms Ntombekhaya Fulani graduated with her MEd.

## Postgraduates / Graduations

As above, the MACW graduated seven (7) students, four (4) with distinctions, while the BEd graduated nineteen (19), with one (1) distinction.

## Distinguished Visitors / International Visits

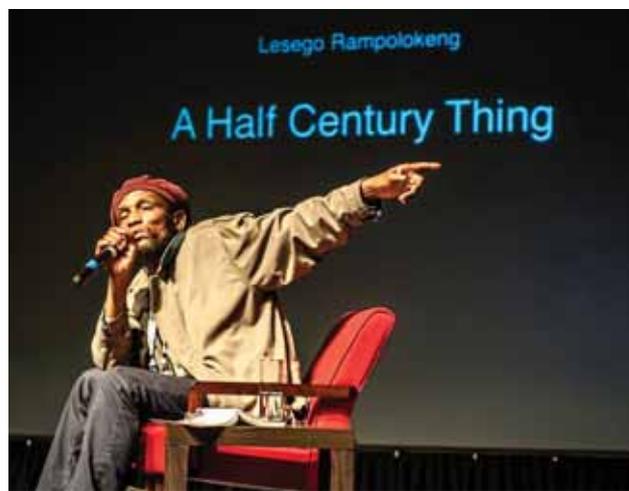
- Professor Kathleen Heugh, University of South Australia, Visiting International Scholar.
- Dr Pemmy Majodina, MEC for Sport, Recreation, Arts and Culture.
- Cameron Pierce, Mellon Writer-in-Residence.

## Significant Research Aligned Events

The most significant research-aligned event for the year was hosting Professor Heugh, who was a most generous colleague, sharing her insights on our developing MEd curriculum, and also her ideas with regard to university transformation. She also delivered two (2) thought-provoking lectures to the broader Rhodes University community and delivered a keynote address at the annual Multilingualism Awareness Colloquium.

**Associate Professor: Monica Hendricks**

Director: ISEA



Lesego Rampolokeng's book launch of his 8th collection of poetry, *A Half Century Thing*.  
Photo: ISEA

Lesego Rampolokeng's 8th collection of poetry, *A Half Century Thing*.  
Photo: ISEA



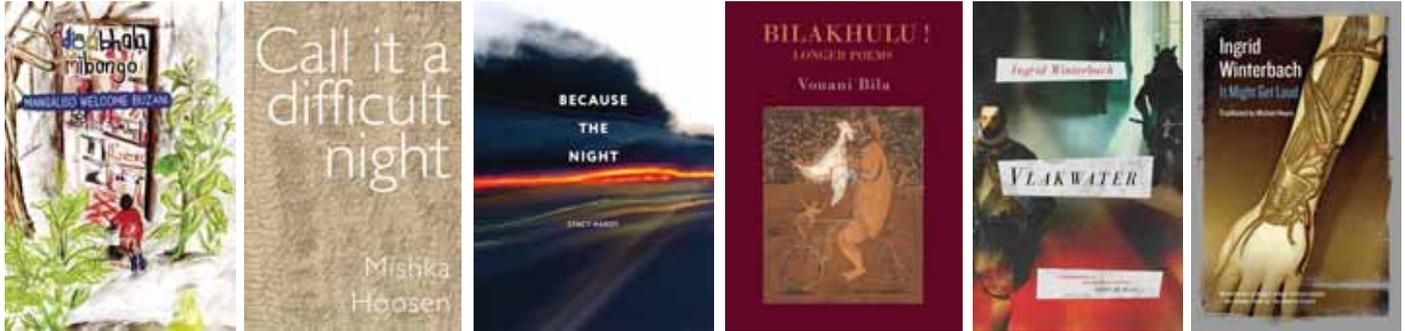
## Books/Chapters/Monographs

**Crampton, H.**  
**Crampton, H.** (2015) *Dagga: A Short History (then, now & just now)*. Johannesburg: Jacana Media (Pty) Ltd. ISBN: 9781431422159.

**Leff, C.W.**  
**Leff, C.W.** (2015) Gravesites in the Stories of Herman Charles Bosman: An Exploration of History, Memory, Ritual, Identity, and Landscape. In: Han, J.J. and Triplett, C.C. (eds.). *Studies on Themes and Motifs in Literature: The Final Crossing: Death and Dying in Literature*. Frankfurt: Peter Lang. p.9-22. ISBN: 9781433130151.

## Concerts, Exhibitions, Performances, Workshops, Events

**Mann, C.M.**  
**Mann, C.M.** seminar. The poetry of Belonging: episodic memory and the shades. *The poetry of Belonging: episodic memory and the shades*. University of the Witwatersrand (WITS), Gauteng. South Africa. 21 July 2015.  
**Mann, C.M.** Seminar. Rudiments of Grace. *Meditation Centre*. Meditation Centre, London. United Kingdom. 22 October 2015.



(In order of appearance) Former MACW student and current teacher, Mangaliso Buzani won the Poetry Award at the South African Literary Awards, along with two other poets, for his anthology of isiXhosa poems, *Ndisabhala Imibongo* | Former MACW student Mishka Hoosen's first book, *Call it a difficult night*, was published in 2015 | MACW teacher Stacy Hardy's *Because the Night* is a collection of short stories published by Pocko in 2015 | Former MACW student and teacher Vonani Bila's collection of poems *Bilakhulu!* was published in 2015 by Deep South Publishing | Former MACW teacher Ingrid Waterbach published *Vlakwater* and *It might get Loud* in 2015.  
Photo: ISEA

**Mann, C.M.** Seminar. The Poetry of Belonging: episodic memory and the shades. *The Poetry of Belonging: episodic memory and the shades*. Rhodes University English Department, Grahamstown. South Africa. 13 August 2015.

**Mann, C.M.** Seminar. Rudiments of Grace. *English Department Seminar*. University of South Africa (UNISA), Pretoria. South Africa. 9 September 2015.

**Mann, C.M.** Seminar. The Poetry of Belonging: episodic memory and the shades. *English Department Seminar*. University of Pretoria, Pretoria. South Africa. 10 September 2015.

**Mann, C.M.** Seminar. The Poetry of Belonging. *English Lit. students*. University of Pretoria, Pretoria. South Africa. 24 September 2015.

**Mann, C.M.** Seminar. An Introduction to African Spirituality. *Meditation Centre*. London. United Kingdom. 24 September 2015.

**Mann, C.M.** Seminar. Poetry of Belonging. *English Department Seminar*. University of Northumbria, Norwich. England. 7 October 2015.

**Mann, C.M.** Seminar. Epiphanies. *St Edmund Hall*. St Edmund Hall, Oxford University, Oxford. United Kingdom. 13 November 2015.

**Mann, C.M.** Seminar. Rudiments of Grace. *Lit. and Theory Centre*. Glasgow University, Glasgow. UK. 16 October 2015.

**Willan, B.**

**Willan, B.** Public Lecture. *Why remember Sol Plaatje?* Public lecture given at Sol Plaatje University. Sol Plaatje University, Kimberley. South Africa. 9 July 2015.

## Creative Writing

**Leff, C.W.**

**Leff, C.W.** (2015) clinic day. In: Skinner, D.R. and Schonstein, P. (eds.). *clinic day*. 2nd Ed. Cape Town: African Sun Press.

**Leff, C.W.** (2015) left in the dark. In: *left in the dark*. 15th Ed. Johannesburg: University of the Witwatersrand.

**Mann, C.M.**

**Mann, C.M.** (2015) St Edmund Hall Wren. In: Glasser, B. (ed.). *St Edmund Hall Wren*. Oxford: St Edmund Hall.

**Mann, C.M.** (2015) Foreword. In: Davids, D. (ed.). *Foreword*.

**Mann, C.M.** (2015) Warships in Simon's Town Harbour. In: Skinner, D.R. and Schonstein, P. (eds.). *stanzas*. Cape Town: African Sun Press.

**Mann, C.M.** (2015) A Graduation Poem for a Son. In: *The Parliament Within*.

**Mann, C.M.** (2015) Cookhouse Station Grahamstown Bougainvilleas. *English Department Handbook*. Durban: UKZN.

**Mann, C.M.** (2015) The Ballad of Braamfontein. *English for Success*. Oxford University Press.

**Mann, C.M.** (2015) St Edmund Hall Wren. In: Gasser, B. (ed.). *Edmund Hall Magazine*. 18th Ed. Oxford: St Edmund Hall.

**Mann, C.M.** (2015) Atlantis. In: Horder, T. (ed.). *Atlantis*.

**Mann, C.M.** (2015) Love and Evolution. In: Unknown, U. (ed.). *Love and Evolution*.

## Distinguished Visitors

**Manaka, M.R.**

**Mr MR Manaka.** South African artist completing MA in Creative Writing at Rhodes University, Johannesburg, South Africa. Interactive workshops: *To create a love for reading and instill the passion of writing; to look at texts that are relevant to young people's living experiences*. September 2015.

## Other Publications

**Willan, B.**

**Willan, B.** (2015) Fighting for Liberty and Justice: Charles Calvert and James Kerridge. In: *Diamond Fields Advertiser (Kimberley)*. Johannesburg: Independent News and Media.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Venter, E.**

**Venter, E.** (2015) Olga Kirsch: 'n Vreemde boom op hierdie aarde. Werkwinkel. *Journal of Low Countries and South African Studies*. 9 (2). p.17-28.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Berold, R.**

**Berold, R.** (2015) What do Writing Students Need? The Rhodes Masters in Creative Writing. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.139-144.

**Bila, V.**

**Bila, V.** (2015) Building Socially Committed Writers through the Timbila Writing Model. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.95-102.

**Diadla, A.**

**Diadla, A.** (2015) Demystifying Writing and the Democratisation of the Story and Knowledge. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.86-94.

**Hardy, S.**

**Hardy, S.** (2015) Multilingualism in Creative Writing. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.159-164.

**Hirson, D.**

**Hirson, D.** (2015) Ukutshona Kwelanga: The Drowning of the Sun: Introducing Translation into Creative Writing Courses. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.154-158.

**Holland, N.**

**Holland, N.** (2015) On Creative Ambivalence. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.151-153.



Children from the school Little Red Dragon receiving the books donated by a speaker at Wordfest.  
Photo: ISEA

**Mann, C.M.**

Mann, C.M. (2015) Poem: The death of Keats. *Literator*. 36 (1). p.1.

**McNeil, J.**

McNeil, J. (2015) The Rhetoric of the Prose Fiction Workshop - an Analysis of Teaching Methods at the University of East Anglia. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.132-138.

**Munden, P.**

Munden, P. (2015) (In and) Out with the Academy. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.190-198.

**Rampolokeng, L.**

Rampolokeng, L. (2015) What Gets Me Teaching, and How. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.199-206.

**Wessels, P.**

Wessels, P. (2015) To Practise What we Teach. *Current Writing: Text and Reception in Southern Africa*. 27 (2). p.145-150.

**Willan, B.**

Willan, B. (2015) What 'Other Devils'? The Texts of Sol T. Plaatje's Mhudi Revisited. *Journal of Southern African Studies*. 41 (6). p.1331-11347.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Willan, B.**

Willan, B. What 'Other Devils'? The texts of Sol Plaatje's Mhudi Revisited. *Southern African Historical Society Conference*. Stellenbosch University, Stellenbosch. South Africa. July 2015.

Willan, B. Sol T. Plaatje and Birth of a Nation: opposing the 'cinematographic calamity' in three continents. *Commonwealth Fund Conference on American History, In the Shadow of The Birth of a Nation: A Centennial Assessment of Griffith's Film*. University College, London. United Kingdom. June 2015.



(In order of appearance) The 2015 editions of *New Coin*, a prestigious South African poetry journal which was founded in 1965 by Guy Butler and Ruth Harnett and published twice a year by the Institute for the Study of English in Africa (ISEA) | Publications from ISEA also included three new volumes of *English in Africa*, a journal founded in 1974 to provide a forum for the study of African literature in English; one new volume of the annual journal *Shakespeare in Southern Africa*, and a new Secondary Schools' Language Project broadsheet *Writing is Fun*  
Photo: ISEA

# INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH (ISER)

The Institute of Social and Economic Research (ISER), which includes the Neil Aggett Labour Studies Unit (NALSU), was in 2015 led by Dr John Reynolds, as acting Director during Associate Professor Robert Van Niekerk's sabbatical.



The ISER launched its Vuyisile Mini Winter School series in 2015.  
Photo: Valance Wessels

During 2015, the academic programme of ISER was further consolidated around the themes of social policy and labour studies. Contributions to a range of national and international research initiatives continued, an increased focus on academic publications became evident, our intake of doctoral students was increased on the back of our new systems of student support, and we appointed a Postdoctoral Research Fellow.

We initiated our labour studies seminar series in partnership with a range of academic departments (Sociology, History, and Economics and Economic History) and demonstrated not only our commitment to building labour studies within the university at large, but also the value of collegial planning and engagement.

The ISER was active in an integrated manner in all three (3) areas of academic work that are recognised by Rhodes University, *viz.* research, teaching and learning, and community engagement. During 2015, ISER not only worked on existing research projects, but also laid the groundwork for new research initiatives, including exploration of the interface between labour and social policy, and engagement with the history of economic policy in South Africa and our experience of social compacting (particularly health policy and provisioning).

## Postgraduates / Graduations

ISER accepted five (5) new doctoral students in 2015, two (2) of whom were awarded NALSU Doctoral Scholarships (Ms Reesha

Kara and Mr Edward Cottle). ISER also celebrated the graduation of one (1) of the recipients of a NALSU Master's Scholarship, Mr Kanyiso Ntikinca.

