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- Rhodes University Mathematics Education Project (RUMEP)
- South African Institute for Aquatic Biodiversity (SAIAB)
- Unit for the Humanities at Rhodes University (UHURU)
In summary, our goals are to
1. Maintain and strengthen our general formative degree offering and the research, teaching, and community-engagement nexus which enables our students to access powerful knowledge;
2. Enable access to all academically-qualifying students and provide them with conditions which allow them to flourish as critical and engaged citizens;
3. Maintain and strengthen our unique institutional niche as a research-intensive university outside a major urban area;
4. Ensure financial and environmental sustainability practices through good governance, leadership and management;
5. Attract, nurture and retain staff of high-calibre and maintain an inclusive, welcoming, affirming and positive intellectual environment;
6. Provide relevant and appropriate academic infrastructure, equipment and facilities to support our academic project; and
7. Promote Rhodes University as an institution for the public good in local, provincial, national and international contexts.

The plan calls upon all of us to re-imagine our University as one in which sustainability permeates every aspect of our academic endeavour, including an elevated sense of awareness and responsibility of our graduates for building sustainable communities. It calls upon us to ensure that we are simultaneously locally responsive and globally engaged. It calls upon us to work towards advancing social justice and do all that we can to restore the dignity and humanity of those who were treated as lesser beings by the previous dispensation. And it calls upon us to remind ourselves that our university does not exist in a vacuum. It exists within a social, cultural and economic...
Rhodes University is very fortunate to have outstanding, dedicated and committed academic and support staff who take a deep and keen interest in the growth, development and academic success of each and every one of our students.

Our intellectual community is well placed to grow with determined pace along our planned trajectory. The Transformation Summit held in 2017 was an opportunity for our community and stakeholders to reimagine our place, purpose and value in society, and our role in building a better world, and was a primary data source for informing the Institutional Development Plan.

The results of the 2017 academic year were celebrated during a bumper graduation weekend in April 2018, in which a record 2492 graduates were capped at 6 graduation ceremonies, 42% of whom were Postgraduates, 63% were women, and 16% were international students. We are proud that ours is a university that inspires hope, creativity and imagination.

The Centre for Biological Control in the Department of Zoology and Entomology was officially launched in 2017 in recognition of this high profile research focus area of the University. Many of our outstanding scholars attracted external acclaim. Among them were:

- **Professor Michael Neocosmos** whose book *Thinking Freedom in Africa* won the 2017 International Frantz Fanon Outstanding Book Award.

- **Professor Pam Maseko**, who was a double winner at the South African Literary Awards.

- **Distinguished Professor Heila Lotz-Sisitka** and Dr Leigh Price, who received the 2017 Cheryl Frank Memorial Prize for their book *Critical Realism, Environmental Learning and Social-Ecological Change*.

- **Professor Andrew Buckland** who won the Fleur du Cap Best Actor Award for his lead role in *The Inconvenience of Wings*.

- **Distinguished Professor Tebello Nyokong** who attracted a rare funding award in the South Africa / Canada Research Chairs Tri-lateral Partnership Initiative, and who received two Council for Scientific and Industrial Research (CSIR) awards for her student graduations in the National Laser Centre Programme.

- **Professor Rosie Dorrington** who attracted a highly competitive SARCHi Community of Practice grant for establishing a Marine Science Community of Practice in South Africa.

- **Dr William Bennett**, who received a Prestigious Award rating (P-rating) from the National Research Foundation.

- The ‘Amanzi for Food’ project, a student group in the SARCHi Research Chair in Global Change Social Learning Systems Development, which was selected for a ‘pitch’ focussing on innovative education and training for green economy development at the “Partnership on Action for a Green Economy Inter-Ministerial conference”, held in Berlin.

- **Professor Janice Limson** and her team who brought distinction to the University by winning the best prototype award on show at the National Innovation Bridge held at the Gallagher Convention Centre, with a low-cost, biological toolkit for running a remote diagnostic laboratory, which allows for the diagnosis of a range of viral, bacterial and fungal infections.

- The Vice-Chancellor’s Distinguished Research Award (in the age group 40 and below) for 2017 had two (2) recipients, Dr Sally Matthews of the Department of Political and International Studies, and Associate Professor Ferdi Botha of the Department of Economics and Economic History. The Vice-Chancellor’s Distinguished Senior Research Award for 2017 went to SARCHi Chair Professor Russell Kaschula of the African Language Studies Section in the School of Languages and Literatures, while the Book Award went to Professor Gary Baines of the Department of History for his book entitled “South Africa’s ‘Border War’: Contested Narratives and Conflicting Memories”.

- Many other individual academics received widespread national and international acknowledgement of their work. Their fine accomplishments are contained within the pages of this report.

Dear Rhodes University community,

We extend our congratulations and thanks to all of our researchers, supervisors, collaborators, funders, donors, and partners who contributed to making 2017 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.

Dr Sizwe Mabizela
Vice-Chancellor
Rhodes University's position as a small research-led and rural based university is relatively unique in the sector, and is something that we seek to build upon. In terms of absolute contribution of research outputs, our capacity is modest in relation to big urban research-orientated institutions. But in terms of measures which are normalised to our size, we are outstanding. The per capita accredited research output benchmark that the Department of Higher Education and Training (DHET) releases annually is a rough measure of value for money - research output of an institution in relation to the Council’s academic staff cost.

The rate of increase in this measure has been consistent at Rhodes University, and it says much about the creativity, dedication and rigour of our researchers and postgraduate supervisors.

All of those whose knowledge work is listed in this report have contributed wonderfully to the intellectual space of the university.
Rhodes University's Accredited Research and Postgraduate Graduation output growth 2008 to 2016 (from the DHET annual national report on audited research outputs)

Rhodes University's Weighted Research Output per Capita (2007-2016) (from the DHET annual national report on audited research outputs)

and to the academic capacity and the scholarly reputation that Rhodes University enjoys. We have some significant challenges to address, chief amongst them being a narrow concentration of highly productive researchers, a skewed demographic representation amongst academic staff in relation to the student body, and the constant challenge of Postgraduate financial aid. But we have a strong base of outstanding scholars to build upon in addressing these issues.

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 2017, 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 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
Rhodes University acknowledges and congratulates the following for their accredited research outputs (Journal Publications, Books & Chapters, and Masters/Doctoral students) graduated in 2017:

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“There’s nothing left to say about me!” Nyokong flashes one of her signature beaming smiles. “For the last so many years I’ve been the top publishing scientist at Rhodes and produced a lot of students. I don’t have any space left on my office walls for awards” she chuckles. “So what do you want to ask me?”

Well, at an age when most other academics would be easing comfortably into retirement, what keeps the sextenegenarian chemistry professor passionate about her field? “I think I am driven by young people,” she says. “You know when you see these young kids who never thought in their lives that they’d have a PhD? Now all of a sudden they’re thinking this is possible even if they happened to come from a village where they don’t even know what a PhD is. To bring those possibilities out of students is what really keeps me going.”

It’s precisely Nyokong’s dedication to passing on her expertise and producing knowledge that led to the CSIR National Laser Centre Rental Pool Programme (RPP), honouring her with two (2) awards: first, for the number of students trained and second, the number of doctorates awarded in 2016/2017. Nyokong currently holds the DST-NRF Research Chair in Medicinal Chemistry and Nanotechnology, and is Director of the RU/DST World-Class Researcher
Centre for Nanotechnology Innovation focusing on sensors. An impressive seven (7) doctoral students graduated from Nyokong’s programme in the past two (2) years, which is an African record. The students conducted groundbreaking research on the development of new medicine and wrote a significant number of papers, a requirement of the programme.

“I believe our standard is very high and we need to expose students to international arenas, so they believe their standard is high,” she says, explaining her motivation for taking six (6) of her most promising young scholars with her to Germany for a conference. “You can’t be a PhD student only in South Africa, you should be a PhD student who could be in Oxford. So my passion is really about training world class young people who are confident but also compassionate”.

This last phrase strikes a particularly apt chord. Dubbed “the Compassionate scientist”, Nyokong has dedicated her career, both nationally and internationally, to not only advancing the frontiers of scientific research, but also serving as an inspiration for women and previously disadvantaged communities in science.

“I think it’s important for me to share my experience with others. When you grow up with very little you appreciate everything you get, and you learn how to share,” she says.

She recalls her own journey from being a barefoot young shepherd girl living in the mountains of rural Lesotho to earning a bachelor’s degree in chemistry and biology from the University of Lesotho in 1977, an MSc in chemistry from McMaster University in Canada four (4) years later, and a PhD in chemistry from the University of Western Ontario in 1987. After a Postdoctoral stint at the University of Notre Dame in the United States, Nyokong returned to teach at the University of Lesotho before joining Rhodes University in 1992 as a lecturer.

“Look, when I first arrived at Rhodes in 1992, as a black woman I wasn’t expected to succeed. It was like I was given a rope to hang myself, the whole idea was ‘let’s see what this black woman can do,’” she recalls. “But I can’t complain because I was given space to do research and it helped me a lot to get started.” Over the next decade persistence and an impeccable work ethic underpinned Nyokong’s international reputation as a top class researcher in chemistry and nanotechnology. An invitation from the National Laser Centre urging her to apply for the use of their newly acquired Laser technology illustrates her commitment to innovative research. “Somebody called me at 10pm from the National Laser Centre saying, ‘we will be there in the morning at 10am, could you have an application ready for us?’,” she says. “What do you do? You’re not going to sleep, you seize the opportunity, and if you fail you fail, but you’ve got to take a chance.” After working throughout the night, Nyokong had completed the proposal and her application was successful. It was securing the use of this technology that empowered Nyokong to set up a research laboratory at Rhodes in order to conduct research on the effective treatment of cancer through photodynamic therapy, an alternative to chemotherapy.

“Cancer is a horrible disease. If you go through chemotherapy, you may as well die of chemotherapy rather than the cancer itself,” she says. “So what we do as chemists is develop, among other things, drugs for cancer treatment, photodynamic laser treatment, and lasers allow us to test how stable they are.” As a scientist Nyokong asserts that any practical application of such cutting edge research begins with the personal curiosity of the researcher. “Look, a lot of discoveries were made by curiosity, not necessarily by practical application,” she says. “I wasn’t interested in cancer research, but then I saw that I love lasers and they can be useful. The application wasn’t my mission, my mission was to play with lasers. This is why they call it ‘blue sky research’ at the National Research Foundation. We need to have people who are dreamers. Otherwise we will never get Nobel Prize winners.”

It is such an unabashed idealism that informs Nyokong’s commitment to training future generations of chemists at Rhodes University. “I am a very positive person because I see positivity all around me,” she says. “I like to protect the underdog and Rhodes is an underdog in the sense that it’s a small university and it doesn’t have much funding, yet I run a huge research centre here. No one believes how state-of-the-art we are. Some people don’t think much of us, they come here and say: ‘at Rhodes?’ But yes, in terms of research in chemistry, Rhodes is one of the top three (3) universities, and per [student] capita we are still the top.”

Nyokong argues that her own success in supervising – one hundred and twenty (120) MSc, PhD and Postdoctorates in the past twenty-five (25) years can be attributed to creating an academic environment where promising young researchers are given the break to kickstart their own research. “We work differently from other faculties in that students work with us, rather than independently. We are a part of the same research team: students work in the lab under my supervision, and then we write together,” she explains. “So success breeds success. Many of the staff members that have joined us saw our success and wanted to come teach here. Students also see that success, and so they want to come and have high class training here. But if anyone is not creating new knowledge they should not be in the university!” she cautions animatedly.

“So I am here to motivate my students. If you talk to them they’ll tell you that I am the most horrible person who made them work so hard! It is hard training, but we need to train people who appreciate the value of research, and are not afraid of hard work. Some young people view hard work as not having a life. That’s not true,” she says.
World-Class Researcher | Distinguished Professor Tebello Nyokong

"I can't call this work because it's fun. I get paid for having fun, so for me this is an absolute pleasure. I get up in the morning and know I'm coming to a happy place. I don't view this as work the way people define this as 'work', it is my passion," she continues.

It's this fundamental passion for furthering scientific research in South Africa that underpins Nyokong's unflagging commitment to mentoring the current crop of more than thirty (30) PhD and Masters as the Director of the Centre for Nanotechnology Innovation at Rhodes. "I have supervised a lot of students, maybe too many, so I sometimes wonder how long I can keep on doing what I am doing," she smiles. "I'm not feeling tired, maybe psychologically tired because I'm supposed to be tired at my age. But you know, for me it's the lives of the students, not the load that keeps me motivated."

It's such compassion that fuels Nyokong's desire to continue to empower the next generation of South African and African scientific researchers. "Students need to be challenged in order to succeed as researchers. Research is all about learning the discipline of critical thinking, it's all about learning the discipline of writing," she says.

"But my wish is to help students realise that research is not just about learning new knowledge, it is also about advancing yourself and advancing science for the benefit of your community. It's about development through research for the good of the entire country. But it's also about working on what you really like doing, so don't follow the money! Follow your passion first, then the money will come."

- Miles Keylock
FACULTY OF COMMERCE
(6 PhDs)

**DEGREE OF DOCTOR OF PHILOSOPHY**


**FACULTY OF EDUCATION**

(13 PhDs)

**DEGREE OF DOCTOR OF PHILOSOPHY**


FACULTY OF HUMANITIES
(29 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


COPTEROS, Athina, MA (Rhodes), in Geography, in the Department of Geography. Degree by thesis. Thesis: Drawing on principles of Dance Movement Therapy practice in a South African water research context. Supervisor: Professor CG Palmer. Co-supervisors: Professor RC Fox and Professor V Karou (Queen Margaret).


MAZWI, Ntombozzi Rose-May, BAHons (Rhodes), MA (Stell), in African Languages, in the School of Languages & Literatures. Degree by thesis. Thesis: Edition, translation and critical analysis of biographical poems contributed by
PHD GRADUATES AT THE 2017 GRADUATION CEREMONY


NKAMBULE, Chantell, DEGREE OF DOCTOR OF PHARMACY


FACULTY OF SCIENCE

(38 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


ATEMKENG TEUFACK, Marcellin, MSc (Dschang), in Physics, in the Department of Physics. Degree by thesis. Thesis: Data compression, field of interest shaping and fast algorithms for direction-dependent deconvolution in radio interferometry. Supervisor: Professor OM Smirnov.


BORG, Carl-Johan, MSc (Uppsala), in Geography, in the Department of Geography. Degree by thesis. Thesis: Identifying growth criteria and sediment movement mechanisms of needle ice using high-frequency environmental and visual monitoring. Supervisor: Professor I Mieklejohn. Co-supervisors: Professor J Boehhouwers (Uppsala) and Professor W Nel (Fort Hare).


HEPBURN, Colleen, MSc (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The thrips (Insecta: Thysanoptera) community in Macadamia (Proteaeeae) orchards of Mpumalanga Province, South Africa. Supervisor: Professor MH Viliet.


KENFACK VOUKENG, Sonia Nadège, MSc (Yaoundé), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Biotic and abiotic factors promoting the development and proliferation of Water Hyacinth (Eichhornia crassipes (Mart.) Solms-Laub) in the Wouri basin (Douala- Cameroon) and environs, with implications for its control. Supervisor: Professor MP Hill. Co-supervisor: Dr PSR Weyl (ICABI).

KIBET, Caleb Kipkuri, MSc (Rhodes), in Bioinformatics, in the Department of Computer Science. Degree by thesis. Thesis: Transcription factor binding specificity and occupancy. Supervisor: Professor P Machanic.

KITUYI, Sarah Naulikha, MSc (Kenyatta), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The role of HOP in emerin-mediated nuclear structure. Supervisor: Professor AL Edkins.

KNOX, Tamryn, BScHons (Rhodes), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: The contribution of non-timber forest products to rural livelihoods and their price determination in different agro-ecological zones of South Africa. Supervisor: Professor CM Shackleton.

RHODES UNIVERSITY RESEARCH REPORT 2017

RHODES UNIVERSITY RESEARCH REPORT 2017


RAMOEJANE, Mpho, MSc (Rhodes), in Ichthyology, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Genetic, diversity, evolutionary relationships and conservation of southern African Labeo fishes in relation to water management. Supervisor: Dr OLF Weyl (SAIAB). Co-supervisors: Dr E Swartz (Scientia Research) and Dr B Sidlauskas (Oregon State University).


TAYLOR, Geraldine Claire, MSc (Rhodes), in Fisheries Science, in the Department of Ichthyology and Fisheries Science. Degree by thesis. Thesis: Comparative fish ecology in three periodically connected rivers in the upper Zambezi and Okavango ecoregions. Supervisor: Dr OLF Weyl (SAIAB). Co-supervisors: Dr C Hay (UNAM) and Dr J M Hill.
PhD Graduates at the 2018 Graduation Ceremony

FACULTY OF COMMERCE
(6 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


FACULTY OF EDUCATION
(13 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


FACULTY OF HUMANITIES (20 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


HAYWARD, Janet Mary. BScSci (Rhodes), BAHons (WSU), in Anthropology, in the Department of Anthropology. Degree by thesis. Thesis: “We are white”: Oral tradition, documented history and molecular biology of Xhosa clans descended from non-African forebears and their expression of this ancestry through the idiom of ancestor religion. Supervisor: Professor RC Palmer.


MAVUSO, Jabulile Mary-Jane Jace. MSc (Stell), in Psychology, in the Department of Psychology. Degree by thesis. Thesis: Narrated experiences of the pre-termination of pregnancy counselling healthcare encounter in the Eastern Cape public health sector. Supervisor: Distinguished Professor C MacLeod.


NDDODANA-BREEN, Bongani Brian Kenneth, in Music, in the Department of Music and Musicology. Degree by Composition Portfolio. Supervisor: Professor J Brukman.

SOMLATA, Zakhile, MA (Stell), in African Languages, in the School of Languages & Literatures. Degree by thesis. Thesis: A critique of language policy and implementation strategies used in selected institutions of higher learning in South Africa. Supervisor: Professor R Kaschula. Co-supervisors: Professor MK Ralarala (CPUT) and Dr E Ivala (CPUT).


FACULTY OF LAW
(1 PhD)

DEGREE OF DOCTOR OF PHILOSOPHY


FACULTY OF PHARMACY
(2 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


FACULTY OF SCIENCE
(44 PhDs)

DEGREE OF DOCTOR OF PHILOSOPHY


ADEYO, Olusegun Richard, MSc (Ibadan), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Bioprospecting for amylases, cellulases and xylanases from ericoid associated fungi, their production and characterisation for the bio-economy. Supervisor: Professor J F Dames. Co-supervisor: Professor Bi Pletschke.

ALBERTYN, Sonnica, MScAgric (Stell), in Entomology, in the Department of Zoology and Entomology. Degree by thesis. Thesis: Thaumatotibia leucotreta (Meyrick) (Lepidoptera: Tortricidae) population ecology in citrus orchards: The influence of orchard age. Supervisor: Distinguished Professor MP Hill. Co-supervisor: Dr S Moore (Citrus Research Institute).


BENTLEY, Stephen John, MSc (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: Biochemical characterization and small molecule modulation of the interaction between two cytosolic Hsp70s from Trypanosoma brucei and potential co-chaperones. Supervisor: Dr A Boshoff.

BROWN, Dane Lesley, MSc (UWC), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: Investigating combinations of feature extraction and classification for improved image-based multimodal biometric systems at the feature level. Supervisor: Professor KL Bradshaw. Co-supervisor: Mr J Connan.

BROWN, David Kyle, BScHons (Rhodes), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Bioinformatic tool development with a focus on structural bioinformatics and the analysis
of genetic variation in humans. Supervisor: Professor O. Tastan-Bishop.


COCKBURN, Jessica Jane. BScHons (Rhodes), MSc (North-West), in Environmental Science, in the Department of Environmental Science. Degree by thesis. Thesis: Stewardship and collaboration in multifunctional landscapes: A transdisciplinary enquiry. Supervisor: Dr G Cundill (IDRC). Co-supervisors: Professor M Rouget (UKZN) and Professor SE Shackleton (UCT).


DUBAZANE, Makhosonke Berthwell. BScHons (UKZN), MSc (Wits), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Modelling ionospheric vertical drifts over the African low latitude region. Supervisor: Dr JB Habarulema (SANSA).


GALLAGHER, Sean. BScHons (Rhodes), in Botany, in the Department of Botany. Degree by thesis. Thesis: Elevated CO\textsubscript{2} determines cell damage and nitrogen allocation in barley subjected to aphid herbivory. Supervisor: Professor CEJ Botha. Co-supervisor: Dr MJ Hill (DFG).


HANSEN, Christel Dorothee. MSc (Rhodes), in Geography. Degree by thesis. Thesis: On high-altitude and high-latitude frost environments. Supervisor: Professor KI Meiklejohn. Co-supervisor: Professor W Nel (Fort Hare).

HO, Lance St John. BScHons (Rhodes), in Biotechnology, in the Biotechnology Innovation Centre. Degree by thesis. Thesis: Key considerations for novel aptamer generation and aptasensor platform design: A case study on human \textalpha\textsubscript{II}ITI-thrombin and histamine as sensor targets. Supervisor: Dr R Fogel. Co-supervisor: Professor J L Limson.

JUKES, Michael David. MSc (Rhodes), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Baculovirus synergism: Investigating mixed alphabaculovirus and betabaculovirus infections in the False Codling Moth, Thaumatobibia leucotreta, for improved pest control. Supervisor: Professor C Knox. Co-supervisors: Distinguished Professor MP Hill and Dr S Moore (Citrus Research Institute).


MATHATHI, Sphesihle. MSc (UKZN), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Advanced radio interferometric simulation and data

MALGAS, Samkelo, BSc (UFS), MSc (Rhodes), in Biochemistry, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: Formulation of an enzyme cocktail, HoloMix, using cellulolytic and xylanolytic enzyme core-sets for effective degradation of various pretreated hardwoods. Supervisor: Professor BL Pletschke.

MATAMBA, Tshimangadzo Merline, MSc (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Longterm analysis of ionospheric response during geomagnetic storms in mid, low and equatorial latitudes. Supervisor: Dr B Habarulema (SANSA).


MOSES, Vuyani, MSc (Rhodes), in Bioinformatics, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: The investigation of type-specific features of the copper coordinating Aa9 proteins and their effect on the interaction with crystalline cellulose using molecular dynamics studies. Supervisor: Professor O Tastan-Bishop. Co-supervisor: Dr KA Lobb.


NTSEKHE, Mathe Victoria Kuena, MSc (Rhodes), in Computer Science, in the Department of Computer Science. Degree by thesis. Thesis: Building Khwezi, a digital platform to capture everyday indigenous knowledge for improving educational outcomes in marginalised communities. Supervisor: Professor A Tezzoli.

NUNHOKEE, Chunetta Dee, BSc(Hons) (Mauritius), MSc (Rhodes), in Physics, in the Department of Physics and Electronics. Degree by thesis. Thesis: Observing cosmic reionization with PAPER: polarized foreground simulations and all sky images. Supervisor: Dr G Bernardi (SKA SA). Co-supervisor: Professor OM Smimov.


OLUWAFEMI, Kola Augustus, BSc(Hons) (Akungba), MSc (Ibadan), in Chemistry, in the Department of Chemistry. Degree by thesis. Thesis: Exploring the potential of imines as anti-protozoan agents with focus on Trypanosoma brucei and Plasmodium falciparum. Supervisor: Dr R Klein.


WATERWORTH, Samantha Che, MSc (Rhodes), in Microbiology, in the Department of Biochemistry and Microbiology. Degree by thesis. Thesis: An investigation into the bacterial biosynthetic origins of bioactive natural products isolated from South African latrunculid sponges. Supervisor: Professor RA Dorrington.
During his secondary education teaching stint there was also the small matter of being investigated by the apartheid teaching inspectorate. "There was obviously some complaints about my politics," he recalls. While the investigation came to nothing, Baines was increasingly concerned at a lack of academic freedom and wondered whether he would find teaching at a university more stimulating. After graduating with Honours in History, he taught at what would become Nelson Mandela University where he stayed for four (4) years before joining Rhodes in 1990. Since then the rest of his academic career, as that old chestnut goes, is history.

For Baines it's history, however, that pivots on his conscription into National Military Service straight out of high school. "I went as a reluctant conscript," he says. While the investigation came to nothing, Baines was increasingly concerned at a lack of academic freedom and wondered whether he would find teaching at a university more stimulating. After graduating with Honours in History, he taught at what would become Nelson Mandela University where he stayed for four (4) years before joining Rhodes in 1990. Since then the rest of his academic career, as that old chestnut goes, is history.

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lot of so-called grensliteratuur in the 80s, resistance and oppositional literature in Afrikaans," he explains. "But what got my attention was the conscript memoirs." He started reading Rick Andrews' *Buried in the Sky*, Clive Holt's *At Thy Call We Shall Not Falter* and Anthony Feinstein's *Battle Scarred*, then started to question why they were being written at that specific historical moment. "One of the first questions I implicitly was asking myself was why had there been this relative silence about the war? The experiential history had been buried. People felt uncomfortable talking about it. I think it was politically incorrect, or deemed to be politically incorrect to do so. But why should they start to engage with their experiences as national servicemen on the border 20-30 years after the war had ended?"

In *South Africa's Border War* Baines argues that wars have a legacy or afterlife because of the persistence of their effect on veterans and society long after the fighting has ended. He uses a comparative approach to analyse border war memories against the legacy of other colonial wars, such as those in Vietnam, Algeria, and Israel, and conflictual dialogue to juxtapose competing memories throughout the book. "I've always had a morbid fascination with the Vietnam War," he explains. "What a lot of the conscript memoirs were doing were relating to the Vietnam War. This seemed to be their point of departure, their template for how they constructed their own narratives. They used a lot of the similar tropes and themes; whether consciously or not, they drew on these and included it in their own narratives in terms of making sense of their own experience."

It's these narratives that inform Baines' research which straddles the fields of South African public history, culture, memory and war studies. "I'm not a military historian by any stretch of the imagination. Reading about the representation and remembrance of war got me into this whole field of memory studies," he says. "By its very nature it's an interdisciplinary study. It hasn't really found a major cache in South African studies across disciplines; it has its roots in sociology but people genuflect to [Maurice] Halbwachs, who's deemed to be the father of the study of collective memory. Increasingly I was taken with the idea not only of how memory shapes us as individuals, but how it shapes the idea of group memories and in this case, generational memory."

For Baines the problematic was both political and personal. "I was asking myself how white English-speaking South Africans of my generation were making sense of their experience," he says. "Were they referring back to their own parents' pasts or the great wars they read about? Or were they drawing on the more immediate experience which was, in some ways, contem-
fact that he was a conscript and has something personal invested in his study of the border war. He favours a narrative approach to qualitative research comprising of personal interviews in order to get people to tell their own stories. Most recently this has manifested in his desire to share some of his own stories in more detail. “I’m currently writing a paper exploring the relationship between my former self as a conscript and my current self as an historian,” he says. In this paper, tentatively entitled “Confessions of a Conscript, Disclosures of an Historian”, Baines explores how some of his own experiences as a military conscript have informed his writing about the South African Defence Force.

With the spectre of retirement looming on the horizon, Baines hopes to continue his research into the field of memory studies and veteran history while on sabbatical. “I had thought of writing another book before I retire,” he says. “I’m not quite sure how that’s going to pan out because I seem to keep returning to this issue of veteran history in one way or the other. It could be that I might write enough on that subject to shape it into another book. But at the moment I feel like I’m writing quite a few disparate pieces.” Besides “Confessions of a Conscript”, he’s finished an article on the manifestations and visual representations of militarisation for a book on visual culture, as well as a piece for the Oxford Research Encyclopedia on the legacies of South Africa’s Apartheid Wars. He also aims to publish a paper on South Africa’s diplomatic relations with and military support for Rhodesia during UDI. “I’ve got all these things that don’t cohere into a nice, neat monograph at the moment but they’re all in one way or another related to the experience of the military, militarisation and my own personal recollections of serving in the SADF. So I’m looking forward to taking a break from teaching,” he says. “I still enjoy the engagement with students but I’ve also been acting as Head of Department for the last five and a half years! I’m tired of all the hassle of administration, how time consuming it is.”

In an era of corporatisation, Baines’ isn’t particularly fond of the challenges that administrative rationality poses for any academic. “I’d like to see Rhodes hold onto its traditions as a quasi-liberal institution where as academics we enjoy a fair degree of autonomy in terms of teaching and researching what we like, enjoy and think is valuable,” he says. “What I’ve valued about Rhodes is that my predecessor, Paul Maylam, always gave me autonomy to teach what I like. I was employed here as an Africanist in the first instance, but I kind of reinvented myself and virtually all my teaching now is in world history: American, German, Soviet and Japanese, [often] relating to war, memorialisation and representation,” he adds. “I’ve been able to develop these interests and steer them in new directions as I’ve developed my own new interests in cultural literary studies and in memory studies. So, I like to think I’ve afforded my own colleagues that same opportunity while I’ve been HoD.”

- Miles Keylock
Professor Kaschula argues that until a more mutually inclusive environment for languages to co-exist in the academy is created, then meaningful transformation is improbable. “On a continent like Africa it’s not likely we’re really ever going to take part in the fourth industrial revolution, and in that process empower people. “One individual can’t have expertise in all these different fields, so it is a cross-pollination of various disciplines: history, ICT, graphic design, law, anthropology, journalism and so on, to try and see how we can conceptualise the role of African languages in a future postcolonial Africa, reimagining the future possibilities from our own perspectives” he explains.

For Kaschula creating a more mutually inclusive environment for languages to co-exist in the academy is not necessarily about diminishing the status of English though. “We have to acknowledge the role of English as a global language alongside the debate on how we empower other languages,” he says. “That’s why we talk about mutually inclusive linguistic environments, rather than exclusive ones. I believe that putting the minority languages alongside the majority languages is the way forward.”

It’s such a straight-talking sensitivity to the complexities of these debates that has earned Kaschula an international reputation as one of Africa’s foremost scholars on African languages, sociolinguistics, and second language teaching and learning. Over the past three decades he has edited, authored and co-authored a remarkable volume of work published in accredited scholarly journals which span two primary research areas: first, linguistic and applied linguistic matters in African Language Studies, and second, African Language literary studies. In addition, the intellectual calibre of his scholarly reflections in English on writing and publishing in and about African languages, language practices in African language speaking communities, and multilingualism in co-authored books such as Multilingual Education for Africa: Concepts and Practices published (Routledge-UNISA), and Multilingualism and Intercultural Communication: A South African Perspective (Wits University Press), have contributed significantly to opening African language studies to a national and international audience.
where people can share ideas, that informs the transformative vision of Kaschula’s research.