## Distinguished Visitors / International Visits

ISER hosted a range of international (including South African) scholars at a colloquium between the 22-24 September 2015 which re-engaged the seminal theoretical and conceptual work of Harold Wolpe on race, class and the state. The invited scholars, all of whom presented papers, included Professor Ben Fine (Professor of Economics at the University of London and ISER Visiting Professor), Professor Eddie Webster (Professor Emeritus University of the Witwatersrand and ISER Visiting Professor), Professor Gavin Williams (ISER Visiting Professor), Professor Lungisile Ntzebeza (AC Jordan Chair of African Studies, University of Cape Town), Professor Elaine Unterhalter (Professor of Education and International Development, Institute of Education, University College London), Professor Fred Hendricks (Professor Emeritus, Rhodes University), Professor Adam Habib (Vice-chancellor,

University of the Witwatersrand), Professor Greg Ruiters (Professor of Public Policy, University of Western Cape), Professor David Cooper (Professor Emeritus, University of Cape Town), and Professor Martin Legassick (Professor Emeritus, University of Western Cape), Dr John Reynolds and Professor Robert Van Niekerk managed and also presented papers at the colloquium event.

A proposal for a book edited by Dr Reynolds, Professor Van Niekerk and Professor Ben Fine, entitled *Race, class and the post-apartheid democratic state* emerged from the colloquium and will be finalized for publication in 2016. The colloquium was organised with the support of the Harold Wolpe Trust, and was co-funded by the Norwegian Government and NALSU.

ISER was privileged to host liberation struggle veteran Andrew Mlangeni who gave the *sixth Dr AB Xuma Memorial Lecture* in October 2015 on the subject '*From Robben Island to Freedom: The New Society We Fought For and What Must Still be Done to Achieve it*'.

The Second Neil Aggett Labour Studies Lecture was delivered by Professor Edward Webster on 21 September 2015. It was entitled '*The death of Neil Aggett: unions and politics, then and now*'.

A tribute to the venerable dissident poet from the Cape Flats James Matthews organised in partnership with the Institute for the Study of English in Africa (ISEA) and the English Department. The poet, Wally Serote participated in this tribute.

## Significant Research Aligned Events

Social policy research consisted mainly of the development of papers conceived within the following multi-year research projects:

- i. Developmental States, Social Policy and Social Compacts: Global Opportunities, National Actors and Effective Institutions (led by Professor Ben Fine of SOAS and Professor Trudie Knijn of the University of Utrecht);
- ii. Understanding health reform and policy implementation in a democratic South Africa: the medical profession's response to the proposal for a universal system of health care (led by Professor Rebecca Surender of the ISER);
- iii. Effecting Social Citizenship through Social Policy: Policies, Contestations and Practices (co-led by Professor Robert Van Niekerk of the ISER and Professor Yusuf Sayed, ISER Research Associate and Director of the Centre for International Teacher Education at the Cape Peninsula University of Technology);
- iv. The South African component of a study on Poverty and Inequality and the Politics of Social Policy in BRICS countries (co-convened by Professors Robert Van Niekerk of the ISER and Steven Friedman and Peter Alexander);
- v. Economic and Social Policy-Making in South Africa 1940-1996 (co-led by Professor Vishnu Padayachee of University of the Witwatersrand and Professor Robert Van Niekerk of the ISER);

- vi. The Unresolved National Question in Left Thinking: Hidden Voices, Unpublished Works 1950s to 1990 (convened by Professor Edward Webster, Director of the Chris Hani Institute and ISER Visiting Professor).

At the request in 2015 of the board of the Harold Wolpe Memorial Trust (of which Professor Van Niekerk is a board member), ISER was asked and agreed to be a custodian of the intellectual legacy of Harold Wolpe and to establish a programme of academic work and associated public engagement activities consistent with his legacy of critically engaged scholarship and within the bounds of the academic programme of ISER.

ISER also jointly hosted the annual Harold Wolpe Memorial Lecture in October 2015 with colleagues at University of the Witwatersrand (WITS) (Professor Imraan Valodia, Professor Vishnu Padayachee and the Vice-Chancellor, Professor Adam Habib). The lecture was presented by Dr Carlos Lopes, Secretary-General of the UN Economic Commission for Africa, and was entitled *Diagnosing African Politics*.

The new-look ISER Working Paper Series was launched in 2015, and the following four (4) working papers - all of which focused on labour studies - were published:

- Webster, E. (2015). "Labour After Globalisation: Old and New Sources of Power". *ISER Working Paper No. 2015/1*. Grahamstown: ISER, Rhodes University.
- Visagie, J. (2015). "A question of inclusivity: How did average incomes change over the first fifteen years of democracy?" *ISER Working Paper No. 2015/2*. Grahamstown: ISER, Rhodes University.
- Rogan, M and Reynolds, J (2015). "Schooling inequality, higher education and the labour market: evidence from a graduate tracer study in the Eastern Cape, South Africa". *ISER Working Paper No. 2015/3*. Grahamstown: ISER, Rhodes University.
- Rogan, M and Reynolds, J (2015). "The Working Poor in South Africa, 1997-2012". *ISER Working Paper No. 2015/4*. Grahamstown: ISER, Rhodes University.

*ISER Working Paper No. 2015/3* was also released as a working paper of the national *Labour Market Intelligence Partnership*, which is managed by the Human Sciences Research Council (HSRC) and funded by the Department of Higher Education and Training.

*ISER Working Paper No. 2015/4* will also be released by the *National Minimum Wage Research Initiative*, which is managed by the Corporate Strategy and Industrial Development (CSID) in the School of Economic and Business Sciences at the University of the Witwatersrand. All ISER Working Papers can be downloaded from the ISER website ([www.ru.ac.za/iser](http://www.ru.ac.za/iser)).

A journal article based on *ISER Working Paper 2015/3* was accepted for publication by the journal *Development Southern Africa*, and was developed following a presentation to the *International Council on Education for Teaching 59th World Assembly* in Japan in July 2015.

A journal article based on *ISER Working Paper 2015/4* was submitted to the International Labour Review following a presentation to the *World Social Science Forum 2015* in Durban in September 2015 - the theme of the WSSF 2015 was Transforming Global Relations for a Just World. Dr Reynolds also presented the Working Paper at the first seminar of the *National Minimum Wage Research Initiative* at the University of the Witwatersrand on 24 August 2015.

Work on three (3) book proposals was undertaken with a view to submission to potential publishers in early 2016:

- i. a book proposal for the edited volume entitled *Race, class and the post-apartheid democratic state* that emerged from the Harold Wolpe Colloquium,
- ii. a book proposal by Dr Reynolds entitled *Challenging hegemony? A provincial perspective on the limits of policy challenge in the South African state*, and
- iii. a book proposal by Dr Rogan based on work undertaken in support of Theme 5 of the Labour Market Intelligence Partnership.

Other research and community engagement work included the following:

- i. work on the series of four papers on social policy and work, funded by the *Research Project on Employment, Income Distribution and Inclusive Growth* (REDI) commenced, with the view to submission in the first half of 2016;
- ii. completion and submission to the HSRC of the final report for the graduate tracer study, followed by an ISER Working Paper, a journal article and an international conference presentation, as described above;
- iii. Dr Rogan took over leadership of Theme 5 of the LMIP, and formally briefed the Minister of Higher Education and Training, Dr Blade Nzimande, at an LMIP briefing on 31 March 2015 (he also presented the graduate tracer findings at a dedicated public seminar hosted by DEDEAT, the Eastern Cape Socio-Economic Consultative Council (ECSECC) and NALSU in East London on 16 November 2015);
- iv. the research plan for the review of the centralisation of cleaning services at Rhodes University was developed under the leadership of Dr John Reynolds, and was approved by the *Review Committee on the Centralisation of Cleaning Services* at Rhodes University and by the Rhodes University Ethical Standards Committee (RUESC), with fieldwork scheduled for 2016;
- v. a visit by DataFirst (based at the University of Cape Town) to Rhodes University was facilitated by Dr Reynolds (a member of the DataFirst External Advisory Board) and agreement was reached on the digitisation of the data collected during the Keiskammahoek Rural Survey in the 1950s as part of a national initiative to recover historical data sets (DataFirst undertook the digitisation work at Rhodes University in November 2015);

- vi. Dr Rogan again contributed to the bi-annual *Eastern Cape Economic Review*, which is a publication brought out by DEDEAT, by writing the labour market section of that publication and editing the publication itself;
- vii. Dr Reynolds continued to represent Rhodes University in its engagements with the Makana Municipality, which included participation in the Work Streams established by the Administrator appointed by the Eastern Cape Provincial Government to manage the municipality, and facilitation of a workshop of all Work Stream members and the municipal council on 20 May 2015;
- viii. Dr Reynolds also facilitated the Makana Environmental Indaba on 24 June 2015; (vii) Drs Rogan and/or Reynolds continued to participate in meetings of the Provincial Human Resource Development Council, which were chaired by the Eastern Cape MEC for Education; and
- ix. Dr Reynolds participated in a workshop on Swedish-South African experiences of social compacting in the Residence of the Swedish Ambassador to South Africa.

**Dr John Reynolds**

Acting Director: ISER

## Books/Chapters/Monographs

**Moller, V.**

Roberts, B.J., Gordon, S.L., **Moller, V.** and Struwig, J. (2015) Shadow of the Sun - The Distribution of Wellbeing in Sub-Saharan Africa. In: Glatzer, W., Camfield, L., Moller, V. and Rojas, M. (eds.). *Global Handbook of Quality of Life: Exploration of Well-Being of Nations and Continents*. Netherlands: Springer. p.531-568. ISBN: 9789401791779.

Glatzer, W., Camfield, L., **Moller, V.** and Rojas, M. (ed.) (2015) *Global Handbook of Quality of Life: Exploration of Well-Being of Nations and Continents*. Netherlands: Springer. ISBN: 9789401791779.

**Surender, R.**

**Surender, R.** (2015) "South Africa: A different welfare and development paradigm?" In Hasmath, R. (ed.) *Inclusive Growth, Development and Welfare Policy: A Critical Assessment*. London: Routledge.

**Surender, R.**, Matsuoka, K.Y., and Ovseiko, P.V. (2015) "The Health System of the United Kingdom". In: *Reference Module in Biomedical Sciences*. Elsevier.

**Surender, R.**, and Urbina, M. (2015) "New kids on the block? The implications of the BRICS alliance for global social governance". In Kaasch, A. & Martens, K. (eds.) *Actors & Agency in Global Social Governance*. Oxford: Oxford University Press.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Alexander, J.**

**Alexander, J.**, Cocks, M.L. and Shackleton, C.M. (2015) The Landscape of Childhood: Play and Place as Tools to Understanding Children's Environmental Use and Perceptions. *HUMAN ECOLOGY*. 43 (2015). p.467-480.

**Moller, V.**

**Moller, V.** and Roberts, B.J. (2015) South African Hopes and Fears Twenty Years into Democracy: A Replication of Hadley Cantril's Pattern of Human Concerns. *Social Indicators Research*. 2015 (2015). p.1-31.

**Rogan, M.**

**Rogan, M.** (2015). "Gender and Multi-Dimensional Poverty in South Africa". *Social Indicators Research*. 126 (3): 987-1006. Online access.

Posel, D. and **Rogan, M.** (2015). "Measured as Poor versus Feeling Poor in South Africa". *Journal of Human Development and Capabilities*. 17 (1): 55-73. Online access.

**Surender, R.**

Zembe, W., **Surender, R.**, Doherty, T., Sanders, D., Jackson, D. (2015). "The experience of cash transfers in alleviating childhood poverty in South Africa: Mothers' experiences of the Child Support Grant". *Global Public Health*, Feb. 2015. DOI: 10.1080/17441692.2015.1007471

Leon, N., **Surender, R.**, Bobrow, K., Muller, J. and Farmer, A. (2015). "Improving treatment adherence". *BMC Family Practice*, 16:80. DOI: 10.1186/s12875-015-0289-7

**Wright, G. and Noble, M.**

Ntshongwana, P., **Wright, G.**, Barnes, H. and **Noble, M.** (2015). "Lone motherhood in South Africa: some methodological challenges and policy imperatives". *South African Review of Sociology*, 46(4): 80-99.

McLennan, D., **Noble, M.** and **Wright, G.** (2015). "Developing a spatial measure of exposure to socio-economic inequality in South Africa". *South African Geographical Journal*. DOI: 10.1080/03736245.2015.1028980

**Wright, G.**, Neves, D., Ntshongwana, P. and **Noble, M.** (2015). "Social assistance and dignity: South African women's experiences of the Child Support Grant". *Development Southern Africa*, 32(4): 443-457.

## Peer-reviewed Proceedings

**Reynolds, J.H. and Rogan, M.**

**Reynolds, J.H.** and **Rogan, M.** Schooling inequality, higher education and the labour market: evidence from a graduate tracer study in the Eastern Cape, South Africa. *International Council on Education for Teaching (ICET) 59th World Assembly: Challenging disparities in education*. Naruto University of Education, Tokushima. Japan. June 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Surender, R., Alfery, L. and Van Niekerk, R.**

**Surender, R., Alfery, L., and Van Niekerk, R.** (2015) "Moving towards universal health coverage in South Africa: the role of private sector GPs", *Public Health Association of South Africa*, Issue 3.

## Other Publications

**Rogan, M. and Reynolds, J.**

**Rogan, M.** and **Reynolds, J.** (2015). "The working poor in South Africa, 1997-2012". *ISER Working Paper No. 2015/4*. Grahamstown: Institute of Social and Economic Research, Rhodes University [Also to be published as a National Minimum Wage Research Initiative (NMW-RI) Working Paper]

**Rogan, M.** and **Reynolds, J.** (2015). "Schooling inequality, higher education and the labour market: evidence from a graduate tracer study in the Eastern Cape, South Africa". *ISER Working Paper No. 2015/3*. Grahamstown: Institute of Social and Economic Research, Rhodes University.

**Rogan, M.** and **Reynolds, J.** (2015). "Schooling inequality, higher education and the labour market: evidence from a graduate tracer study in the Eastern Cape, South Africa". *LMIP Working Paper No. 2015/01*.

## Research Papers/Posters Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Rogan, M. & Reynolds, J.**

**Rogan, M.** and **Reynolds, J.** (2015). Oral poster presentation by J Reynolds on *The Working Poor in South Africa: 1997-2012* at the World Social Science Forum (WSSF) 2015. 13-16 September 2015 in Durban, South Africa.