“There’s a lot of work that we need to do both as universities and individuals, collectively to get our society to be inclusive,” he says. “If we bring language back into the centre, in terms of transforming our institutions of education, we then take away this gatekeeping process of English and we make it more mutually inclusive,” he adds. “Floating on English as the medium of instruction is problematic for me in a transformed South African institute of higher education. If we have to ask ourselves in education what is our role, then our role is to create some sense of better cognition and understanding amongst our students. We’ve got to find creative ways of allowing students to either improve their English along the way, translanguaging, or even be examined in their mother tongue.”

Kaschula emphasises that translanguaging or multilingualism is the key to unlocking epistemological access to all students, not merely a privileged English-speaking elite. “It’s a movement away from seeing one language as a medium of instruction and a way to create knowledge, and a way to understand and to have cognition around a certain subject,” he explains. “We understand concepts in the classroom better through a myriad of languages and not just one language. We don’t grow up with one language in Africa, we generally grow up multilingually with three, four, five or ten languages all operating at the same time - that’s what we should embrace from an educational point of view.”

He acknowledges that any call to implement multilingual pedagogical policies within the academy currently faces several challenges. “At the moment there’s no university bold enough to move away from an English-only approach, so that’s difficult in a university where language policies actually state that English is the language of instruction,” he says. “What’s been happening in South Africa in the last two years is very sad because it’s moving us on a purely monolingual policy route. We see this through the decision to use English only as the language of record in the courts, we see it in the Free State case, the UNISA case - there’s no mention of African languages. It’s simply replacing one exoglossic colonial language, if you like, with another that is English. There’s no talk about how to empower indigenous languages and how to work with multilingualism and translanguaging in our policy.”

For Kaschula, one possible solution to this conundrum lies in revising the constitution in order to shut down any language implementation policy loopholes that permit universities to sidestep multilingualism.

“If we were able to revise the constitution we should look at Section 6 much more critically in terms of what it is we want to do now to create a better knowledge-based society that has a better understanding of mathematics and science,” he says. He points to the success of a pioneering project in the Eastern Cape where schools are teaching students mathematics in isiXhosa. “It’s simple, you think best in a language you understand best which is ordinarily your mother tongue, or the language you’ve been most exposed to,” he says. Kaschula does identify a potential pitfall in tertiary educational institutions though. “At the moment, even if we educated a child from Grade R to Grade 12 in isiXhosa, is there a university that would be ready to teach mathematics in a truly postcolonial way? The answer to that would have to be ‘no’. So what, these students must now go back to being taught in English at university?”

For Kaschula, the problematic pivots on the lack of political will to implement multilingualism in higher education. “I’m hoping at Rhodes that when we revisit our policy, which we are, we can think about these issues in a much more serious way because if you look at English and Afrikaans speakers they are the ones privileged from the cradle to the grave. They are the ones that were privileged under apartheid and are still privileged today. So it really is a postcolonial debate that needs to be had, and I believe underpinning that would be language because that’s how we communicate.”

Despite such a lack of political will to implement multilingual pedagogical policies, Kaschula nonetheless remains positive about the possibility of meaningful transformation through the intellectualisation of African languages.

A large part of this can be attributed to the impressive number of Masters and doctoral graduates coming out the African Languages Studies Section. At the April 2017 graduation ceremonies, Professor Kaschula graduated six (6) PhD candidates, one of only two (2) supervisors in the history of Rhodes to have achieved such a record. There are an impressive twenty-three (23) doctorates currently registered in African Languages in 2018. “We manage to graduate pretty much the most doctorates in the university, across all the different departments,” he smiles. “So I think it’s just a wonderful experience to see young people coming through the system, taking up positions, getting doctorates. It seems unstoppable now, it’s like a tsunami. We get students from all over Africa and South Africa wanting to register and who are registered for Masters and PhD.”

For Kaschula the groundswell of successful Postgraduates is driven by the fact that students are beginning to question the pivotal role played by language in colonising themselves and creating new ways of thinking. “Multilingualism is about nurturing that inquisitive sort of gene in us to find out things about our society,” he says. “It’s about asking, ‘Can I write this thesis in isiXhosa?’ It’s about saying, ‘Hey, this is a space where knowledge can be created in a language other than English - or even in English, it doesn’t matter. In this way my culture, my language becomes empowering to me, and in that space I recreate not only myself, I recreate new knowledge and I influence a whole new generation of students.”

- Miles Keylock
A Senior Lecturer in the Department of Political and International Studies, Matthews has published in leading journals nationally, such as Politikon, Transformation, Africanus, and Theoria, as well as in international journals including the Journal of Asian and African Studies, Politics, African Identities, Africa Development, and Third World Quarterly. Besides serving as the reviewer of articles and manuscripts for a wide range of noted journals as well as for UKZN Press and SUN Press, she currently serves on the editorial board of the Journal of Contemporary African Studies (JCAS) and of Studies in Social Justice. She has also contributed chapters to books.

It's this consistent research output that has impressed her peer reviewers who have variously described Matthews as a "talented, up-and-coming scholar, hard-working and conscientious"; a researcher who exudes "tact and exceptional analytical research skills", and one whose work exhibits "outstanding quality in relation to peers". Over the past decade her research has focussed on development, identity, and race issues in Africa, and more particularly South Africa. She has also earned a respected reputation for publishing on complex issues of development and privilege in ways that are both empirically solid and theoretically sophisticated.

“I just dabble so much in so many different areas, so I don’t really know what I see as my field,” she smiles. “I haven’t really stuck with one thing, so I think the advice for those who want to be successful researchers tends to be: find your area and then stick to it because then you become known as the expert in your area.” Point taken. The path to a prolific research career is usually paved by a PhD. Not for Matthews though. “Typically you take what you did for your PhD and then you keep on doing that, but maybe I just get bored too easily?” she says. “What is nice about being a Rhodes academic though is that if something interests you, you are free to go and research that.”

It's such academic freedom that has permitted Matthews to do research on varied topics ranging from "taboo" subjects such as privilege, racism and identity politics to the role of NGOs in South Africa. While her subject matter has covered a relatively wide disciplinary scope, her common thread is a concern for social justice in South Africa and Africa more widely. "I can see what’s sort of bringing them together, but it’s not obvious," she says. "They’re getting published in very different places and I’m conversing with very different people, but that's not really what you’re supposed to do so I don’t advise anyone to do that”.

Significantly, it is her primary passion for teaching that informs Matthews’ research focus on social justice. Known as a dedicated teacher and a noted mentor of Postgraduate students, she has supervised or co-supervised eleven (11) Masters to successful graduation, and is currently supervising three (3) PhD candidates.
Transformation at South African Higher Education Institutions

“Transformation of higher education is an ongoing process.”

Matthews has interrogated through papers, and a co-edited book on education and transformation in South African higher education, the pedagogical problematic in higher education which “is not working in class or exams or teaching.”

For Matthews teaching-led research and research-led teaching should be two sides of the same coin for any academic. “I’m doing a lot of research on my teaching, so maybe that’s my passion,” she says. “I’m teaching but I’m doing a lot of research on my teaching, so maybe that’s my passion.”

While this might sound like the death knell for some teachers terrified by the prospect of being made redundant by digital technology, Matthews makes a valid point about notions of knowledge transmission and learning enabling. “I’ve been teaching and researching how to rethink what happens in the classroom,” she says. She argues that a successful classroom pivots on “knowledge contestation” among peer discussion groups. As a result she’s been exploring the possibilities of using the classroom as a space for peer interaction. “If there’s a diversity of views in your peer group then you have to listen, defend or adjust your views depending on others’ views,” she explains.

Unsurprisingly, feedback from students has been positive. “They like it, but whether it’s assisting them to better understand and grapple with the material is harder to measure,” she cautions. Does such a move away from passive listening towards peer interaction actually help students to become more open-minded and better able to engage and shift their views? The results are not all that clearcut. “Sometimes what we do find in the department—it worries me a little bit when students get to postgrad is that especially ideologically they all have the same views,” she says. “They’re quite ‘lefty’ social justice oriented views, which might be views that I share, but I don’t know whether they’ve developed that view on their own as much as just conforming to the view that they think we as lecturers, or their most dominant peers hold.”

For Matthews, facilitating a pedagogical space that enables rigorous critical thinking also requires embracing a call to decolonise the curriculum. “One of the things that I’m working on both as a researcher and a teacher is trying to rethink how we study and how we talk about Africa,” she says. “One of the big problems with scholarly writing on Africa is that it’s been people outside of Africa who have been writing about Africa, and even when it’s African scholars it’s often African scholars schooled outside of Africa responding to a conversation that began outside of Africa and reflects these western interests. It’s the continent’s specific socio-political context that Matthews aims to get her students to interrogate when teaching African political economy. “What thinkers like Achille Mbembe and others are arguing is that we need to have conversations that are stimulated from within, that are African-based,” she says. “This doesn’t mean we’re not conversing with those outside, but we’re initiating those conversations all the time. It wasn’t. It was about learning from each other.”

While she stresses the importance of being taught by academics who are passionate and knowledgeable about their subject, Matthews also recognises some of the pedagogical challenges faced by the postcolonial academy.

“In our department we teach such big classes of three hundred and fifty (350) students in first year who are diverse in so many different ways,” she says. “So we have to think about how to reach them - that is difficult and can be quite frustrating for us as academics.”

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It’s this pedagogical problematic in higher education which Matthews has interrogated through papers, and a co-edited book on education and transformation in South African higher education, Being at Home: Race, Institutional Culture and Transformation at South African Higher Education Institutions, (UKZN Press, 2015). The book has been influential across disciplines in the national debate on transformation in higher education. “I think we’re having to rethink our teaching methods because the traditional lecture-tutorial format isn’t working,” she explains. “I think we should use the classroom space more effectively as a more interactive space. So we’re thinking through different methods because there’s so much more we can do online. A lot of the standard delivery of me talking and explaining something can actually just be done through online videos and things like that. It needn’t happen in the classroom.”

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conversations and they’re being driven by concerns that arise from Africa.”

Matthews cautions her students against any crude, uncritical understandings of these conversations though. “Sometimes some students will want to say that all knowledge produced by white people outside the continent is necessarily Eurocentric and ought not to be engaged with, and all knowledge produced by African or black scholars is good and accurate and doesn’t need to be challenged,” she says.

“One approach some students like is to want to purify African discourses of external influences. But the real question is what is ‘external’ and what is ‘internal’? Africa is in the world. It’s been brought into a global economic order. There’s also a global knowledge order and we are part of that.”

It’s her commitment to critically interrogate this global knowledge order that led one referee to sum up the personal influence of Matthews’ writing as follows: “Her incisive and searching mind never allows me ... to get away with any wishful thinking, or bias, and I trust her excellent sense and insight to bring me back to earth.”

- Miles Keylock
His publication rate has been acknowledged as very high for the discipline and for his career stage, clocking in at almost three times the average for researchers in Economics. Since 2010, he has published twenty-two (22) accredited journal articles, three book chapters, seven articles in peer-reviewed working paper series, and also presented thirteen (13) papers at national and international conferences. These are impressive statistics. What does he attribute such an outstanding research output to? “I’ve had a lot of support from the university and the department,” he replies. Humility and gratitude are well and good, but his prolific publication rate also makes Botha an invaluable asset to the university given the bounteous government subsidies he’s brought into the Rhodes coffers.

In an era of increasing academic corporatisation and administrative rationalisation, surely as a young academic he feels under constant pressure to tick those peer-reviewed journal boxes? “I’ve had a lot of support from the university and the department,” he replies. Humility and gratitude are well and good, but his prolific publication rate also makes Botha an invaluable asset to the university given the bounteous government subsidies he’s brought into the Rhodes coffers.

Given the fact that he has graduated fourteen (14) Masters students to date, he clearly doesn’t find it too challenging to juggle the demands of teaching with those of his research. “Teaching is emotionally draining in the long run. It feels like you put on a switch the moment you walk into the lecture venue,” he says. “You sort of have to have a different personality in a way, or at least be more outspoken or engaging. Whereas that’s not naturally who I am.”

Sure, he may not yet be in the same celebrity political economist league as academic and former Greek finance minister Yanis Varoufakis, but Botha is also happy to share his research beyond the ivory-towered walls of the academy. While his publications have appeared in high impact factor international journals such as *Social Indicators Research* and the *Journal of Happiness Studies*, he has also been invited to discuss some of his research findings on national radio stations such as SAFM and Radio 702. “I’ve been trying to do more research that is ‘academic’ focused in order to illustrate examples to students in lectures,” he says “but also more ‘engaged’ research that focuses on relevance to somebody else, written in everyday language in online publications such as *The Conversation*. I do feel a lot of the stuff that we do isn’t practically implemented. A lot - maybe most - of it is just for academic purposes.” Can and should we implement these research findings in practice?

Botha argues that any academic theory should have a practical application in order to benefit society. “I’d definitely say I have
more of an applied than a theoretical approach,” he says. “To
be honest, if you ask me, ‘am I Keynesian, am I Marxist?’ I’ll
say ‘no, I am nothing.’ I don’t know if I should be, but which
school of thought I’m now in isn’t really important. I suppose,
partly, it gets reflected in the stuff I’ve published. I like to do a
lot of stuff, a bit of everything... By saying I’m only going to
write papers that support this view or that view is much too
limited. I think you’re missing the point. I think you should be
much more open-minded.”

“So I use the theory, but I like to use the data sets available
and apply it to see what is the case exactly in South Africa. A
lot of stuff I did for my PhD was on family relationships, family
functioning and how your economic status impacts on family
relationships and so on,” he says.

“So getting into a journal is nice but in
the South African context this research
needs to reach a broader population. It’s
important to see that things like well-
being matter. What does it mean for us
practically? Is what is currently
government policy consistent with what
these results say?”

Why would an Associate Professor in Economics want to focus
his research on the field of subjective well-being and quality of
life studies, you might well ask? “When people think of
economics the first thing that comes to mind is the ‘macro’
things you see on the news like interest and exchange rate
analysis, but personally, for me that’s sort of boring,” Botha
chuckles. “I don’t personally always believe that looking at the
determinants of interest rates or analysing the exchange rate
is going to have that big of an impact on [people]. Okay, it does
indirectly. It’s fine to say, ‘well the economy grew by 3%’ but
that’s absolutely meaningless!”

Botha prefers to study a far more pragmatic problem: how
does the socio-economic status of families affect their well-
being and how people relate to each other within families?

“How does it really affect people? I think that’s very important,
that’s the core of human wellness: your living conditions and
your ultimate well-being. If that’s not important then I don’t
know, to me that’s what the focus should be on,” he says. “I
want to do something that makes a difference in society. I
suppose it’s an intrinsic desire to see that you do at least
has the potential to somehow have a positive impact on
somebody at some point, you know?”

It’s precisely Botha’s desire to make a meaningful difference
in society that manifests in an almost forensically pathological
approach to his quantitative research. “Working with huge data
sets definitely requires attention to detail,” he says. “With survey
analysis, for example, you need to really know the data and
whether there are any issues with collection. You also definitely
need some intuition - you can’t just always accept the data
that is given there. It’s happened before where I can’t just figure
out what’s going on with the data, so it forces you to think a
bit outside the box.”

In an academic terrain where the qualitative researcher’s ‘insider’
perspective and ‘rich’ data gathering techniques have become
almost hegemonic go-to chants it’s refreshing to hear Botha
championing the merits of good old-fashioned quantitative
data collection. “I think it’s a special kind of person who finds
these things interesting,” he smiles. “If you go to a micro-
passionate people get about things that other people would just think are so boring. But I think by analysing the data, using an econometric method gets to tell you something different than what the qualitative stuff would,” he says.

“Sometimes there’s really important stories that come out from that. Sometimes you get surprising results, especially when you start looking at ‘subjective vs. objective quality of life’, for example. People say, ‘oh I feel bad’. But if you look at it objectively are they really as bad off as they say? No, they’re not. But if you don’t get the quantitative side, you can’t make those comparisons.”

An obsessive compulsion with data mining aside, Botha does confess that his decision to switch from a Masters in Economics to a Masters in Applied Econometrics helped him to focus his career path. “I actually started off doing a B.Com Law with the idea of being an advocate, but in my second year I knew this is not what I wanted to do,” he recalls. “So then I decided I’d finish the law degree but do Honours in Economics and eventually I ended up doing Masters in Applied Econometrics! In hindsight it’s the best decision I could’ve made. It made it possible for me to do more quantitative work such as cross-section panel econometrics and more survey stuff,” he adds.

“And in South Africa there’s a really big gap in terms of people who can do quantitative work. So that definitely makes you a lot more employable.”

Having successfully carved out a career for himself in academia, what does the future hold for the young Associate Professor? “It’s taken me a while to recover from PhD actually!” he chuckles. “So no, while I don’t have too many long-term goals at the moment, I do want to move a little bit away from the macro-economics and specialise more in the applied micros while doing social indicators work and behavioural economics. I’d also like to learn a lot more advanced econometric methods,” he adds. “Apart from saying there’s a relationship between say, subjective well-being and socio-economic status or happiness and family functioning, I really want to be able to say this thing causes that. But to do that you really need to sharpen your skills a lot.”

For Botha this means continuing to publish his research into subjective well-being and quality of life studies, in addition to fine-tuning his understanding of how economics, sociology and psychology interact in South Africa.

“Economics isn’t really money, it’s people, it’s decisions and it’s behaviours, so it’s very much sociology and psychology as well,” he says, highlighting the value of interdisciplinary research.

“You know, economics can work with stats departments, mathematics, psychology, journalism, sociology, the environmental sciences and many more. So I think there could be a lot more cross-departmental collaboration and there should be a willingness to fund work that would focus on different disciplines and try to bring together different disciplines and viewpoints with the aim of producing some piece of work that would ultimately affect the lives of people. That’s the kind of research that I want to do, so that hopefully at some stage I can somehow see that I’ve made a difference in people’s lives and their living standards.”

- Miles Keylock
When the aspiring young scholar from rural Mqanduli in the Eastern Cape enrolled at Rhodes University back in 2005 he experienced a massive culture shock. "One of the reasons I didn't want to move out of the province was because I wanted a place that was familiar, especially in terms of the language. I thought 'Rhodes, it's only four hours away from home, so it should be fine,'" he recalls. "But when I got here I felt like I was on another planet! There was hardly any isiXhosa on campus at the time. I was like, 'what's going on?'"

Kunju recounts his frustration at often being unable to understand what was being taught in drama, music, politics and sociology lectures. "I was struggling in those departments and that started bothering me a lot," he says. "If I was studying somewhere out of the country or in Jo'burg or Cape Town, I'd say 'okay, let me run home'. But I had nowhere else to run to. So I had to either sink, or try and swim." For Kunju this meant majoring in drama and music where, despite floundering in theory he was able to pass by excelling in the practical examinations. "That let me run to African Languages, at least," he grins. "But when I got there, even then I was taught in English!"

"What's the point of writing in an African language when no one can read it? How can you do this? Who's going to read this? How was it examined?" Dr Hleze Kunju shakes his head. The African languages scholar who penned Rhodes University's first isiXhosa PhD thesis is frustrated by those academic sceptics who fail to understand the significance of him writing in his mother tongue. English, especially your Postgraduate Honours thesis and Masters thesis was written in English. It was then I thought, 'no man this is really wrong'."

It was tutoring students in the African Languages Department who shared his frustrations that provided Kunju with the initial motivation to write his doctoral thesis in isiXhosa. "I'd been struggling in English so I thought maybe I can write in my own language, that's what I know best," he says. A turning point for him came in 2014 when Rhodes University's language committee - of which Kunju was a member - sanctioned a new language policy that permitted students to write in their mother tongue. "The language policy was there before it was renewed in 2014," he points out, emphasising the countless "vague allowances" made for students to write in African languages. "In our country, we've got the most beautiful accommodating policies," he says. "Starting from the constitution to language policies, all the government departments have their own policies. So as usual when a document is produced to promote the use of African language it's brilliantly done, but when it comes to action nothing happens!"

Kunju's sentiments echo those of his colleague in the African Languages Department, Professor Russell Kaschula who has been vocal about what he terms the apparent "lack of political will" when it comes to universities implementing language policies. "I don't think anyone expected it," he says. "However, it was around the time of 'Rhodes Must Fall' and decolonisation debates, and there were lots of arguments that we cannot use African languages in academia."

It was these arguments that Kunju began to contest when he started writing his PhD in isiXhosa. Entitled isiXhosa ultimo lwabantu abangesonininzi eZimbabwe: Ukuphila nokulondolozwa kweso (isiXhosa as a minority language in Zimbabwe: survival and maintenance), his thesis explores the sociolinguistic and historical background of the amaXhosa living in Zimbabwe and how the language survived there over the centuries. "I always say it was like doing two PhDs at once: a translation PhD and then the real PhD!" he says about some of the research challenges he faced. "People would say, 'How are you going to do this? Where are the research books? Where is the terminology?' And it was true, there was nothing written about them," he recalls. "But I thought it'd be such a great thing to have the first document written about them in their own language,

\[Image\]
and that document is the first thesis to be written in isiXhosa at Rhodes University - the university named after the guy who originally took these people to Zimbabwe!"

Kunju’s underlying reasons to focus on the “survival and maintenance” of isiXhosa speak volumes. “You know, people say the language is dying so there’s not even a point of bringing it into academia. People here go to private schools where they are isiXhosa mother tongue speakers, but they actually learn it as a second or even third language in other schools. So what’s the point of bringing it in when it’s not even being used?”

Given South Africa’s aforementioned language implementation policies, surely such conservative argument has no place in an academy dealing with the challenges of decolonisation? “This argument about isiXhosa dying is being taught right here!” he exclaims. “In Zimbabwe it’s been spoken for over 118 years and it’s being preserved. It’s being maintained. It’s still developing. So my thesis was also sort of a way to say that if people in Zimbabwe can do it when they don’t have a single book of isiXhosa, then why can’t we do it when we’ve got all these resources and isiXhosa departments all over the country?”

As the first thesis at Rhodes to be written in isiXhosa, it was also important for Kunju to address calls to decolonise the curriculum in a meaningful way by fostering epistemological access to isiXhosa students, not merely an English-speaking elite. “The problem is that we have universities in Africa, not African universities,” he says. “Ngugi wa Thiong’o researched this years ago and proved that mother tongue based education is better than what we’re doing. The whole continent has got the same issue. It’s about the use of African languages: with more use of mother tongue African languages we reach more people, we make the space more open.”

Kunju points to the fact that his PhD remains one of the most downloaded dissertations in the Rhodes Library as evidence of the fact that “It is possible to write academically in isiXhosa”. He regularly receives emails from students enquiring how they might write their own PhDs in isiXhosa. “People have been motivated by it, a lot of people contact me saying ‘I didn’t know I could do this.’ There are also Xhosa people in Zimbabwe, Zambia and Tanzania who can access this research,” he says. “It’s important that students realise realise that isiXhosa can do what other languages can do.”

By way of explanation he cites the example of maskandi pioneer Nkunz’ Emdaka whom he invited to Rhodes for a series of seminars in ethnomusicology and public lectures, even though
Kunju is clearly committed to working in an interdisciplinary space, where teaching and research meet and greet. But after twelve years of lobbying for the use of African languages in the academy, does he ever get depressed at the slow pace of change?

“There are moments like that, when my fellow brothers and sisters think that I’m wasting my time. When they say: ‘What are you doing? We actually don’t want that, we want to learn in English!’ he sighs. “The decolonisation thing is not something new. It’s been spoken about for years and years. My fear is that when my children get here one day they have to deal with the same problems that I deal with, and then they ask ‘But you were here, what did you do?’ If nothing else happens I’d like them to see what we did. So I’ve decided I’m going to do as much as I can with people listening and learning, or not. I will just do whatever it takes.”

- Miles Keylock
What does ‘decolonising the curriculum’ actually mean?” he asks in a provocatively entitled essay “Universities can’t decolonise the curriculum without defining it first” published in The Conversation in 2016. Here he argues the urgent need for the academy to develop shared, nuanced understandings of the meaning of both “curriculum” and “decolonisation” in order to facilitate change.

For Mgqwashu such understandings begin by distinguishing between notions of transformation and decolonisation. “It’s a rather provocative perspective,” he says. “Everyone talks transformation. For me, ‘transformation’ is basically that: changing the form, not the substance. If I put water in a rectangular shape the water will look rectangular. It’s still the same water, it’s just the container that has changed.”

The container here is, of course, the curriculum. “I think education as a field tends to be viewed, at least from the perspective of the outsiders, as something that is an entirely professional practice: about the classrooms, about transmitting knowledge,” he says. “My concern with that view is that in the context of South Africa, education shouldn’t be about transmitting knowledge, education should be about enabling learning.”

Mgqwashu believes that focusing on an understanding of the curriculum as both context and praxis - rather than mere product - is the key to enabling this learning process and aligns well with his own definition of “decolonising the curriculum”.

“Before I claim to be engaging with my students I need to fully appreciate the context,” he explains. “When I say ‘context’ I am not talking just about the lecture hall. I am talking about the communities students come from, their languages, cultures, genders. I am talking about their world views which are always filtered through their cultural and linguistic identity. I need to know who I’m standing in front of.”

For Mgqwashu such a contextual approach to teaching opens the door for universities to critique how the curriculum - and therefore education - often reproduces unequal social relations in the classroom.

“If we stand in the classroom we think we’re transmitting knowledge,” he says. “We’re not, we’re actually reproducing the social order. We’re reproducing identities of ‘successful’, ‘unsuccessful’ and ‘average’ learners if we’re not asking questions about the cultural capital that each of our students brings.”

In order to assess and access such cultural capital, Mgqwashu employs a critical pedagogy and focus on praxis informed by Brazilian educator Paulo Freire and British sociologist Basil Bernstein’s pedagogic theory, as well as Frantz Fanon and Antonio Gramsci’s ideas on the role of organic intellectuals in society. “There is much more in education than just pursuing a comfortable life. It’s not about getting a qualification, a spouse...
and a dog and living a posh life somewhere,” he says. “For me, Freire’s ‘Pedagogy of the Oppressed’ and critical pedagogy gives you the ability to ask questions that for some people seem to look obvious. But the moment you ask questions you begin to identify how fragile, how fractured our society and community is.”

In the lecture hall these theoretical influences manifest in a deceptively simple pedagogical ice-breaker for his students. “One of the things I normally do in my lectures, especially at the beginning of the term, is to ask an assignment called ‘Who am I?’” he explains. “My philosophy excites them to say ‘oh man, so it’s possible to speak about my grandmother? It’s possible for me to speak about what my uncle used to do when answering a question on the philosophy or sociology or psychology of education? It’s a systemic functionalist’s normal assessment but what it does for me is construct, in a very interesting way, who is in my lecture hall.”

Such a contextual-praxis approach provides the lecturer with useful pedagogical insights into how to construct and develop curricular content that allows epistemological access to all students. “It’s exciting to mark my students’ assignments because it’s not a chorus!” he chuckles. “I wasn’t born in the 1980s or 1990s or 2000s, so there is something that this generation is going to teach me. I do not want to come and impose my world of the 1960s and 1970s on them. It’s about giving students agency - that is actually a critical thing in terms of our learning.”

All of Mgqwashu’s work - whether it’s teaching, supervision, research or writing - is focused on providing students with such epistemological agency.

“Critical pedagogy is one fundamental theoretical philosophical orientation that drives what I do,” he reiterates. “Epistemological access is, in my view, a result of negotiation in terms of the nature of knowledge. I can only negotiate knowledge once I make explicit what constitutes knowledge. When we transmit knowledge we often ignore that knowledge has a history, certain conventions that the members of that discourse or knowledge community already possess. I believe enabling learning should begin there. If I transmit knowledge without making explicit what constitutes the principles of generating such knowledge in the first place, all I’m doing is basically generating parrots. There’s no possibility for extending the boundaries of that knowledge if we do not make explicit the rules of those games.”

It is precisely the rules of the educational game that Mgqwashu seeks to interrogate in his research on access and inclusion to higher education. He currently heads up a National Research Foundation project called Learning to Read, Reading to Learn, Learning to Write: Literacy Development for Secondary Schooling which aims to contribute to debates concerning undoing classroom practices that favour the elite and marginalise the majority. At the 2018 International Systemic Functional Linguistics conference in America he presented a talk on the three-year project he did with his PhD students which followed learners from Nombulelo High School in Joza township, Grahamstown on their English literacy journey from Grade 10 to Grade 12.

“These are youngsters, some of whom have had to parent their own siblings and some of whom live in sheds,” he says. “So the fact that of those thirty-four (34) learners nine (9) are at university means the impact is beyond my expectation.” For Mgqwashu the point of the research project is simple: to illustrate the problematic of measuring the quality of an education system through students from privileged homes. It also speaks to his concurrent research work on the significance of rurality, the lived-experience and African ways of generating knowledge in the tertiary educational space. It’s a project that involves three South African universities including Fort Haven, Rhodes and the University of Johannesburg, as well as three British universities. “What is rural in the UK is actually the suburbs in South Africa!” he laughs. “But the concept of rurality in South Africa is emerging in very diverse ways. There seems to be a closeness to a sense of rural identity with [students] at Fort Haven compared to those at Rhodes or UJ. The desire to learn in their languages came out very strongly. It’s because language and culture are two sides of the same coin.”

It is Mgqwashu’s own rural upbringing that fuels his dedication to language teaching and literacy development. “I was raised by my mother who was a domestic worker,” he says, recounting how, as a child, he listened to tales of how she had to leave school to work at age sixteen (16) to provide for her siblings. Mgqwashu also recalls his own confusion upon entering university. “You know, when I arrived at the former University of Durban-Westville I tell you, for the first day I waited for the bell to ring. I was expecting ‘a principal’ to address us at assembly! So I made it a personal vow to make it easier for people who share my background to succeed at university.”

For Mgqwashu this vow included “deliberately” majoring in English when he did his teaching degree. It also meant insisting on being able to critique how English departments in postcolonial contexts reconfigured themselves for his doctoral thesis. “You know, with my PhD I had to have five supervisors? My passion was so real they couldn’t identify with it and tried to short-change me,” he explains. “But I stood by what I wanted to do. What was bugging me from the first day I entered into university was that if we’re studying dropout rates or why students take longer to graduate, why is it always black students? Is it because they’re stupid? Or is it because English is not their home language?”

Given government’s language implementation policies, why is the move towards mother tongue based education in South African universities so slow? Mgqwashu’s response is as straightforward as ever. “The challenge is you’ll have to either have academics willing to learn other languages or retrench them.
But is someone willing to put resources to realise that?"