## Invited public and policy related presentations

**Reynolds, J.**

**Reynolds, J.** (2015) Presentation on *Eastern Cape Annual Labour Market Review 2014* at a public seminar hosted by the Eastern Cape Socio-Economic Consultative Council and the Department of Economic Development, Environmental Affairs and Tourism (DEDEAT) of the Eastern Cape Provincial Government on 17 February 2015 in East London.

**Reynolds, J.** (2015) Presentation on *The Working Poor in South Africa* at the first public seminar held by the National Minimum Wage Research Initiative (NMW-RI) on 24 August 2015 at the University of the Witwatersrand in Johannesburg.

**Van Niekerk, R.**

**Van Niekerk, R.** (2015). *'Tell no lies, claim no easy victories': Engaged University-Based Intellectuals and the Social Transformation of South African Society*. Intellectuals and Popular Struggle: A Colloquium of Engaged Scholarship, University Of Cape Town, 2-4 September 2015.

**Van Niekerk, R.** (2015). Keynote address: *Social Policy and the Good Society: Overcoming inequality and transforming South Africa*. Inaugural Colloquium South African Research Chair in Teacher Education and The Centre for International Teacher Education (CITE), Cape Peninsula University of Technology, 12 February 2015.

**Van Niekerk, R.** (2015). *Politics, Social democracy and a South African welfare state: what can be done?* The Democratic Developmental State: Southern African and Nordic Experiences, Crop/Sanord Colloquium. Zevenwacht Estate, Cape Town. 10th February 2015.

# INSTITUTE FOR WATER RESEARCH

The focus of the Institute for Water Research (IWR) activities have shifted over the last few years and while we still concentrate on high level fundamental and practical research in the field of water resources science, we are now a great deal more involved in Postgraduate training and supervision. This is reflected in the increased number of graduated PhD and MSc students in recent years.

## Postgraduates / Graduations

As we reach the last year of the third phase of the Carnegie Foundation supported Regional Initiative in Science Education (RISE) programme it was almost inevitable that we would have a high number of graduations in 2015 and this year produced six (6) PhD's, two (2) MSc's and one (1) Honours degree at the 2015 graduation ceremony.

## Distinguished Visitors / International Visits

IWR staff and students attended a number of major regional and local conferences, including the XXVI General Assembly of the International Union of Geophysics and Geodesy in Prague, an international conference on Large African River Basins in Tunisia, the Fall Meeting of the American Geophysical Union in San Francisco, a conference on complex systems in Arizona, an international conference on conservation biology in Montpellier, the 75th annual meeting of the Society for Applied Anthropology and the 16th WaterNet conference in Mauritius.

Mr Coli Ndzabandzaba (PhD students) received a 'Best Young Scientist (poster category)' award at the WaterNet conference.

## Significant Research Aligned Events

The IWR continues to be successful in attracting funding for research activities despite the increasingly competitive research funding environment. At the end of 2015 we had finalised the details of a collaborative five (5) year research project on the Congo River funded by the Royal Society of the United Kingdom. This is a collaboration with the Universities of Bristol, Kinshasa and Dar es Salaam.

Further details of the full range of the IWR research activities (both present and past) can be found on the web page at

[www.ru.ac.za/IWR/Publications](http://www.ru.ac.za/IWR/Publications).

### Professor Denis Hughes

Director and Head of Department



Mr Mkatali, Ms Mgaba and Ms Holland sampling invertebrates at Richards Bay.  
Photo: IWR

## Books/Chapters/Monographs

De Wet, C.J.

De Wet, C.J. (2015) Spatial- and complexity-based perspectives on the ethics of development-induced displacement and resettlement. In: Satiroglu, I. and Choi, N. (eds.). *Development-Induced Displacement and Resettlement: New perspectives on persisting problems*. Oxon: Routledge. p.85-96. ISBN: 9781138794153.

Mensah, P.K., Palmer, C.G. and Odume, O.N.

Mensah, P.K., Palmer, C.G. and Odume, O.N. (2015) Ecotoxicology of Glyphosate and Glyphosate-based Herbicides - Toxicity to Wildlife and Humans. In: Larramendy, M.L. and Soloneski, S. (eds.). *Toxicity and Hazard of Agrochemicals*. Croatia: InTech. p.93-112. ISBN: 9789535121459.

## Other Publications

Muller, W.J.

Luyt, C.D., Khamanga, S.M., Tandlich, R. and Muller, W.J. (2015) Survival of Bifidobacteria and their usefulness in Faecal Source Tracking. In: Mizsey, P. (ed.). *Liquid Waste Recovery*. Poland: De Gruyter Open.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Arimoro, F. and Odume, O.N.

Arimoro, F., Odume, O.N. and Meme, F.K. (2015) Environmental drivers of head capsule deformities in Chironomus spp. (Diptera: Chironomidae) in a stream in north central Nigeria. *Zoology and Ecology*. 25 (1). p.70-76.

Hughes, D.A. and Slaughter, A.S.

Hughes, D.A. and Slaughter, A.S. (2015) Daily disaggregation of simulated monthly flows using different rainfall datasets in southern

Africa. *Journal of Hydrology: Regional Studies*. 4 (2015). p.153-171.

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Gordon, A.K. and Palmer, C.G.**

**Gordon, A.K. and Palmer, C.G.** (2015) Defining an Exposure-response Relationship for Suspended Kaolin Clay Particulates and Aquatic Organisms: Work Toward Defining a Water Quality Guideline for Suspended Solids. *Environmental Toxicology and Chemistry*. 34 (4). p.907-912.

**Gordon, A.K., Griffin, N.J. and Palmer, C.G.**

**Gordon, A.K., Griffin, N.J. and Palmer, C.G.** (2015) The relationship between concurrently measured SASS (South African Scoring System) and turbidity data archived in the South African River Health Programme's Rivers Database. *Water SA*. 41 (1). p.21-25.

**Hughes, D.A.**

**Hughes, D.A.** (2015) Hydrological modelling, process understanding and uncertainty in a southern African context: lessons from the northern hemisphere. *Hydrological Processes*. 2015p.1-13.

**Hughes, D.A., Jewitt, G., Mahé, G., Mazvimavi, D. and Stisen, S.** (2015) A review of aspects of hydrological sciences research in Africa over the last decade. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (11). p.1865-1879.

**Hughes, D.A.** (2015) Simulating temporal variability in catchment response using a monthly rainfall-runoff model. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (7-8). p.1286-1298.

**Mantel, S.K., Hughes, D.A. and Slaughter, A.S.**

**Mantel, S.K., Hughes, D.A. and Slaughter, A.S.** (2015) Water resources management in the context of future climate and development changes: a South African case study. *Journal of Water and Climate Change*. 06.4 (2015). p.772-786.

**Odume, O.N.**

**Arimoro, F.O., Odume, O.N., Uhunoma, S.I. and Edegbene, A.O.** (2015) Anthropogenic impact on water chemistry and benthic macroinvertebrate associated changes in a southern Nigeria stream. *Environmental Monitoring and Assessment*. 187 (14). p.1-14.

**Odume, O.N., Palmer, C.G. and Mensah, P.K.**

**Odume, O.N., Palmer, C.G., Arimoro, F.O. and Mensah, P.K.** (2015) Influence of selected biotopes on chironomid-based bioassessment of the Swartkops River, Eastern Cape, SouthAfrica. *Water SA*. 41 (3). p.343-358.

**Palmer, C.G.**

**Palmer, C.G., Biggs, R. and Cumming, G.S.** (2015) Applied research for enhancing human well-being and environmental stewardship: using complexity thinking in southern Africa. *Ecology and Society*. 20 (1). p.1-4.

**Slaughter, A.S., Retief, D.C.H. and Hughes, D.A.**

**Slaughter, A.S., Retief, D.C.H. and Hughes, D.A.** (2015) A method to disaggregate monthly flows to daily using daily rainfall observations: model design and testing. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (11). p.1896-1910.

**Slinger, J.H. and Palmer, C.G.**

**Slinger, J.H., Cunningham, S.W., Hermans, L.M., Linnane, S.M. and Palmer, C.G.** (2015) A game-structuring approach applied to estuary management in South Africa. *EURO Journal on Decision Processes*. 2 (2014). p.341-363.

**Tanner, J.L. and Hughes, D.A.**

**Tanner, J.L. and Hughes, D.A.** (2015) Surface water-groundwater interactions in catchment scale water resources assessments- understanding and hypothesis testing with a hydrological model. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (11). p.1880-1895.

**Tumbo, M.**

**Stisen, S. and Tumbo, M.** (2015) Interpolation of daily rainguage data for hydrological modelling in data sparse regions using pattern information from satellite data. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (11). p.1911-1926.

**Tumbo, M. and Hughes, D.A.**

**Tumbo, M. and Hughes, D.A.** (2015) Uncertain hydrological modelling: application of the Pitman model in the Great Ruaha River Basin,



Dr Mantel, Dr Palmer and Mr Gwate after successfully installing a large aperture scintillometer at a site where wattle has been cleared near Maclear, Eastern Cape. Photo: IWR

Tanzania. *Hydrological Sciences Journal - Journal Des Sciences Hydrologiques*. 60 (11). p.2047-2061.

## Peer-reviewed Proceedings

**Clifford-Holmes, J.K., Slinger, J.H. and Palmer, C.G.**

**Clifford-Holmes, J.K., Slinger, J.H., Mbulawa, P. and Palmer, C.G.** Modes of Failure of South African Local Government in the Water Services Sector. *33rd International Conference of the System Dynamics Society: Reinventing Life on a Shrinking Earth*. Cambridge. Massachusetts. July 2015.

**Hughes, D.A.**

**Hughes, D.A.** Scientific and practical tools for dealing with water resource estimations for the future. *2015 IUGG General Assembly: 2015 Prague HSO2 Symposium*. Prague. Czech Republic. June 2015.

**Vaze, J., Chiew, F., Hughes, D.A. and Andreassian, V.** Preface: HSO2 - Hydrologic Non-Stationarity and Extrapolating Models to Predict the Future. *International Association of Hydrological Sciences*. Prague. Czech Republic. June 2015.

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Clifford-Holmes, J.K., Slinger, J.H. and Palmer, C.G.**

**Clifford-Holmes, J.K., Slinger, J.H., Palmer, C.G. and Mbulawa, P.** Modes of Failure of South African Local Government in the Water Services Sector Conference proceedings. *System Dynamics Conference*. Albany, New York. United States of America. July 2015.

**Copteros, A.**

**Copteros, A.** An Exploration of ways in which Dance Movement Therapy can be used within a transdisciplinary water management research context. *PECS Social-Ecological dynamics in the Anthropocene Conference*. Stellenbosch. South Africa. November 2015.

**De Wet, C.J.**

**De Wet, C.J.** Participatory diagnostics: a role for anthropologists on the interface between research, development and policy. *Annual conference of Anthropology Southern Africa*. University of the North West, Potchefstroom. South Africa. August 2015.

**De Wet, C.J.** Rapporteur/Discussant for Session on Ethics and accountability for compulsory displacement; Program of special series of sessions on the World Bank's revision of its Social and Environmental Safeguard Policies. *75th Annual meeting of the Society for Applied Anthropology*. Pittsburgh. United States of America. March 2015.



Graduation 2015, students and supervisors: (from left to right), Dr Sukhmani Mantel, Dr Jai Clifford-Holmes, Dr Pearl Gola, Dr Agostinho Vilanculos, Professor Denis Hughes, Prof Tally Palmer, Prof Chris de Wet, Dr Thabiso Mohabane, Ms Ntombekhaya Mgaba, Dr Madaka Tumba, Dr Helen Fox.  
Photo: IWR

**De Wet, C.J. and Odume, O.N.**

**De Wet, C.J. and Odume, O.N.** Ethics in water management. *WRC Research Development and Innovation Symposium and Water-Tech Summit*. Birchwood Hotel, Johannesburg. South Africa. September 2015.

**Fox, H.E. and Palmer, C.G.**

**Fox, H.E. and Palmer, C.G.** Transformative imaginaries or a deadend: the role of symbolic power in social-ecological wellbeing. *Conference on Complex Systems*. Phoenix, Arizona. United States of America. September 2015.

**Gwate, O., Palmer, A. and Mantel, S.K.**

**Gwate, O., Palmer, A. and Mantel, S.K.** Influence of *Acacia mearnsii* (black wattle) on rangeland production in semiarid South African grasslands: implications for rangeland rehabilitation. *Grasslands Society of Southern Africa*. Pietermaritzburg. South Africa. July 2015.

**Lidzhegu, Z. and Mantel, S.K.**

**Lidzhegu, Z., Mantel, S.K. and Ellery, F.** Classification of large wetlands Africa's elevated drylands based on their structure and formation using Earth Observation (EO) approaches. *16th WaterNet/WARFSA/GWP-SA Symposium*. Le Meridien Ile Maurice Hotel, Mauritius. October 2015.

**Mantel, S.K.**

**Mantel, S.K.** Not all small dams are benign: A study on their cumulative impacts in South Africa. *27th International Congress for Conservation Biology (ICCBCECB 2015)*. Montpellier. France. August 2015.

**Mantel, S.K. and Palmer, A.**

**Mantel, S.K. and Palmer, A.** Impacts of high density of small farm dams on evapotranspiration and catchment water balance. *50th Annual Congress of the Grassland Society of Southern Africa*. Pietermaritzburg. South Africa. July 2015.

**Mensah, P.K.**

**Mensah, P.K.** Development of a procedure for mixture ecotoxicological experiments and its application for binary salt mixture experiments. *7th Society for Environmental Toxicology and Chemistry (SETAC) Africa Conference*. Langebaan. South Africa. October 2015.

**Ndzabandzaba, C. and Hughes, D.A.**

**Ndzabandzaba, C. and Hughes, D.A.** Hydrological modeling incorporating uncertainty using hydrological response. *WaterNet/WARFSA/GWP-SA Symposium*. Le Meridien Ile Maurice Hotel, Mauritius. October 2015.