The question of resources is undoubtedly complex. Is Mgqwashu concerned about the ongoing corporatisation of the university through monetisation of research and Postgraduate throughput? "In principle I don't like corporatisation, but in reality do we have any chance to escape it?" he shrugs. "Colleagues don't like the idea. But how many people are keeping Rhodes afloat in terms of research productivity? It's a handful. Imagine if each academic published one paper. We probably wouldn't be having the extent of the financial difficulties we have," he says, as pragmatic as ever. "Being an academic is such a comfortable job, let's face it. The point is we're used to not being told to produce. Literally, the people who are carrying Rhodes are mainly the chairs and then a few academics here and there. Academics need more support and encouragement from academic departments to produce research articles. There is thus an urgent need to support all the endeavours from senior leadership."

Therein lies the rub. Where does the Postgraduate mandate to generate new knowledge come from, if not from those academics in the ideal position to generate it? Mgqwashu's forthright reply packs a powerful moral and ethical punch. "Being an academic means you publish, you generate new knowledge. It means you graduate the future generation of academics. It means you contribute to the knowledge economy of the country. Negotiated annual Personal Development Plan with each academic member of staff at departmental level become crucial in this regard. The question then is whether or not such negotiations occur across various academic departments, consistently, yearly."

It’s this passionate commitment to fostering the knowledge economy of the country through uncompromising academic research and innovative teaching methods that Mgqwashu shares with his students.

"I say to students when they want to do a PhD: you’ve been a teacher for ‘x’ number of years, surely there’s something that is bugging you? I want to hear that. I’m trying to ensure that the work of students who graduate through my hands is going to speak even when they are no longer here."

Given the fact that he recently supervised seven (7) PhD (three (3) graduating) and nine (9) Masters students (three (3) graduating), as well as fulfilling his duties as Head of Department and Deputy Dean of Education, it’s unsurprising that Mgqwashu doesn’t envisage getting involved in new, too big to manage research projects. "There’s a degree of exhaustion with knowledge creation and supervision," he confides. "It’s hard to supervise. I tend to choose, deliberately with no regrets, a type of student that no other academic wants to supervise." He tells the tale of two of his PhD students who took eleven (11) and seven (7) years to graduate, respectively. "It's exhausting to supervise somebody who struggles with the language and the intellectual disposition, you know that high level of thinking? But I’ve learned the art of how to do it given the fact that I come from there," he grins.

"I see myself as leaving a legacy of scholarly pursuit and passion for scholarship with the students that I am supervising now. Once I see them graduate, I always think I am going to call it a day. Then I take the next group on. It's been like that for at least nine (9) years now".

This doesn’t mean that at 40-something this dedicated researcher-teacher is going to be retiring from academia anytime soon though. "I started lecturing in 1996 as a graduate assistant. I’m at a point now where I’m beginning to wonder whether it is not time for me to contribute to higher education in a different way," he muses. For Mgqwashu the challenge now is to channel his energy and passion into creating what he terms "healthy spaces" for students and academics alike. "The roles I intend to play at Rhodes, if I do get an opportunity, are roles that will multiply immensely a sense of belonging for all. Agency in how the university engages with 21st century challenges in a postcolonial space that is still grappling with the unenviable legacies of legislated discrimination and oppression is first price for me. The time I still have within the academy is probably just enough for this dream."

- Miles Keylock
He may only be in his 30s, but the Assistant Professor in Linguistics at the University of Calgary in Canada and Research Associate at Rhodes University’s Department of Language and Linguistics, boasts an impressively focused research portfolio that spans work on the interaction between phonetics, phonology and morphology, as well as under-studied African languages and endangered language description and documentation. It was for such significant studies that he received the prestigious “P” rating for young researchers from the National Research Foundation in 2017.

Bennett’s research calling came early on in his academic career, as early as the third term of his first year at university when he enrolled in an Introduction to Linguistics course. “My very first linguistics course that I took was from someone who had just come back from Malawi and she was doing field work on language loss and decay,” he recalls. “She was trying to document this language which only about two thousand (2000) people speak. It hadn’t been well studied by academics and I just thought that was the coolest thing in the world!” He grins before rhapsodising further about the genesis of his passion for linguistic research.

“It didn’t feel like work,” he says about the voracious textbook reading regime he embarked on during the following summer vacation. “In this one book about language change over time there was this epilogue about how the world’s languages are dying and how every linguist should go and do something,” he says. “And I thought ‘there’s something I can contribute to’. I thought ‘even if I can’t stop these languages from dying at least we can record them and then we’ll know something about people and their stories’. That’s when I decided to do a PhD. That was the moment where the purpose of academia and education clicked for me!”

This purpose included extending his doctoral thesis research on Dissimilation, Consonant Harmony, and Surface Correspondence into phonological theory, particularly on cross-linguistic phonological typology, and on the description of Defaka and Nkoroo, two endangered Ijoid languages spoken in the Niger Delta. “I thought, ‘yes, documenting languages in Africa, that’s why I am here!’”

While Bennett’s research is driven by his scientific desire to document the linguistically diverse languages of the African continent, he acknowledges that this desire is equally informed by the lack of contemporary academic interest in the field. This he attributes to the legacy of colonialism.

“You have these in-depth studies that were done maybe in the 1800s or 1920s,” he says pointing to Wilhelm Bleek’s canonical linguistic studies of the Nama languages that still have currency within certain academic circles. “There’s a lot of old research and articles that describe these as languages on the cusp of extinction. In the 1860s you find this German guy, Wilhelm Bleek in the Cape who identifies all these different dialects and
For Bennett, it’s both a scientific and ethical imperative to address the absence of endangered African language documentation and description in the South African academy.

“I’d like to see a greater diversity of languages represented in the theoretical literature,” he says. “There are people out there who have done excellent work but so much of it is unstudied compared to the scope of French, Italian, Spanish or Swahili. It’s not work being produced by people from here. So if we can shift that that’ll be good.”

It is this imperative that led to Bennett taking up the position of Senior Research Associate of the Department of English Language and Linguistics at Rhodes University. “I feel like I’m better at doing research than I am at teaching,” he says. “But at the same time when I first came to South Africa I noticed there was all these students who wanted to study topics related to linguistics in English. That seemed like a waste. South African English is interesting in its own right but this is such a linguistically diverse place. I was seeing a real clear lack of local students from here getting interested in the languages from here. So I really wanted to help nudge more people to contribute to what we know about the linguistics of these languages.”

For Bennett this begins by inspiring young up and coming South African academics to get interested in not just the big picture question of language policy and politics but of the actual “nuts and bolts” of language documentation and description. “One of the things I enjoy most about my work is the diversity of it. It’s not the same from day to day,” he grins. Whether it’s fieldwork data collection on different dialect variations in Xhosa in the Eastern Cape, qualitative research about how sounds pattern in a language or lab based experiments to understand different types of linguistic knowledge in the fields of phonology and phonetics, Bennett’s passion is driven by a fundamental scientific focus. “I’m interested in how language works, I always have been. I’m interested in it for its own sake,” he says. “Why is this language different from this other one? It’s kind of a stupidly simple question, but I want to document languages and there’s a lot of languages that we don’t know enough about. What that means in practice is you could spend a day collecting data about Xhosa and find something new that hasn’t been written about before. That’s kind of really cool on the one hand. But also a shame on the other hand. Why don’t we already know these things?”

For Bennett, the shift in the linguistics department at Rhodes from being very English-centric to being much more focused on studying African languages is significant. “I can imagine a young black student comes to Rhodes from maybe the former Transkei who speaks Xhosa and starts learning linguistics and every example they see is from English,” he says. “On a subconscious level I can imagine that is discouraging or devakling. But if you turn that on its head then the [linguistic] knowledge they have that’s not necessarily from formal education is really worthwhile and more interesting than English.”

It’s such “organic intellectual” knowledge that Bennett hopes will begin to bear fruit in the academy. “We’re still waiting for the first great Xhosa syntactician,” he says.

“But I look at this country and I see so much potential for great insights to be found and picked and cultivated. I want to see these young academics not being intimidated and coming up with the wherewithal to do these things. What we need is more homegrown South African scholars working on the indigenous languages of South Africa. This is a very fruitful place to be doing this kind of work.”

While he is optimistic about the future of the field of linguistics, Bennett remains a pragmatist when it comes to navigating the challenges of administrative rationality and corporatisation that the university currently faces. “Basicallly I try to go about my life ignoring these pressures,” he chuckles when asked how he navigates the pressure placed on postgraduate researchers to publish endless journal articles in order to fill the university coffers. “I’m in a really strange place because I consider myself a scientist, but I’m in a department that’s in the humanities,” he adds. When pressed Bennett does however, acknowledge that corporatisation does pose challenges. “This university, in particular, has done a good job of fighting off that,” he says. “In the other university I am affiliated with the Dean comes and gives this forty-five (45) minute speech about this new centre for entrepreneurial thinking, the whole focus is basically on creating people to work in industries. That’s not what a university is. I hope that really can’t be what a university in South Africa is about. It’s about intellectual centres of a different sort. A university is about creating new knowledge. It really should be that simple.”

It is this restless research impulse to generate new knowledge that prompted Bennett to embark recently on a project to document and describe the Khoisan language widely spoken...
in the northern Cape before Afrikaans. “I’ve wanted to be working on these languages for a long time because they’re among the most unique languages out there. They’re really clearly not related to other languages in other places,” he says. “The idea was to go out and see if we can find the old oumas, oupas and tannies and ooms that still remember these languages.” It was somewhere west of Kimberley that Bennett and his research team hit linguistic gold. “We might have found a language that was previously unknown to linguists. It’s too soon to tell for sure, but that’s kind of really cool, right?” Bennett grins, explaining his encounter with two such old oumas, Elsie and Francine who speak a language they call Hottentotstaal, or Hottenstaal for short. Aside from being problematic, that name typically refers to Nama languages specifically. “This language is not Nama.” What is fascinating for Bennett is that this language has very little in common with Nama. Instead, it has words similar to N|uu - a critically endangered language originally spoken by the original inhabitants of the Kalahari Gemsbok Park - and |xam, a language that’s been described as extinct for ages. |xam is the language of the official motto of South Africa “Ke e-!xarra like”. It’s also known pretty much just from the Bleek & Lloyd collection of field notes - and it seems like they did all that work in the 1870s.

“What is it a language can be? What is it a language can’t be? How can we capture and record all of this knowledge that’s important for science and important to the people who speak these languages in the amount of time that we actually have left?” asks Bennett. “They should have a right to have their story told and to have their heritage passed on. There’s a sense that maybe this is the last window of opportunity to do that.”

-Miles Keylock
The product of more than four (4) years of extensive research and writing, the study charts the significant academic, cultural and social shifts that occurred at the university since its inception in 1904. There are chapters focusing on its founding as an imperial university, infrastructural development of the campus, the move from complicity and opposition towards desegregation and protest in the apartheid era, as well as the contemporary transformation imperative. In between Maylam also unpacks academic life in the early years of the institution, several significant sporting achievements and the changing patterns of student life and culture.

"I set out to write a critical account," says Maylam, citing the encouragement he received from former Vice-Chancellor Saleem Badat. This meant uncovering and recounting “some of the more shabby episodes” in the university’s history rather than delivering a celebratory, sanitised institutional history. These include critical accounts of “some key turning points and watersheds” detailing episodes of apartheid acquiescence and gender discrimination at the institution, racist incidents on campus in the 1980s and a critique of the university’s transformation agenda in the context of the contemporary #FeesMustFall movement.

There’s also a fascinating account of the infamous ‘Field case’ of the 1940s, where an academic dispute in the Music Department ended in a lecturer suing the university for defamation that almost bankrupted the institution.

"I have this very ambivalent view of the institution," says Maylam, recalling his own experiences studying and teaching at Rhodes. "I was a student here from 1967 to 1970 and there was this sort of political acquiescence in apartheid. It was a rather sterile cultural life with a lot of partying and major interest in sport, so I was concerned to draw that out." One particularly insightful quotation in the book from erstwhile student newspaper reporter Guy Butler illustrates the pervasive apathy of student culture at the time: “Rhodes is in many respects no better than a sheep camp.... The average Rhodian is ignorant of life.... He is a purblind idiot, peregrinating aimlessly. His eyes have no perspective because they seldom look further than his nose, or at the outside, the distance from the Y’s seats to the Scope screen” (Rhodo, 1939).

"I can identify quite strongly with what Guy Butler was saying, there was quite a long tail of mediocre students, the mediocrity was always there," recalls Maylam. "But what I also found at Rhodes in my student days and teaching was a small group of really engaged, intellectually active, enegetic, interested students, and those are the ones who were very gratifying... So those are some of the ambiguities that I try to draw out, and the ambiguities reflect my own experience of the institution."

As an historian Maylam foregrounds that while his study is a critical account of the history of Rhodes, as a former student and teacher it is filtered through a personal lens. “This is a story told subjectively, the emphases and chosen themes are mine,” he says. He sees the focus of the book as being more than “an
exercise in self-flagellation”, emphasising that “there is also a lot to celebrate in the history of the university.”

One important emphasis for Maylam is on the inspirational teaching culture he encountered at Rhodes in the late 1960s. “It did a lot for me as a student, it really did. I came out here from England, and had no idea whatsoever of becoming an academic,” he recalls. “My great love in England was cricket. I used to play a lot of cricket, but I gave up cricket and started studying and found it took me different places. 1968 to 1970 were quite important years politically and globally for students in many different ways, culturally, morally, intellectually. Those were three very key, formative years in my own life. I was taught very well and got interested.”

Here he cites the influence of Winnie Maxwell, then chair of the history department, on his own academic career. “You know, I often reflect on what was inspirational about her,” he says. “I’m not sure she would be a great teacher now. She was a strange person, quite conservative, but there was a certain spontaneity to her lectures-they weren’t over-prepared. She would chain smoke and walk into a lecture with a few notes scribbled on the back of an envelope and just talk. She came up with great ideas. She was a teacher, she wasn’t a researcher and her students benefited from her teaching in their undergraduate years.”

For Maylam, an over-emphasis on research at the expense of teaching is one of the challenges faced by any academic in the contemporary university.

“There’s this huge emphasis on the production of PhDs, research and research outputs,” he says. “I think that’s a bit problematic because many senior academics now concentrate on supervising writing and they shift the undergraduate teaching towards casuals, which I think is something of a pity because the strength of Rhodes has been its undergraduate teaching.” Here he points to the example of Professor Daantjie Oosthuizen who inspired countless philosophy students during his tenure at Rhodes. “People were inspired by him, but he didn’t publish much. He used to say to students who came in with questions wanting answers, you should come in with some information and ideas and go out with questions. That was an important way of approaching teaching.”

Maylam’s pedagogical insights speak volumes. “In my experience first year teaching is the most difficult,” he says. “You’ve got a wide range of abilities in the class. Some people can barely speak English, some are better at the conceptualisation of history, and some very bright people need to be stimulated. You’ve got to reach all these people. It’s very difficult for an inexperienced teacher to do that and even more difficult for an inexperienced teacher. So I think that being an academic is increasingly more difficult, demanding and very tough.”

While he argues that teaching should be a vocation for any academic, Maylam does acknowledge that in the contemporary knowledge economy this may no longer necessarily be true, particularly given the university’s reliance on state funding. When universities are ranked worldwide it’s mainly on the number of research outputs and funds they raise, and not on the quality of their undergraduate teaching staff. “The funding models do bend towards rewarding research outputs. So there’s been a shift towards more PhD graduates, more articles and more books because that’s what universities get funded for,” he nods. “For every PhD graduate within three years the government will give something towards their subsidy. Each article earns a subsidy, each book - if it’s approved, not a textbook - earns a subsidy.” Maylam admits that he finds being coaxed into fitting into any such postgraduate research production line problematic. “I think there’s a lot of articles being churned out that no one’s going to read-except perhaps the reviewer and one or two specialists in the field,” he pauses with a wry smile. “There’s an overproduction of mediocre research which gets rewarded.”

For Maylam it’s the ethical responsibility of every academic to not neglect undergraduate teaching, particularly given the current calls to decolonise the curriculum.
"I'm sure for a lot of students these are your key years, when you are exposed to new ideas," he says. "So I think there are two issues here: the style of teaching and the content of courses." Self-confessedly technophobic, Maylam prefers a good old-fashioned lecturing approach, rather than powerpoint presentations. "The dual challenge in a lecture for me is to make the students listen and the challenge of the students is to want to listen," he chuckles. "So I feel that dynamic is rather important, rather than me just putting stuff up on a screen."

What is equally important, of course, is curating curriculum content that addresses the call for decolonisation. "It's quite easy to decolonise content in a subject like history, politics or sociology. If you look at the department calendar, I think there are ten semester courses in history and eight of them have an African focus," he says. "I find the word 'decolonisation' is used a bit loosely, so I prefer to ask two questions: what are the possibilities for decolonisation and what are the limits to decolonisation? I don't think that the notion is explored in those terms. But the whole notion of decolonisation needs to be unpacked. What does it mean? Can you actually decolonise if the medium of instruction is English? For me that's absolutely fundamental."

For Maylam any solution to answering such questions should avoid getting bogged down in endless debates over the academic validity of Eurocentric or Afrocentric epistemologies. "I think what's so important in university education is exposing students to a diversity of readings and meanings, so that through that exposure students develop their own line of critical thinking," he says. "It may be an old-fashioned liberal view but I'll never depart from that."

It's such an old-fashioned pedagogical commitment to new knowledge generation that fuelled Maylam's commitment to academic freedom during his tenure as head of the history department. "I always wanted to encourage my colleagues to teach what really interested them," he says. "I remember one time we had a course which a colleague of mine was particularly interested in, which was the history of rock music. Now that raised a few eyebrows in the faculty. Is this history?" he chuckles. "I know my old professor Winnie Maxwell would be turning in her grave if she knew I'd permitted this, but that's the best way to teach!"

While Maylam may be navigating his retirement years, as his fascinating account of the history of Rhodes University shows, he's lost none of his passion for the discipline of history. "I would hope that this book might open up a few avenues for research," he says. "I think there is scope for writing histories of departments. I think journalism has an interesting history, I think fine art has an interesting and controversial history too, in many ways. There are also histories in article form of zoology and chemistry which have been published. So yes, I think there is scope for further research."

Don't expect Maylam to do be doing this research though. After five decades in the institution, he is musing on the idea of branching beyond the ivory-towered walls of academic writing for his possible next book project. "I tried to make this book readable, so anything I write in the future has got to be readable," he says. "When you're an academic you think: 'I've just got to get this publication out, even though only twenty people are going to read it, I've got to get it out and onto my CV!' I don't need to do that anymore. Anything I write I've got to enjoy reading and researching. It may not be academic, I don't know, I'd like to write again, but it's got to be something that enthuses me," he concludes. "I'm quite interested in non-fiction crime. I'd like to write a biography, that'd be something, but quite fun to do."

- Miles Keylock
Postgraduates / Graduations

PhD graduations
- Catherine O’Shea: Understanding the reading practices of Fort Hare students.
- Joseph Chidindi: Discursive constructions of quality assurance: The case of the Zimbabwe Council for Higher Education.
- Gitanjali Mistri: A social realist analysis of participation in academic professional development for the integration of digital technologies in higher education.

Postgraduate Diploma in Higher Education (PGDip (HE))
At the 2017 graduation ceremony thirty seven (37) graduated from this programme, seventeen (17) with distinction. The PGDip (HE) offers a broad introduction to the higher education sector with a particular focus on teaching and learning.

Distinguished Visitors / International Visits
In March 2017, Professor Brenda Leibowitz, Chair of Teaching and Learning Studies at University of Johannesburg presented a seminar on social justice in higher education. Professor Leibowitz has since passed away and will be sadly missed in the academic development community and beyond. She contributed to the CHERTL PhD programme in a number of ways over the years, including by giving seminars at our ‘Doc Weeks’ and in her co-supervision of PhD scholars, such as Gita Mistri.
Also at the March 2017 ‘Doc Week’, Professor Ronelle Carolissen from Stellenbosch University gave a seminar on social justice in higher education research. Together Professors Carolissen and Leibowitz also ran a workshop on academic publication in which they shared their experiences as journal editors, reviewers and authors.
In October 2017, Professor Susan Van Schalkwyk from Stellenbosch University gave a seminar in which she outlined the kinds of third spaces in which most academic development work takes place. Professor Gina Wisker from the University of Brighton also joined us in October where she ran a workshop on academic writing prior to giving the keynote at our PhD conference.
Significant Research Aligned Events

In March 2017, Professor Sioux McKenna gave her inaugural address with the title ‘Unmasking the Doctorate’. In this address, Professor McKenna urged us to build doctoral outputs in this country in ways that genuinely contribute to the public good, rather than meeting numeric targets which fail to engage with concerns about quality and significance. The event was very well attended and was followed with a wonderful celebration with music and dance.

In July 2017, editors from “The Conversation” Caroline Southey and Thabo Leshilo, ran a workshop on how to communicate academic findings to the general public. This workshop was attended by over eighty (80) participants and there is clearly a need for more of such events. Also in July, Garry Rosenberg ran a workshop on open access publishing. Dr Rosenberg has extensive knowledge of academic publishing and was able to provide guidance to those wanting to publish in ways that ensured broad accessibility to all.

In October 2017, CHERTL co-hosted a PhD conference with the Department of Education. Twenty-seven (27) PhD scholars made presentations on their research following an open keynote by Professor Gina Wisker. There was also a panel discussion about the influence of their PhDs on their work by three (3) Rhodes University graduates, Dr J Lupele, Dr L M Masehela, and Dr J Nyambe. This very inspiring session showed how the PhD is often the springboard for future research opportunities and contributions. As usual, the PhD conference included a social event that was enjoyed by all.

Books/Chapters/Monographs


Centre for Higher Education Research, Teaching and Learning (CHERTL)


Peer Reviewed Subsidy-Earning Journal Research Publications


Peer-reviewed Proceedings


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


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DEPARTMENTAL INDEX
Quinn, L. and Vorster, J.  

Quinn, L. and Vorster, J.  

Vorster, J.  

Vorster, J. and Quinn, L.  

Tshuma, N.  
Community engagement is also a crucial way to transform individuals who are involved, changing people’s ways of being and perceiving each other and the world around them, undermining biases and prejudices, and cultivating criticality, reflexivity and civic values.

At the heart of community engagement is a complex interplay between the theoretical and the practical. Rhodes University has emerged as a national leading engaged university, housing volunteerism, service-learning and engaged research projects which highlight and underpin a unique philosophy of community engagement, bringing theory and practise together.

This philosophy underpins a number of world-class engaged learning and research programmes across all university faculties and departments, and in 2017 we recognised the outstanding achievements of Professor Jacqueline Akhurst, from the Department of Psychology, who was awarded the Vice Chancellor’s Distinguished Award for Community Engagement. In her work, Professor Akhurst critically links the theory and practice of engagement as she responds to the call for a decolonized curriculum, with a shift toward transformational and democratic knowledge creation in psychology through engagement. In forming mutually beneficial partnerships across Makana, Professor Akhurst has practiced deep listening and social responsiveness, developing teaching and research programmes that focus on sustainability.

As the emerging discipline of the Scholarship of engagement continues to gain traction globally, the Rhodes University Community Engagement Division (RUCE) has established itself as a national leader, attracting seven (7) transdisciplinary masters and doctoral students into the division.

Dr Paphitis and Ms Kim Weaver guest-edited a special issue of the journal for New Generation Sciences, focussed on community engagement, with notable contributions to the issue from across the country.

International Visits
Ms Hornby and Dr Paphitis travelled to Norway and Scotland as part of the Erasmus+ funded Common Good First Project, where they presented work from RUCE on digital storytelling in higher education and communities at University College Southeast Norway and the Glasgow Caledonian University.

Significant Research Aligned Events
RUCE entered into a new partnership with the Durban University of Technology to host the third annual Community Engaged Learning Symposium. Drawing on the research project hosted by Dr Paphitis at RUCE on epistemic justice, the thematic focus for the Symposium was Community Engagement: Towards Social and Epistemic Justice.

Eleven (11) RUCE staff and Postgraduate students presented their research at the conference, showing that Rhodes is one of the leading Universities in both engaged research and the scholarship of engagement - bringing together truly transdisciplinary teams to tackle issues of local importance collectively and in participatory ways.

Dr Sharli Anne Paphitis, Senior Lecturer

Ms Diana Hornby, Head of Department
Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)


Peer Reviewed Subsidy-Earning Journal Research Publications


During 2017 the Rhodes University Library (RUL) continued to be guided by a revised Strategic Plan (2013-2019), which takes into cognisance the trends and developments impacting academic libraries with specific reference to the librarian’s role in research, undergraduate student success, information literacy, new roles and competencies for librarians, and the library as place within the academic context.

The following strategic focus areas were still considered appropriate:
- Positioning the Library in the intellectual midst of the University community.
- Dynamic user services.
- Staff development.
- Technology and innovation.
- Transformation.
- Risk Management.

For the purposes of this report the activities relating to the following strategic priorities impacting research is highlighted:
1. Promote the Library’ values of service, scholarship, respect, and the provision of diverse resources, and stimulating places as a foundation for University life.
2. Provide access to appropriate, authoritative and relevant resources and services at the point of need and in the users’ environment.
3. Strengthen existing delivery services (physical, electronic and digital), while integrating new technologies, tools and services for information discovery and delivery.

Physical Library & Usage
- 4 Libraries - Main, Law, Sound and Cory Library
- Supports SAIAB and ILAM
- 1200 study spaces
- 213 computers for students
- 57 computers for staff
- 10 000 m² space
- Certifying of documents - 2 483 transactions
- Library visits:
  - Occupancy Statistics: 172 117
  - Gate count: 550 252

Information Resources & Usage Budget
- Information Resources - R 20 666 074
- Books & Monographs: R500 310
- Journals: R2 605 439
- Databases: R17 560 325

Collections
- Monographs in stock: 222 219 including
  - 2 799 new books
  - e-Books: 11 012
  - Journals - Individual titles: 145
  - Journals via Databases: 37 000
  - Repository (including ILAM & Cory digital collections): 16 522 items

Usage
- Circulation: 63 387 Loans (books & other materials)
- Inter-library loans:
  - 722 supplied to other institutions
  - 406 items received
- Database usage:
  - 7 152 285 total database use
  - 705 521 full-text articles downloads

Social Media/Web 2.0
Research visibility was enhanced via discoverability and retweets by followers who include students, academic staff, professional & research organisations, publishers & journal editors, journalists & media organisations, academic libraries and individuals.
- https://twitter.com/RhodesResearch (1000 followers)
- https://twitter.com/RhodesLibrary (1250 followers)

4. Champion open access (OA), open publishing and scholarly communication
- The RU Open Access Policy was adopted by Senate in 2017.
- Open Access Week was observed during 2nd - 6th October 2017.

5. Implement scholarly communications
Recognising the importance of collaboration to ensure scholarly communications is consolidated within Rhodes University, Ms. Debbie Martindale, Librarian: Scholarly Communications, has
established working relations with the Research Office, CHERTL and the Centre for Postgraduate Studies.

6. Investigate tools and initiatives to enhance access to information resources and the visibility of RU research

- RUL hosted its first Research Week, 8th-12th May 2017 with the theme: In Support of Emerging African Academics & Researchers. The aim of the Research Week is to raise awareness of how the Library supports research and research visibility, and to strengthen its partnership with the Research Office, Centre for Postgraduate Studies, researchers and Postgraduate students. The programme imaged the personal research roadmap for emerging researchers. Many of the researcher audience attended most, if not all, the sessions. It was encouraging to see the interaction between presenters, speakers and researchers. Our attendance register shows that of the over 150 researchers who attended the event, most came from the Chemistry Department and the School of Languages.

- As a National Research Foundation (NRF) requirement, the RUL continues to advocate for the registration and optimal use of ORCID (Open Researcher and Contributor Identification) among researchers and Postgraduate students. ORCID is the ideal platform to:
  a. Connect the individual researcher's various research identifiers and research (peer-reviewed and non-peer-reviewed) output into a single, permanent and unique identifier.
  b. Connect the researcher to Rhodes University, the NRF and publishers;
  c. Reflect Rhodes University research output and the theses supervision activities undertaken by individual researchers.

- Rhodes Digital Commons continues to be a priority project. This is in alignment with the Open Access Policy of Rhodes University and the NRF Open Access Statement (2015) and ORCID Mandate (2017). Progress in 2017 was frustratingly slow (17 articles were uploaded) due to the need to develop article, book, book chapter and conference templates. It is hoped the resolutions discussed in December 2017 will enable the facilitation of greater volume of research deposits onto the institutional repository.

- Postgraduate and Research Support
  a. Several training initiatives to individuals and groups included:
    Use of ZOTERO to 15 students attached to SARCHI Chair Professor Ruth Simbao: 23rd May, 8th June, 26th June: ORCID training for SAAB librarian Maditaba Meltaf; 6th June: Postgraduate Orientation; 9th June: Journalism and Media Studies Postgraduate group;
    8th June: Proposal writing; 28th June: Copyright with specific reference to images and art etc. with Rachel Baasch; 20th July: Journalism and Media Studies group; 20th July: Priscilla Boshoff.
  b. ORCID Faculty Conversations: Humanities 14th July; Humanities & Education 21st July; Commerce & Law 28th July; Science & Pharmacy 29th July; Science & Pharmacy 22nd August.
  d. Research Committee: meetings attended on 12th April and 19th May.
  e. Presentation on “Raising Research Visibility” Postgraduate Conference, 30th September.

Publications

Cory Library remains engaged in scholarship and publishing activities. It managed the publication of the following:

- Dr Shell’s Protean Paradox was received with much acclaim at its launch in Cory Library on 25 October 2017. Dr Shell has been appointed Senior Research Associate in Cory Library for 2017-2020.
- Cory Library assisted the Institute of Social and Economic Research (ISER) at Rhodes University with the preparation of Dr Minnie Duka’s manuscript - Matthew Goniwe on a South African Frontier - A Community History of an African Revolutionary, which was published in November 2017.

Conferences/Presentations / Engagements

- Martindale, D. “The Library’s strategic plan to support raising the visibility of institutional research”, SEALS Standards Workshop, 19th June;
- Naicker, L. “Open Access Policy”. SEALS Standards Workshop, 19th June;
- Van der Walt, W. “Harvesting & Deep Linking”. SEALS Standards Workshop, 19th June;
- Van der Walt, W. “Submission, access and exposure management”. SEALS Standards Workshop, 19th June;
- ORCID organization membership task team video conference with Matthew Buys (ORCID Director EMEA) with Larshan Naicker, Wynand van der Walt, David Sieborger, Natalie Ripley, Gareth Dampies, Patricia Jacob, 02nd June;
- Martindale, D. ORCID training for NMU librarians, Marina Ward, Deneen Gerber, 6th July;
- vITAL Content Strategy with the Digital Team, 14th July [internal].
- Clarke, R. Introducing the RUL Web, 7 August [internal];
- Martindale, D. “Enhancing the visibility of you and your research”. Interdisciplinary Postgraduate conference. Rhodes University, 30 September;
- Satgoor, U. “Libraries as Desired Spaces”. Facilitated LIASA Pre-conference workshop. 02 October;
- Satgoor, U. LIASA Professional Body Recognition: Considerations, Implications & Implementation. LIASA 18th Annual Conference, 03-06 October;
- Still-Drewett, F. “The value and role of Twitter for Scholarly Communication and general communication with users”. 18th Annual LIASA Conference - 03-06 October;
- D Martindale. ORCID SA Workshop, Benoni, Gauteng, 24 October 2017;

**Library Services**

- Clarke, R. Introducing the RUL Web, 7 August [internal];
- Martindale, D. “Enhancing the visibility of you and your research”. Interdisciplinary Postgraduate conference. Rhodes University, 30 September;
- Satgoor, U. “Libraries as Desired Spaces”. Facilitated LIASA Pre-conference workshop. 02 October;
- Satgoor, U. LIASA Professional Body Recognition: Considerations, Implications & Implementation. LIASA 18th Annual Conference, 03-06 October;
- Still-Drewett, F. “The value and role of Twitter for Scholarly Communication and general communication with users”. 18th Annual LIASA Conference - 03-06 October;
- D Martindale. ORCID SA Workshop, Benoni, Gauteng, 24 October 2017;

**Human Resources**

Total Staff complement - 43 staff members.

**Formal Studies**

D Martindale (M.IT, UP); F Still-Drewett (MLIS, UCT); I Kretzmann (PGDipLIS, UNISA); K Yona & T Mamanzi (B.Inf, UNISA); K Radebe (MLIS, UCT); B Stoltz (MLIS, UKZN); M Mpokela, L Ntaka and S Gule (B.Inf Hons, UKZN).

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Postgraduates / Graduations
At the graduation ceremony in April 2017, seven (7) Masters’ Degrees in Commerce (Taxation) and two (2) PhD degrees were awarded to graduates supervised by Professor E (Lilla) Stack. One of the PhD graduates, Dr FD Schneider, was awarded the South African Institute of Professional Accountants (SAIPA) prize for the best PhD thesis in taxation in South Africa for 2017 at the SAIPA “Top Achievers Awards” ceremony.

Significant Research Aligned Events
Professor Lilla Stack contributed three (3) chapters to a reference work on research, entitled Economic and Management Research published by Oxford University Press.

Associate Professor Jackie Arendse published eight (8) chapters in Silke on Tax Administration, a peer-reviewed guide to the administrative provisions of taxation legislation in South Africa. Professor Arendse is the managing author of the book, which is published by LexisNexis. Widely used by professionals, academics and students, it explains the investigation and audit powers of SARS, provides guidance on taxpayers’ rights relating to taxation, and incorporates commentary and interpretation on a range of legislative items.
Books/Chapters/Monographs

Arendse, J. A.


Stack, E.


Professor Aswani is currently involved in a number of national and international research projects. He is a member of Team South Africa and Team Western Indian Ocean in the Global Learning for Local Solutions: Reducing Vulnerability of Marine-dependent Coastal Communities (GULLS) Belmont-Forum funded program. He is also a co-PI of the Resilience of Pacific Island Coral Reef Social-Ecological Systems in Times of Global Change (REPICORE) project at the Leibniz Center for Tropical Marine Ecology-ZMT at Bremen University, Germany. He is also a co-PI on a UK funded SOLCISTE project which received funding to the value of R144-million and focuses on ocean sciences and the collapse of two (2) key fisheries in South African and East African waters that support more than sixty (60) million people.

Associate Professor Michelle Cocks together with Professor Charlie Shackleton continued to lead their multidisciplinary research project entitled A Place to Belong that aims to unpack how urban nature(s) can assist and facilitate processes of belonging and well-being. Funding from the National Research Foundation (NRF) Competitive Rated Research Program supported three (3) masters students during the course of 2017: two (2) from the Department of Environment Science and one (1) from the Anthropology Department. Two (2) Anthropology honours students received funding to carry out their research under the umbrella of the project.

Dr Patti Henderson continued working on publications related to her HIV/AIDS orphans and environmental issues. While in Germany on an exchange programme at the University of Westfalia she worked on a journal article on the South African artist Mary Sibande.

Janet Hayward and Shabnam worked towards completing their research for their PhD studies, entitled: “We are white”: Oral tradition, documented history and molecular biology of Xhosa clans descended from non-African forebears and their expression of this ancestry through the idioms of ancestor religion; Behind the Veil: HIV/AIDS in the Muslim Community of Durban, South Africa., respectively.

Significant Research Aligned Events
Professor Aswani’s projects in Africa are significant because they aim to understand coastal vulnerability of African
communities living near “hotspots”, or ocean regions that are experiencing changing climatic conditions further compounding social tensions within vulnerable communities. Areas identified as hotspots represent laboratories for observing change and developing adaptation options and management strategies.

Professor Aswani’s project in the Pacific Islands aims to combine social and natural sciences to develop an integrated assessment towards a more holistic understanding of coupled social-ecological systems. This research is providing important and much-needed information to develop strategies to strengthen the resilience and sustainable use of Pacific Island coral reef systems.

The funding received for research in Tanzania will contribute to knowledge generation around socio-ecological systems in the region and feed into developing regional models of fisheries sustainability in Tanzania. The funding received from the Sandisa Imbewu (Rhodes University) and NRF has allowed him to also focus on local marine and coastal research.

In May 2017 Associate Professor Cocks together with Professor Shackleton hosted a workshop entitled A Place to Belong. Participants invited to the workshop included both local and international colleagues working in urban-environmental related research viz. Dr Henrik Ernston - History of Science, Technology and Environment; Leizel Williams-Bruinders - Department of Geosciences, Nelson Mandela University; Professor Anton de Wit - Department of Geosciences, Nelson Mandela University and Professor Sarel Cilliers - Department of Botany, North West University. Masters and honours students on the Urban Realities research team also attended.

The main objective of the workshop was to share research approaches and findings. Opportunities for collaboration between invited participants were explored. An international workshop is being planned for 2019. Amanda Manyani, MSc student on the research team, presented her research findings at the World Urban Parks (WUP) & Institute of Environment and Recreational Management (IERM) Congress held in Illovo from the 11-13th September 2017.

Dr Patti Henderson delivered a seminar on Mary Sibande’s work at the University of Westfalia, Munster. She was also invited by the Fine Arts Department at the University of KwaZulu-Natal to present her research on Gregory Maqoma, a local renowned choreographer. Her research on the two (2) artists form part of a group of four (4) local artists she is working on in relation to theories of becoming and possibility. Once complete this set of four (4) articles will form the basis of a short book contributing to the field of Politics of Performance that Dr Henderson teaches in the Anthropology Department.
Books/Chapters/Monographs


De Wet, C.J.


Henderson, P.C.


Owen, J.


Pattenden, D.


Pattenden, D.


SW Madagascar Women with a daily catch of octopus, which is an important seafood staple in the region. Photo: Shankar Aswani.


Peer Reviewed Subsidy-Earning Journal Research Publications

Aswani, S.


Benessaiah, N.


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

Aswani, S. Invited discussant at the “Indigenous community engagement and MPAs: Chile and International case studies” workshop. Pew Fellows in Marine Conservation, Puerto Varas, Chile, October 2017.

Aswani, S. Invited papers presented at the University de la Laguna (ULL) entitled “Las poblaciones humanas y los océanos: aportaciones desde una visión interdisciplinaria aplicada de las ciencias sociales” and “Retos para la adaptación de la gestión consuetudinaria: la protección de los ecosistemas costeros y las formas de vida tradicionales en África”. Tenerife, Spain, June 2017.


Aswani, S. Keynote speaker at the Fifth International Conference on Climate Services (ICCS5) of the international Climate Service Partnership (CSP) for a paper entitled “Global impoverishment of Indigenous Knowledge and Implications for Innovation.” Cape Town, South Africa, Feb-March, 2017.


The Department of Biochemistry and Microbiology had an excellent research year. The two (2) National Research Foundation (NRF) SARChI Chairs, the Research Unit in Bioinformatics, the Biomedical Biotechnology Research Unit, the Medical Research Council (MRC) University Flagship Drug Discovery Programme, the Enzyme Science and Technology Programme and the Mycorrhizal Research group form a formidable group of talented academics and student scientists, who continue to produce high quality research.

Postgraduates / Graduations
A total of twenty-three (23) Honours, eleven (11) Master's and eight (8) PhD students graduated from the department this year.

PhD candidate, Ms Natasha Boel was invited to co-author a book chapter with Professor Edkins on her PhD research and gave an oral presentation at the Gordon Research Seminar on Fibronectin, Integrins & Related Molecules (GRS) in Ventura, California.

PhD candidate, Ms Stacey Mattison, conducted a research visit to the laboratory of Professor Didier Picard at University of Geneva as part of a Swiss-South Africa collaboration grant between Professor Edkins (Rhodes) and his group. During the visit, Ms Mattison received training in immune-histochemical analysis of tumour samples and was able to transfer this technology to Professor Edkins' laboratory at the end of the visit. During this visit, Ms Mattison also presented her PhD research at the 8th International Congress on Stress Response in Biology and Medicine held in Turku, Finland.

PhD candidates, Laura Dingle and William Samson conducted a research visit in December 2017 to India as part of a South Africa-India NRF collaboration grant between Professor Edkins (Rhodes) and Professor Arindam Bhattacharyya (Calcutta). During this time, the students presented their research and interacted with Postgraduates at Calcutta and Kalyani Universities in West Bengal.

PhD graduate and member of the Marine Natural Products group, Samantha Waterworth visited Dr Jason Kwan's laboratory in the School of Pharmacy, University of Wisconsin at Madison, Wisconsin (USA) in June. Dr Waterworth worked with members of the Kwan group to develop a metagenomic
sequence analysis pipeline for the elucidation of secondary metabolite biosynthetic pathways in marine sponges. In July, Dr Xavier Siwe-Noundou and Mr Jarmo Kalinski presented their data at the annual meeting of the American Society of Pharmacognosy in Portland, Oregon (USA). They then spent a month as visiting researchers in the laboratory of Professor Kerry McPail at the Oregon State University in Corvallis Oregon (USA) where they received specialized training in Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry applications for marine natural products research.

Distinguished Visitors / International Visits

Professor Greg Blatch, Pro-Vice Chancellor of Research at Notre Dame University (Australia) and Visiting Professor, visited and interacted with academics and Postgraduates in BioBRU and the department.

Professor Arindam Bhattacharyya of University of Calcutta visited his collaborators in BioBRU in May 2017.

Former members of the Rhodes University Department of Microbiology, Professor Frank Robb, and Dr Susan Robb of the Institute of Marine and Environmental Technology, Baltimore, Maryland, (USA) visited the Department in September. Professor Robb interacted with members of the Marine natural Products Research group and presented a research seminar entitled “A working model of a novel ancestral protein folding machine”.

Significant Research Aligned Events

Professor Adrienne Edkins was successful in securing funding from German Academic Exchange Service (DAAD) to recruit up to fifteen (15) PhD students from sub-Saharan African countries to complete their PhDs in Biochemistry and Microbiology at Rhodes University over the next three (3) years. This funding will cement Rhodes University as a leader in Africa and enhance its role in supporting development of research capacity in Africa.

Dr Brendan Wilhelmi attended the orientation meeting in Bonn, Germany to represent the department at the launch of this funding.

Professor Edkins gave a public lecture in recognition of the VC Distinguished Research Medal awarded to her in 2015. Professor Edkins was nominated as a Member of Academy of Science of South Africa (ASSAf), and in association with ASSAf, she hosted Nobel Prize Laureate Professor Michael Levitt at Rhodes University. Professor Levitt interacted with Postgraduate students and gave a public lecture on his research to the Grahamstown community.

Professor Brett Pletschke and a Dr Samkelo Malgas, attended and presented their research findings at the 39th Symposium on Biotechnology for Fuels and Chemicals in San Francisco, May 1-4, 2017. Their work focused on the bioconversion of softwoods into fuels and chemical for the bio-economy. Brett Pletschke also contributed to a review in the International Energy Agency (IEA) Bioenergy Task 39 December 2017 Newsletter, which was entitled “Perspectives on Biofuels in Sub-Saharan Africa”, which summarises the current state of biofuel technology on the African continent.

Dr Gwyneth Matcher undertook an expedition with Rhodes University colleagues to Western Dronning Maud (Jutulsessen and Ahlmanriggen) to collect water, soil and lichen samples as part of an Antarctic microbial ecology study.

Professor Donington led a successful proposal to establish a SARCHi-led Community of Practice in Marine Science. The Community of Practice brings together a transdisciplinary, multi-institutional team of eighteen (18) senior researchers, including six (6) SARCHi Chairs, all actively engaged in research in the Eastern Cape, with the aim of developing a regional marine spatial plan for Algoa Bay.

The “Algoa Bay Project” will develop the first marine spatial plan in South Africa, and feed directly into the process for developing a national Marine Spatial Plan that underpins the development of our Blue Economy. The Marine Natural Products Research team has also been received a grant from the Gordon and Betty Moore Foundation (USA) for molecular ecology research on South African marine stromatolites. The project (“How Microbes Use Chemistry to Form Ecosystems in Layered Living Rock”) is a collaboration with researchers from Oregon State University, the University of California at San Diego and the University of Wisconsin at Madison that will run through to the end of 2020.
International Visits

Knox, C.M., and Jukes, M.D.


Peer Reviewed Subsidy-Earning Journal Research Publications

Adeoyo, O.R., Pletschke, B.I. and Dames, J.F.


Blatch, G.L.


Brooks, M.


Brown, D.K. and Tastan Bishop, O.


Dames, J.F.


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


De La Mare, J.A., Jurgens, T. and Edkins, A.L.


Dorrington, R.A.


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


Gama, R., Van Dyk, J.S. and Pietschke, B.J.


Malagas, S., Thoresen, M. and Pietschke, B.J.


Lloyd, M. and Knox, C.


Malagas, S. and Pietschke, B.J.

Moses, V. and Tastan Bishop, O.


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


Hoppe, H.C. and Isaacs, M.


Isaacs, M., Mnkandhla, D. and Hoppe, H.C.


Pletschke, B.I.


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


Sheik Amanuddoy, O. and Tastan Bishop, O.


Tastan Bishop, O. and Bentley, S.J.


Uphold, N., Ross, C., Tastan Bishop, O. and Knox, C.


Van Der Merwe, M.J., ukes, M.D. and Knox, C.


Venkatachalam, S., Mendes, A., Matcher, G.F. and Dorrington, R.A.


Vos, H.J. and Knox, C.


Whiteley, C.G.


Wilhelmi, B.S.

Department of Biochemistry & Microbiology


Peer-reviewed Proceedings

Dorrington, R.A.

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

Boel, N.M.E., Hunter M.C., and Edkins, A.L.

Boel, N.M.E., Hunter M.C., and Edkins, A.L.

Dames, J.F.

Dames, J.F.

Edkins, A.L.

Isaacs, M. and Mkandhla, D.

Knox, C.


Malgas, S. and Pietschke, B.J.


Minka, Z. and Dames, J.F.
Postgraduates / Graduations
RUBIC hosted thirty (30) Honours, Masters and PhD students in 2017. The Centre graduated ten (10) Honours (including one (1) joint with the Department of Physics & Electronics), four (4) Masters (including one (1) distinction) and one (1) Doctoral candidate sat the graduation ceremony in April 2017.

Technology Transfer and Innovation Awards
RUBIC launched two (2) new prototypes at the Innovation Bridge Technology Matchmaking and Showcasing Event - an initiative of the Department of Science and Technology (DST) in 2017.

Two (2) MSc students, Mr Lucas Lotter and Mr Charles Faul, under the supervision of Professor Janice Limson, Dr Ronen Fogel and Dr Earl Prinsloo, beat over three hundred (300) prototypes at the event to win the coveted Best Prototype Award for FieldLab, a lab in a box for on-site medical diagnostics. FieldLab continued its winning spree with a half-a-million rand first prize in the Innovation Hub’s GAP-Biosciences national awards in November 2017.

The second prototype, Amyoli, showcased by Masters Biotechnology graduate Aphiwe Mfuku, received positive attention for his portable prototype, which removes bacteria and metals from water on-site. Mr Aphiwe Mfuku is also RUBIC’s first entrepreneur in residence. Working with Professor Limson and Dr Fogel he was awarded a seed funding grant from the Technology Innovation Agency (TIA) for the further development of his nanofibre based prototype for water treatment. Mr Mfuku was also funded through a generous grant awarded by the Brenley Trust, United Kingdom.

Unicef Innovation Laboratory
In its second year, research in the UNICEF funded Innovation Laboratory led by Professor Limson and Dr Fogel continued
its work in the generation of novel aptamers for diagnostic and therapeutic applications. Novel aptamers linked with HIV monitoring developed by Tamika Fellows have been earmarked for patenting, while prototype development for a new diagnostic for discriminating between different species of malaria (Kelly Anne Frith and Martin Ogunmolasuyi) showed great promise. Research in development of new cellphone based applications in collaboration with James Connan (Rhodes University, Department of Computer Science) also continued apace.

**Distinguished Visitors / International Visits**

Ms Tanya Accone, Senior Adviser on Innovation at UNICEF visited RUBIC in July 2017 to further the collaborative partnership between RUBIC and the UNICEF Global Innovation Centre established in 2016. Ms Accone also presented the 8th Annual PD Rose Biotechnology Lecture titled “Unleash your Inner Innovator”.

**Professor Janice Limson** was invited to speak at the Responsible Research and Innovation (RRI): Coming to Grips with a Contentious Concept conference at the Center for Interdisciplinary Research in Bielefeld, Germany in April 2017.

**Science Engagement Research**

Professor Janice Limson led several science engagement initiatives in 2017. These served as a platform to research the beneficial role that engaging the public in research activities may have on Postgraduate science students learning and the potential impact on the design of innovative prototypes stemming from her scientific research.

Science engagement events included Speed Date a Scientist held during SciFest Africa in March 2017, the GADRA Mobile Science Lab initiative (an extensive science engagement programme involving thirty (30) Postgraduates in science teaching at local schools) as well as hosting multimedia science engagement courses for Postgraduate students in collaboration with Dr Alette Schoon, Steven Lang, Gillian Rennie and Professor Harry Dugmore of Journalism and Media Studies. Working with the Rhodes Business School and Dr Tshidi Mohapeloa she explored the learning outcomes of Postgraduate science and business students collaborating on technology innovation projects.

In November 2017, Professor Limson was invited to address science communicators from Department of Science & Technology/National Research Foundation on new approaches in science engagement.

**Significant Research Aligned Events**

Collaborations established in previous years with Distinguished Professor Tebello Nyokong (IDST/Mintek Nanotechnology Innovation Centre - Sensors), Dr Bonga Zuma (Goadex Pty Ltd), and Professor Addmore Shonhai (University of Venda) resulted in the publication of six (6) peer-reviewed journal articles.

Dr Aileen Boshoff further established herself as one of the leading researchers in Trypanosome molecular biology and drug discovery in South Africa through a collaborative research project with Dr Robert Kezyers at Victoria University of Wellington in New Zealand.

The Prinsloo Lab (Dr Earl Prinsloo) received a three (3) year Self-Initiated Research grant from the South African Medical Research Council toward the development of a low cost additive manufacturing solution (bioprinter) for tissue engineering in order to develop in vitro disease models. Further to this Dr Prinsloo opened a dedicated space for additive manufacturing, the RUBIC MakerLab, which has been utilised for research and teaching & learning. Notably, Dr Ronen Fogel integrated the use of 3D printing in the Third Year Microbiology curriculum for development of acetic acid bioreactors.

Internationally, Professor Janice Limson served as Track coordinator for the Chemical, Electrochemical and Gas Sensors symposium of the Annual IEEE Sensors meeting held in Glasgow in October 2017. She was also invited to serve as the Co-Chair (along with old Rhodian Professor Ken Ozoemena) of the upcoming 70th International Society of Electrochemistry Meeting, which will be held in 2019 in South Africa for the first time.

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


The Botany Department continued to consolidate its research focus on evolution, ecology and global change. The department welcomed Dr Rose Prevec, as an Honorary Research Associate in 2017. Rose is a palaeobotanist based at the Albany Museum.

The flagship Rhodes University Elevated CO2 Facility (RUECF) was a hub of research activity and collaboration with South African and international collaborators. Brad Ripley hosted several Department of Science and Technology (DST) site visits to discuss long-term core funding of the facility. He secured funding from the SA Grains Trust, Applied Centre for Climate and Earth Systems Science (ACCESS) and South African National Antarctic Programme (SANAP) for work related to the effects of climate change and elevated CO2 on natural vegetation and crop plants. He visited sub-Antarctic Marion Island in April 2017 to continue research on the effects of increasing temperatures on invasive exotic grasses on the island.

Susi Vetter continued research on bush encroachments and its feedbacks on her herbaceous layer and herbivory. During her sabbatical in the first half of the year, she did field work on the effect of bush density on utilisation by wild and domestic grazers in Manyelethi Game Reserve and the communal rangelands of Welverdiend in Mpumalanga with her Postgraduate and Honours students. As part of her work on the social and cultural values of biodiversity, she was invited to participate in a Swedish (SIDA)-funded workshop on Ecosystem Services and Human Wellbeing in Johannesburg.

This led to a collaborative writing effort with colleagues from Sweden, the United Kingdom and South Africa to write a synthesis paper on the reciprocal relationship between ecosystem services and human wellbeing, which was also the focus of a session at the PECS 2017 conference in Oaxaca, Mexico, where she presented her work in November 2017.

Julie Coetzee’s research continues to focus on the invasion biology and biological control of aquatic invasive species. New projects are targeting invaders such as the yellow flag iris, Iris pseudacorus, the Mexican waterlily, Nymphaea mexicana and pickerelweed, Pontederia cordata, all new emergent aquatic invaders threatening South Africa’s waterbodies. The year culminated with the launch of the Centre for Biological Control, where Julie is a Deputy Director, and the Aquatic Weeds Programme Manager. Government dignitaries, research collaborators from research institutes and other universities, as well as members of the Rhodes community, attended the launch.

In 2017, Craig Peter worked on the critically endangered Gauteng orchid, Brachychilus conica transvaalenensis and was able to show that the plants in the last known population are being pollinated and setting fruit, highlighting the importance
of efforts to save the population from imminent development. He presented these findings at the 22nd World Orchid Conference in Ecuador. He also attended the second WOSA (Wild Orchids South Africa) conference in Dullstroom and Indigenous Bulbs Association of South Africa, Bulbs and Corms Symposium in Worcester. He received funding to continue the digitizing of specimens in the Schonland Herbarium.

Tracey Nowell continued to establish her research programme on the evolutionary relationships within the genus Cotyledon. She did field work throughout the Eastern and Western Cape provinces to collect material for molecular analyses and to conduct pollination experiments. She was elected onto the scientific committee of the Thicket Forum.

Tony Dold continued collaboration with Alicante University (Spain) on South African Hyacinthaceae. This research resulted in the description of a new genus from southern Africa, Austronea (Asparagaceae, Scilloideae), including the description of six new species. Tony continued with the editing of Mary Pocock’s travel diaries documenting her expedition into Angola in 1925 with a view to publishing a book.

Postgraduates / Graduations

The Botany Department was home to two (2) Honours, nine (9) MSc and eight (8) PhD students. Aviwe Matiwane, PhD student, was a national finalist in the FameLab competition with a presentation of her PhD work on plant fossils.

Distinguished Visitors / International Visits

Julie Coetzee hosted Dr Andreas Hussner from the Institute of Botany, Heinrich-Heine-University, Düsseldorf, Germany for six (6) weeks, from late January. They investigated the effect of elevated CO₂ on submerged aquatic plants, at the RUECF. Their results have recently been submitted to the journal Aquatic Botany.

Julie also hosted Dr Iris Stiers from the University of Brussels, Belgium, in November, as part of a collaborative project investigating options for biological control of Iris pseudacorus, the European wetland Iris, which has become highly invasive in South African waterbodies. At the same time, she also hosted Dr Alejandro Sosa from the Fundación Para El Estudio De Especies Invasivas (FUEDEi), Argentina, as part of a National Research Foundation (NRF) South Africa/Argentina collaborative project, looking at biological control synergies between South Africa and Argentina.

Brad Ripley hosted Dr Caroline Lehmann from the University of Edinburgh, who conducted research in the effect of elevated CO₂ on nitrogen fixation in acacia seedlings, as part of ongoing research on the effects of global change on land cover change, including woody encroachment.

Significant Research Aligned Events

Brad Ripley hosted a Li-Cor infrared workshop on advanced techniques in analysing gas exchange in crops and other plants. The fully funded workshop was facilitated by experts from the USA and attended by researchers and Postgraduate students from Rhodes University and the University of Fort Hare.

Susi Vetter and Brad Ripley hosted a research workshop on “Bush encroachment: Processes and feedbacks” to synthesize collaborative research on this topic. Academic colleagues and Postgraduate students attended the workshop from Rhodes University, University of the Witwatersrand, University of Stellenbosch and the University of Pretoria.
PUBLICATIONS

Other Publications
Coetzee, J.A.

Peer Reviewed Non-Subsidy-Earning Journal Research Publications
Clark, V.R.

Peer Reviewed Subsidy-Earning Journal Research Publications
Barker, N.P.


Colyniane, P.

Dold, A.P.

Gallagher, S. and Botha, C.E.J.
Gallagher, S., Hill, J.M., Murugan, N. and Botha, C.E.J. (2017) ...


Leslie, T.D. and Rajkaran, A.


Lombardi, O.C. and Peter, C.I.


Lukke, R.


Peter, C.I.


Peter, C.I., Dold, A.P. and Meldoni, C.A.


Ripley, B.S.


Situngu, S.


Skowno, A.L.


Vetter, S.


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

Coetzee, J.A.


Coetzee, J.A. and Peter, C.I.


Rajkaran, A.


Vetter, S.


These staff awards are a reflection of the dedication and hard work of our Postgraduate students. Together with phenomenal support from our technical staff and administrative staff, they are able to generate award-winning articles and conference presentations. Staff and students undertook research visits to Spain, Germany, the United States of America, Tanzania, Senegal, India, and others.

In particular, I would like to point out that Rhodes students got top prizes in the South African Chemical Institute (SACI) Regional Seminars through Cuan Kruger, Akhona Ngqinambi, and Siyuysie Mapukata. Students, Christian Nikanga and Nhabeleg Molupe were awarded prestigious SACI Postgraduate medals. Their recognition does not stop at Science, with students regularly winning awards such as the Investec Top 100 (K Segkota, J Harris, A May) for their work in Leadership, Teaching, and Community Engagement.

One of our proudest moments of 2017 must be the announcement that Joyce Sewry received the 2017 Vice-Chancellor’s Distinguished Teaching Award. This not only leads to her recognition as a leader in teaching, but in Educational Research in Science.

As a Department, we are also very proud to recognise the great work that our alumni and graduates achieve. Former students Dr Sarah D’Souza and Dr Nolwazi Nombona attended the Nobel Laureate Meeting in Lindau, and Dr Prudence Ogunlade received an Old Rhodian Award.

In August we received the news that Professor Nelson Torto (former Head of Department in Chemistry and associated scientist), became the new Executive Director of the African Academy of Sciences.

Other highlights include the visit by Professor Susan Bourne, Head of Department at the University of Cape Town (UCT), who delivered our Barker Lecture for 2017 on Supramolecular Chemistry, and later Professor Canan Atilgan from the University Istanbul.

Finally, the year was rounded off with the installation of a new National Research Foundation (NRF) sponsored HPLC-ToF MS, which will allow us to collect data in the quality of chemical entities that will undoubtedly lead to even more publications in 2018 and beyond.

I would like to wish all our graduates a successful future wherever they go, and thank them sincerely for the hard work reflected in this report.
**PUBLICATIONS**

Concerts, Exhibitions, Performances, Workshops, Events


**Distinguished Visitors**


Harrison, T. Mr T Harrison. Bristol University, Bristol, United Kingdom. Pollutants Tale and Seminar. February 2017.


Klumperman, L. Professor L Klumperman. Stellenbosch University, Stellenbosch,
Kobayashi, N.
Kosch, M.
Lee, C.
Maurya, Y.K.
Ngila, J.C.
Oyim, J.O.
Papoutsidakis, M.
Priniotakis, G.
Reyneke, B.
Seehawer, M.
Sigala, M.
Thai-Keong, G.
Toutain, J.P.
Varenne, A.

International Visits
Mack, J.
Matshitse, R.
Matshitse, R. Shinshu University, Ueda, Japan. Exchange MSc student. 1 September - 31 October 2017.
Nene, L.C.
Nene, L.C. Shinshu University, Ueda, Japan. Exchange PhD student. 1 September - 31 October 2017.
Nkhahle, R.P.
Nyokong, T.
Department of Chemistry


Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Klein, R. and Kaye, P.T.
Krause, R.M.M.
Watkins, G.M.

Peer Reviewed Subsidy-Earning Journal Research Publications

Achadu, O.J.
Achadu, O.J. and Nyokong, T.
Achadu, O.J.
Achadu, O.J.
Achadu, O.J.
Achadu, O.J.
Achadu, O.J.
Achadu, O.J., Manager, M. and Nyokong, T.

Adyemey, C.M.
Adyemey, C.M., Klein, R., Krause, R.W.M., Lobb, K.A. and Kaye, P.T.
Agunbiade, E.
Aymen, A.
Aymen, A. and Watkins, G.M.
Bankole, O.M.
Bankole, O.M. and Nyokong, T.
Bankole, O.M.
Bankole, O.M., Achadu, O.J. and Nyokong, T.
Centane, S.
Centane, S., Achadu, O.J. and Nyokong, T.
Chithambamo, B.
Chithambamo, B., Siwe Noundou, X. and Krause, R.W.M.
Davies-Coleman, M.T.
Davies-Coleman, M.T., Milansowski, D.J., Oluwole, D.O. and Nyokong, T.
Dupe, E.
Dupe, E., Nwaji, N., Oluwole, D.O., Mack, J. and Nyokong, T.
Dupe, E.
Dupe, E., Oluwole, D.O. and Nyokong, T.
Fodjo Magne Eps Epefogome, C.Y.
Fodjo Magne Eps Epefogome, C.Y., Kempgens, P. and Krause, R.W.M.
Harris, J.
Harris, J., Kubheka, G., Mack, J. and Nyokong, T.