**Odume, O.N.**

**Odume, O.N.** Social-ecological innovation: integrated pathways to water justice and well-being. *Water Research Commission Ecosystems Research and Innovation Symposium*. Hartbeespoort, Pretoria. South Africa. February 2015.

**Odume, O.N. and De Wet, C.J.**

**Odume, O.N. and De Wet, C.J.** The role of Environmental Ethics in water resource management in the context of social ecological systems. *4th Southern African Young Water Professional Conference*. CSIR, Pretoria. South Africa. November 2015.

**Odume, O.N. and Palmer, C.G.**

**Odume, O.N. and Palmer, C.G.** What is "engaged research" - learning through case studies. *Rhodes University Community Engaged Learning*

*Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

**Palmer, C.G.**

**Palmer, C.G.** Action research practice in post-apartheid South African catchments, taking a complex social-ecological system approach. *Conference on Complex Systems*. Phoenix, Arizona. United States of America. September 2015.

**Palmer, C.G.** Water: a blue driver of a green economy. *Conference of the Journal of Development and a Green Economy*. Durban. South Africa. July 2015.

**Palmer, C.G., Slaughter, A.S., Retief, D.C.H. and Sahula, A.**  
**Palmer, C.G., Slaughter, A.S., Retief, D.C.H., Sahula, A., du Toit, D. and Munnik, A.V.** Diverse sense-making in a co-operative integrated water quality management process in the Crocodile River, towards improved social-ecological health. *Savannah Network Meeting*. Skukuza. South Africa. April 2015.

**Palmer, T.**

**Burt, J.C., Lotz-Sisitka, H., Du Toit, D.R. and Palmer, T.** The River Speaks: Supporting the voice of civil society action in water practices South Africa. *ALARA 9th Action Learning Action Research and 13th Participatory Action Research World Congress 2015*. St. George Hotel and Conference Centre, Centurion, Pretoria. South Africa. November 2015.

**Rugai, D.S., Hughes, D.A. and Mantel, S.K.**

**Rugai, D.S., Hughes, D.A. and Mantel, S.K.** Estimation of river hydraulic characteristics for floodplain inundation modelling of Mkondoa River, in Wami Sub-basin Tanzania. *16th WaterNet/WARFSA/GWP-SA Symposium*. Le Meridien Ile Maurice Hotel, Mauritius. October 2015.

**Vellemu, E.C.**

**Vellemu, E.C.** Fighting Elephants, Suffering Grass: Towards a clumsy solution to solving acid mine drainage in South Africa. *4th YWP ZA Biennial and 1st African Young Water Professionals (YWP) Conference*. Pretoria. South Africa. November 2015.

**Vellemu, E.C., Mensah, P.K. and Palmer, C.G.**

**Vellemu, E.C., Mensah, P.K. and Palmer, C.G.** Tolerance of juvenile and adult freshwater shrimps (*Caridina nilotica*) to  $MgSO_4$  and  $Na_2SO_4$ . *Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting*. Barcelona, Catalonia. Spain. March 2015.

**Vellemu, E.C., Mensah, P.K. and Palmer, C.G.** Sensitivity of the mayfly nymph (*Adenophlebiide auricurata*) *Leptophlebiidaeto MgSO<sub>4</sub> and Na<sub>2</sub>SO<sub>4</sub>*. *16th WaterNet/WARFSA/GWP-SA Symposium*. Le Meridien Ile Maurice Hotel, Mauritius. October 2015.

**Weaver, M.J.T.**

**Weaver, M.J.T.** Process of learning in a Community of Practice in response to Water Service Delivery Challenges in Grahamstown East in the Makana Local Municipality. *4th YWP ZA Biennial and 1st African Young Water Professionals (YWP) Conference*. Pretoria. South Africa. November 2015.

**Weaver, M.J.T. and Lipile, M.W.**

**Weaver, M.J.T. and Lipile, M.W.** A citizen based research process to address integrated water resource management challenges in the Makana Municipality. *Rhodes University Community Engaged Learning Symposium*. Rhodes University, Grahamstown. South Africa. May 2015.

# PUBLIC SERVICE ACCOUNTABILITY MONITOR

During the course of 2015 the Public Service Accountability Monitor (PSAM) staff engaged in various research and capacity building initiatives that seek to give effect to its 2015 - 2019 strategic plan. The most significant of these are detailed below.



Attendees of the 2015 PSAM course Fundamentals of Social Accountability in 2015. Attendees were individuals from across southern Africa who are promoting accountability and democracy in their contexts.  
*Photo: PSAM*

## Distinguished Visitors / International Visits

In January 2015 Jay Kruise attended a *“Follow the Money”* Workshop in Berlin, Germany, which was organised by the Open Society Foundation and enabled a diverse representation of civil society actors to come together to identify improved mechanisms for ensuring openness in the allocation and use of public funds across the globe.

PSAM routinely draws upon the work of the Office of the Auditor-General to promote good governance and the effective and efficient use of public resources. On 19 March 2015 the current Auditor-General for South Africa, Mr Kimi Makwetu visited Grahamstown as a guest of PSAM and delivered a public lecture at the Eden Grove Blue Lecture Theatre which was well attended by the public, media, staff and students of Rhodes University.

During September 2015 PSAM held a regional workshop in Dodoma, Tanzania with Social Accountability Monitoring (SAM) trainers and practitioners working in Zambia, Zimbabwe, Tanzania and Mozambique.

During November 2015 PSAM organised a mentoring session for COTRAD Masvingo Action Accountability Groups. COTRAD was the first of four (4) PACT Zimbabwe grantees that requested extra support after exposure to the PSAM approach at a training event held in November 2014.

Ms. Lindelwa Nxele, Program Officer for the PSAM's Advocacy Impact Program, and Ms. Gertrude Mugizi, Head of PSAM's Regional Learning Program, participated in a TALEARN Convention in Brazil during November 2015 where attendees took part in various peer assist sessions that considered learning mechanisms within organizations, how to best transfer information between different tiers of actors, and how to best analyse power relations.

In October 2015 the PSAM Director Jay Kruise delivered a presentation at a meeting hosted by the Office of the United Nations High Commissioner for Human Rights. The meeting focused on human rights based approaches to data and statistics and was held in Geneva, Switzerland.

## Significant Research Aligned Events

PSAM Education researcher, Zukiswa Kota, wrote an article entitled *Brief Analysis: 2015 National Budget* which appeared on the SANGONet website on 11 March 2015 while another analysis piece on *What does the 2015/16 Medium Term Budget Promise for Learning in the Eastern Cape* appeared on the SANGONet website on 18 March 2015.



During November 2015 the PSAM organised a mentoring session (pictured above) for CONTRAD Masvingo Action Accountability Groups  
Photo: PSAM

Zukiswa also produced the following reports on education in the Eastern Cape: *A case study on the School Nutrition Programme*, and an *Expenditure tracking report on the School Infrastructure Grant*. Also noteworthy were a public submission to the Standing Committee on Appropriations in Cape Town and another to the Standing Committee on Provincial Finance and Expenditure in the Eastern Cape following public calls for submissions made by each committee.

PSAM Health researcher, Ms. Thokozile Mtsolongo, produced a Strategic Plan Evaluation on Health Infrastructure in Eastern Cape. In March 2015 she was invited to make public submissions to the Human Rights Commission (HRC) hearing into 'Access to Emergency Medical Services in the Eastern Cape' PSAM is listed in the report as an interested stakeholder with the final report available on the HRC website.<sup>1</sup>

Thokozile subsequently conducted further research on EMS culminating in three outputs: a journal article in December 2015 and a final research report and presentation to the Eastern Cape Department of Health. Thokozile also wrote an analysis pieces titled 'A quick look at the history of planning and budgeting for EMS in the Eastern Cape' which appears in the Section 27 report *Emergency Medical Services in the Eastern Cape*.

PSAM's local government researcher, Thabani Mdlongwa, prepared and disseminated a Strategic Plan Evaluation of the Makana Intervention Plan (MIP) 2014/2015 and a Budget Analysis 2015/16. Thabani also delivered a joint paper with Thokozile on *Civil Society in the Public Sphere, the experiences of the MCSC and ECHCAC* at the 5th African Unity for Renaissance Conference.

Thabani was invited to present the findings of his 2014/15 Budget Analysis to the financial viability work stream of the Makana Municipality and also presented on behalf of Makana Civil Society Coalition (MCSC) to the Select Committee on Cooperative Governance and Traditional Affairs on the Intervention in Makana.<sup>2,3,4</sup>

Nicholas Scarr, PSAM's environment researcher, produced the 2015/16 Budget Analysis of the Chief Directorate of Environmental Affairs within DEDEAT.<sup>5</sup> He also presented a paper at the *14th World Forestry Congress*, held in September 2015. His paper was entitled *Progress in implementation of the prohibition on disturbing natural forest on privately owned land in the Eastern Cape Province, South Africa*.

Following the resignation of the previous human settlements researcher at the end of 2014, Thoko Sipungu joined the PSAM in July 2015. He completed a Strategic Plan Evaluation and embarked on research on Social Housing in Eastern Cape. His abstract on this research was submitted to the *Housing Policy Debate*<sup>6</sup> and was accepted in October 2015.

During 2015 Jay Kruise finalised the Open Budget Survey of South Africa and was responsible for its dissemination during September 2015. Mr. Thoko Sipungu and Ms. Thokozile Mtsolongo are currently busy with next round of the survey which will be released in the second half of 2017.

## Mr Jay Kruise

Director: Public Service Accountability Monitor (PSAM)



The Institute for Young Women's Development (IYWD), which is based in Mashonaland Central in Zimbabwe, participating in an energizer during a sensitisation meeting on how the PSAM approach can be used to monitor women's sexual reproductive health rights.  
Photo: PSAM

## Books/Chapters/Monographs

Diaz Pabon, F.A.

Diaz Pabon, F.A. (2015) Mathematical Modelling and 'Ethnic Conflict' in Colombia: The impact of the unit and the level of analysis. In: Hintjens, H. and Zarkov, D. (eds.). *Conflict, Peace, Security and Development: Theories and methodologies*. New York: Routledge: Taylor and Francis. p.202-215. ISBN: 9780415844826.

1 <http://www.sahrc.org.za/home/21/files/EMS%20Report%202015.pdf>  
2 <https://pmg.org.za/taled-committee-report/2308/>  
3 <https://www.facebook.com/MakanaCivilSocietyCoalition/posts/1543836889222381>

4 <http://www.dispatchlive.co.za/news/hands-off-yako-say-institutions/>  
5 Eastern Cape Department of Economic Development, Environmental Affairs and Tourism  
6 <http://www.tandfonline.com/action/journalInformation?show=aimsScope&journalCode=RHPD20#.VqPc6Uj6qfE>

# RHODES UNIVERSITY MATHEMATICS EDUCATION PROJECT

RUMEP runs a three (3) year, part time BEd (in-service) professional development programme for practising teachers. The teachers receive extensive input on mathematics and mathematics teaching. They work to integrate this knowledge into their classroom practice and implement workshops for colleagues in a community of practice. They also conduct a small scale action research project on a mathematics topic of their choice and present this research at a "How I teach Conference" each year.



In-service teacher Ms Zimasa Fana presenting her research findings on *Developing the concept of measuring length and perimeter in Grade 3*.  
Photo: Percy Brooks

As a result of the success of the first cohort of Northern Cape teachers who graduated in 2015, RUMEP was awarded more funding to begin a second cohort of Intermediate and Senior Phase mathematics teachers from the JTG district in Kuruman. This course started in 2015.

Due to the success of our association with World Vision, RUMEP was approached by the Department of Education in the Eastern Cape to conduct professional development workshops for teachers in a number of districts with the hope that in future these short courses will align with the implementation of the national system for continuing professional development presently being implemented.

## Graduates

In 2015 RUMEP had one of the biggest groups of students to graduate with a BEd (in-service) Mathematics Education degree when forty-three (43) students and this included the first cohort of a group of Northern Cape secondary school teachers. Four (4) students obtained distinctions.

## Distinguished Visitors

- Mr R Matlala and Mr M Monyokolo. Sishen Iron Ore Community Development Trust, Pretoria, South Africa. *Graduation visit*. April 2015.
- Mr X Mbi. World Vision, Bloemfontein, South Africa. *Discuss MOU and short courses*. August 2015.
- Mr C Mingo and Ms C van der Rheede. HCI Foundation, Cape Town, South Africa. *Discuss funding for B.Ed teachers*. July 2015.
- Ms U Nqandela and Mr Z Sonanzi. Department of Education, Zwelitsha, South Africa. *Attend the "How I Teach" conference*. October 2015

## Significant Research Aligned Events

Mr Thomas Haywood presented a long paper at the 23rd Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) Conference in Mozambique with a paper entitled, "An Exploration of Learners' Learning of Mathematics by Using Selected (VITALmaths)."

Mr Chikiwa attended and presented a paper at the International Society for Technology in Education (ISTE) Conference in Mathematics, Science and Technology Education in the Kruger National Park in October. His paper Teaching Grade 11 trigonometry in a multilingual Mathematics class was well received by all the delegates.

**Mr Tom Penlington**

Director: RUMEP

## Concerts, Exhibitions, Performances, Workshops, Events

**Haywood, T.**

**Haywood, T.** Present Workshop. *Training for 40 IP Mathematics Teachers*. Catholic Church, Mount Fletcher. South Africa. 2 - 6 November 2015.

**Mkhwane, F.F.**

**Mkhwane, F.F.** Present Workshop. *Training for 40 IP Mathematics Teachers*. Royal Courtyard Hotel, Matatielle. South Africa. 28 September - 2 October 2015.

**Penlington, T.H.**

**Penlington, T.H.** and Yuse, B. Present Workshop. *Literacy and Numeracy for 25 Intermediate Phase Mathematics Teachers*. Royal Courtyard Hotel, Matatielle. South Africa. 27 April - 1 May 2015.

**Penlington, T.H. and Chikiwa, C.**

**Penlington, T.H. and Chikiwa, C.** Present Workshop. *National Science Week. IP and SP Learner Workshop*. DoE Offices, Port Elizabeth. South Africa. 4 August 2015.