Kaye, P.T.

Kempgens, P.

Khan, F.I.


Khan, F.I. and Lobb, K.A.

Khaney, S.D.

Khene, S.

Krause, R.W.M.

Krause, R.W.M. and Sewry, J.

Kubahka, G., Achadu, O.J., Mack, J., and Nyokong, T.

Kubahka, G., Mack, J., and Nyokong, T.

Lakkakula, J.R. and Krause, R.W.M.

Lebecchi, A.K., Nyokong, T. and Mack, J.

Ledwaba, M., Masilela, N., Nyokong, T. and Antunes, E.M.

Lobb, K.A.

Louzada, M., Britton, J., Nyokong, T. and Khene, S.


**Peer-reviewed Proceedings**

Lobb, K.A.


Sigaude, L.T. and Lobb, K.A.

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


Smith, V.J. Smith, V.J. Committee members were not required to present their work. 23rd International Conference on the Chemistry of the Organic Solid State. ICCOS/SX111. Stellenbosch. South Africa. April 2017.


In 2017, the research activity in the Computer Science Department was 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, a triple helix initiative that brings together Industry, Government and Academia to every participant’s gain. Started in 1997, as an externally funded project, the longevity of the Centre has been remarkable.

**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** (Professor George Wells and Professor Karen Bradshaw)
This group concentrates on the ever present and important theme of parallel and distributed computations.

**Intelligent Robots** (Professor Karen Bradshaw)
This group uses Artificial Intelligence to train land-based and aerial robots to perform human tasks, through learning from their mistakes.

**Computer Vision** (Mr James Connan and Dr Dane Brown)
The Computer Vision group focusses on Image Processing and Machine Learning, and their interaction. Emphasis is placed on the application of computer vision techniques to real world problems.

**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.

**Postgraduates / Graduations**
In 2017 the department graduated the following students:
- Eighteen (18) Honours;
- One (1) MSc by coursework and research;
- One (1) MSc by research graduated (3 others submitted their theses for examination);
- Two (2) PhD (an additional candidate submitted his thesis for examination).

During the same year, the following students were in training in the Department:
- Fifteen (15) Honours;
Distinguished Visitors

Professor Magedanz from the Technische Universität of Berlin (Germany) and Fraunhofer Fokus, visited the Department in March. He delivered lectures on 5G and the Internet of Things and interacted with staff on possible collaborations, particularly the Convergence group.

Professor Erkki Sutinen, head of the Interaction Design group at the University of Turku (Finland) visited the Department in April, meeting staff members on possible collaborative projects. Professor Sutinen is not new to the Southern Africa region, having spent time here as part of Finland / Southern Africa collaborations. In particular, there are plans for a re-engagement by Finland with the region, after successful programmes such as COFISA and SAIFIPA, to which Rhodes contributed and received benefits in previous years.

Professor Adolfo Villafiorita, Dr Aaron Ciaghi and Dr Pietro Molini, from the Fondazione Bruno Kessler in Trento (Italy) visited the Department in October, as part of a collaborative project on software engineering in low resource settings.

Significant Research Aligned Events

This section highlights activities that cannot be easily inferred from the research outputs listed below.

### Publications

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


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


### International Visits


### Patents

Department of Computer Science

Peer-reviewed Proceedings


Burke, I.D.


Thinyane, H.


Machanick, P.


Smith, D. and Wells, G.


Thinyane, H.


Foss, R.


Frieslaar, I.


Frieslaar, I.


Irwin, B.


Knoetze, T.


Linklater, G.


Machanick, P.


Machanick, P.


Marais, K.


Foss, R.

Motara, Y. M. and Irwin, B.  

Pearson, D., Irwin, B. and Herbert, A.  

Pennefather, S. and Irwin, B.  

Pennefather, S., Bradshaw, K. and Irwin, B.  

Sogunle, O., Tsietsi, M. and Terzoli, A.  

Shaw, B.  

Sieborger, I.  
Sieborger, I. and Reynell, E.  

Sieborger, I. and Reynell, E.  

Sweeney, M. and Irwin, B.  

Thinyane, H., Sieborger, I., Pade-Khena, C. and Mthoko, H.  

Terzoli, A.  

Tsietsi, M., Chindeka, T. and Terzoli, A.  

Thinyane, H., Sieborger, I., Pade-Khena, C. and Mthoko, H.  

Pennefather, S. and Irwin, B.  

Sieborger, I. and Reynell, E.  

Shaw, B.  

Frieslaar, I.  

Schmitt, V.  

Schmitt, V.  

Frieslaar, I.  

Schmitt, V.  

Schmitt, V.  

Shaw, B.  
Research and creative practice form a dynamic synergy within the outputs of the Drama Department. In 2017 the department was involved in both performing arts creative practice and the presentation and publication of papers and articles. Through this combination of activities and outputs the department encouraged a dialogical connection between practice and research, thereby consolidating and extending a theatre knowledge-base within the context of the university academic programme. At the centre of the department’s academic inquiry are questions concerning theatre and performance itself - and its relationship to the audience and society in which it operates. In this manner, research for, through and into theatre is conducted.

To do such theatre research, extensive, diverse and applied approaches are necessary, allowing space for performers, choreographers, writers, designers and directors to prepare for and create productions. The same industrious effort is required whether one is preparing to work within an applied-theatre context, in a classroom, or in any other learning context. In pursuit of its transformative goal the department regards content and form as equally important and therefore requires that theatrical form is subject to the same intensity of enquiry that is given to theatrical content.

The department’s synergistic amalgamation of research and practice has meant that staff participated in a number of international conferences, events and workshops. Through the research and creative practice of staff members the Drama department was represented nationally; and also internationally in Belgium, Brazil, Germany, Greece, the United Kingdom, the United States and Hong Kong. Dr Heike Gehring delivered papers at theatre conferences in Brazil and Belgium, while Ms Lieketso Mohoto attended a Lessac Kinesensic Training course at the Lessac Training and Research Institute at the University of Mississippi, United States.

The creative outputs of staff and students were showcased at multiple festivals - the National Arts Festival in Grahamstown, the Klein Karoo National Arts Festival, the Cape Town Fringe Festival and the Edinburgh Festival in the UK. Staff and students were also invited to residencies and research fellowships. Ms Thembela Madliki was chosen to be one of thirty (30) participants from around the world to take part in the International Association of Theatre for Children and Young People’s Next Generation residency and Dr Heike Gehring

Masters in Directing entry for the 2017 National Arts Festival: Ant directed by Mike Da Silva.
Photo: Wia van der Merwe.
received a DAAD research grant for a period spent at the Free University in Berlin, Germany.

Professor Andrew Buckland performed in the Market Theatre production of *The Inconvenience of Wings*, written and directed by acclaimed South African director Lara Foot. At the Assembly Rooms, at the Edinburgh Festival, Buckland performed in both *The Inconvenience of Wings* and *Tobacco*, directed by Sylvaine Strike. Buckland also played the lead role in a South African film directed by Kagiso Lediga entitled, *Catching Feelings*, which was released internationally in 2017 by Netflix.

Athina Vahla - Research Associate of RU Drama - continued her inspirational work with students in the department. She received international commissions and her work, *A Soft Target*, was presented at the Riley Theatre in Leeds, United Kingdom. She also choreographed a work with students of the State School of Dance in Athens. Vahla taught at the State School of Dance in Athens as well as Trinity Laban in London.

Postgraduates / Graduations

The Drama department's postgraduate students made a strong contribution to creative outputs in a variety of ways. The Masters in Directing students presented their final thesis projects at the Fringe Programme of the 2017 National Arts Festival. In doing this, they not only offered possibilities for networking on a national and international level, but also positioned their research as professional practice. The diversity of their chosen topics and theatre-making approaches was indicative of the wide range of subjects and research methodologies spanned by the department. For example, Sam Pennington explored the relationship between competitive gaming and theatre in his work, *Esports Lounge*, while Mike da Silva adapted a short story for a theatre production called *Ant*. With her cast, Thembela Madliki co-created an original work, *Bayephi*, in which she explored aspects of South Africa's troubled past and its hold on the present. Bayephi won a Silver Standard Bank Ovation Award and was invited to be performed at the 2017 Cape Town Fringe Festival. Based on the strength of this work, Thembela Madliki was commissioned to create an original theatre work for the 2018 Klein Karoo National Arts Festival. Another student, who presented work at the 2017 Cape Town Fringe Festival, was Masters in Choreography Student, Nomcebisile 'Moyikwa, with a work called *One Big Blink*.

Honours Directing and Choreography student, Mmatumisang Motsisi, presented a work for the 2017 National Arts Festival Student programme called *Cult Clit*. For this she won the Student Theatre Award for Best Original Work. The feedback for the work was as follows:

*Cult Clit* impressed with its clear vision and unified team. Here the choreography, design and light performance ensemble elements worked harmoniously to create an entirely cohesive and powerful original theatre production (Adjudication Panel).

In addition to presenting creative work at arts festivals, the Drama department's postgraduate students presented work at conferences. Phemelo Helemann was selected to offer a presentation from her Masters research in Applied Theatre at the 19th International Association of Theatre for Children and Young People (ASSITEJ). Nomcebisile Moyikwa was invited to perform her Thesis Project, *Qash Qash*, at the Third Space Symposium, "Decolonizing Art Institutions", which was held in Cape Town.

Another highlight was when Thembela Madliki was chosen to be one (1) of thirty (30) participants from around the world to take part in ASSITEJ’s 2017 Next Generation residency.
situations of right and wrong as well as other important life choices. The show was performed at the National Arts Festival and following that it was performed twice a day, for a week, to over three thousand (3000) youngsters from various primary schools in Grahamstown. In October, Luvuyo Yanta of Ubom! created a heart-warming community Christmas show which brought Christmas magic, wonder and fun into the lives of Grahamstown residents from the greater Grahamstown community - senior citizen homes, the army base and Fort England hospital.

In 2017 Ubom! - another associated project of the Drama department - built the capacity of local unemployed practitioners through theatre skills courses. The Vuka Drama Workshop Programme for various township schools in the Grahamstown vicinity ran throughout the year offering drama-focused activities conducted by community arts practitioners. Under the supervision of Ubom! these practitioners received facilitation training from Rhodes theatre experts, while the Vuka drama workshops culminated in a presentation at the Makana Drama Development Festival.

The winner of the festival was invited to perform as part of the fringe programme at the National Arts Festival in 2018. In addition, Performing Change Workshops were run throughout the year at the Grahamstown Correctional Facility for juvenile offenders. The Makana Drama Development Festival was held during November 2017 in the Rhodes University Theatre. Local community practitioners were invited to participate and the element of competition amongst the groups noticeably raised the standard of the productions.

In the first part of 2017, Ubom! created and presented a dynamic theatre intervention for children - Zina and the Songbird - with the express aim of igniting the love and thrill of live stage performance and theatrical arts in young minds. The production was designed to engage with archetypal situations of right and wrong as well as other important life experiences. The production was designed to engage with archetypal situations of right and wrong as well as other important life experiences.

Tony Miyambo visited the department to perform the internationally acclaimed production Kafka’s Ape (2015) for which he and director, Phala Oskedike Phala, received multiple awards: the “2015 Naledi Nomination for Best Cutting Edge Production”, the “2015 Amsterdam Fringe Nomination for Best Foreign Production” and the “2015 Standard Bank Ovation Award”. Miyambo offered a number of Acting Master Classes during his visit.

### Significant Research-Aligned Events

First Physical - an associate project of the department - offered extensive interaction with the larger Grahamstown community. BodyForms, an educational and development initiative of the company’s “Dance for All”/ “Adult Education” programme was established in 2003. In 2017 the programme experienced significant growth in that it offered somatic training in Contemporary Dance, Yoga, Hip Hop and a variety of other dance forms.

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### Distinguished Visitors / International Visits

Prof Ketu Katrak visited the department as a researcher, guest lecturer and PhD co-supervisor. She brought a wealth of experience in Drama and Dance/Choreography, which was an excellent fit with the department’s ethos of embodied performance practice. Her books on current Indian Contemporary Choreography and Postcolonial politics of the female body are pertinent and relevant to discussion about decolonising curricula/research and she made a rich and inspired contribution to debates on postcolonial performance.

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### Dr Heike Gehring, Head of Department

**PUBLICATIONS**

**Books/Chapters/Monographs**

Sutherland, A.


**Concerts, Exhibitions, Performances, Workshops, Events**

Buckland, A.


Buckland, A. Performed lead role in feature film, Catching Feelings, released internationally by Netflix.

Gehring, H.


Department of Drama

Krueger, A.R.

(2017) "Performing mindful creativity: Three South African case studies".


Mohoto-WaThaluki, L.

(2017). "Challenging dominant ways of creating and consuming knowledge".


Kelly, H.


Gehring, H.

Hosted a series of post-production talks at the Klein Karoo National Arts Festival in Oudtshoorn. 8-15 April 2017.

Krueger, A.R.

Writer, Director, Performer. "Murder at the Exhibition" (Murder Mystery Game).


Gehring, H.

(2017) “Lady Anne: A case study in practice as research as a way to renegotiate history.”


Creative Writing

Krueger, A.R.

(2017) “Imaginedtheatres.com is an open-access online journal.”

In: A Bad Spell. Imagine Theatres.

Krueger, A.R.


In: Revolutionary Diaries. Cameroon: Langaa RPCIG.

Peer Reviewed Non-Subsidy-Earning Journal Research Publications

Gehring, H.


Mohoto-WaThaluki, L.


Peer Reviewed Subsidy-Earning Journal Research Publications

Kelly, H.


Krueger, A.R.


Smit, S.

(2017) “Method and madness: De/colonising scholarship and theatre research with participants labelled mad”.

Academic staff and students also presented nine (9) papers at academic conferences, one (1) at an international conference, one (1) at the Second Annual Economic Research Advisory Network (ERAN) Conference on Driving South Africa’s Industrial Development Agenda and the rest at the biennial conference of the Economic Society of South Africa that was held at Rhodes University.

The papers and presentation and journal articles represented a wide range of economic topics and highlighted the expertise available in the Department. The research covered financial markets, quality of life economics, cultural economics, environmental and agricultural economics, ecological economics and economic growth.

Postgraduates / Graduations

The number of Postgraduates registered for Masters degrees and doctoral degrees remained steady in 2017, which was largely the result of the Environmental and Natural Economics Research Focus Area (ENREFA) and the South African Cultural Observatory.

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 an adequate year concerning Master’s degree graduands, three (3) Masters degrees by thesis (two (2) Master of Commerce and one (1) Master of Science were awarded and three (3) under the Masters in Financial Markets.

The highlight of the year was the awarding of two (2) PhD degrees. Sylvia Israel-Akinbo was awarded a PhD for the thesis "Energy use patterns and trends: The impact of energy policy in South African low-income households" and Monteili Rantlo received his PhD for the thesis "Integration of small-scale mohair farmers into the commercial agricultural economy in Lesotho: A new institutional economics approach".

Distinguished Visitors / International Visits

Professor Ferdie Botha visited the University of Antwerp in Belgium for the defence of his PhD thesis, which was successful and he was awarded his degree.

Professor Charles Perrings of the School of Life Sciences Eco Services Group at the Arizona State University, Phoenix, United States of America, hosted Professor Gavin Fraser. Professor Fraser presented two (2) seminars while at the ASU. The first was "Quantifying the economic water saving benefit of water hyacinth (Eichhornia crassipes) control in the Vaalharts Irrigation Scheme" and the other was "An ecosystem service value chain analysis framework: a conceptual paper".

Professor Jen Snowball visited the Department of Culture, Media and Creative Industries, King’s College, London, UK as a Visiting Professor. She delivered a seminar entitled: Cultural Policy and the Cultural and Creative Industries in Developing Countries: A case study of South Africa.

Significant Research Aligned Events

Professor Ferdinand (Ferdi) Botha was awarded the Vice-Chancellor’s Distinguished Research Award.

Professor Snowball continues to work with the South African Cultural Observatory, which hosted a conference in Johannesburg in May 2017, at which she and several Postgraduate students presented their work. Professor Snowball also attended the International Conference on Arts and Culture Management held in Beijing, in June 2017.

The biennial conference of the Economics Society of South Africa was held at Rhodes University at the end of August 2017. Professor Gavin Keeton was the President of the society.
International Visits
Botha, F.
Botha, F., University of Antwerp, Antwerp, Belgium. PhD research and PhD visit. 25 September - 7 October 2017.
Fraser, G.C.G.
Fraser, G.C.G., School of Life Sciences Eco services Group, Arizona State University, Phoenix, United States of America. Visiting Researcher at the School of Life Sciences Eco services Group. Hosted by Professor Charles Perrings. Presented two papers during the visit. Developing a linkage between the group and ENREFA at Rhodes. 6 September - 23 January 2017.
Snowball, J.

Other Publications
Cattaneo, N.
Rawlins, J. and Fraser, G.C.G.

Peer Reviewed Subsidy-Earning Journal Research Publications
Arp, R.S. and Fraser, G.C.G.
Botha, F.
Feddersen, M., Nel, H. and Botha, F.
Keeton, G.R.
Snowball, J. and Tarentaal, D.

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Botha, F.
Drummond, F.J. and Snowball, J.
Israel-Akinbo, S.O., Snowball, J. and Fraser, G.C.G.
Keeton, G.R.
Ndawona, T.M., Keeton, G.R. and Cattaneo, N.
Nel, H. M.E. and Snowball, J.
Pilots, M. J. A. and Botha, F.
Rawlins, J. M. and Fraser, G.C.G.
The Faculty’s research trajectory continues to enable us as a Faculty to bridge the gap between research and teaching, teaching and research, schooling and higher education, and research in higher education and civil society. The trajectory also includes a number of studies that focus on community learning via expansive learning research. This trajectory further presents us with an opportunity to take sufficient advantage of existing expertise in the Faculty in the service of our province, country, continent, and the international community.

Postgraduates / Graduations
The Department celebrated the graduation of a number of students at the graduation ceremony in April 2017. Across the two (2) Education Department campuses, i.e. Grahamstown and in Namibia, we have graduated the total of thirty-four (34) MEd students and fourteen (14) PhD students.

Research Chairs:
The Environmental Learning Research Centre
The Faculty’s Research Chairs continue to make significant contributions to educational knowledge generation and educational development in the country.

In 2017 the SARChI Chair in Global Change and Social Learning Systems continued its research into transformative social learning systems and green skills learning pathways. The Chair is developing theoretical, methodological and policy knowledge of transformative education and learning processes that address critical global change challenges and concerns, amongst these being food and water security, climate change, biodiversity loss and climate resilient green economy development.

The SARChI Chair in Global Change and Social Learning Systems works closely with the Murray and Roberts Chair of Environmental Education, both being based in the Department’s Environmental Learning Research Centre (ELRC), which hosts a cohort of sixty (60) Postgraduate scholars. The Murray and Roberts Chair is leading research in the areas of green skills research with a focus on demand-side analysis and monitoring, evaluation and learning in natural resources management and climate change resilience contexts.
In 2017, Environmental Learning Research Centre researchers produced three (3) Books, fifteen (15) journal papers, nineteen (19) Book Chapters, sixteen (16) keynote papers, and forty-five (45) Conference Presentations, showing a high level of research productivity.

The Centre also graduated three (3) PhDs and three (3) Masters scholars in the 2017 graduation ceremony.

Publishing highlights include the publication of a Springer book on ‘Schooling and Sustainable Development in Africa’. This book captures ten (10) years of research on Education for Sustainable Development and educational quality and relevance in southern Africa, arguing that sustainability concerns are, and must be a key feature of what counts as quality education in Africa. The research from this book informed the design and development of a sixty (60) Institution Teacher Education Programme on Education for Sustainable Development in southern Africa, designed and implemented in 2017 by the Chair and Postdoctoral scholar Dr Sirkka Tshiningayamwe in partnership with UNESCO, the southern African Universities Association and the Swedish International Centre for Education for Sustainable Development.

A second publishing highlight was the publication of a Special Centre for Education for Sustainable Development in southern Africa, Africa’s Sector Education and Training Authorities under the leadership of Professor Rosenberg, with a Chief role for the South African Qualifications Framework (NQF), and Lifelong Learning in South Africa’ which carries eight (8) papers produced by Professor Lotz-Sisitka and leading Green Skills researcher, Dr Presha Ramsarup. The papers report on the methodological dimensions of the Phase 2 SAQA/Rhodes University partnership, and draw substantively on the PhD of Dr Ramasrup. This research has provided new methodological foundations for Green Skills Learning Pathways research in South Africa, and offers a critical realist laminated system approach to considering green skills development in a transitioning system framework.

This new research focus has been significantly expanded in 2017 under the leadership of Professor Rosenberg, with a number of Green Skills studies undertaken for some of South Africa’s Sector Education and Training Authorities under the banner of the national Green Skills Research programme that is supported by the Development Bank of South Africa and the National Environmental Sector Skills Planning Forum. This research was represented by Professor Rosenberg at the International Conference on Greening Skills: TVET for Sustainability hosted by UNESCO and the government of China in July 2017.

On the conferencing front, highlights were the Environmental Learning Research Centre collaboration with the University of Witwatersrand Centre for Researching Education and Labour and other national partners to host the 10th International Researching Work and Learning Conference (RWL10). This Conference brought two hundred (200) work and learning researchers and a number of international researchers from fifteen (15) countries to Rhodes University and the Education Department.

Professor Annalise Sannino from the Centre for Research on Activity Development and Learning (CRADLE) at the University of Helsinki, Finland - one of the SARChI Chair’s International Visiting Professors - offered a keynote address into this conference which set out a pathway for fourth generation cultural historical activity theory research. Together with Professor Engeström, also from CRADLE and a Visiting Professor of the SARChI Chair, Professor Sannino offered a workshop on cultural historical activity theory which benefited research scholars at the conference, but also in our Department.

Senior Research Associates of the SARChI Chair and ELRC, Dr Mutizwa Mukute and Dr Leigh Price also continued to contribute to the research programme of the Chair and the Environmental Learning Research Centre.

In March 2017 Dr Leigh Price collaborated with Professor Lotz-Sisitka to run a one (1)-week Research School in Critical Realism and Social Science Research, which attracted a team of four (4) researchers from Japan.

Dr Mukute has been working with Professor Lotz-Sisitka to establish a transboundary curriculum innovation and research network for institutions of higher learning in the Limpopo Basin of South Africa, involving South African and Mozambique universities.

Dr Price was appointed Editor of the Journal of Critical Realism, and in 2017 the book entitled ‘Critical Realism, Environmental Learning and Social Change’ edited by Dr Price and Professor Lotz-Sisitka in 2016 was co-authored the Cheryl Frank Memorial Prize by the International Association of Critical Realism. Dr Price also co-authored a new book in 2017 in the Routledge critical realism series focusing on ‘Intercensibility and wellbeing’.

In 2016 Professor Eureta Rosenberg took over the Editor-in-Chief role for the Southern African Journal of Environmental Education, an accredited journal that has been published out of the Department of Education at Rhodes University for the past twenty-eight (28) years. Current co-editors of the journal are Dr Lausanne Ovilt and Dr Mucha Togo.

In 2017 a special issue of the journal focussing on student papers associated with the 2016 Environmental Education Association of Southern Africa Conference was produced. The journal is now freely available via the excellent African Open Source system for journal distribution, African Journals Online (AJOL) which has considerably expanded the reach and impact of the journal (at peak readers from around the globe download more than one thousand (1000) full papers from the SA/EE per month).

Professor Lotz-Sisitka continues to serve as co-editor of the International Journal of Learning, Culture and Social Interaction.

Professor Lotz-Sisitka continued to support research on transformative learning (t-learning) and in 2017, in addition to providing ongoing co-ordination of the International Social Science Council research programme currently operating in...
In 2017, she visited the project with Professor Graven that will be published at the end of 2018. This project is being led by PhD researcher, Tichaona Pesanayi, and involves a number of Masters and PhD scholars, two of whom graduated with distinctions for their research on this project.

Dr Dylan McGarry, Postdoctoral Research Fellow in the T-learning programme, also made a number of international contributions, including offering a keynote address at the 2nd world Encounter on Sustainable Actions: Transforming. Complex. Futures in Mexico, August 2017. He also represented the T-learning programme together with Dr Mukute and other researchers at the 3rd International Transformations to Sustainability Conference held in Dundee, Scotland in August 2017 which has led to him leading an international working group on ‘Decolonising Sustainability’ in the Transformations to Sustainability network.

The South African Numeracy Chair
The Mathematics Education Professor Robin Jorgensen from the University of Canberra, visited the Department in October 2017 to do data gathering on the family math story time programme that was run with two (2) partner schools in Grahamstown. In 2018 this research will be jointly analysed and papers written and repeated in one school in the Australian context.

Professor Tabach to work with Professor Graven on the ESM and ZDM issues and co-presented a lecture to the BEd undergraduates on creativity in mathematics and co-presented a methodological workshop with Professor Tabach for the project research team.

Professor Michal Tabach from Tel Aviv University visited the Education Department as part of his research project on integrating technology to mathematics education. As a young teacher, she taught mathematics with open digital tools on a regular basis for all topics of study. Naturally, as she became more involved in doing research, her focus was on learning in an open digital tools environment. However, soon it became clear to her that teacher education is a key factor in integrating technology to every-day school practices. She currently leads two (2) projects aimed at helping practicing teachers to integrate technology into their practice, based on their pedagogical-mathematical needs. She co-presented a lecture to the BEd undergraduates on creativity in mathematics and co-presented a methodological workshop with Dr Heyd-Metzuyanim for the project research team.

In October 2017, Dr Anne Bennison of the University of Queensland gave a guest lecture for our BEd and PGCE undergraduates and presented a methodological workshop for Postgraduates in the Faculty. Dr Bennison was also guest speaker at the SAERA Conference in Port Elizabeth.

In July 2017, Professor Vince Geiger from the Australian Catholic University co-presented a workshop with Professor Gabriele Kaiser of the University of Hamburg to our Postgraduate students on tips for publishing in journals where they shared their experiences as journal editors. Professor Vince Geiger also gave a guest lecture on “Teachers as designers of numeracy tasks across the curriculum” to faculty academic staff and students, and Professor Gabriele Kaiser gave a guest lecture on “Innovative assessment approaches and new paradigms within the assessment of teachers’ professional competencies” to faculty academic staff and students.

The SARCHI Mathematics Education Chair
Professor Matthias Ludwig from the Goethe University in Frankfurt, Germany, visited the Mathematics Education Chair to work with Postgraduate students on his MathCityMap project, which foregrounds realistic and authentic mathematical problem-solving skills. This aligns well with the visualisation research agenda of the Chair. As a result of this visit, Dr Clemence Chikiska visited the MathCityMap research group in Frankfurt to establish a research collaboration relationship between the Chair and Goethe University.

Distinguished Visitors / International Visits
The Department continues to attract internationally renowned scholars and intellectuals. Almost every year one (and sometimes more) of our disciplines hosts a visiting academic or team of academics.

In 2017, the Education Department hosted Dr David Rose from the University of Sydney, Australia. Dr Rose is a pioneer...
of the groundbreaking Reading to Learn (RtL) pedagogy for teaching reading and writing across the curriculum, and from primary to tertiary education. In a collaborative effort between the Education Department and GADRA, Dr Rose also met with local teachers as part of the Vice-Chancellor’s Reviving Grahamstown Education initiative where he opened a conversational and multimedia presentation on how the RtL works. In addition to giving a University-wide Seminar of RtL pedagogy, Dr Rose also got involved in teaching our own BEd FP second and third year students.

We also hosted a dialogue on 27 January 2017. The dialogue involved colleagues from the Netherlands and the US. We titled it: “Decolonising the Curriculum Conversation: RSA - US - Netherlands Perspectives”.

The Rhodes University’s DVC Teaching and Learning, Dr Chrisline Boughey, and the Dean of the Education Faculty, Professor Di Wilmot, also gave presentations, together with four (4) colleagues from universities in the US and the Netherlands. The nature and quality of the engagements at this dialogue created a need for further dialogue, but this time in the Netherlands. The invitation came from the Dutch Organisation for International Cooperation in Higher Education.

The Environmental Learning Research Centre, as outlined above, hosted a number of international visitors in 2017 including four (4) Japanese Professors from Fukayama City University, Ehime University, and Narauto University.

Visitors attending the 10th Researching Work and Learning Research Conference included Professors Lelwane and Webster from Wits University, Professors Sannaho and Engstrom from Helsinki University in Finland, Professor Holmberg from Chalmers University in Sweden, Professor Guy Standing from the University of London, UK, and Professor Johnny Sung from the Institute for Adult Learning in Singapore.

During the year Dr Ruy Koide from the Institute for Global Environmental Strategies (IGES) and Dr Stephanie Chan from the Stockholm Environmental Institute, Stockholm University also visited the ELRC to discuss the scaling of one of the projects, Food for Us, which is a UNEP funded 10 year Framework project on Sustainable Consumption and Production Learning. The project is developing a mobile application learning tool for reducing food waste and transforming market chains.

**Significant Research Aligned Events**

Professor Emmanuel Mfanafuthi Mgqwashu has become co-investigator in an internal research project called: “South African Rurality in Higher Education” (2017 - 2020). This is a collaborative study between the universities of Bristol, Brighton, Johannesburg, Rhodes and Fort Hare. It is qualitative, targeting twelve (12) second-year students in the Science Faculty, and twelve (12) second-year students in the Humanities who lived and studied in rural areas. Students are co-researchers in this project. They are documenting their own lived experiences of learning in rural areas, of learning at university and how they make this important transition.

Another project in which he is a Primary investigator is called: “Learning to Read, Reading to Learn, Learning to Write: Literacy Development for Secondary Schooling” (2015 - 2017). This is a National Research Foundation (NRF) funded project that examined the role of the teaching of reading across the curriculum for epistemological access within schooling. Out of this project, three (3) PhD and two (2) MEd students received their degrees.

Professor Marc Schafer has been appointed Associate Editor for the EURASIA Journal of Mathematics, Science and Technology Education, an accredited international journal. He has also been appointed as co-chair for the VISUALISATION IN MATHEMATICS working group for the big international ICME-14 Congress in China in 2020.

Professor Mellony Graven appointed as co-editor for a Special Issue on Identity for the ZDM international journal.

Dr Ingrid Schudel and a group of Master’s students are co-researchers in CYCLES - an international comparative study of the lifestyles and embedded experience of young people aged twelve (12) - twenty four (24) in urban communities. The study is coordinated by the Centre for the Understanding of Sustainable Prosperity (CUSP) University of Surrey, United Kingdom and University of Canterbury, NZ, and involves research partners in India, Bangladesh, South Africa, Japan and Brazil.

In 2017, Lorna Musiyiwa (Master’s student) travelled to the University of Surrey for a research meeting. The team have written a case study within a desktop research review conducted for this project [https://cusp.ac.uk/wp-content/uploads/CYCLES-background-report-online.pdf](https://cusp.ac.uk/wp-content/uploads/CYCLES-background-report-online.pdf). The research has now extended into a series of focus group discussions with young people in the Grahamstown area.

As an outcome of the Fundisa for Change NRF-funded research, Dr Ingrid Schudel has worked with students to communicate their research to environmental education teacher professional development partners in way that it can be meaningfully taken up into practice. Five (5) research narratives are available on the Fundisa for Change website: [http://fundisaforchange.co.za/research-in-a-nutshell/](http://fundisaforchange.co.za/research-in-a-nutshell/). This is an ongoing project and is a platform for publishing further narratives for engaging curriculum developers, policy-makers, teacher educators and funders in the field.

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**Professor Emmanuel Mfanafuthi Mgqwashu**, Head of Department
Books/Chapters/Monographs


PUBLICATIONS

Distinguished Professor Heila Lotz-Sisitka addressing recently graduated students, parents, friends and families at the Education Faculty’s 2017 Graduation Lunch. Photo: Faculty of Education.


Faculty of Education


Concerts, Exhibitions, Performances, Workshops, Events


Schudel, I.


Distinguished Visitors

Alexander, C.

Professor Charles Alexander: Associate Vice Provost for Student Diversity and Director of the Academic Advancement Program at the University of California, Los Angeles (UCLA). He is also Adjunct Associate Professor in the Division of Public Health at UCLA’s School of Dentistry. His research interest is academic pipeline programs and their impact on workforce diversity in the health professions.

Bennison, A.

Dr Bennison presented a workshop for Postgraduate students on tips for publishing in journals where they shared their experiences as journal editors. He also gave a guest lecture on “Teachers as designers of numeracy tasks across the curriculum” to faculty academic staff and students.

Chan, S.

Dr S Chan. 10YFP Sustainable Lifestyles and Education Programme, Stockholm Environment Institute, Stockholm University, Sweden. UNEP Site Visit for the Food for Us Project, including a Scaling and Impact Assessment Framework session. October 2017.

Chikamori, K.


Derossi, M.


Engestrom, Y.

Professor Y Engestrom, Centre for research on activity, development and learning (CRADLE), University of Helsinki, Helsinki, Finland. Workshop and conference. December 2017.

Professor Y Engestrom. RWL10 Pre-Conference Workshop entitled “Activity-Theoretical Analyses of Change Laboratory Interventions”. RWL10 Conference presentation. December 2017.

Han, W.

Mr Wu Han. Coordinator Diversity and secretary of the steering group diversity in 2006. He was one of the initiators of the Summer course for first generation students, that was organized by the UI from 2010-2014. Furthermore, he initiated and was responsible for the study trip to Israel and the Palestinian territories for five years.

Dr Heyd-Metzuyanim, E and Professor Tabach, M.

In September 2017, they visited the Numeracy Chair project to work with Professor Giwenn on the ESM and ZDM issues and co-presented a lecture to the B. Ed undergraduates on creativity in mathematics and co-presented a methodological workshop with Professor Tabach for the project research team.

Holmberg, J.


Professor J Holmberg. Challenge Lab Master Class to PhD and Masters Students in the Education Department, on 4 December. RWL10 Conference presentation. December 2017.

Professor J orgensen, R.

Professor J orgensen visited the Numeracy Research project in October 2017 to do data gathering on the family math story time programme that was run with two partner schools in Grahamstown. In 2018 this research will be jointly analysed and papers written and repeated in one school in the Australian context.

Koida, R.


Lekis, D.


Linneweber-Lammerskitten, H.


Loiwbane, P.

Professor P Loiwbane. Recently Retired Director of the Centre for Researching Education and Labour, University of the Witwatersrand, South Africa. RWL10 Opening Address entitled “Opening Address: The story of the relationship between work and learning in South Africa”. December 2017.

Ludwig, M.

Professor M Ludwig. Goethe University, Frankfurt, Germany. To engage with SARChI Mathematics Education Chair on his work with his MyCityMaths project. A collaboration is being set up with his University, which incorporates our visualization research. Teaching on a BEd Mathematics Education course. July 2017.

Kamsteeg, F.

Professor Frans Kamsteeg: Associate Professor in Organizational Anthropology at Vrije Universiteit, Amsterdam. His research focuses on sense making and cultural change in (high) education, with a special focus on transformation and diversity issues in South African academia. As an engaged scholar and ethnographer he has a strong interest in methodological reflexivity.

Park, J.

Dr J Park. South African environmentalist and founder of Food & Trees project. Trip to Israel and the Palestinian territories for five years.

Rose, D.

Dr. D. Rose, is the Director of Reading to Learn, an international literacy program that trains teachers across school and university sectors, in Australia, Africa, Asia and western Europe. He is an Honorary Associate of the Department of Linguistics, and has been an Associate of the Faculty of Education and Social Work, which he joined as a U2000 Research Fellow in 2001, and a Principal Research Fellow with the Koori Centre at the University of Sydney.

Sabelis, I.

Professor Ida Sabelis: Associate Professor Vrije Universiteit Amsterdam, Editor in Chief for the journal Gender, Work and Organization (Wiley). Her research focuses on diversity and issues of time / temporality, which leads to an interest in sustainability of work and of human-animal relations. She has an interest in critical methods of the social sciences to obtain alternative perspectives on what we take for granted.

Sannino, A.

Professor A. Sannino. Centre for research on activity, development and learning (CRADEL), University of Helsinki, Helsinki, Finland. Lecture and conference. December 2017.

Professor A. Sannino. RWL10 Pre-Conference Workshop entitled "Activity-Theoretical Analyses of Change Laboratory Interventions". RWL10 Keynote Speaker entitled "Keynote 1: The work and learning of an enacted utopia: The struggle to eradicate homelessness". December 2017.

Shouho, M.

Professor M Shouho, Professor of Home Economics, Fukuyama City University, Japan. Critical Realism, Education and the Social Sciences Research School, a programme offered by the SARChI Chair in Global Change Social Learning Systems & the Centre for Postgraduate Studies at Rhodes University, in association with the International Centre for Critical Realism, Education and the Social Sciences Research School, a programme offered by the SARChI Chair in Global Change Social Learning Systems & the Centre for Postgraduate Studies at Rhodes University, in association with the International Centre for Critical Realism, Institute of Education, London University. March 2017.

Standing, G.


Professor G Standing. RWL10 Keynote Speaker entitled "Keynote 2: The growing precariat under rentier capitalism". December 2017.

Sung, J.


Professor J Sung. RWL10 Pre-Conference site excursion lead. RWL10 Keynote Speaker entitled "Keynote 3: Skills policy, business model and job quality for inclusive society". December 2017.

Takeshiba, H.


Ueno, M.


Valenzuela, A.

Professor Abel Valenzuela: Professor of Urban Planning and Chicano Studies and Director of UCLA’s Institute for Research on Labor and Employment. He has authored numerous research articles, books, and reports on immigrant settlement, work, and urban poverty. His research on day labor and immigrant labor markets have helped frame national public and policy narratives on immigrant and low wage workers.

Webster, E.

Professor E. Webster. Society, work and development Institute, University of Witswatersrand, Johannesburg, South Africa. Lecture and conference. December 2017.

Professor E. Webster. RWL10 Keynote Speaker entitled "Keynote 4: The Future of work: its implications for the world of learning". December 2017.

Welsh, H.

Professor Harry Welsh: Associate Professor Vrije Universiteit Amsterdam, Publication Manager African Study Centre Leiden and Extra Ordinary Professor at University of the Western Cape. His research focuses on diversity and transformation in higher education and on animal-human studies in the context of nature conservation, both in South Africa.

International Visits

Chikwa, C.

Chikwa, C. An exploration of how consistently and precisely mathematics teachers code-switch in Multilingual classrooms. Presentation made to teaching staff and research students at Department of Mathematics Education, Goethe University, Frankfurt, Germany, November 2017.

Chikwa, C. Education in Southern Africa: The Case of South Africa, Zimbabwe and Namibia. Presentations made to students at Department of Mathematics Education, Goethe University, Frankfurt, Germany. December 2017.

Lotz-Sisitka, H.B.

Lotz-Sisitka, H.B. Aarhus University, Denmark. 15-17 February 2017. Presentations on collective learning and agency formation in times of climate change.

Lotz-Sisitka, H.B. Umea University, Sweden. 20-24 February 2017. Participation in international seminar week and PhD research school on ‘Social injustice through Education - Can research make a difference?’


Mgwawu, E.M.


Schaffer, M.

Schaffer, M. Goethe University, Frankfurt, Germany. Presenting workshops on Visualisation. 5 - 14 March 2017.

Other Publications

Burt, J. and Lotz-Sisitka, H.


Burt, J. and Price, L.


Mgwawu, E.M.

Mgwawu, E.M. In South Africa, what are we supposed to do away with when we decolonise the curriculum? OpenDemocracy free thinking for the world. Wednesday, 1 March 2017.


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


Lotto-Silika, H.


Lotto-Silika, H. Sustainability Starts with Teachers. Opening Paper and Lead Presenter: The United Nations Educational, Scientific and

Loto-Siilikha, H., Mukute, M., Chikunda, C., Pesanayi, T. and Engestrom, Y.


Loto-Siilikha, H., Pesanayi, T. and Chikunda, C.


Mandikonzza, C. and Loto-Siilikha, H.


Masilela, M.P. and Olivit, L.L.


Masuku Van Damme, S.


Matwane, L.M.


McCarr, D.K.


Mgwashu, E.M.


Mukute, M.


Mukute, M. and Loto-Siilikha, H.


Mukute, M., Loto-Siilikha, H. and Pesanayi, T.


Nghiphilulelo, S.N. and Schafer, M.


Nkhalale, L.J.


Olivit, L.L.


Olivit, L.L. and Ward-Smith, C.F.

Olivit, L.L. and Ward-Smith, C.F. A community psychology


Vailahö, P. Vailahö, P. Unsettling how we think knowledge is built. Part of panel titled: Unsettling the space: Uncertainty as a decolonising method. SAERA. Boardwalk Hotel, Port Elizabeth, Johannesburg. October 2017.

Vailahö, P. Citizen Sciences as Reflexive Social Movements. 9th World Environmental Education Congress. Vancouver, Canada. September 2017.


Abroad, Professor Simango presented his works at the University of Gothenburg in Sweden, and Associate Professor Hunt presented her work at the University of Birmingham in the United Kingdom.

Locally Professor Simango presented his works at the Conference of the Language Associations of Southern Africa held at Rhodes University and at the Southern African Microlinguistics Workshop held at Stellenbosch University; whilst Associate Professor Hunt, presented her work at the Language in the Media Conference held at the University of the Western Cape.

Professor Adendorff continued serving 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 continued to serve as members of the Academy of Science of South Africa.

Associate Professor de Vos and Associate Professor Hunt continued to serve as president for, respectively, the Linguistic Society of Southern Africa and the Southern African Applied Linguistics Association.

Professor Simango continued to serve on the editorial board of the journal Southern African Linguistics and Applied Language Studies, and was elected as a non-executive director for the Molteno Institute for Language and Literacy.

Postgraduates / Graduations

One (1) student graduated with a PhD with a thesis focusing on a comparative analysis of ellipsis in isiXhosa and Mandarin. She has since assumed the position of Director of African Languages at Beijing Foreign Studies University.

Two (2) other students graduated with MA degrees with theses focusing on APPRAISAL theory and South African Sign Language. A number of Postgraduate students presented their works at the annual mini-conference held at the beginning of September 2017.

Distinguished Visitors / International Visits

The department hosted a number of African Humanities Program Fellows from universities in Nigeria, Ghana, and
Uganda at different points in the year. The scholars, who spent between six (6) and eight (8) weeks in the department, presented their works at research seminars and interacted with staff and Postgraduate students.

Dr Eva-Marie Strom, a Postdoctoral Research Fellow, returned to Sweden after two-and-half years in the department.

Significant Research Aligned Events

The second Transformation in Linguistics Summit, convened by Associate Professor De Vos and Associate Professor Hunt, which was held at the University of the Free State, offered linguists and language practitioners from universities around the country the opportunity to reflect on new directions in research in linguistics and access to the discipline in South Africa.

Professor Silvester Ron Simango, Head of Department

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

Hunt, S.


Simango, S.R.


Peer-reviewed Proceedings

Bennett, W.G.
This is clear testimony of the environmental footprint of our research both locally and internationally. The research outputs cover diverse areas and were produced by authors from diverse institutes and departments. Again, this is an important indicator of our transdisciplinary research that addresses complex environmental challenges.

Figure 1. Department of Environmental Science research outputs during the last three years (2015–2017).

There was a decrease in the numbers of our current MSc and PhD Postgraduate students. The numbers of MSc and PhD students decreased by 24% and 45%, respectively compared to the previous year. There will be a need to put in place a strategy to increase the number of Postgraduate students to at least match those of the previous years (Figure 2).

Postgraduates/Graduations
The numbers of Postgraduate students who have graduated have remained generally similar during the last three (3) years (Figure 2). In 2017 we graduated twenty-one (21) Honours, four (4) Masters and two (2) PhD students.

Distinguished Visitors / International Visits
In 2017 we had twenty-one (21) international visits by both staff and senior Postgraduate students. Countries visited included Sweden, Mexico, Scotland, Portugal, India, Tanzania and Uganda. This is evidence of our global outreach in terms of disseminating our research findings and collaboration.

Significant Research Aligned Events
In October we had our annual research forum with Professor Vincent Kakembo from Nelson Mandela University as the guest speaker. The Dean of Science also attended the forum. His presence was an excellent motivation to the staff.
PUBLICATIONS

Books/Chapters/Monographs


Other Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


Dr Deepa Pullanikkatil, Postdoctoral Research Fellow, with Kenyan Sculptor Morris Foit at his residence in Nairobi. Photo: Department of Environmental Science.


Sholtos-Dooglass, C.C., Shackleton, C.M. and Ruwanza, S.

Spieres, M. and Shackleton, S.

Tata Ngome, P.I. and Shackleton, C.M.

Thondhlna, G. and Cundill, G.

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

Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

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Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

Cockburn, J. and Shackleton, S.

Gambiza, J.

Achieving land degradation neutrality: The role of restoration.

Garekae, H.

Household and stakeholder perspectives on forest management regimes in Botswana: Implications for sustainable forest management.

Gusha, B. and Palmer, A.R.

Performance of livestock production in the north-Eastern Cape communal areas: A stochastic frontier analysis.


Cockburn, J., Cundill, G. and Shackleton, S.

Cockburn, J., Cundill, G., Shackleton, S. and Rouget, M. A learning jar and two maps: Mobilising local knowledge for collaborative stewardship in multifunctional landscapes across South Africa.


De Vos, A.


De Vos, A., Reid, J.L., Nelson, J.L. and Nelson, J.D.G.


Deponselle, K.N. and Rouillard, T.K.


Falayi, M., Shackleton, S. and Cundill, G.

Falayi, M., Shackleton, S. and Cundill, G. A longitudinal study of Jessica Cockburn partnered with a local organisation (Living Lands) for her PhD research in the Langkloof. This is a team photo of the Living Lands Langkloof team taken at the top of Formosa Peak - the highest mountain in the Langkloof mountain range.

PHOTO: Department of Environmental Science.

RHODES UNIVERSITY RESEARCH REPORT 2017

DEPARTMENTAL INDEX
transformation practices


The Fine Art Department has enjoyed a productive year, engaging with a wide range of research endeavours and producing significant outputs in the form of publications, research papers presented at conferences and symposia, and various practice-as-research outputs such as exhibitions, performances, creative writing and artists’ talks. Members of the department have been involved in exhibition curation, arts activism, interviews, arts residencies and workshops.

Our Postgraduates were active in publishing their research, with Mr Mulenga publishing a book chapter and Mr Sikhumbuzo Makandula publishing an interview in the peer reviewed journal, African Arts. Mr Mulenga, Mr Makandula, Mr Tshilumba Jean-Sylvain, Ms Phliswa Lila, and Mr Stary Mwaba presented their research at various conferences and symposiums, in South Africa, Ghana and Zimbabwe.

In addition, our Postgraduates participated in numerous exhibitions as contributing artists, performers and/or curators, which took place at venues across South Africa, the USA, Zimbabwe, Brazil and Germany. Ms Lila participated in four (4) exhibitions, and was a finalist in the Sasol New Signatures competition. Ms Gladys Kalichini participated in two (2) exhibitions, including the Africa Centre Artists in Residence programme in Miami. Mr Makandula participated in seven (7) exhibitions, including one (1) in Zimbabwe and three (3) in the USA. Mr Luthando Mama participated in four (4) exhibitions, including a contemporary art festival in Brazil, and Mr Mwaba participated in an exhibition at the Museum of Contemporary Art in Liepzig, Germany.

In 2017, the Department graduated three (3) MFA students, Ms Kathleen Sawyer, Ms Charis Futcher, and Mr Callan Grecia, all of whom presented solo exhibitions as part of their practice-as-research submissions. We also graduated two (2) MA students, Ms Lara Littleford, and Mr Andrew Mulenga; and one (1) PhD student, Dr Rachel Baasch.

The Fine Art Department has enjoyed a productive year, engaging with a wide range of research endeavours and producing significant outputs in the form of publications, research papers presented at conferences and symposia, and various practice-as-research outputs such as exhibitions, performances, creative writing and artists’ talks. Members of the department have been involved in exhibition curation, arts activism, interviews, arts residencies and workshops.

The Department has hosted various research-related events, including the Six Mountains on her Back: (Re)thinking African Feminisms Colloquium co-facilitated by Dr Sharlene Khan; The Making of a Book talks and workshop organised by Ms Christine Dixie and Mr Brian Garman (Journalism); and the ongoing Lucid Lunchbox programme of talks and events run by the Arts of Africa and Global Souths research programme, under Professor Ruth Simbao. Particularly noteworthy has been the significant research contribution made by our Postgraduate students (many of whom presented papers or exhibited their practice-as-research internationally), and by the Postdoctoral Research Fellows and Research Associates affiliated to the Department through the SARChI Chair Programme, Arts of Africa and Global Souths.

Postgraduates / Graduations

In 2017, the Department graduated three (3) MFA students, Ms Kathleen Sawyer, Ms Charis Futcher, and Mr Callan Grecia, all of whom presented solo exhibitions as part of their practice-as-research submissions. We also graduated two (2) MA students, Ms Lara Littleford, and Mr Andrew Mulenga; and one (1) PhD student, Dr Rachel Baasch.
Distinguished Visitors / International Visits

Several staff members undertook international visits in 2017. Dr Khan was invited to Paris, France for the Cité internationale des arts residency. Professor Dominic Thorburn visited London, UK, for a collaboration with artist Tammy Mackay. Professor Maureen de Jager undertook a research trip to Documenta 14 in Kassel, Germany; and Professor Simbao visited Kampala, Uganda, and Kumasi, Ghana, to research contemporary art in those regions.

At the same time, the Fine Art Department enjoyed visits by, and productive research engagements with, various Postdoctoral Research Fellows and Research Associates, who contributed richly to our research portfolio. Many of these contributions are consolidated in the first issue of the UCLA/MIT Press journal, African Arts, under its new editorial consortium partnership with Rhodes University (the Rhodes University Editorial Board is the only Africa-based partner and is headed by Professor Simbao).

In addition to the article by SARChI Postgraduate Mr Makandula, this edition included articles by 2016 Rhodes Writing Fellow Ms Nomvuyo Horwitz, and Senior Research Associates Dr Angelo Kakande and Dr Amanda Tumusiime, who are both at Makerere University.

The journal issue also included a dialogue with fifteen (15) authors, including Professor Simbao and Dr Tumusiime, as well as SARChI Postdoctoral Research Fellow, Dr Eyitayo Tolulope Ijisakin.

Significant Research Aligned Events

In addition to the research contributions of our Postgraduates and Visitors, and the notable research initiatives mentioned above, individual staff members contributed to the Department’s research portfolio in the following ways:

Professor Maureen de Jager published an article in the peer-reviewed journal, Image and Text; and presented papers at two (2) conferences: the THEOREM symposium in Cambridge, UK, and Booknesses: Taking Stock of the Book Arts in South Africa in J ohannesburg. Her practice-as-research outputs included a performance at the Institute of Contemporary Art in London; and participation in three group exhibitions, in Cambridge and in J ohannesburg.

Ms Christine Diote presented her exhibition, To Be King, in Venice, Italy and at the London International Film Festival; and also participated in a group exhibition in London. She was invited to deliver a lecture at the University of J ohannesburg; and presented a paper on her research at The International Conference of the Image in San Servolo, Italy. Together with J ames Sey, she published a peer-reviewed article in Thesis eleven.

Dr Sharlene Khan presented her research at numerous conferences, including at the Six Mountains on her Back: (Re)thinking African Feminisms Colloquium (Grahamstown), the East African Literary and Cultural Studies Conference (Dar es Salaam, Tanzania), and the Translate Contemporary Art roundtable (Paris). Her publications include creative writing, and an artist’s monograph, I Make Art. In addition, she has participated in four group exhibitions, including the Thessaloniki Biennale in Greece.

Ms Mbali Khoza presented a paper at the 17th Triennial Arts Council of the African Studies Association (ACASA) Symposium on African Art in Accra, Ghana. She also curated two (2) projects at the Rhodes University Photography Building, Grahamstown.

Professor Ruth Simbao organised and ran the ‘Art POWA Publishing Workshop’ in collaboration with Dr Tumusiime at Makerere University in Kampala, Uganda. Her publications include two (2) peer-reviewed articles in African Arts (one of them co-authored). She has also delivered numerous conference presentations in South Africa, Z imbabwe and Ghana, including an invited plenary talk at the International Conference of African Cultures in Harare; and a keynote address at the Referencing China and East Asia in Southern Africa Visual Culture Symposium in J ohannesburg.

Professor Dominic Thorburn participated in, and curated, the Distinct Six Commemorative Print Portfolio Exhibition in Grahamstown. He also participated in the group exhibitions Pulled in Grahamstown, and Circumference and Radius in Havana, Cuba.

Ms Rat Western published a book chapter in Risk, Participation and Performance Practice: Critical Vulnerabilities in a Precarious World and participated in two (2) group exhibitions - at the National Arts Festival (Grahamstown) and the ICA Live Arts Festival (Cape Town).
**Books/Chapters/Monographs**


**Concerts, Exhibitions, Performances, Workshops, Events**


Ijsakin, E.T. Ijsakin, E.T. Participant. Unveiling the treasures of Print making in
Department of Fine Art


Kakande, A. Kakande, A. Exhibiting artist. No Medals for Capriciousness. Artwork exhibited with a write-up titled “I say: No Medals for Capriciousness” in Different but one 21 Staff Exhibition for academic staff at Margaret Trevis School of Industrial and Fine Art, Institute of Heritage Conservation and Restoration, Makerere University, Kampala. Uganda. 15 February - 15 March 2017.


Creative Writing


Distinguished Visitors


International Visits


Peer Reviewed Subsidy-Earning Journal Research Publications


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


Kokoza, M.


Not only is our research academically diverse, but spatially extensive, with projects extending from the Nordic Arctic to Antarctica.

An aspect that the Department is extremely proud of is our training of Postgraduate students and exposing them to the international research community. All those who have been involved in such interactions have shown that Rhodes University, and the Department of Geography, are conducting research that is internationally relevant and of an international standard.

Postgraduates / Graduations

At the April Graduation ceremonies, Calle Borg and Anthea Copteros were awarded their PhD’s. Gabrielle Ayres, Amy Barclay, Danuta Hodgson, Nicolas Huchermeyer, Tennille Jacobs, Juliette Lagesse, Chabala Mbao, Breanne Robb (Cum Laude), and Philippa Schegel graduated with their MSc Degrees.

Sindile Sibiya, and Jarred Pauls, Honours students, were awarded best speaker prizes the South Africa Students Geography Conference.

Distinguished Visitors / International Visits

Visiting Professor Ian Foster (Northampton University, Visiting Professor) linked up with Emeritus Professor Kate Rowntree to undertake field work in the Karoo.

Visiting Professor Kevin Hall visited the Department and presented lectures to undergraduate and Postgraduate students and continued his collaborations with Professor Ian Meiklejohn.

Visiting Professor Thembele Kepe (Toronto University) continued his association with the Department of Geography, visiting us in May and June and then again in August. His research in Pondoland and in the Grahamstown area includes the supervision of three (3) PhD’s, two (2) of whom are staff members. In addition, he assists with the lecturing of undergraduates.

Significant Research Aligned Events

Ms. Gillian McGregor has been involved in mapping and measuring the wild honeybush (Cyclopia intermedia) resource and is currently busy developing guidelines with the Western Cape government and on the utilisation of the resource. The crop grows in the mountainous regions of the Langkloof in the Eastern Cape, as well as in the mountains of Western Cape. Ms McGregor’s team includes student researchers, who engage with landowners and harvesters to record existing knowledge and understanding of use of the wild resource.

Researchers from the Geography Department are playing a key role in the multidisciplinary/multi-institutional Ntabelanga and Laleni Ecological Infrastructure Project (NLIEP) funded by the Department of Environmental Affairs (DEA). Dr Bennie van der Waal chairs the sediment community of practice (COP) which advises on erosion and sediment related issues. Research on river sediment loads and sources is being carried out by Ms Laura Barnatynse and Ms Namso Nyanamela.

Emeritus Professor Kate Rowntree leads a team that is addressing community engagement in catchment restoration through a Water Research Commission (WRC) project.
The Landscape Processes in Antarctic Ecosystems group had Professor Ian Meiklejohn and MSc students Jenna Knox, Tebogo Masebe, and Nicola Wilmot spending the 2016/17 Austral Summer in Antarctica to undertake the fieldwork for their research. Professor Ian Meiklejohn was appointed as Chief Scientist for the summer field season 2016/2017 summer season on the Continent.

Christel Hansen (now a lecturer at the University of Pretoria), Jenna Knox, Tebogo Masebe, and Nicola Wilmot together with Professor Ian Meiklejohn attended and presented papers at the First International Antarctic Workshop on Permafrost at Insibria University, Varese, Italy.

As usual, a large contingent from the Department of Geography attended the Annual Geography Students Conference, at Mpumalanga University in Mbombela.

PUBLICATIONS

Books/Chapters/Monographs


Other Publications


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications

Bannatyne, L.J., Rowntree, K.M., Van Der Waal, B. and Nyamela, N.


Kepe, T.

Mekkielope, I.

Miller, J.K. and Rowntree, K.M.

Pulley, S. and Foster, I.D.L.

Rowntree, K. and Foster, I.D.L.

Van Der Waal, B.

Van Der Waal, B.

Van Der Waal, B.

Professor Ian Meiklejohn, together with Rhodes University Microbiologist, Dr Gwynneth Matcher flew to Troll Station, Antarctica in December 2017 to undertake research in the Austral Summer field season.

Masters students Nicola Wilmot, Jenna Knox and Tebogo Masebe working in Western Dronning Maud Land, Antarctica (January 2017).

Photo: Department of Geography.
Research in the Department of Geology continued growing with the staff complement reaching stability. Student numbers continue to grow and reach record levels, with a large Honours intake for 2017.

Research fields in the Department are varied and include, amongst others: tectono-metamorphic evolution, Rare Earth Element and related critical metal deposits, Petrogenesis and crustal evolution, Sedimentology and stratigraphic sequences in southern Africa and globally, Ground Water Resources, Petrology of Karoo basalts, mafic intrusions and associated high grade metamorphic rocks, ancient biogeochemistry, oceanic sedimentary ore deposits, palaeoceanography, analytical methods, and palaeobiology.

Postgraduates / Graduations
At the 2017 graduation ceremony, the Department graduated a PhD, five (5) research MSc students, two (2) MSc graduates from the Department’s Exploration Geology MSc programme and two (2) from the coursework MSc in Economic Geology.

In addition, the Department graduated ten (10) Honours students and forty-eight (48) students who successfully read for their bachelor’s degrees.

Distinguished Visitors / International Visits
Ellam, R.M., Professor RM Ellam. Scottish Universities Environmental Research Center (SUERC), East Kilbride, Scotland. To take up a Hugh Kelly Visiting Fellowship in the Geology Department (including teaching, collaboration and public talks). September 2017.


Tsikos, H., Tsikos, H. University of Tasmania, Hobart, Australia. Presented workshop on Fe and Mn ore deposits for the SEG student chapter at the Department of Earth Science, University of Tasmania. 8 - 11 june 2017.


Significant Research Aligned Events
The ground-breaking palaeontological work of one of the Department of Geology’s Research Associates, Dr Rob Gess continued with papers in the high impact journals Nature and PLoS ONE. Most of these published findings are for work done locally around Grahamstown, highlighting the importance of the region’s Geology in understanding global questions.
Confidently identifying oceanic crust in the rock record older than 2.5 billion-years-ago, in a period of Earth history known as the Archaean, has been a major challenge for geologists. A paper by Grosch and Slama (2017) considered this unresolved question by using an innovative approach, as well as an integrated field, geochemical and state-of-the-art geochronological techniques. They conducted a detailed study of a meta-volcanic and volcano-sedimentary rocks of the Kromberg volcanic sequence in the Barberton Greenstone Belt, of Mpumalanga Province of South Africa.

U-Pb dating of detrital zircons by Laser-Ablation Inductively-Coupled Plasma Mass Spectrometry (LA-ICPMS), indicated a gabbroic oceanic source area for the ancient seafloor sediments at the top of the volcanic sequence, very different to the U-Pb zircon age distribution and provenance area of the underlying Noisy Formation conglomerates. Trace element geochemistry of the mafic volcanic rocks in the Kromberg sequence where compared globally to other greenstone belt rocks and indicated a deep, primitive mantle signature. Evidence presented in support of the Kromberg representing oceanic crust, implies that modern-style oceanic spreading centers, where oceanic crust is created was developed by 3.33 billion-years-ago.

The Kromberg sequence of mafic-ultramafic rocks most likely formed at a mid-ocean ridge system in small-scale oceanic basin. Subsequently, a fragmented slice of Kromberg oceanic crust was accreted horizontally on top of the Noisy Formation sedimentary sequence. The paper of Grosch and Slama (2017) was published in GEOLOGY, the top ranked international journal for the field of Geology. The work was considered ground-breaking by international reviewers because it provided robust field and petrological evidence for crustal processes on the early Earth as far back as 3.33 billion-years ago that may have been similar to modern-style plate tectonics. It also means that South Africa is home to the oldest, best preserved fragment of oceanic crust on Earth, that clearly requires further scientific investigation as it holds the key to understanding how the early Earth worked.