**Penlington, T.H. and Chikiwa, C.** Present Workshop. *National Science Week. FP and IP Teacher Workshop*. DoE Offices, Port Elizabeth. South Africa. 2 August 2015.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Penlington, T.H.**

**Penlington, T.H.** (2015) The Complexity of Division. *Learning and Teaching Mathematics*. 19 (1). p.7-9.

## Peer-reviewed Proceedings

**Chikiwa, C.**

**Chikiwa, C.** and Schafer, M. Teacher Code Switching in a Multilingual Mathematics Classroom: A Focus on Precision, Consistency and Transparency. *AMESA 2015*. University of Limpopo, Polokwane. South Africa. July 2015.

**Chikiwa, C.** Teaching Trigonometry in a Grade 11 Multilingual Mathematics Class: A Focus on Teacher Code Switching Practices. *ISTE International Conference on Mathematics, Science and Technology Education*. Mopani Camp, Kruger National Park, Phalaborwa. South Africa. October 2015.

**Haywood, T.**

**Haywood, T.** and Schafer, M. An Exploration of Learners' Learning of Mathematics by Using Selected (VITALmaths) Video Clips: A Case Study.



In-service teacher Mr Umalu Kasozi presenting his research findings on *Teaching perimeter and area in Grade 6*.  
Photo: Percy Brooks



In-service teacher Ms Mamorena Siphosi presenting her research findings on *The finer points of learning time in a Grade 5 class*.  
Photo: Percy Brooks

# SOUTH AFRICAN INSTITUTE FOR AQUATIC BIODIVERSITY

The current review year represented some historic highs for South African Institute for Aquatic Biodiversity (SAIAB), an Associated Research Institution of Rhodes University.



## Introduction

Altogether seven (7) BSc Honours, twenty-eight (28) MSc and twenty (20) PhD projects were undertaken in 2015, a fine achievement by a staff of only eight (8) full-time scientists and an expanding cohort of Postdoctoral Fellows.

In addition, eighteen (18) students received their Postgraduate degrees in 2015. An indication of the growing status of our scientists as supervisors of Postgraduate students was the appointment of Drs Paul Cowley and Olaf Weyl as Honorary Professors at Rhodes University.

## Research highlights

The movement patterns and behavioural ecology of marine and estuary-associated marine fishes was a major research highlight for SAIAB in 2015. Professor Paul Cowley and his team spent many days in the field catching and acoustically tagging fish. The ongoing work on dusky kob, leervis, white steenbras and spotted grunter has yielded extremely important data that will assist with the management of these over-exploited fishery species.

The Acoustic Tracking Array Platform's (ATAP) activities, also managed by Professor Cowley, involved several fieldtrips to upload data from the growing receiver network around the South African coastline.

Professor Paul Cowley and his students are working with Dr Rainer von Brandis (SOSF D'Arros Research Centre) to understand the behavioural ecology of several fish species important to the St Joseph Atoll, Seychelles.  
*Photo: Rainier von Brandis*

One new monitoring site was established at Plettenberg Bay, which is hoped to improve data collection on wide-ranging species such as white sharks and leervis. SAIAB researchers tagged dusky kob, spotted grunter, leervis and white steenbras, while other ATAP collaborators tagged giant kingfish, pyjama catsharks, sevengill cowsharks, smooth houndsharks, Zambezi sharks and tiger sharks.

Dr Nikki James supervised a number of new Honours, MSc and PhD projects in 2015. The focus of these projects is on species-specific responses to changes in either turbidity, pH or temperature in coastal waters, with an aim to further our understanding of some of the impacts of climate change on different coastal and estuarine fish species. Although most of these projects are just starting, an Honours project has already yielded interesting results.

Professor Alan Whitfield led a major collaborative research programme on Eastern Cape coastal micro-inlets and micro-estuaries during 2015. Scientists and Postgraduate students from SAIAB, Rhodes University (RU), Nelson Mandela Metropolitan University (NMMU), and the South African

Environmental Observation Network (SAEON) are busy studying the differences between these small coastal systems, to answer the question - when does a coastal inlet become an estuary?

In July 2015 Professor Whitfield received the Southern African Society of Aquatic Scientists Gold Medal Award for his contributions to the aquatic sciences in southern Africa.

Dr Francesca Porri, together with students and collaborators, has focused on several projects linked to organismal biology and dynamics of early life stages of benthic invertebrate taxa. A new multidisciplinary project on the pathways of larval dispersal has been awarded to Dr Porri through the African Coelacanth Ecosystem Programme (ACEP), with collaborators from Rhodes University, University of Johannesburg (UJ), SAEON and Hakai Institute (Canada). Several Postgraduate projects are linked to this research, covering an understanding of the physical mechanisms driving larval dispersal, settlement of larvae on the shore and the genetic connectivity of coastal invertebrate populations.

The SAIAB freshwater ecology group led by Professor Olaf Weyl had another excellent year. Noteworthy contributions in the field of fish ecology were describing age and growth of African sharp-tooth catfish in the Okavango Delta, describing the population dynamics of invasive mosquitofish in large estuarine lakes and describing the reproductive biology of endangered barb in headwater streams. The group also applied multiple techniques to describe the movement behaviour of freshwater fishes. The freshwater ecology group also contributed to a better understanding of the trophic dynamics of invasives in aquatic ecosystems; for example, the establishment of invasive South American loricariid catfishes and Asian snails in a South African river was most likely facilitated by access to food resources that were unexploited or unavailable to native residents.

Dr Gavin Gouws's research during 2015 saw the continuation of the National Research Foundation (NRF)-supported project investigating dispersal of freshwater crabs and its consequences, genetic studies on the ACEP III Suitcase project, investigating connectivity between southwestern Madagascar and the South African east coast, DNA barcoding on the collaborative Foundational Biodiversity Information Programme SeaKeys project, and the collaborative goatfish work with Dr Franz Uiblein of the Institute of Marine Research, Norway.

Growing evidence from molecular studies indicates that a remarkable proportion of cryptic diversity within several freshwater fishes of South Africa remains scientifically undocumented. These studies have called for an urgent need for taxonomic revision of South African freshwater fishes to get a better understanding of the country's biodiversity. Type specimens form the basis for any taxonomic investigation. However, most types are very old and most of them are no longer in good condition; as a result DNA cannot be extracted from these specimens. In 2014, Dr Albert Chakona established a project to collect topotypic material (DNA tissue samples and voucher specimens) for all freshwater fishes that were described from South Africa. Easy access of topotypes and topogenotypes will undoubtedly stimulate renewed interest in the taxonomy of



Collecting fish using a seine net in the Mtendwe Estuary, Eastern Cape Province.  
*Photo: Tatenda Dalu*



Bosupeng Motshegoa, a PhD student from SAIAB, electrofishing in the Manzimhlophe River - a tributary of the Mkuze River system in KwaZulu-Natal - as part of the Mountain Catfish Project.  
*Photo: Daniel Nkosinathi Mazungula*

African freshwater fishes, and we envisage the establishment of collaborative research between SAIAB and other institutions, both local and international.

In conclusion, the productivity of SAIAB research staff, students, Postdoctoral Fellows and Honorary Research Associates continued at a high level during 2015, with eighty (80) refereed scientific papers published. A total of fifty-three (53) conference and symposium papers were delivered at a wide variety of national and international venues.

In addition to the above more formal activities, our scientists continue their efforts to communicate information about their research for use by managers, scholars and the wider public. This is evidenced by the twenty-eight (28) public presentations delivered and thirty (30) research related popular articles produced by SAIAB staff during 2015.

**Professor Alan Whitfield**  
Chief Scientist

## Books/Chapters/Monographs

### Anderson, M.E.

Moller, P.R. and **Anderson, M.E.** (2015) Family Zoarcidae: Eelpouts. In: Roberts, C.D., Stewart, A.L. and Struthers, C.D. (eds.). *The Fishes of New Zealand*. New Zealand: Te Papa Press. p.1424-1433. ISBN: 9780994104168.

### Gon, O.

Stewart, A.L. and **Gon, O.** (2015) Family Epigonidae: Deepsea cardinals. In: Roberts, C.D., Stewart, A.L. and Struthers, C.D. (eds.). *The Fishes of New Zealand*. New Zealand: Te Papa Press. p.1219-1226. ISBN: 9780994104168.

**Gon, O.** and Stewart, A.L. (2015) Family Bathylagidae: Seepsea smelts. In: Roberts, C.D., Stewart, A.L. and Struthers, C.D. (eds.). *The Fishes of New Zealand*. New Zealand: Te Papa Press. p.337-345. ISBN: 9780994104168.

**Gon, O.** and Stewart, A.L. (2015) Family Microstomatidae: White smelts. In: Roberts, C.D., Stewart, A.L. and Struthers, C.D. (eds.). *The Fishes of New Zealand*. New Zealand: Te Papa Press. p.332-336. ISBN: 9780994104168.

### Porri, F.

**McQuaid, C.D., Porri, F.,** Nicastrò, K.R. and Zardi, G.I. (2015) Simple, scale-dependent patterns emerge from very complex effects: an example from the intertidal mussels *Mytilus galloprovincialis* and *Perna perna*. In: Hughes, R.N., Hughes, D.J. and Dale, A.C. (eds.). *Oceanography and Marine Biology: An Annual Review 53*. Boca Raton London New York: CRC Press. p.127-156. ISBN: 9781498705455.

### Skelton, P.H.

**Skelton, P.H.** (2015) Fishes - Class Osteichthyes. In: Griffiths, C., Day, J. and Picker, M. (eds.). *Freshwater Life: A field guide to the plants and animals of southern Africa*. Cape Town: Struik Nature. p.96-123. ISBN: 9781775841029.

### Weyl, O.L.F. & Cowley, P.D.

**Weyl, O.L.F. & Cowley, P.D.** 2015. Fisheries in subtropical and temperate regions of Africa. In: *The Freshwater Fisheries Ecology*. (Ed., Craig, J.F.), pp. 241-255. Wiley-Blackwell, London.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

### Cunningham, M.

Knowles, R., Thumm, K., Mahony, M., Hines, H., Newell, D. and **Cunningham, M.** (2015) Oviposition and egg mass morphology in barred frogs (Anura: Myobatrachidae: Mixophyes Gunther, 1864), its phylogenetic significance and implications for conservation management. *Australian Zoologist*. 37 (3). p.381-402.

### Connell, A.D.

**Connell, A.D.,** Randall, J.E. and Victor, B.C. (2015) A new species of *Pseudojuloides* (Perciformes: Labridae) from the south-western Indian Ocean. *Journal of the Ocean Science Foundation*. 14, 49-56.

Randall, J.E., **Connell, A.D.** and Victor, B.C. (2015) Review of the labrid fishes of the Indo-Pacific genus *Pseudocoris*, with a description of two new species. *Journal of the Ocean Science Foundation*. 16, 1-55.

### Ebert, D.A.

**Ebert, D.A.** and Clerkin, P.J. (2015) A new species of deep-sea catshark (Scyliorhinidae: Bythaelurus) from the southwestern Indian Ocean. *Journal of the Ocean Science Foundation*. 15, 53-63.

Vasquez, V.E., **Ebert, D.A.,** and Long, D.J. (2015) *Etmopterus benchleyi* n. sp. (Squaliformes: Etmopteridae), a new lantern shark from the central eastern Pacific Ocean. *Journal of the Ocean Science Foundation*. 17, 43-55.

### Filmalter, J.D.

Tolotti, M.T., **Filmalter, J.D.,** Bach, P., Travassos, P., Seret, B. & Dagorn, L. (2015) Banning is not enough: The complexities of oceanic shark management by tuna regional fisheries management organizations. *Global Ecology and Conservation*. 4, 1-7.

### Plon, S.

**Plon, S.,** de Wet, M., Lane, E., Wohlsein, P., Siebert, U. and Thompson, P. (2015) A Standardized Necropsy Protocol for Health Investigations of Small Cetaceans in Southern Africa. *African Journal of Wildlife Research*. 45 (3). p.332-341.

### Tweedle, D.

**Tweedle, D.,** van der Waal, B.C.W. and **Peel, R.** (2015) Distribution and migration of the Caprivi killifish, *Notobranchius capriviensis* *Watters, Wildekamp and Shidlovskiy* 2015, an assessment of its conservation status, and a note on other killifish in the same area. *Journal of the American Killifish Association*. 47(4-6), 134-151.

## Peer Reviewed Subsidy-Earning Journal Research Publications

### Anderson, M.E.

Mecklenburg, C.W. and **Anderson, M.E.** (2015) Reassessment of multiple species of *Gymnelus* (Teleostei: Zoarcidae) in Pacific Arctic and boreal regions. *Zootaxa*. 3948 (2). p.263-278.

### Bueno, J.

Sallu, S., Alonso-Saez, L., **Bueno, J.,** Garcia, F.C. and Lopez-Urrutia, A. (2015) Thermal adaptation, phylogeny, and the unimodal size scaling of marine phytoplankton growth. *Limnology and Oceanography*. 60 (2015). p.1212-1221.

### Conradie, W.

**Conradie, W.,** Branch, W.R. and Watson, G. (2015) Type specimens in the Port Elizabeth Museum, South Africa, including the historically important Albany Museum collection. Part 1: Amphibians. *Zootaxa*. 3936 (1). p.42-70.

**Conradie, W.** and Conradie, C. (2015) Correlation between development and increase of number of labial tooth rows in Ghost Frog tadpoles (Anura: Heleophrynidae). *Acta Herpetologica*. 10 (2). p.143-148.

Venter, J.A. and **Conradie, W.** (2015) A checklist of the reptiles and amphibians found in protected areas along the South African Wild Coast, with notes on conservation implications. *Koedoe*. 57 (1). p.1-25.

### Cowley, P.D.

Dunlop, S.W., Mann, B.Q., **Cowley, P.D.,** Murray, T.S. and Maggs, J.Q. (2015) Movement patterns of *Lichia amia* (Teleostei: Carangidae): results from a long-term cooperative tagging project in South Africa. *African Zoology*. 50 (3). p.249-257.