Distinguished Visitors
Ellam, R.M.
Professor RM Ellam. Scottish Universities Environmental Research Center (SUERC), East Kilbride, Scotland. To take up a Hugh Kelly Visiting Fellowship in the Geology Department (including teaching, collaboration and public talks). September 2017.

Grosch, E.G.

International Visits
Tsikos, H.
University of Tasmania, Hobart, Australia. Presented workshop on Fe and Mn ore deposits for the SEG student chapter at the Department of Earth Science, University of Tasmania. 8 - 11 June 2017.

Peer Reviewed Non-Subsidy-Earning Journal Research Publications
Mcloughlin, N.

Moore, A.

Rowntree, K.

Peer Reviewed Subsidy-Earning Journal Research Publications
Costin, G.


Costin, G. and Yao, Y.

Gess, R.W.
Grosch, E.G.
Grosch, E.G. and S'amba, J. (2017) Evidence for 3.3-billion-year-old oceanic crust in the Barberton greenstone belt, South Africa. Geology. 45 (8), 895-898.
Harmec, R.E.
Marsh, J.
Mcloughlin, N.
Prevec, S.A.
Scoon, R.N. and Costin, G.
Tsikos, H.

Peer-reviewed Proceedings
Kazemrouzi, A.

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Adeola, S. I.
Arunachellany, Y. and Prevec, S.A.
Böttner, S.H. and Moloto, T.
De Bruyn, J. A. and Prevec, S.A.
Gess, R.
Grosch, E.G.


Professor Gary Baines was awarded the Vice-Chancellor’s Book Award for his monograph South Africa’s ‘Border War’: Contested narratives and Conflicting Memories (Bloomsbury).

Postgraduates / Graduations
Twenty-nine (29) Postgraduate students were registered in the History Department in 2017. These included fifteen (15) PhDs, seven (7) MAs, and seven (7) Honours students.

As is evident from the record below, our Postgraduate students are encouraged to attend and present papers at conferences. Thus, Calvin Jordan presented a paper based on his MA research at the Southern African Historical Society’s 26th Biennial Conference at the University Witwatersrand in June 2017.

Three (3) PhDs were awarded at the 2017 graduation. These were:
- Eric Kelly for his thesis titled ‘A history of the Grahamstown Teachers’ Training College, 1894-1975’ supervised by Dr Alan Kirkaldy;
- Milner Snell for his thesis ‘The making of “loyals” and “rebels”: The 1880 Transkei rebellion and the subversion of the chiefdoms of East Griqualand, 1874-1914’ supervised by Professor Julie Wells;

At the same ceremony, six (6) Masters degrees in History were awarded. Of this bumper ‘crop’, two (2) were awarded distinctions. The six (6) were Jako Bezuidenhout, Sarah Bruchausen (with distinction), Mikaela Enskog (with distinction), Asa Mudzimu, Nichola Nyachega, and Ntombikhona Valela.

Distinguished Visitors / International Visits
Dr Nicole Ulrich presented papers on her current research on ‘workerism’ and colonial migration and travel at the Scottish universities of Glasgow and Edinburgh, respectively. Professor Gary Baines presented a paper on war veterans as tourists at workshops held in Munich, Germany and Hiroshima, Japan.

During 2017 all staff members remained actively engaged in research and publication. Highlights of the year included the publication of the first critical history of Rhodes University by Distinguished Professor Emeritus, Paul Maylam. The book, bearing the title Rhodes University, 1904-2016: An Intellectual, Political and Cultural History, was launched at a well-attended function at the Eden Grove Lecture Theatre on 28 September 2017.


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


The department has had a very successful year in the research sphere with a number of publications, which included student co-authors, and national and international collaborators. The number of subsidy earning publications is growing nicely and the department has now gained momentum in this regard.

**Postgraduates / Graduations**

We had a large cohort of students presenting at local conferences with Kayla McEwan (MSc candidate who presented her honours research work) winning the best paper award at the Cricket South Africa conference held in Cape Town.

Luke Goodenough (PhD candidate who was presenting his MSc work) also won the best student paper award at the 3rd African Symposium on Human Factors and Aviation Safety/13th Ergonomics Society of South Africa Conference/1st Ergo Africa Conference in Johannesburg.

Bennett Ryan, a PhD candidate, was awarded the Student Community Engagement Award for the immense work he has put into the Community Engagement work of the department.

**Distinguished Visitors / International Visits**

The department welcomed representatives from Cricket South Africa and the Gary Kirsten Academy and Foundation. Greg King, Strength and Conditioning coach for the men's Protea's side, and Russell Clark, the ladies' Protea's Strength and Conditioning Coach presented workshops to students and local schools. They then joined Ryan Cook and Ryan Van Niekerk from the Gary Kirsten Academy and Foundation, respectively, to discuss collaborative research work with Professor Christie's Cricket Research Group.

Andrew Todd continued his international work as a member of the International Ergonomics Association (IEA) committee. He traveled extensively around the world for conferences and meetings to promote Human Factors and Ergonomics.

**Significant Research Aligned Events**

Department staff were part of the organizing committees of two (2) national conferences, the Cricket South Africa conference and the Ergonomics Society of South Africa conference.
Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


Peer-reviewed Proceedings


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


Olagbegi, O.M., Adegoke, B.O. and Odole, A.C. Efficacy of combined versus open and closed kinetic chain exercises on selected physical performance indices and health-related quality of life of individuals with knee osteoarthritis. 4th International Conference on Clinical Trials. San Antonio, Texas, USA. September 2017.
Dr Amber-Robyn Childs is continuing her research on biology, ecology, physiology and movement behaviour of estuarine and coastal fishes, with implications for fisheries and climate change. Her research also focuses on identifying the causes and consequences of divergent migratory behaviour, habitat connectivity and identification of critical nursery habitats of these fishes at an individual, population and species level through applied and fundamental research.

Research from her and Professor Potts’ research lab (https://www.safisheriesecologyresearchlab.com/) also involves the biological and social aspects of recreational fisheries. She has recently expanded her research interests into examining behavioural plasticity of individuals through the African Coelacanth Ecosystem Programme (ACEP) funding call investigating fisheries-induced evolution on fish physiology.

Dr Childs recently received her National Research Foundation (NRF) Y-rating, after which she also managed to increase her research profile through publishing ten (10) manuscripts in 2017. Her research on recreational fisheries has initiated new research collaborations with Professor Andy Danylchuk (USA) and Dr Jake Browncombe (Canada). Her research was profiled through student and colleague presentations at the 4th International Conference on Fish Telemetry Australia, the 8th World Recreational Fisheries Conference in Canada, and our local South African Science Symposium (SAMSs) in South Africa.

Professor Horst Kaiser continued his research on abalone nutrition, larval rearing and reproduction in collaboration with the South African abalone industry. Other collaborations include research projects with Mtunzini Kob Farm in KwaZulu-Natal, and the University of the Western Cape on aspects of fish health management. We also welcome a new Postdoctoral Research Fellow at the DIFS, Dr Charles Teta, who is working with Professor Kaiser on setting up a laboratory to measure hormone levels in fish and abalone.
Dr Wilbert Kadye, involved in freshwater ichthyology, focussed on three ecoregions; the Amatola-Winterberg, the Eastern Zimbabwe Highlands and the Zambezi River freshwater ecoregions. For the Amatola-Winterberg ecoregion, the first research focussed on the trophic ecology of chubbyhead barb *Enteromius anoplus* as part of a MSc project that was completed in December 2017.

The second research focussed on the general ecology and conservation of the endangered Eastern Cape rocky Sandelia bainsii as part of a MSc project that was initiated in 2017. For the Eastern Zimbabwe Highlands ecoregion, the research focus was on systematics and taxonomy, and general ecology of Afromontane fishes. Research on the general ecology of fishes was part of an Honours project in 2017, which will be published in 2018. For the Zambezi River ecoregion, the research focus was on the taxonomic revision of a mormyrid fish *Hippopotamyrus ansogii*, which constitute a species complex.

Dr Cliff Jones continued his research projects on integrating aquaculture with other industries, with a focus on water reuse and nutrient recycling. Here he worked with Dr Tom Shipton, researchers from EBRU and collaborating with Professor Mark Laing (UKZN) and South African Breweries. He continued his work in developing abalone feeds with Professor Peter Britz and abalone farm development technologies with Professor Horst Kaiser, working closely with industry partners Marifeed Pty Ltd and HIK Abalone Pty Ltd and Aquunion Pty Ltd. He also continued his aquaculture projects that formed part of The Department of Science and Technology’s (DST) Bio-Innovation Solutions in Support of a Local Sustainable Aquaculture Program, and this also involved developing a research concept note for the DST.

Professor Warren Potts headed his community engagement research program aimed at improving the behaviour of recreational fishers. The group was the first to demonstrate that angler catch and release behaviour can be improved using a diverse array of interventions. He was on the international scientific committee for the 7th World Recreational Fisheries Conference in Canada and is editing the proceedings of the conference, which will appear in “Fisheries Research”.

Professor Potts continued with his coastal fish biogeography research in collaboration with the University of Aberystwyth, and further developed his climate change research in the southern Angola and Agulhas Bank environmental hotspots by combining these field observations with laboratory research on the physiology of fishes, with emphasis on the impacts of changing temperature and pH on their growth, development and survival.

Professor Potts, Dr Childs, Dr J ames (SAIAB) and Dr Bernard (SAIAB) were successful on their application in response to a call for proposals by the African Coelacanth Ecosystem Program. This project aims to examine the impact of exploitation on the physiology of fishes and on their resilience to the impacts of climate change.

Professor Potts also grew his Postgraduate school considerably and is currently supervising seventeen (17) Postgraduate students.

Professor Sauer was involved in a number of international and regional research projects involved in climate change research. The formation of a marine hotspots network of scientists working in regions where oceans are warming the fastest has resulted in numerous international collaborations; www.marinehotspots.org. He participated and led a project for the Benguela Current Commission on ecological risk assessments in South Africa, Namibia and Angola, and led a two-week course in Ocean Governance, in Mauritius, involving delegates from eleven (11) African Nations. He was a guest editor for a special edition of an international journal, published in 2017.

Professor Aswani, associated with the DIFS and the Department of Anthropology, and tasked with establishing our expertise in human ecology, is currently involved in a number of national and international research projects associated with the DIFS.

Professor Aswani, along with Professor Sauer, is a member of Team South Africa and Team Western Indian Ocean in the Global Learning for Local Solutions: Reducing Vulnerability of Marine-dependent Coastal Communities (GULLS) Belmont Forum funded program. This project is significant because is contributing to understand coastal vulnerability of African communities near “hotspots,” or ocean regions experiencing fast warming and which are facing heightened social tensions as a result of these changes.

He is also the Principal Investigator (PI) for an NRF funded project entitled “The human dimension of compliance in South Africa’s marine recreational fisheries,” and is a co-PI in the
UK funded SOLSTICE four-year R144-million project that focuses on ocean sciences and the collapse of two key fisheries in South African and East African waters that support more than sixty (60) million people.

Professor Cochrane’s research in 2017 continued to include investigations into fisheries management and climate change and fisheries at global level and in South and southern Africa. He undertook a review of the benefits and challenges in use of eco-labeling as an incentive to encourage responsible fisheries management at the global scale, which was published as a chapter in the book on Advances in Fisheries Bioeconomics: Theory and Policy.

At the national scale he continues to be engaged in working with and, at times, challenging the national fisheries management agency, the Fisheries Branch, Department of Agriculture, Forestry and Fisheries, in efforts to improve the currently tenuous management system in South Africa. Aspects of this work should be published in 2018. Global work on climate change has included contributing to a chapter in a recently published book on the impacts of climate change on fisheries and aquaculture, while at the national and regional scales his research focused on working with Dr Ortega Cisneros on application of the end-to-end Abacus-v2 model to investigate likely impacts of climate change on fisheries in the southern Benguela ecosystem.

Postgraduates / Graduations

The DIFS continues to play a significant role in Postgraduate training with Honours, Masters and PhD students graduating in 2017.

Distinguished Visitors / International Visits

On the invitation of Professor Sauer, Professor Gretta Pecl, the Director for the Centre for Marine Socioecology at the Institute for Marine and Antarctic Studies in Tasmania, visited the DIFS for two (2) months to participate in research projects, run workshops and attend research seminars.

Significant Research Aligned Events

A documentary on the Abalone Ranching project was aired on SABC’s 50:50 programme on World Environment Day.

Professor Britz is the Chair of the Aquaculture Association of Southern Africa (AASA) and served as programme co-chair for the hosting of the World Aquaculture Society Symposium in Cape Town; the first time the event was held in Africa. Dr Childs received her NRF Y-rating. Her research was profiled through student and colleague presentations at the 4th International Conference on Fish Telemetry Australia, the 8th World Recreational Fisheries Conference in Canada, and our local South African Science Symposium (SAMSS) in South Africa.

Professor Potts served on the international scientific committee for the 7th World Recreational Fisheries Conference in Canada and is editing the proceedings of the conference, which will appear in “Fisheries Research”.

Professor Sauer presented a two (2) week course in Ocean Governance in Mauritius, with representation from 11 African countries.

Dr Cliff Jones represented the DIFS and Rhodes University at the following international events:

- Teaching, learning and research information sharing meeting with academics from Austria, Kenya, Malawi and Uganda, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria. 30 January 2017 to 3 February 2017.
- Aquaculture curriculum development workshop with colleagues from Kenya, Malawi and Uganda, which was held at Makerere University, Uganda, 28 February 2017 to 3 March 2017.
- Hosted a PhD course-work curriculum writing workshop in Grahamstown, with curriculum developers from Malawi: Professor Jeremiah Kang’ombe (Lilongwe University of Agriculture and Natural Resources, Malawi) and Dr John Kazembe (Lilongwe University of Agriculture and Natural Resources, Malawi) March 2017.
- Hosted an Aquaculture curriculum and teaching session at International Conferences (World Aquaculture Conference, Cape Town, July 2017), and invited and covered the travel costs for the international speakers, from Europe and various Africa countries.
- Participated in a Teaching and Learning workshop as part of the European Commission’s Horizon 2020 Program, Brussels, Belgium, 14-15 November 2017.

Booth, A.J.
Hewitt, A.M.,
Kock, A.A.,

Bova, C.S.,
Halse, S.J., and Potts, W.M.
Bova, C.S.,
Halse, S.J.,
Aswani, S.
and
Potts, W.M.

Butler, E.C.,
Childs, A.R.,
Parkinson, M.C. and
Potts, W.M.

Childs, A.R.
Nodo, P.,
James, N.C.,
Childs, A.R.
and Nakin, M.D.V.

Sirot, C.,
Ferraton, F.,
Panfilj, J.
Childs, A.R.


Cochrane, K.L.


Cockcroft, A.C.


Dames, M.H. and Childs, A.R.


Elston, C.


Gennari, E.


Götz, A.


Grant, G.N.


Grant, G.N., Childs, A.R.


Huchzermeier, K.D.A.


Huchzermeier, K.D.A. and Kaiser, H.


Lemahieu, A.


Midgley, C.


Murray, T. and Childs, A.R.


Neil, A. and Britz, P.J.


RHODES UNIVERSITY RESEARCH REPORT 2017

DEPARTMENTAL INDEX


Ortega Cisneros, K.

Ortega Cisneros, K. and Cochrane, K.L.

Potts, W.M.


Robert, M.J.

Shaw, P.W.


Soekoe, M.

Taylor, G.C.

Taylor, G.C. and Peil, R.A.


Tea, C.

Towner, A.V. and Booth, A.J.

Van Der Walt, K.A.


Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Kaiser, H.
In addition to producing research outputs, staff in the Department of Information Systems contribute to their discipline as journal editors and reviewers, conference reviewers and panel members, and external examiners of theses for other academic institutions.

**Postgraduates / Graduations**

Postgraduate numbers in the Department include six (6) PhD candidates, sixteen (16) Masters candidates, and a class of thirty-five (35) Honours students. In April 2017, we celebrated the graduation of two (2) PhD students.

**Distinguished Visitors / International Visits**

Distinguished Visitors to the Department include Dr Adele Botha and Professor Marlien Herselman from the Meraka Institute who participated in research workshops.

Dr Hannah Thinyane from the United Nations University (Computing and Society) and Associate Professor Caroline Khene continued to collaborate as co-directors of the digital citizen engagement initiative called MobiSAM (Mobile Social Accountability Monitoring) in Makana Municipality. Their collaboration has resulted in being invited in November 2017, to implement a similar initiative for the SAfAIDS NGO over three (3) years, on monitoring access to sexual reproductive health services by adolescent youth in six (6) SADC countries.

Professor Sue Conger from the Satish and Yasmin Gupta College of Business at the University of Dallas has also continued to collaborate with researchers in the department around IT in developing countries. She collaborated with Mr Clement Simuja and Professor Kirstin Krauss.

Ms Brenda Mallinson, a Research Associate of the Department, continues to make a valuable contribution to the research efforts, with a number of publications in the field of eLearning.

The Department of Information Systems is particularly interested in the generation of knowledge in the areas of ICT4D, eGovernment, eLearning, IT Project Management, Social Networks, Information Security, and User Experience. Research in these areas have produced one (1) book chapter, three (3) journal articles, and seven (7) conference papers, with aspects of this research being presented locally as well as internationally in Mauritius, Portugal, Indonesia, and Rwanda.
Significant Research Aligned Events

Associate Professor Caroline Khene continues to be actively involved in the development of the Open budget portal called VulekaMali over five (5) years, by the South African National Treasury. The portal is to launch in February 2018 and will be instrumental in opening access to key expenditure and performance by national government for advancing transparency and accountability.

The MobiSAM application was released in March 2017 in Makana municipality for reporting basic service delivery - co-directed by Associate Professor Caroline Khene and Dr Hannah Thinyane from the UN University. The aim of the project is to support two-way dialogue between citizens and local government - which has been progressively instrumental in promoting active citizenship and addressing numerous water leaks around Grahamstown during the drought. It has been funded in the past by the Ford Foundation and the Making All Voices Count initiative.

PUBLICATIONS

Books/Chapters/Monographs


Peer Reviewed Subsidy-Earning Journal Research Publications


Thinyane, H., Pade-Khene, C. and Mthoko, H.


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

A range of thought-provoking research topics have been added to the university’s research commons by the three (3) PhD and eleven (11) Masters Students who graduated. MA graduates, Ahmad Yusuf Jamal and Kayla Roux both achieved distinctions.

In addition two (2) of our staff members, Dr Priscilla Boshoff and Dr Alette Schoon, graduated with their PhDs in 2017.

Distinguished Visitors/International Visits

The School continued using its weekly research seminars as a space for ongoing critical discussions about theoretical issues and changes in the media landscape. We approached academics, researchers, journalists, writers and multimedia specialists to share their experiences and findings. Similarly, to previous years, the format was a series of conversations that aimed to guide, and connect the School to happenings and people in other spaces.

Advocate Wim Trengrove SC, one of South Africa’s sharpest legal minds, spoke to staff and students about hate speech and South African law.

Professor Sally Hunt, from the English Language and Linguistics Department, discussed “The representation of women in the media - a corpus study” - which emphasised gendered messages via use of language in news media which contribute to hegemonic views of women as second class citizens.

Former Editor-in-Chief of Rolling Stone South Africa, Miles Keylock, joined the department as a Masters student and shared his experience of working as an arts and music writer.

Martina Della Togna discussed her position as first multimedia manager for the Parliament of the Republic of South Africa and her experience as an independent documentary producer and multimedia/social media consultant using the media as a tool for public education, citizen empowerment and sustainable development communications.

Teachers and scholars from the Andrew W. Mellon-funded Media and Social Belonging grant, awarded in 2017. Teachers include Dr Priscilla Boshoff, Professor Anthea Garman, Professor Larry Strelitz, Dr Alette Schoon, Professor Lynette Steenveld (coordinator of the Mellon programme) and Professor Lorenzo Dalvit.

Photo: Kyle Prinsloo.
**Significant Research Aligned Events**

The 21st Highway Africa conference was held at the end of August 2017 under the theme “Media, Accountability and Local Governance”. The conference was attended by over five hundred (500) delegates and was a historic and momentous one as it brought together, for the first time, the Highway Africa Conference and the South African Communication Association (SAComm) in the hosting of a dual conference.

SACOMM delegates held their conference at Rhodes University with the separate theme of “Locating the power of communication in a time of radical change” which sought to explore the implications of the ‘post-truth’ world and how it impinges on the idea of the power of communication right now in South Africa’s history.

At Highway Africa, editors, journalists, civil society activists and local government practitioners talked about notions of public and social accountability and the role of citizens, policymakers and journalists. The conference delegates explored the capacity of local media to generate news and information in the public interest, covering the local government to understand the intricacies of policy, budgeting processes, expenditure and operational processes of municipalities.

The South African Reserve Bank Centre for Economic Journalism (SARBCEJ) worked together with Bloomberg, based in New York, and the Gordon Institute of Business Science in Johannesburg, to produce a nineteen (19) day programme called the Bloomberg Media Initiative Africa for African journalists to enhance their skills in business journalism. The initiative, which operates across the continent, aims to increase the number of skilled financial journalists and analysts working in the media in Africa.

Anthea Garman and Gillan Rennie attended the inaugural IABA Africa colloquium hosted by Stellenbosch University, which attracted researchers working on auto/biography from South Africa, other African universities, and universities in Australia and England.

Funding awarded to the Sol Plaatjie Institute (SPI) by UNESCO saw the publication of a seventy-four (74) page booklet in 2017, “A Directory of Community Media and Advertising Trends in Southern Africa”. This research conducted by Meli Ncube, Rhodes University MA graduate in Journalism and Media Studies, explores the financial viability of Southern Africa’s community media.

Senior students represented the School and worked in the student newsroom at the Menell Media Exchange conference in Johannesburg with the focus of “Truth & Trust: Mapping media’s new terrain”. The Menell Media Exchange is a flagship programme of Duke University in Durham, North Carolina and is focused on strengthening independent media in South Africa.

Professor Steenveld was awarded funding for a seminar series titled ‘Southern Epistemologies: Thinking beyond the abyss for a transformative curriculum’ as part of the Andrew W. Mellon Foundation’s 30th Anniversary Seminar Program. The seminar series responds to continuing demands for the transformation of South African tertiary education by focusing on the essence of what Universities do: continually problematizing knowledge creation.

In particular, this series offers an approach to knowledge production that is transdisciplinary, enabling participants to see the ways in which different disciplines approach similar broad structural conditions. The selection of the seminars is purposeful, combining the theoretical and philosophical problematization of ‘knowledges’ as a category, and then its ‘application’ in fields that are broadly communicative, but in different ways.

A new research programme in Media and Social Belonging received funding from the Andrew W. Mellon Foundation. This programme focuses on the complex relationships between South Africa’s changing media environment and its changing political environment with the key question: “What kinds of sociality are constituted by different forms of media and how do these forms of sociality speak to issues of social belonging and calls for social change? The core issues of the programme are Coloniality, Digitality and Sociality and the interconnections between them.” The programme is led by Professor Lynette Steenveld, and has entailed the teaching of a new core media studies and social theory programme at Postgraduate levels.
Books/Chapters/Monographs


Concerts, Exhibitions, Performances, Workshops, Events


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


Members of the Law Faculty contributed to the ever-expanding body of knowledge of law on both the national and international planes during 2017. I am pleased to note that the number and quality of research involvement over the last year represent an improvement on our performance of the past few years, and commend staff for their commitment to contribute to the research culture in the Faculty and university.

Postgraduates / Graduations
One (1) LLM and one (1) PhD candidate met the requirements for the award of their degrees during the course of 2017.

Distinguished Visitors / International Visits and Significant Research Aligned Events
Five (5) Visiting Professors shared their knowledge, expertise and enthusiasm for the law, profession and legal education with the Faculty and its students in the past year, with engagement in lectures and discussions with staff and students.

Professor Donald Nicolson contributed to a successful orientation programme for penultimate year LLB students in February 2017.

Mr Max Boqwana delivered a lecture entitled ‘The development of jurisprudence under the Zuma administration: A critical review’ to a fully packed Moot Room on 2 March 2017 eliciting much discussion.

Judge Nambitha Dambaza of the Supreme Court of Appeal delivered a public lecture that elicited much discussion on the Traditional Courts Bill, entitled ‘The traditional Courts Bill: the devil is in the detail’ on 3 April 2017.

Advocate Wim Trengove SC delivered his public lecture entitled ‘Is the Government at War with the Banks: A Discussion of The Minister Of Finance v Oakbay Investments’ on 18 September 2017, sharing his insights in his customarily accessible way.

Judge Clive Plasket debunked the mystery surrounding ‘Judicial deference’ in his public lecture on 10 October 2017 in a lecture entitled ‘Judicial Review, Administrative Power and Deference: A View from the Bench’.

The Faculty was honoured to host Professor Thaddeus Metz, an A-rated philosopher from University of Johannesburg who presented a seminar on ‘Ubuntu and legal practice’ in October 2017.

Judge Rosaan Krüger, Dean of Faculty
PUBLICATIONS

Books/Chapters/Monographs


Concerts, Exhibitions, Performances, Workshops, Events


Peer Reviewed Subsidy-Earning Journal Research Publications


Peer-reviewed Proceedings
Van Coller, H.

Van Coller, H.

Van Coller, H.

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Campbell, J.

Campbell, J.

Campbell, J.

Glover, G.

Jabavu, P.

Kruger, R.

Kruuse, H.

Kruuse, H.


Nwauche, E.S.

Rahim, S.


Rahim, S.

Rahim, S.

Rahim, S.
Postgraduate students are exploring such diverse topics as narratology and computer games, Afrofuturism and science fiction, African postmodernism and online narrative formats, queer sexualities in African short fiction, African child-centred narratives and trauma theory, and Afropolitanism, transgression and post-realism in contemporary South African fiction.

In 2017, two (2) major research projects were launched in the Department, after prestigious Andrew W. Mellon Foundation grants were awarded in 2016.

Dr Lynda Gichanda Spencer’s and Dr Minesh Dass’ “Urban Connections in African Imaginaries” (UCAPI) project includes associates from the Universities of Stellenbosch, Pretoria, Ashesi, Dar es Salaam, Makerere, the Witwatersrand, and the Federal University of Ebony.

Associate Professor Sam Naidu's “Intersecting Diasporas” (ID) project entails collaborative research and teaching engagements with Teresa Carrillo, Professor of Latina/Latino Studies at the College of Ethnic Studies at San Francisco University, and joint publications with Dr Marzia Milazzo of Vanderbilt University.

Both of these projects have generated a number of Postdoctoral Research Fellowships in the Department, together with funding for Postgraduate students from Honours to doctoral level, and for visiting scholars or writers-in-residence.

In addition, Dr Aretha Phiri began her Iso Lomso Fellowship at the University of Stellenbosch’s Institute for Advanced Study, spending the fourth term participating in seminars, workshops organised for the scholars from across the African continent, and elsewhere who are involved in this programme.

Dr Deborah Seddon continued her research into South African oral or spoken word poetry, a project funded by the British Academy by means of a Newton Advanced Fellowship. The latter project will ultimately result in the production of an edited collection, a monograph, and an online digital archive, in collaboration with colleagues at Queen Mary University of London.

Dr Spencer and Professor Ashleigh Harris (Uppsala University, Sweden) were also awarded funding from STINT/NRF for a research project on Contemporary African Texts and Contexts: Decolonising the Archive, Genre and Method.

**Postgraduates / Graduations**

Dr Seddon and Associate Professor Naidu, together with Professor Robbie Van Niekerk of Institute of Social and Economic Research (ISER), were instrumental in successfully motivating for the award of an Honorary Doctorate to the famous Jamaican/British dub poet Linton Kwesi Johnson (LKJ), whose poems have long been taught in the Department at undergraduate level.

Dr Seddon and Yolisa Kenqu, a PhD candidate in our Department, were also involved in the hugely successful evening of tributes and readings held at the National English Literary Museum (NELM) to honour LKJ - an evening which was ‘capped’ by the poet’s recitation of one of his poems.

One (1) PhD in English was awarded to Jyoti Singh, whose thesis was entitled "William Blake’s Animal Symbols: Tensions and Intersections between Silence and Allegory in Eighteenth-Century Attitudes towards Animals". Supervisor: Professor Dan Wylie.
A total of seven (7) MA students graduated in 2017, two (2) Cum Laude, and one (1) jointly supervised MFA student, also Cum Laude. The students who received distinctions were the following:

- **Edley, Chris.** Riding into Myth: Manifest Destiny, Nietzschean Ethics and the Creation of a New Western Frontier Mythology in Cormac McCarthy’s Blood Meridian. Supervisor: Professor Gareth Cornwall.

- **Sulter, Philip.** “We’ve tamed the world by framing it”: Islam, ‘Justifiable Warfare,’ and Situational Responses to the War on Terror in Selected Post-9/11 Novels, Films and Television. Supervisors: Dr Deborah Seddon and Dr Minesh Dass.

- **Sawyer, Kathleen.** Beastly Tales: A Modern Legacy. Co-Supervisor: Dr Sue Marais (with Professor Dominic Thorburn of the Department of Fine Art).

Honours: a cohort of sixteen (16) students, no less than eleven (11) graduated with distinctions - a remarkable achievement given the prolonged disruptions to the academic programme the previous year.

**Distinguished Visitors / International Visits**

Two (2) international scholars visited the Department in 2017:

- **Dr Ranka Primorac** (University of Southampton, UK) presented monograph writing workshops, research seminars and a master class on popular literature and culture in Africa during her residency from July to August 2017 as an UCAPI visiting scholar.

- **Dr Marzia Milazzo**, a Postdoctoral Research Fellow in the “Intersecting Diasporas” project, completed a monograph manuscript entitled Colourblind Tools: Narrating Racial Power in the Americas and South Africa, and presented a paper entitled “Still dangerous to be black in the world: Rediscovering the Ordinariness of Racism in Post-Apartheid Fiction” at the Fixions 2017 conference organised at Rhodes University in July 2017.

In addition, two (2) UCAPI writers-in-residence were hosted by the Department: the poet Gabeba Baderoon, and J olyn Phillips, author of the recently published collection of short stories, Tjieng Tjang Tjerries.

**Significant Research Aligned Events**

Dr Spencer co-organised the (Re)thinking African Feminisms Colloquium at Rhodes in July 2017, and Dr Dass co-ordinated the Postgraduate colloquium entitled “Speculative Freedoms and Alternative Futures: Afro Sci-Fi, Fantasy and Speculative Fiction” in the Department in September 2017.