Mann, B.Q., **Cowley, P.D.** and Fennessy, S.T. (2015) Movement patterns of surf-zone fish species in subtropical marine protected area on the east coast of South Africa. *African Journal of Marine Science*. 37 (1). p.99-114.

**Forget, F.G.,** Capello, M., **Filmalter, J.D.,** Govinden, R., Soria, M., **Cowley, P.D.** and Dagorn, L. (2015) Behaviour and vulnerability of target and non-target species at drifting fish aggregating devices (FADs) in the tropical tuna purse seine fishery determined by acoustic telemetry. *Canadian Journal of Fisheries and Aquatic Sciences*. 72 (2015). p.1398-1405.

Elston, C., von Brandis, R.G. and **Cowley, P.D.** (2015) Gastric lavage as a non-lethal method for stingray (*Myllobatiformes*) diet sampling. *African Journal of Marine Science*. 37 (3). p.415-419.

Hussey, N.E., Kessel, S.T., Aarestrup, K., Cooke, S.J., **Cowley, P.D.,** Fisk, A.T., Harcourt, R.G., Holland, K.N., Iverson, S.J., Kocik, J.F., Mills Flemming, J.E. and Whoriskey, F.G. (2015) Aquatic animal telemetry: A panoramic window into the underwater world. *Science*. 348 (6240). p.1-10.

**Bennett, R.H., Cowley, P.D.,** Childs, A.R. and Naesje, T.F. (2015) Movements and residency of juvenile white steenbras *Lithognathus lithognathus* in a range of contrasting estuaries. *Estuarine Coastal and Shelf Science*. 152 (2015). p.100-108.

### Di Dario, F.

Pinheiro, H.T., **Di Dario, F.,** Gerhardinger, L.C., de Melo, M.R.S., de Moura, R.L., Reis, R.E., Veira, F., Zuanon, J. and Rocha, L.A. (2015) Letter: Brazilian aquatic biodiversity in peril. *Science*. 350 (6264). p.1043-1044.

### Ebert, D.A.

Kemper, J.M., **Ebert, D.A.,** Naylor, G.J.P. and Didier, D.A. (2015) *Chimaera carophila* (Chondrichthyes: Chimaeriformes: Chimaeridae), a new species of chimera from New Zealand. *Bulletin of Marine Science*. 91 (1). p.63-81.

**Ebert, D.A.** and van Hees, K.E. (2015) Beyond *Jaws*: rediscovering the 'lost sharks' of southern Africa. *African Journal of Marine Science*. 37 (2). p.141-156.

**Ebert, D.A.,** Huvneers, C. and Dudley, S.F.J. (2015) Preface: Advances

in Shark Research. *African Journal of Marine Science*. 37 (2). p.5.

Huveneers, C., **Ebert, D.A.** and Dudley, S.F.J. (2015) The evolution of chondrichthyan research through a metadata analysis of dedicated international conference between 1991 and 2014. *African Journal of Marine Science*. 37 (2). p.129-139.

Walovich, K.A., **Ebert, D.A.**, Long, D.J. and Didier, D.A. (2015) Redescription of *Hydrolagus africanus* (Gilchrist, 1922) (Chimaeriformes: Chimaeridae), with a review of southern African chimaeroids and a key to their identification. *African Journal of Marine Science*. 37 (2). p.157-165.

**Ebert, D.A.**, Haas, D.L. and de Carvalho, M.R. (2015) *Tetronarce coveleyi*, sp. nov., a new species of electric ray from southern Africa (Chondrichthyes: Torpediniformes: Torpedinidae). *Zootaxa*. 3936 (2). p.237-250.

White, W.T., Vaz, D.F.B., Ho, H.C., **Ebert, D.A.**, de Carvalho, M.R., Corrigan, S., Rochel, E., de Carvalho, M., Tanaka, S. and Naylor, G.J.P. (2015) Redescription of *Scymnodon ichiharai* Yano and Tanaka 1984 (Squaliformes: Somniosidae) from the western North Pacific, with comments on the definition of somniosid genera. *Ichthyological Research*. 62 (2015). p.213-229.

**Forget, F.**

Bauer, R.K., **Forget, F.** and Fromentin, J.M. (2015) Optimizing PAT data transmission: assessing the accuracy of temperature summary data to estimate environmental conditions. *Fisheries Oceanography*. 24 (6). p.533-539.

**Gennari, E.**

James, B.S., Bester, M.N., Penry, G.S., **Gennari, E.** and Elwen, S.H. (2015) Abundance and degree of residency of humpback dolphins *Sousa plumbea* in Mossel Bay, South Africa. *African Journal of Marine Science*. 37 (3). p.383-394.

**Gon, O.**

**Gon, O.**, Liao, Y.C. and Kwang-Tsao, S. (2015) A new species of the cardinalfish genus *Jaydia* (Teleostei: Apogonidae) from the Philippines. *Zootaxa*. 3980 (2). p.286-292.

**Gon, O. and Mwale, M.**

**Miya, T., Gon, O., Mwale, M.** and Cheng, C.H. (2015) Multiple independent reduction or loss of antifreeze trait in low Antarctic and sub-Antarctic notothenioid fishes. *Antarctic Science*. 2015 (2015). p.1-12.

**Gouws, G.**

**Gouws, G.**, Peer, N. and Perissionotto, R. (2015) MtDNA lineage diversity of a potamonautid freshwater crab in KwaZulu-Natal, South Africa. *Koedoe*. 57 (1). p.1-12.

Peer, N., Perissionotto, R., **Gouws, G.** and Miranda, N.A.F. (2015) Description of a new species of *Potamonautes* MacLeay, 1838, from the iSimangaliso Wetland Park, South Africa. *ZooKeys*. 503 (2015). p.23-43.

**Gouws, G. and Swartz, E.R.**

**Chakona, A., Malherbe, W.S., Gouws, G.** and Swartz, E.R. (2015) Deep genetic divergence between geographically isolated populations of the goldie bard (*Barbus pallidus*) in South Africa: potential taxonomic and conservation implications. *African Zoology*. 50 (1). p.5-10.

**Heemstra, P.C.**

Iwatsuki, Y. and **Heemstra, P.C.** (2015) Redescriptions of *Polysteganus coeruleopunctatus* (Klunzinger 1870) and *P. lineopunctatus* (Boulenger 1903), with two new species from Western Indian Ocean. *Zootaxa*. 4059 (1). p.133-150.

**James, N.C.**

Potts, W.M., Götz, A. and **James, N.C.** (2015) Review of the projected impacts of climate change on coastal fishes in southern Africa. *Reviews in Fish Biology and Fisheries*. 25 (2015). p.603-630.

**James, N.C. and Mwale, M.**

Duncan, M., **James, N.C.**, Fennessy, S.T., Mutombene, R.J. and **Mwale, M.** (2015) Genetic structure and consequences of stock exploitation of *Chrysoblephus puniceus*, a commercially important sparid in the South West Indian Ocean. *Fisheries Research*. 164 (2015). p.64-72.

**Lamberth, S.J.**

da Silva, C., **Booth, A.J.**, Dudley, S.F.J., Kerwath, S.E., **Lamberth, S.J.**, Leslie, R.W., **Sauer, W.H.H.**, McCord, M.E. and Zweig, T. (2015) The current status and management of South Africa's chondrichthyan fisheries. *African Journal of Marine Science*. 37 (2). p.233-248.

**Lamberth, S.J. and Holleman, W.**

Von Der Heyden, S., Toms, J.A., Teske, P.R., **Lamberth, S.J.** and **Holleman, W.** (2015) Contrasting signals of genetic diversity and historical demography between two recently diverged marine and estuarine fish



Plain Rain Frog (*Breviceps fuscus*) in the woodland on the margins of Groenvlei Lake after rain.

Photo: Roger Bills

species. *Marine Ecology Progress Series*. 526 (2015). p.157-167.

**Murray, T.S., Whitfield, A.K. and Cowley, P.D.**

**Murray, T.S., Magoro, M.L., Whitfield, A.K. and Cowley, P.D.** (2015) Movement behaviour of alien largemouth bass *Micropterus salmoides* in the estuarine headwater region of the Kowie River, South Africa. *African Zoology*. 50 (4). p.263-271.

**Mwale, M.**

Gaither, M.R., Bernal, M.A., Fernandez-Silva, I., **Mwale, M.**, Jones, S.A., Rocha, C. and Rocha, L.A. (2015) Two deep evolutionary lineages in the circumtropical glass-eye *Heteropriacanthus cruentatus* (Teleostei, Priacanthidae) with admixture in the south-western Indian Ocean. *Journal of Fish Biology*. 87 (2015). p.715-727.

**Naesje, T.F. and Bennett, R.H.**

**Childs, A.R., Cowley, P.D., Naesje, T.F. and Bennett, R.H.** (2015) Habitat connectivity and intra-population structure of an estuary-dependent fishery species. *Marine Ecology Progress Series*. 537 (2015). p.233-245.

**Nunes, A.L.**

**Nunes, A.L., Tricarico, E., Panov, V.E., Cardoso, A.C. and Katsanevakis, S.** (2015) Pathways and gateways of freshwater invasions in Europe. *Aquatic Invasions*. 10 (4). p.359-370.

**Sloterdijk, H., James, N.C. and Weyl, O.L.F.**

**Sloterdijk, H., James, N.C., Smith, M.K.S., Ekau, W. and Weyl, O.L.F.** (2015) Populations dynamics and biology of an invasive population of mosquitofish *Gambusia affinis* in a temperate estuarine lake system. *African Zoology*. 50 (1). p.31-40.

**Swartz, E.R. and Chakona, A.**

**Chakona, G., Swartz, E.R. and Chakona, A.** (2015) Historical abiotic events or human-aided dispersal: inferring the evolutionary history of a newly discovered galaxiid fish. *Ecology and Evolution*. 5 (7). p.1369-1380.

**Taylor, J.C.**

Holmes, M. and **Taylor, J.C.** (2015) Diatoms as water quality indicators in the upper reaches of the Great Fish River, Eastern Cape, South Africa. *African Journal of Aquatic Science*. 40 (4). p.321-337.

Alakananda, B., Karthick, B., **Taylor, J.C.** and Hamilton, P.B. (2015) Two new species of *Nitzschia* (Bacillariophyceae) from freshwater environs of Lonar Crater Lake, India. *Phycological Research*. 63 (2015). p.29-36.

**Dalu, T., Taylor, J.C., Richoux, N.B. and Froneman, P.W.** (2015) A re-examination of the type material of *Entomoneis paludosa* (W SMITH) REIMER and its morphology and distribution in African waters. *Fottea*. 15 (1). p.11-25.

**Tweddle, D.**

**Tweddle, D.** (2015) What factors drive fishery yields in the Lower Shire River, Malawi? *African Journal of Aquatic Science*. 40 (3). p.307-310.

Abbott, J.G., Hay, C.J., Naesje, T.F., **Tweddle, D.** and van der Waal, B.C.W. (2015) Rain and Copper: The Evolution of a Fish Marketing Channel in a Rapidly Changing Region of Southern Africa. *Journal of Southern African Studies*. 41 (1). p.29-45.

**Tweddle, D. and Weyl, O.L.F.**

- Peel, R.A., Tweddle, D., Simasiku, E.K., Martin, G.D., Lubanda, J., Hay, C.J. and Weyl, O.L.F. (2015) Ecology, fish and fishery of Lake Liambezi, a recently refilled floodplain lake in the Zambezi Region, Namibia. *African Journal of Aquatic Science*. 40 (4). p.417-424.
- Tweddle, D., Cowx, I.G., Peel, R.A. and Weyl, O.L.F. (2015) Challenges in fisheries management in the Zambezi, one of the great rivers of Africa. *Fisheries Management and Ecology*. 22 (2015). p.99-111.
- Uiblein, F.  
 Uiblein, F. (2015) Editorial: What thrives between the waves and beneath the tides? Marine Biology Research sails into its second decade. *Marine Biology Research*. 11 (1). p.1-3.
- Nielsen, J.G., Schwarzans, W. and Uiblein, F. (2015) Review of the Indo-West Pacific ophidiid genera *Sirembo* and *Spottobrotula* (Ophidiiformes, Ophidiidae), with description of three new species. *Marine Biology Research*. 11 (2). p.113-134.
- Uiblein, F. and Gledhill, D.C. (2015) A new goatfish of the genus *Upeneus* (Mullidae) from Australia and Vanuatu, with inter- and intraspecific comparisons. *Marine Biology Research*. 11 (5). p.475-491.
- Uiblein, F. and White, W.T. (2015) A new goatfish of the genus *Upeneus* (Mullidae) from Lombok, Indonesia and first verified record of *U. asymmetricus* for the Indian Ocean. *Zootaxa*. 3980 (1). p.51-66.
- Uiblein, F. and Gouws, G.  
 Uiblein, F. and Gouws, G. (2015) Distinction and relatedness - Taxonomic and genetic studies reveal a new species group of goatfishes (Upeneus: Mullidae). *Marine Biology Research*. 11 (10). p.1021-1042.
- Wasserman, R.J.  
 Suarez-Morales, E., Wasserman, R.J. and Dalu, T. (2015) A New Species of *Lovenula Schmeil* (Copepoda, Calanoida, Diaptomidae) from the Eastern Cape Province of South Africa. *Crustaceana*. 88 (3). p.324-342.
- Wasserman, R.J., Jordaan, M. and Weyl, O.L.F.  
 Dalu, T., Wasserman, R.J., Jordaan, M., Froneman, P.W. and Weyl, O.L.F. (2015) An Assessment of the Effect of Rotenone on Selected Non-Target Aquatic Fauna. *PLoS One*. 10 (11). p.1-13.
- Weyl, O. and Cowley, P.D.  
 Taylor, G.C., Weyl, O., Cowley, P.D. and Allen, M.S. (2015) Dispersal and population-level mortality of *Micropterus salmoides* associated with catch and release tournament angling in a South African reservoir. *Fisheries Research*. 162 (2015). p.37-42.
- Weyl, O.L.F.  
 Lin, Y.J., Jessop, B.M., Weyl, O.L.F., Iizuka, Y., Lin, S.H. and Tzeng, W.N. (2015) Migratory history of African longfinned eel *Anguilla mossambica* from Maningory River, Madagascar: discovery of a unique pattern in otolith Sr:Ca ratios. *Environmental Biology of Fishes*. 98 (2015). p.457-468.
- Muller, C., Weyl, O.L.F. and Strydom, N.A. (2015) Introduction, establishment and spread of the Southern mouthbrooder *Pseudocrenilabrus philander* in the Baakens River, Eastern Cape, South Africa. *African Zoology*. 50 (3). p.259-262.
- Bokhutlo, T., Weyl, O.L.F., Mosepele, K. and Wilson, G.G. (2015) Age and growth of sharptooth catfish, *Clarias gariepinus* (Burchell, 1822) (Clariidae), in the Lower Okavango Delta, Botswana. *Marine and Freshwater Research*. 66 (2015). p.420-428.
- Kindler, D., Wagenaar, G.M. and Weyl, O.L.F. (2015) An assessment of the reproductive biology of the Marico barb *Barbus motebensis* from the upper Groot Marico catchment, South Africa. *African Journal of Aquatic Science*. 40 (4). p.425-431.
- Muller, C., Strydom, N.A. and Weyl, O.L.F. (2015) Fish community of a small, temperature, urban river in South Africa. *Water SA*. 41 (5). p.746-752.
- Ellender, B.R. and Weyl, O.L.F. (2015) Resilience of imperilled headwater stream fish to an unpredictable high-magnitude flood. *Koedoe*. 57 (1). p.1-8.
- Hill, J.M., Jones, R.W., Hill, M.P. and Weyl, O.L.F. (2015) Comparisons of isotopic niche widths of some invasive and indigenous fauna in a South African river. *Freshwater Biology*. 60 (2015). p.893-902.
- Weyl, O.L.F. and Deacon, N.R.  
 Hargrove, J.S., Weyl, O.L.F., Allen, M.S. and Deacon, N.R. (2015) Using Tournament Angler Data to Rapidly Assess the Invasion Status of Alien Sport Fishes (*Micropterus spp.*) in Southern Africa. *PLoS One*. 10 (6). p.1-14.
- Weyl, O.L.F. and Wasserman, R.J.  
 Dalu, T., Weyl, O.L.F., Froneman, P.W. and Wasserman, R.J. (2015) Trophic interactions in an austral temperate ephemeral pond inferred using stable isotope analysis. *Hydrobiologia*. 2015 (2015). p.1-14.
- Weyl, O.L.F., Ellender, B.R., Wasserman, R.J. and Woodford, D.J.  
 Weyl, O.L.F., Ellender, B.R., Wasserman, R.J. and Woodford, D.J. (2015) Unintended consequences of using alien fish for human benefit in protected areas. *Koedoe*. 57 (1). p.1-5.
- Whitfield, A.K.  
 Whitfield, A.K. (2015) Why are there so few freshwater fish species in most estuaries? *Journal of Fish Biology*. 86 (2015). p.1227-1250.
- Potter, I.C., Tweedley, J.R., Elliott, M. and Whitfield, A.K. (2015) The ways in which fish use estuaries: a refinement and expansion of the guild approach. *Fish and Fisheries*. 16 (2015). p.230-239.
- Magoro, M.L., Whitfield, A.K. and Carassou, L. (2015) Predation by introduced largemouth bass *Micropterus salmoides* on indigenous marine fish in the lower Kowie River, South Africa. *African Journal of Aquatic Science*. 40 (1). p.81-88.
- Whitfield, A.K. and Patrick, P.  
 Whitfield, A.K. and Patrick, P. (2015) Habitat type and nursery function for coastal marine fish species, with emphasis on the Eastern Cape region, South Africa. *Estuarine Coastal and Shelf Science*. 160 (2015). p.49-59.
- Woodford, D.J.  
 Wasserman, R.J., Vink, T.J.F., Woodford, D.J. and Froneman, P.W. (2015) Spawning and nest guarding of the river goby (*Glossogobius callidus*) from the Eastern Cape province of South Africa. *African Journal of Ecology*. 53 (2015). p.609-612.
- Woodford, D.J. and Weyl, O.L.F.  
 Bellingan, T.A., Woodford, D.J., Gouws, J., Villet, M.H. and Weyl, O.L.F. (2015) Rapid bioassessment of the effects of repeated rotenone treatments on invertebrate assemblages in the Rondegat River, South Africa. *African Journal of Aquatic Science*. 40 (1). p.89-94.



Jessica Glass, a PhD student from Yale University, is working with Professor Paul Cowley and Dr Gavin Gouws from SAIAB on the *Carangidae* (kingfish family) with emphasis on the genetics and evolutionary biology of giant kingfish *Caranx ignobilis* (in picture).

Photo: Stephan Holzhausen

## Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)

**Bennett, R.H., Cowley, P.D., and Næsje, T.F.**

**Bennett, R.H., Cowley, P.D., Childs, A.-R., Murray, T.S. and Næsje, T.F.** (2015) Management considerations for estuarine fishery species, from acoustic telemetry. *3rd International Conference on Fish Telemetry*. Canada.

**Chakona, A.**

**Chakona, A.** (2015) Description of a new species of *Pseudobarbus* from the Eastern Cape with redefinition of *P. afer* and resurrection of *P. senticeps*. *WSU/SAIAB Mini Symposium*. Mthatha.

Mazungulu, N. and **Chakona, A.** (2015) Morphological and molecular variation in *Amphilius natalensis* (Teleostei: Siluriformes) in southern Africa. *WSU/SAIAB Mini Symposium*. Mthatha.

Motshogoa, B., **Chakona, A.** and Cotterill, F.D.P. (2015) Systematics and biogeography of the mountain catfishes of the genus *Amphilius*, in southern Africa. *WSU/SAIAB Mini Symposium*. Mthatha.

**Coetzer, W.**

**Coetzer, W.** (2015) Eliciting and representing knowledge in biodiversity informatics. *Biodiversity Information Standards/TDWG Conference*. Nairobi, Kenya.

**Cowley, P.D.**

Elston, C., **Cowley, P.D.** and von Brandis, R.G. (2015) The ecology of the porcupine ray (*Urogymnus asperrimus*) at the St. Joseph Atoll, Seychelles. *3rd Southern African Shark and Ray Symposium*. Cape Town.

Hussey, N.E., Kessel, S.T., Aarestrup, K., Cooke, S.J., **Cowley, P.D.**, Fisk, A.T., Harcourt, R.G., Holland, K.N., Iverson, S.J., Kocik, J.F., Mills-Fleming, J.E. and Whoriskey, F.G. (2015) Aquatic animal telemetry: a window into the underwater world. *3rd International Conference on Fish Telemetry*. Canada.

Murray, T.S., **Cowley, P.D.** and Childs, A.R. (2015) The wanderings of juvenile leervis, *Lichia amia*, an estuarine-dependent piscivore. *3rd International Conference on Fish Telemetry*. Canada.

**Cowley, P.D., and Bennett, R.H.**

**Cowley, P.D., Bennett, R.H. and Murray, T.S.** (2015) ATAP - enhancing opportunities to explore marine animal movement behavior. *3rd Southern African Shark and Ray Symposium*. Cape Town.

**Cowley, P.D. and Smale, M.J.**

**Daly, R., Cowley, P.D., Smale, M.J. and Froneman, P.W.** (2015) Migration dynamics of bull sharks in the West Indian Ocean. *3rd International Conference on Fish Telemetry*. Canada.

**Ellender, B.R. and Weyl, O.L.F.**

**Coppinger, C.R., Ellender, B.R., Tarrant, J., Corrigan, B., Armstrong, N. and Weyl, O.L.F.** (2015) Conservation of headwater species and habitats in the Amathole Mountains: opportunities and challenges. *Southern African Society of Aquatic Scientists Conference*. Champagne Sports Resort, KwaZulu-Natal.

**Ellender, B.R., Coppinger, C.R. and Weyl, O.L.F.** (2015) Spatio-temporal population dynamics on non-native fish invasion fronts and their impacts on native fish communities. *Joint Entomological Society of Southern Africa/Zoological Society of Southern Africa Conference*. Grahamstown.

**Filmalter, J.D., and Cowley, P.D.**

**Filmalter, J.D., Cowley, P.D., Forget, F.G. and Dagorn, L.** (2015) The associative behaviour of silky sharks, *Carcharhinus falciformis*, with floating objects in the western Indian Ocean. *3rd Southern African Shark and Ray Symposium*. Cape Town.

**Gennari, E. and Cowley, P.D.**

**Gennari, E., Irion, D.T. and Cowley, P.D.** (2015) Movement-based behavioural modelling of white shark active telemetry data. *3rd International Conference on Fish Telemetry*. Canada.

**Gennari, E., Irion, D.T. and Cowley, P.D.** (2015) Segmentation and characterization of movement-based behavioural patterns of white sharks, *Carcharodon carcharias*, inferred from active acoustic telemetry data. *3rd Southern African Shark and Ray Symposium*. Cape Town.

**Gouws, G. and Gon, O.**

**Gouws, G. and Gon, O.** (2015) *Champsodon spp.* (Perciformes, Champsodontidae) in the Eastern Mediterranean: How many species

are there? *15th European Congress of Ichthyology*. Porto, Portugal.

**Gouws, G. and Holleman, W.**

**Gouws, G., Fennessy, S., Glass, J.R., Holleman, W., Berry, O. and Mann, B.Q.** (2015) Two species within one stock of an important fisheries species in the South Western Indian Ocean. *WSU/SAIAB Mini Symposium*. Mthatha.

**Gouws, G. and Porri, F.**

Mbobu, T., Vumazonke, L., Fusi, M., **Gouws, G. and Porri, F.** (2015) Transmission of bacterial symbionts in mangrove crabs. *WSU/SAIAB Mini Symposium*. Mthatha.

**James, N.C.**

**Rajkaran, A., Bornman, E., Leslie, T.D. and James, N.C.** (2015) Now you see me now you don't! The influence of habitat complexity and connectivity on fish abundance in mangrove, salt marsh and seagrass beds. *Western Indian Ocean of Marine Science Association*. Port Edward. South Africa. October 2015.

**Rajkaran, A., James N.C., Leslie, T. and Bornman, E.** (2015) Now you see me now you don't! The influence of habitat complexity and connectivity on fish abundance in mangrove, salt marsh and seagrass beds. *9th WIOMSA Scientific Symposium*. Wild Coast Sun.

**James, N.C.** (2015) River flow and fish in estuaries: which is better too little or too much? *Joint Entomological Society of Southern Africa/Zoological Society of Southern Africa Conference*. Grahamstown.

**Jordaan, M. and Weyl, O.L.F.**

**Jordaan, M. and Weyl, O.L.F.** (2015) Evaluation of the acute toxicity of the piscicide rotenone to the sharp-toothed catfish *Clarias gariepinus*. *Joint Entomological Society of Southern Africa/Zoological Society of Southern Africa Conference*. Grahamstown.

**Patrick, P.**

**Patrick, P.** (2015) Assemblage dynamics of larval fishes associated with various shallow water nursery habitats in Algoa Bay, South Africa. *WSU/SAIAB Mini Symposium*. Mthatha.

**Porri, F.**

Diele, K. and **Porri, F.** (2015) Global patterns in mangrove macrobenthos: a new approach for assessing microbenthic diversity and functions. *Aquatic Biodiversity & Ecosystems Conference (AMBEC)*. Liverpool, United Kingdom.

Cannicci, S. and **Porri, F.** (2015) Ecological and evolutionary consequences of air-breathing by crabs in mangrove forests. *Aquatic Biodiversity & Ecosystems Conference (AMBEC)*. Liverpool, United Kingdom.

Nokwali, Z., Nakin, M.D.V. and **Porri, F.** (2015) Patterns of distribution and habitat use of *Oxysteles sinensis* and *Oxysteles tigrina* in marine reserves and non-reserves of the Eastern Cape. *WSU/SAIAB Mini Symposium*. Mthatha.

**McQuaid, C. and Porri, F.** (2015) Simple biological patterns need not reflect simple drivers: an example from intertidal mussels. *Aquatic Biodiversity & Ecosystems Conference (AMBEC)*. Liverpool, United Kingdom.

**Porri, F., Duna, O., Goschen, W., Mian, S., Jackson, J., McQuaid, C. and Weidberg, N.** (2015) Larval transport in dynamic nearshore flow: stochasticity, behaviour or fast tracking currents? *Aquatic Biodiversity & Ecosystems Conference (AMBEC)*. Liverpool, United Kingdom.

**Porri, F., Duna, O., Goschen, W., Mian, S., Jackson, J., McQuaid, C. and Weidberg, N.** (2015) Larval connectivity in dynamic nearshore waters: stochasticity or behaviour? *WSU/SAIAB Mini Symposium*. Mthatha.

**Tweddle, D. and Weyl, O.L.F.**

**Peel, R.A., Taylor, G.C., Hill, J.M., Hay, C.J., Tweddle, D. and Weyl, O.L.F.** (2015) Pelagic food web structure and the potential for fishery development in an ephemeral floodplain lake. *Joint Entomological Society of Southern Africa/Zoological Society of Southern Africa Conference*. Grahamstown.

**Tweddle, D. & Weyl, O.L.F.** 2015. Political influences in inland fisheries management in southern Africa. *145th Annual Meeting of the American Fisheries Society*. Portland. United States of America.

**Wassermann, R.J., and Weyl, O.L.F.**

**Dalu, T., Wassermann, R.J., Alexander, M.E., Froneman, P.W., and Weyl, O.L.F.** (2015) Emergent impacts of structural complexity and temperature on Notonectid-Daphnia predator-prey dynamics. *Joint Entomological Society of Southern Africa/Zoological Society of Southern Africa Conference*. Grahamstown.

**Ndalen, P., Wassermann, R., Alexander, M., Ellender, B.R. and Weyl,**

O.L.F. (2015) A comparison of predatory functional responses of four non-native fish species from a South African river system. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Wasserman, R.J., and Weyl, O.L.F.

Wasserman, R.J., Alexander, M.E., Dalu, T., Kaiser, H. and Weyl, O.L.F. (2015) Multiple predator effects and the cost of intra- and interspecific interference: a functional response approach. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Wasserman, R.J.

Wasserman, R.J. (2015) Emergent impacts of structural complexity and temperature on Notonectid-Daphnia predator-prey dynamics. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Wasserman, R.J. (2015) A comparison of predatory functional responses of four non-native fish species from a South African River system. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Wasserman, R.J. (2015) Evaluation of the acute toxicity of the piscicide rotenone to the sharptooth catfish *Clarius gariepinus*. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Weyl, O.L.F.

Diedericks, G., Von der Heyden, S., Weyl, O.L.F. and Hui, C. (2015) Does source-sink dynamics facilitate the invasive success of *Micropterus dolomieu*? *Aquatic Biodiversity & Ecosystems*. Liverpool, United Kingdom.

Impson, N.D., Barrow, S., van der Walt, R. and Weyl, O.L.F. (2015) Challenges and successes facing South Africa's endemic species recovery in the future: the Rondegat River experience. *145th Annual Meeting of the American Fisheries Society*. Portland, United States of America.

Weyl, O.L.F.

Bellingan, T., Jackson, M., Woodford, D., Villet, M. and Weyl, O.L.F. (2015) Community and food web structure in the Keiskamma River system: A century after the introduction of invasive trout. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Shelton, J.M., Dallas, H.F., Weyl, O.L.F. and Esler, K.J. (2015) Influence of climate warming on interactions between invasive and native freshwater fish in the Cape Floristic Region. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Taylor, G.C., Hill, J.M., Peel, R.A., Hay, C.J. and Weyl, O.L.F. (2015) Assessing the diets and trophic interaction of predatory fish in two floodplain rivers, using stomach content and stable isotope analyses. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Vitule, J.R.S. and Weyl, O.L.F. (2015) Understanding invasion status and risks of an emerging species in the global aquaculture industry - the African sharptooth catfish *Clarias gariepinus*. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Weyl, O.L.F. (2015) Understanding the potential ecological impacts of an emerging species in global aquaculture - the African sharptooth catfish *Clarias gariepinus*. *21st Meeting of the Ichthyological Society of Brazil*. Recife, Brazil.

Weyl, O.L.F. (2015) Rotenone use to control alien invasive species: a South African case study. *Water Research Commission, Ecosystems Research & Innovation Symposium*. Broederstroom.

Weyl, O.L.F. (2015) The trouble with inland fisheries development in South Africa. *Southern African Society of Aquatic Scientists Conference*. KwaZulu-Natal.

Weyl, O.L.F. (2015) Yellowfish fisheries - do we know enough for effective management? *19th Yellowfish Working Group Conference*. KwaZulu-Natal.

Weyl, O.L.F., Barrow, S., Ellender, B.R., Impson, N.D., Jordaan, M. and Woodford, D.J. (2015) Native fish responses to the removal of an alien predator in the Rondegat River, South Africa. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Weyl, O.L.F., Barrow, S., Impson, N.D., Esler, K.J., Finlayson, B., Jordaan, M. and Woodford, D.J. (2015) Response of endemic species in South



Professor Paul Cowley and his students are working with Dr Rainer von Brandis (SOSF D'Arros Research Centre) to understand the behavioural ecology of several fish species important to the St Joseph Atoll, Seychelles.

Photo: Rainier von Brandis

Africa's Rondegat River to removal of smallmouth bass. *145th Meeting of the American Fisheries Society*. Portland, United States of America.

Weyl, O.L.F. and Woodford, D.J.

Mofu, L., Weyl, O.L.F. and Woodford, D.J. (2015) Assessing the biology of the River Goby as a proxy to understand global goby invasions. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

Whitfield, A.K.

Pollard, M., Hodgson, A.N. and Whitfield, A.K. (2015) Does underwater video monitoring provide an accurate account of large mobile fish species in estuarine eelgrass environments? *Joint Entomological Society of Southern Africa/ Zoological Society of Southern African Annual Conference*. Grahamstown.

Whitfield, A.K. (2015) Why the conservation of estuarine environments are vital to coastal fisheries in the Indian Ocean. Invited keynote address: *2nd International Conference of Fisheries, Aquaculture and Environment in the Indian Ocean*. Muscat, Oman.

Whitfield, A.K. (2015) Impediments and imperatives around fish conservation in South African estuaries. Invited keynote address: *Southern African Society of Aquatic Scientists Annual Conference*. KwaZulu-Natal.

Woodford, D.J., Mandrak, N., and Weyl, O.L.F.

Woodford, D.J., Maclsaac, H., Richardson, D.M., Mandrak, N., van Wilfgem, B.W., Wilson, J.R.U. and Weyl, O.L.F. (2015) Confronting the wicked problem of managing invasive species. *Joint Entomological Society of Southern Africa/ Zoological Society of Southern Africa Conference*. Grahamstown.

## UNIT FOR THE HUMANITIES AT RHODES UNIVERSITY

The Unit for the Humanities at Rhodes University (UHURU) sets out to develop the formation of a new cadre of critical thinking intellectuals from South Africa and Africa. Particular emphasis is placed on the development of critical black South African men and women scholars who will contribute significantly to the important debates in South Africa and on the African continent. In particular these young scholars will be able to contribute meaningfully to the debates concerning the meaning of freedom, agency and development on our continent, and more broadly to the idea of human emancipation as well as to the transformation and de-colonization of the South African higher education landscape.

### Overview

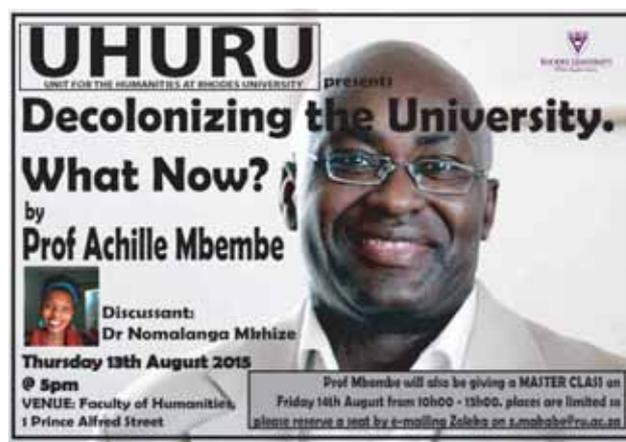
Universities throughout South Africa require vibrant humanities faculties to drive the debates of the day and to provide the theoretical and empirical material founded on rigorous scholarship which must underpin them. The 'idea of the human' is the basis on which the human sciences were founded but in its historical application, this understanding has been overwhelmingly applied to certain privileged people only. The idea which UHURU rigorously maintains is that all people without exception must be considered as human and as agents of their own history. The human sciences which form the bedrock of any humanist universality (from which the idea of the university emanates) cannot exclude anyone. Our heritage of class, racial and gender exclusion cannot simply be wiped away at the stroke of a legal pen. Xenophobic exclusion for example is a reminder of its continuous prevalence. Humanistic inclusion requires ongoing hard work of thinking and action. The scholarly work of intellectual rigour is fundamental to its attainment.

UHURU came into its own during 2015. It was staffed by Professor Michael Neocosmos (Director), Dr Richard Pithouse (Senior Researcher) and Ms Zoleka Makabe (Administrator). A Postdoctoral Fellow, Dr Chika Mba joined UHURU in the second half of 2015. A total of five (5) Masters students and one Doctoral student were awarded UHURU bursaries in 2015.

### Visitors

UHURU hosted a number of important seminars, public lectures and book launches. It invited many distinguished international scholars, some of whom are listed below. In so doing it has been able to fulfil its mandate of enabling debate, providing a stimulating intellectual environment for students and engaging in an epistemic transformation of thought in the Humanities at Rhodes University.

The overwhelming majority of scholars and distinguished visitors have been black or from the Global South. UHURU also hosted speakers from all the humanities. This was done through the medium of seminars, public lectures, master classes and book launches amounting to several events per week. Moreover students were encouraged to expand their knowledge of intellectual production from the Global South through organised reading groups of appropriate texts and were provided with a forum to present their



own work before an audience of their peers. UHURU also organised a number of writing workshops to enable students to contribute their voices to debates in the media. Finally, we have been setting up formal links with researchers at universities with similar interests and with scholars in other countries who have been appointed as associates of UHURU. These included an MoU with the University of Lille1 in France and the formal affiliation to UHURU of Dr Raj Patel and Professor Nigel Gibson from the USA.

### Unit for Humanities at Rhodes University (UHURU)

Particularly noteworthy visitors during the year included: Professor Ernest Wamba-dia-Wamba (DRC), Professor Ananya Roy (USA), Professor Peter Linebaugh (USA), Professor Achille Mbembe (Wits), Mr Riason Naidoo (Curator), Mr Mandla Langa (SA Novelist), Professor Raquel Gutierrez (Mexico), Professor Nivedita Menon (JNU, India), Professor Lewis Gordon (USA), Professor Abdul JanMohammed (USA), Professor Nigel Gibson (USA), Professor Yusuf Al-Balushi (USA), Professor Alf Nielsen (Norway), Professor Zine Magubane (USA). From South Africa we have ensured that new young black intellectual voices are being heard. During the year these included Professor Hlonipa Mokoena (Wits), Professor Julian Brown (Wits), Mr Stuart (Human Rights Lawyer), Ms Trudi Makhanya (economist),

Professor Koni Benson (UCT), Professor Srila Roy (Wits), Mr Tshepo Madlingozi (Pretoria), Professor Lungisile Ntsebeza (UCT).

In addition we organised two very successful conferences over one day each: one on Xenophobia in South Africa and Africa opened by the Vice Chancellor Dr Sizwe Mabizela, and another on Popular Struggles during the 1970s, 1980s and today with Professor Raymond Suttner, Dr Aubrey Mokoape and a number of current student activists. Together all these events have contributed to a creating an intellectual environment which has been attracting local, national and international attention. Our vibrant website at [www.ru.ac.za/uhuru/](http://www.ru.ac.za/uhuru/) provides a comprehensive resource to access many of our recordings of our events.

Master Class with Professor Wamba-dia-Wamba UHURU 28th May 2015.

## Research and Publications

Staff and students have been engaging in research in a number of areas revolving around UHURU's core interest of human emancipation. The outcomes of this research are apparent in publications both in academic subsidy-earning journals and in engagement in public debates through journalistic articles.

**Professor Michael Neocosmos**

Director: Unit for the Humanities at Rhodes University (UHURU)

## Peer Reviewed Subsidy-Earning Journal Research Publications

**Gibson, N.C.**

**Gibson, N.C.** (2015) Romanticism reconsidered: Fanon, reciprocity and revolution (on Fanon's ninetieth birthday). *Acta Academica*. 47 (2). p.1-18.

**Naicker, C.**

**Naicker, C.** (2015) Worker Struggles as Community Struggles: The Politics of Protest in Nkaneng, Marikana. *Journal of Asian and African studies*. 2015. p.1-14.

**Neocosmos, M.J.**

**Neocosmos, M.J.** (2015) The Sociology of Crisis and the Crisis of Sociology: Academic Marxism and the Absence of a Thought of Politics in South Africa. *Development and Change*. 47 (1). p.188-202.

**Patel, R.**

**Patel, R., Kerr, R.B., Shumba, L. and Dakishoni, L.** (2015) Cook, eat, man, woman: understanding the New Alliance for Food Security and Nutrition, nutritionism and its alternatives from Malawi. *Journal of Peasant Studies*. 42 (1). p.21-44.

## Peer Reviewed Non-Subsidy-Earning Journal Research Publications

**Naicker, C.**

**Naicker, C.** (2015) Marikana and the Subaltern: The Politics of Specificity. *Economic and Political Weekly*. 24 (2015). p.99-107.

**O'Halleran, P.**

**O'Halleran, P.** (2015) Moments of conceptual potential: Frantz Fanon, the postcolony, and "nonwar communities". *Politics, Groups, and Identities*. 2015. p.1-15.

## Book Reviews and Editorial Introductions

**Ghedi Alasow, J.**

**Ghedi Alasow, J.** Book review: "Regarding Muslims: from slavery to post-apartheid". *Journal of Asian and African Studies*. 50 (2015). p. 486-487.

**Ghedi Alasow, J.** Book Review: Teresa Connor, *Conserved Spaces, Ancestral Places: Conservation, history and identity among farm labourers in the Sundays River Valley, South Africa*. *Journal of Asian and African Studies*. 50 (4). p. 486-493.

**Mthonti, F.**

**Mthonti, F.** Book Review: Review of *Memoirs of a Born Free: Reflections on the Rainbow Nation*. *Journal of Asian and African Studies*. (2014).

**O'Halloran, P.**

**O'Halloran, P.** (2015) Book Review: *Dreaming the Post-Colony: Achille Mbembe's On the Postcolony*, Wits University Press, 2015, 274 pages, paperback, EAN: 978 1 86814 691 8. *Journal of Asian and African studies*. 2015. p.1-6.

**Pithouse, R.M.**

**Pithouse, R.M.** (2015) Book Review: Meghan Healy-Clancy and Jason Hickel (eds.), *Ekhaya: The Politics of Home in KwaZulu-Natal*, University of KwaZulu-Natal Press: Pietermaritzburg, 2014, 278 pp. ISBN: 978 186914 254 4. *Journal of Asian and African studies*. 2015 (2015). p.1-2.

**Neocosmos, M.J.**

**Neocosmos, M.J.** (2015) Editorial Introduction: the Marikana Moment, Worker Political Subjectivity and State Violence in Post-Apartheid South Africa. *Journal of Asian and African studies*. 2015. p.1-8.





**RHODES UNIVERSITY**  
*Where leaders learn*

[www.ru.ac.za](http://www.ru.ac.za)