Twelve (12) papers were delivered at conferences by staff members, six (6) by Postdoctoral Research Fellows, and sixteen (16) by PhD, MA and Honours students. The fact that so many Postgraduate students were keen to present their work at such forums is encouraging for the future research outputs of the Department.

Moreover, no less than five (5) Postgraduate students published articles in peer-reviewed academic journals in 2017.


Photo: Thando Nhlanzwa.
Books/Chapters/Monographs

Naidu, S.


Philips, W.D.


Wylie, D.A.


Peer Reviewed Subsidy-Earning Journal Research Publications

Dass, M.


Du Preez, J.B.


Haith, C.


Laue, K.A.B.


Marais, S.


McCarthy, K.A.


Naidu, S.


Phiri, A.


Spencer, L.G.


Tembo, M.N.


Wylie, D.A.


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

Leff, C.W.


Mason, P.


Naidu, S. and Thorpe, A.


Naidu, S.

During 2017, the Department of Management continued to integrate the development of research thinking and skills into its teaching, particularly at the fourth-year level where students are exposed to a research methodology module and produce a research report. The Department also offers a structured research component on the Masters and PhD programme.

Postgraduates / Graduations
During 2017, ten (10) masters students and four (4) PhD students were registered in the Department. Two (2) students will graduate with their masters degrees and one (1) with their PhD at the 2018 graduation ceremony.

Distinguished Visitors / International Visits
Distinguished visitors included Professor H Ulrike and Professor A Lasar from the University of Applied sciences, Osnabrueck. International visits by staff members of the Department took place during the year. This included Mr Bakker to Utrecht University, Professor Louw to the Shanghai University of Business and Economics, Utrecht University and to the University of Applied Sciences, Osnabrueck, and Mr Louw to Utrecht University.

PUBLICATIONS

Books/Chapters/Monographs


International Visits

Bakker, H.P.

Louw, L.
Louw, L. Shanghai University of Business and Economics, Shanghai, China. International Event management Studies programme. 22 May - 1 June 2017.

Louw, L.
Louw, L. School of Economics, Utrecht University, Utrecht, Netherlands. Personal leadership development in a globalised world. 3 - 7 July 2017.

Louw, L.

Louw, M.J.

Louw, M.J.
Louw, M.J. School of Economics, Utrecht University, Utrecht, Netherlands. Personal leadership development in a globalised world. 3 - 7 July 2017.

Peer Reviewed Subsidy-Earning Journal Research Publications

Louw, L. and Muriithi, S.M.

Mayer, C.H.

Mayer, C.H.

Mayer, C.H.

Mayer, C.H.

Mayer, C.H.

Mayer, C.H.

Owusu-Ansah, M.

Distinguished Visitors

Ulrike, H. and Lasae, A.
Professor H Ulrike and Professor A Lasae University of Applied Sciences, Osnabrueck, Grahamstown, South Africa. Study tour: February 2017.
Peer-reviewed Proceedings

Owusu Ansah, M.

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

Geyer, F.B., Louw, M.J. and Louw, L.

Mayer, C.H., Boness, C.M. and Louw, L.

Owusu Ansah, M.

Owusu Ansah, M.
Particular focus areas include:
- Functional analysis including measure theory and martingales;
- Algebraic graph theory;
- Geometric control, particularly invariant optimal control problems on matrix Lie groups (of low dimension), primarily in aspects regarding controllability, geometry of extremals, stability and integrability;
- Computational and analytical relativity, and in particular calculation of gravitational waves from black hole interactions and the study of fluid solutions to the Einstein equations.

Postgraduates / Graduations
The department supervised three (3) Masters and four (4) PhD students across both the Mathematics and Applied Maths divisions.

Catherine McLean submitted her thesis in December and has since been awarded her degree for her thesis studying optimal control problems on the Engel group, supervised by Dr Remsing. We are delighted that Dr McLean elected to remain at Rhodes in 2018 as a lecturer.

We have had the pleasure of hosting four (4) Postdoctoral Research Fellows in the department, active across a variety of disciplines.

Dr Ganguly and Dr Stevens have been active in the Numerical Relativity group, funded by the Claude Leon Foundation and NRF Centre of Excellence in Mathematics and Statistical Sciences, respectively.

Dr Jissy Nsonde-Nsaye obtained a National Research Foundation (NRF) grant to work with Dr Pinchuck on topics in analysis and measure theory.

Former Rhodes PhD student, Dr Dennis Barrett has been funded by the NRF for continued work with Dr Remsing on optimal control theory.

Distinguished Visitors / International Visits
Our academic staff made research visits to India, Germany, Hungary, Romania, Slovenia, Australia, China and the United Kingdom. We also received guests from collaborators in Hungary, Germany and the United States who participated in our local seminar series for staff and students.

Dr Andriantiana presented at the International Combinatorics conference in Melbourne. Dr Remsing and Dr Barrett presented their work at the Conference on Geometry in Pizes. Professor Pollney was an invited speaker at the first BRICS Association of Gravitation, Astrophysics and Cosmology in Yangzhou.

Significant Research Aligned Events
The department formalized its participation in the National Astrophysics and Space Sciences Program (NASSP) as an associate member of the Cape Town node. Our participation provides opportunities to offer graduate projects as part of the program, as well as opportunities to offer graduate courses in astrophysics.

We continue to actively use its local computer cluster and has become one of the most active users at the Centre for High Performance Computing (CHPC) in Cape Town.
Books/Chapters/Monographs


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


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


Bishop, N.T., Pollney, D. and Stevens, C. Characteristic extraction and matching in numerical relativity. 29th International Texas Symposium on Relativistic Astrophysics. Cape Town International Conference Centre, Cape Town, South Africa. December 2017.


The performance highlight of the year was undoubtedly the Gala symphony concert performed in the Guy Butler Theatre, Settler’s Monument. The Rhodes University (RU) Orchestra conducted by David Scarr was joined by RU Vocalists and the RU Choir for the performance. The programme included compositions by two (2) prominent South African composers: Hymn of the Creator (Ushaka) by J.S. Mzilikazi Khumalo (vocal soloists Nosiviwe Mqwebedu, Njabulo Mthimkhulu, Jo-Nette Le Kay, Sibusiso Mkhize and Sibabalwa Yoko); and City Slickers by Grant McLachlan (RU Orchestra).

Other highlights included the Rachmaninoff Piano Concerto No. 2 (soloist Catherine Foxcroft), Mozart Clarinet Concerto (soloist Miete Struwig) and Mozart Lacrimosa from the Requiem (RU Choir and RU Vocalists). The proceeds from the concert contribute exclusively to the Department of Music and Musicology’s funding initiative, the BMus 1st year scholarship (R20 000). The recipient of the scholarship in 2018 will be local Grahamstown resident Mr Xolani Madlabathi.

Postgraduates / Graduations
The Department of Music and Musicology is proud to have graduated five (5) BMus Honours students, one (1) BA Honours student and three (3) MMus students in 2017.

Distinguished Visitors / International Visits
The Department of Music and Musicology continued to host Dr Eric Otchere (Ghana) as a Postdoctoral Research Fellow. During this time, Dr Otchere published two (2) peer-reviewed journal articles, and assisted in the Department and at the International Library of African Music (ILAM) with lectures in Ethnomusicology.

The Department of Music and Musicology was privileged to provide a platform to several internationally acclaimed performers including Blessing Chimanga (Zimbabwe marimbas/vocalist), Petronel Malan (US pianist), Christian Bester (US baritone) in collaboration with RU staff members.
The Department hosted the 11th National Grahamstown Music Competition, an annual event designed to provide young musicians at junior, secondary and tertiary levels across South Africa an opportunity to rub shoulders in the performance arena. The high standards of performance were an inspiration to all.

**PUBLICATIONS**

Concerts, Exhibitions, Performances, Workshops, Events


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


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

In 2017, ILAM hosted several visitors of international standing. First was Ludwig Goransson who visited ILAM early in 2017 to acquaint himself with ILAM recordings. Goransson composed the score for the hit film, Black Panther, and was inspired by the music he encountered here at ILAM.

Another visitor, Dr Sylvia Nannyonga-Tamusuza from Makerere University in Kampala, the archivist at the world famous Klaus Wachsmann music archive. This archive is nearly equal in status to ILAM. During her visit to ILAM in September 2017, she spoke to students on archival practices within a ‘decolonial’ paradigm. She also gave a talk entitled, “Dialogic Archival Documentation: Decolonizing the Archive to Repatriate the Past to Present Indigenous Users”.

Another guest was Albert Bisaso Ssemppeke. Bisaso is a member of a family of musicians who possess a vast repertoire of Ugandan royal court music. Bisaso’s family has played a leading role in conserving and reviving the music after Idi Amin’s tenure. Idi Amin intended to remove all vestiges of royal rule in the 1970s. Bisaso spent two (2) months at Rhodes University, and Nelson Mandela University, where he taught university students, gave two (2) performances in Grahamstown and Port Elizabeth, and participated in ILAM’s community music projects at Joza schools.

Following this visit Bisaso went to perform and teach at Museum Africa and the Windybrow Theatre in Johannesburg. His visit was significant in that it falls in line with ILAM’s vision for developing a network of African traditional musicians connected to ILAM.

Other guests were: Stefan Franke from Germany, the manager of an online resource called ‘Sympathetic Resonances’. His project is aimed at developing a learning platform for mbira music. ([https://www.sympathetic-resonances.org/about](https://www.sympathetic-resonances.org/about) and [https://www.facebook.com/ctepah.pranckhe.3/posts/1301581209251581]).

Sebastian Bergstrom, jazz pianist from Sweden, Siegfried Kutterer, avant-garde composer from Switzerland, and Noah Gorman, a microtonal composer from Canada, visited ILAM to experience the collections first hand.

African Humanities Programme (AHP) Fellows, Daines Sanga from Tanzania and Emmanuel Saboro from Ghana were here from October until December 2017. Daines focused on the performances of uruwe women in Tanzania and Emmanuel on the memories of internal slavery in northern Ghana during the second half of the nineteenth century. Their visit allowed the opportunity to initiate a mentoring relationship especially with regard to publishing. The mentoring continues.
Another visitor was Noel Lobley from the University of Virginia (UVa), whose purpose was to investigate and discuss terms for collaboration between our institutions and students. UVa students and staff will be visiting ILAM as of July 2018 to develop this relationship further.

Community Engagement
Ongoing and extending beyond borders of Grahamstown in Keiskammahoek is an older project brought over from the music department, and the New Brighton jazz project continues. ILAM is involved in Sakhuluntu as well as Access Music Project in oza, Grahamstown.

Postgraduates
Currently there are five (5) Masters degree students and two (2) Doctoral students. Postgraduate students must attend two (2) seminars per week where they discuss their research and progress.

Research Associate: Dave Dargie
Professor Dargie contributed to a dossier for the South African Department of Arts and Culture and UNESCO to have umngqokolo declared World Intangible Cultural Heritage.


ILAM publications
Bow Music Conference Proceedings: This conference was held early in 2016 at the University of KwaZulu-Natal. The proceedings were published in collaboration with Sazi Dlamini from UKZN who served as the editor.

A second publication is the album entitled, “Listen all around”. The album was produced in collaboration with Dust to Digital and curated by leading ethnomusicologist, Alex Perullo. Dust to Digital is a renowned publisher of academically curated music albums. This album is a collection of dance songs recorded by Hugh Tracey between 1950 and 1957.

Concerts, Exhibitions, Performances, Workshops, Events
Dargie, D. Presentation. Xhosa overtone singing: two leading singers of umngqokolo ngomqangi were brought from Ngqoko. Mini-Symposium organised by Professor Bernhard Bleibinger of Fort Hare University. East London. South Africa. 20 September 2017.

Dargie, D. Digitised recordings. Field recordings: 48 audio CDs, 1 CD ROM with photos, 15 DVDs and 24 Handbooks. Dave Dargie Collection. ILAM, Rhodes University, Grahamstown. South Africa. 20 September 2017.

Dargie, D. Part of group led by Professor Dr Tiago de Oliveira Pinto. Put together a dossier of video recordings for this purpose, working with the last three surviving singers of the extraordinary umngqokolo ngomqangi technique, plus six other singers who know the simpler style called umngqokolo nje, at Ngqoko village near Lady Frey in the Eastern Cape. Transcultural Music. Franz Liszt Music University, Weimar. Germany. 13 September 2017.

Other Publications


ILAM publications
Bow Music Conference Proceedings: This conference was held early in 2016 at the University of KwaZulu-Natal. The proceedings were published in collaboration with Sazi Dlamini from UKZN who served as the editor.

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Concerts, Exhibitions, Performances, Workshops, Events
Dargie, D. Presentation. Xhosa overtone singing: two leading singers of umngqokolo ngomqangi were brought from Ngqoko. Mini-Symposium organised by Professor Bernhard Bleibinger of Fort Hare University. East London. South Africa. 20 September 2017.

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Dargie, D. Part of group led by Professor Dr Tiago de Oliveira Pinto. Put together a dossier of video recordings for this purpose, working with the last three surviving singers of the extraordinary umngqokolo ngomqangi technique, plus six other singers who know the simpler style called umngqokolo nje, at Ngqoko village near Lady Frey in the Eastern Cape. Transcultural Music. Franz Liszt Music University, Weimar. Germany. 13 September 2017.

Other Publications

Research Publications


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


Thram, D. Invited Talk, Heritage Month Event, University of Venda. Title: “Digital return of John Blackings field recordings to their communities of origin: Importance to the Connecting Culture and Childhood Project”. September 2017.


Dr Tandlich was promoted to Associate Professor and Dr Ngqwala was promoted to Senior lecturer.

Professor Santy Daya was appointed as the new Dean of the Faculty.

The faculty has four (4) divisions, all of which are engaged in research. The Pharmaceutics division led by Dr Khamanga, who together with Professor Walker are engaged in high quality formulation research.

The Pharmaceutical Chemistry Division led by Dr Tandlich is engaged in water treatment and antimalarial research, while the Pharmacology Division is involved in antibiotics in the food chain under Dr Walsh.

The Pharmacy Practice division under the leadership of Ms Irwin is involved in pharmaceutical patient care research.

As the recipient of their 2016 Distinguished Teaching Award, Dr Goosen delivered an invited plenary lecture at the conference of the Academy of Pharmaceutical Sciences of South Africa and the Pharmaceutical Society of South Africa, held in Johannesburg, July 2017.

A fourth year Research Methodologies Poster Session was organised by Dr Ngqwala. This is a new course which was introduced in 2017 with a research component.

**Distinguished Visitors/International Visits**

Peter Thomson from the Department of Pharmaceutical Services, Health Sciences Centre, Winnipeg, Manitoba, visited our PharmD students in late March 2017. He did site visits in Port Elizabeth, East London and Mthatha to assist them on their ward rounds.

Professor Beverley Glass from James Cook University, Queensland, Australia visited us and delivered lectures to our third and fourth year students.

The Faculty of Pharmacy continued to contribute significantly to the University’s research outputs. The award of one (1) PharmD and one (1) PhD was made at the graduation ceremony.

**PUBLICATIONS**

**Books/Chapters/Monographs**


International Visits

Tandlich, R. University of Zilina, Slovakia, Zilina. Starting of collaboration in the field of disaster and crisis management. 22 March 2017.


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


In the extracted text, the content seems to be related to various research papers and presentations at conferences. Here is a summary of the key points:

**Research and Practice**


**Peer-reviewed Proceedings**


**Research Papers Presented at Academic/Scientific Conferences**


- Oyawode, E.O. and Tandlich, R. (2016) "Synthesis and biological evaluation of (E)-2-

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**Academic/Scientific Conferences**

- **TyMEs Conference**

- **International Conference on Sustainable Solid Waste Management**

- **Community Engagement Conference - Community School/community-based vegetable gardens:**


Significant Research Aligned Events
The Department of Philosophy hosted the annual meeting of the Philosophical Society of Southern Africa (PSSA), January 16-18 2017. Around eighty (80) speakers gave talks, in addition to a keynote address by Charles Mills of City University of New York (CUNY) and a plenary session on the PSSA itself. Roughly, one-third of the talks given were related to African philosophy, while another third focussed on social and political philosophy.

The conference itself went off without a hitch, although events at the conference were historical for the PSSA. The challenge made at the plenary session, which was that the PSSA should be disbanded to make space for an alternative conference and philosophical body, and the subsequent discussion at the AGM, led to a turmoil of resignations and a re-thinking of the PSSA.

Dr Uchenna Okeja was promoted to Associate Professor. He also was a recipient of the prestigious Iso Lomso Fellowship from the Stellenbosch Institute for Advanced Study. The fellowship aims to support scholars to become established researchers in their discipline. During the fellowship period, Uchenna will spend time at Harvard University and the University of Toronto. He also received a fellowship from the Neubauer Collegium at the University of Chicago and a senior fellowship from Justitia Amplificata Centre for Advanced Studies at Goethe-Universität Frankfurt and Freie Universität Berlin.

Other Publications

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Alloggio, S.
Kelland, L.
Tabensky, P.
South Africa has now become established as a hub of the Square Kilometre Array (SKA) radio telescope. The SKA will be the most advanced radio telescope of its kind. The Centre for Radio Astronomy Techniques & Technologies headed by Professor Oleg Sminov continues to make significant headway in their research programme in this regard.

Postgraduates / Graduations

We were pleased to congratulate seven (7) students who graduated with a BSc, four (4) with a BSc (Honours), six (6) with an MSc and one (1) with a PhD. At Honours level, the department awards a meritorious prize, the Basil Schönland prize, to the best student in the Physics Honours class provided the student obtains a first class pass in their final examination. The prize for 2017 was awarded to Ms. Katharine James.

Significant Research Aligned Events

The Luminescence Research Laboratory, headed by Professor M L Chithambo, hosted the 15th International Conference on Luminescence and Electron Spin Resonance Dating (LED2017) between 11 - 15 September 2017 in Cape Town, South Africa. This was the first time the conference was held in Africa. The LED series of meetings are held every three (3) years.

The meeting in Cape Town, hosted by Rhodes University, followed LED conferences held in Canada (2014), Poland (2011) and China (2008). The conference is a forum for presentation and discussion of the latest developments in applications, instrumentation and fundamentals of use of natural materials such as minerals and synthetically developed ones in dating and assessing natural radioactivity. This area of study, otherwise called retrospective dosimetry is interdisciplinary and attracts participation by experts and students from such diverse areas as physics, geology, geography, chemistry and engineering.
International Visits
Chithambo, M.L.
Chithambo, M.L. Technical University of Denmark, Roskilde, Denmark. Research visit. 7 - 16 February 2017.
Medved, A.J.M.
Nsengiyumva, S.
Nsengiyumva, S. University of Poitiers, Poitiers, France. Research visit at the University of Poitiers. 8 May - 8 June 2017.

Peer Reviewed Non-Subsidy-Earning Journal Research Publications
Anilyan, A.
Deane, R.
Deane, R. and Heywood, I.
Deane, R., Heywood, I. and Smirnov, O.
Deane, R., Heywood, I., Smirnov, O. and Tasse, C.
Deane, R., Makhatini, S. and Smirnov, O.
Heywood, I. and J. joza, G.I.G.

Peer Reviewed Subsidy-Earning Journal Research Publications
Abdalla, F.B.
Heywood, I.


Hsu, L.-Y., Desai, V., Murphy, E. J., Cowie, L.L., Jozsa, G. I. G.


Jozsa, G. I. G.


Jozsa, G. I. G. and Lopez-Sanchez, A. R.

Kalita, J. M.


Kalita, J. M. and Chithambo, M. L.


To keep our Department active in terms of research, we organised regular research-oriented events. Two (2) key ongoing events are:

- **Weekly seminar series:** Throughout the year, we arrange Friday lunchtime seminars where staff, Postgraduate students and visitors share their research.

- **Annual Teach-In:** The focus of the Teach-In in 2017 was *The Post-American World* - a lively topic which our visiting speakers tackled adeptly.

We are very happy with our research outputs this year. Our staff, students and associates published four (4) edited books (three (3) of which were edited by our new Associate Professor Alex Amtlaa) and thirteen (13) subsidy-earning journal articles. We also presented twenty-two (22) papers at national and international conferences - all while running a very busy undergraduate and Postgraduate teaching programme.

**Postgraduates / Graduations**

Our graduation ceremony was a very special one as we graduated more Postgraduates than we ever have in the history of our Department. Included among our graduates were four (4) PhD graduates: our own staff member, Dr Siphokazi Magadla, Dr Grace Idahosa, Dr Mike Mavura and Dr Ronald Chipaike. In addition to these PhDs, six (6) students graduated with their Postgraduate Diploma in International Studies, twenty-eight (28) obtained the Honours degrees and eleven (11) their MA degrees.

**Distinguished Visitors / International Visits**

We were happy to welcome Professor Maria Regina Soares de Lima, our Nelson Mandela Visiting Professor for 2016 and 2017. She taught a course on Brazilian Foreign Policy to our Postgraduate students.

We were also privileged to have other visiting lecturers contribute to our Postgraduate programme: Professor Steven Friedman from the University of Johannesburg taught a course entitled “The Broken Bargain? SA’s Contested New Order”; Dr Isaias Chachine presented a course entitled “Community, Justice and Freedom”; and Colombian scholar Fabio Diaz taught a course on “Public Policy: Design and Evaluation.”

We also welcomed visitors from Ghana and Gauteng to give of their expertise to our Diploma and Honours programmes regarding questions of peace and conflict as they affect our African continent.

**Significant Research Aligned Events**

In September 2017, Dr Siphokazi Magadla worked with colleagues from Nelson Mandela University and the University of Cape Town to put together the colloquium, Celebrating 30 years of Ifi Amadiume’s ‘Male Daughters, Female Husbands: Gender and Sex in an African Society’. This very well attended event-stimulated debate about Amadiume’s intellectual contribution to gender studies. The contributions to this conference are now being put together to appear as a special issue in the journal of Contemporary African Studies.

Another significant event was our Department’s participation in a regional colloquium organised by the South African Association of Political Studies in October 2017. Our Department was able to send ten (10) Postgraduate students to this colloquium. This event provided an opportunity for students to share their research with colleagues from other universities in the Eastern Cape.
PUBLICATIONS

Books/Chapters/Monographs

Amtaika, A.


Birikorang, E.A.


Matthews, S.


Matthews, S. and Nqaba, P.


Nqaba, P.


Atta-Asamoah, A., Lock, E. and Gardiner, R.C.


Birikorang, E.A.


Bischoff, P.H.


Concerts, Exhibitions, Performances, Workshops, Events

Atta-Asamoah, A., Lock, E. and Gardiner, R.C.


Birikorang, E.A.


Bischoff, P.H.


Handy, P.


Hwami, R.


Idahosa, G.


Kabwato, L.M.


Magadla, S. and Mntambo, L.N.


Mataraarass, S.


Mavura, M.T.


Moore, C. and Munkyuki, C.


Mtolo, S.


Ndediwe, C.L.


Ngcobozi, L., Kgaba, V. and Silesini, T.


Yacob-Halliso, O.


Other Publications

Diaz, F.A.


Distinguished Visitors

Adesina, J.O.T., Clarke, Y. and Mobsemme, N.


Alta-Asamoah, A.


Birkorong, E.A.


de Lima, M.R.S.


Diaz, F.A.

FA Diaz. Institute of Social Studies, Erasmus University, Bogota, Colombia. Lecture. September 2017.

Friedman, S.


Handy, P.


Academic staff and students presented their research in South Africa, Canada, England, Wales, Greece, Ireland and Thailand. In particular, many staff and students attended the inaugural Pan-African Psychology Conference in Durban in September 2017, jointly hosted by The Pan-African Psychology Union (PAPU) and the Psychological Society of South Africa (PsySSA).

Broad areas of research include:
- Case-study methodology,
- Sexual and reproductive health,
- Gender-based violence,
- Neurocognitive assessment,
- Community-based service learning,
- Psychotherapy and professional practice,
- Psychiatric genomics,
- Organisational psychology,
- Teaching and learning in psychology,
- Disabilities, and
- Alcohol use in pregnancy.

Postgraduates / Graduations
Drs Nicola Wanneburg and Jabulile Mavuso (supervised by Professor Roelf van Niekerk and Professor Catriona Macleod respectively) obtained their PhD degrees, alongside another thirteen (13) Masters students and forty-three (43) Honours students in psychology. Six (6) Masters students and sixteen (16) Honours students graduated with distinction.

Dr Wanneburg is a Postdoctoral Research Fellow in the Psychology Department and Dr Mavuso is working in Johannesburg on research articles based on her doctoral studies.

Significant Research Aligned Events
The Critical Studies in Sexualities and Reproduction (CSSR), led by Professor Catriona Macleod, continues to be a hub of research activities and Postgraduate students. Professor Macleod’s SARChI Chair was recently renewed for another five (5)-year term and upgraded from Tier 2 to Tier 1, which means that she is eligible for a further five (5)-year cycle of funding in 2024.

In 2017, Professor Catriona Macleod received the 10th Social Change Award, a departmental award that recognises prominent psychologists for their contribution to social change in the country. She presented a lecture titled; “The spectacular failure and extraordinary success of Psychology in South Africa: the decolonial imperative”. The lecture was a reflection on the simultaneous successes and failures of Psychology, a popular subject at universities, including Rhodes. The award was a fitting acknowledgment of Professor Macleod’s contributions to the discipline as the person who initiated the Social Change project ten years ago.

In acknowledgment of her distinguished and highly productive career as a researcher, Professor Macleod was also promoted to Distinguished Professor at the end of the year, joining just a handful of the very most successful researchers at the University.

Professor Jacqui Akhurst received her first National Research Foundation (NRF) rating of C2. This brings to five (5) the number of academic staff members in the Psychology Department who have NRF ratings.

The Prabashini Apalsamy award, that commemorates one of the department’s most enthusiastic teachers and is awarded each year to the Honours student with the best mark for the research methodology paper, went to Cara Liza Ribeiro.

A number of new staff members joined the department towards the end of the year and the start of the next. These include Mr Duane Booysen, Dr Liezille Jacobs and Dr Grant Freedman.
**Books/Chapters/Monographs**

**Edwards, D.J. A.**  


**Macleod, C.**  


**Saville Young, L.**  

**Young, C.**  


**Concerts, Exhibitions, Performances, Workshops, Events**

**Bohmke, W. and Moore, S.**  

**Donaldson, N.**  

**Macleod, C.**  


**Du Plessis, U., Young, C. and Macleod, C.**  

**Macleod, C., Young, C., J earey-Graham, N. and Molokoek, C.K.**  

**Mavuso, J. and Ndabula, Y.**  

**Ndabula, Y., Chitiki, E., Reuvers, M.J. and Bohmke, W.**  


Other Publications


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Chiweshe, M. and Macleod, C.


Macleod, C. and Tracey, T.


Macleod, C., Bohmke, W., Mavuso, J. and Chiweshe, M.


Macleod, C., Lynch, I., Morison, T.


Mars, J. and Macleod, C.


Mavuso, J. and Macleod, C.


Molokee, C.K., Young, C. and Macleod, C.


Moore, S., Lynch, I., Chiweshe, M. and Macleod, C.


Ndahula, Y., Young, L.S. and Macleod, C.


Robertson, C.A., Mars, J. and Macleod, C.


Shuttleworth-Edwards, A.B.


Shuttleworth-Edwards, A.B.


Shuttleworth-Edwards, A.B.


Shuttleworth-Edwards, A.B.


Shuttleworth-Edwards, A.B.


Our hosting of the Archbishop Thabo Makgoba Development Trust (ATMDT) Annual Lecture on Values Based Leadership was once again a great success, with former First Lady, Graça Machel Mandela delivering the third in the series. She can best be described as a global citizen and hence her message transcended many dimensions.

Whilst the focus of the lecture is about values based leadership, Ms Machel Mandela placed it fair and square on a values based society. The statistics she provided on the levels of gender and child violence shocked the audience to the core. Rather than just presenting the solution, she challenged us to demonstrate outrage, make the change and most particularly as institutions of higher learning, provide the architecture that will contribute to us addressing these societal issues. As she stated most bluntly, “Don’t wait for leadership, we’ll be disappointed. Start with ourselves, and our families, we can make the change”.

During the course of 2017, we ran twenty-one (21) Rhodes University accredited certificate short course programmes, with two hundred and seventy-three (273) Certificates of Competence being issued. This in addition to a number of training workshops that we run for various organizations.

We signed Memoranda of Understanding for academic cooperation with International Business School Americas, Brazil and City Business School, Russia.

**Postgraduates / Graduations**

One (1) PhD, seventeen (17) MBA and fifty-one (51) Post Graduate Diploma in Enterprise Management (of whom thirteen (13) were our first cohort of part-time students) candidates graduated. The MBA Fellowship Award recipients as voted by their peers, was jointly shared by Leon Soko and Maëva Temal, the ATMDT Prize recipient for the Responsible Leadership essay was Dino Giovannoni and the inaugural FNB Economics Prize recipient was Juan Haasbroek.

**Distinguished Visitors**


**International Visits**

Professor Noel Pearse continues to have visiting status at Faculty of Economics, University of Ljubljana, Slovenia.

Mr Evert Knoesen presented two (2) modules at Montpellier Business School, France on Economics and Gender Justice.

In 2017, we hosted two (2) international visiting academics, Dr Charles Bassey from University of Leicester, England, who taught on Responsible Leadership and Professor Vlado Dimovski from University of Ljubljana, Slovenia, who taught on Ethical Organization.
Another area of collaborative research was conducted with Rhodes University Community Engagement on the service-learning programme within the MBA programme of the Business School, as well as a focus on health leadership. Collaboration with the Global Leadership Initiative (GLI), an international network of consultants and researchers working in the area of leadership, has resulted in a book publication and a journal article.

Lastly, it has been pleasing to note the publications arising from supervised student research, as well as the Certificate Programme offered as preparation for PhD candidates.

**Books/Chapters/Monographs**


**Peer Reviewed Subsidy-Earning Journal Research Publications**


**Peer-reviewed Proceedings**


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

Knoesen, E.P.

Mohapeloa, M.M.E.

Pearse, N.J.


Pearse, N.J. and Simataa, G.
Postgraduates / Graduations

The School of Languages & Literatures graduated ten (10) PhDs and three (3) MAs in 2017. This is the first time that the School has achieved such results.

Every single PhD presented a particular case, and is worth mentioning. Some theses were written in languages other than English (isiXhosa, and French), while others were dealing with sign language, indigenous music, edition and translation, etc. The titles were very diversified, and they translate the intensity of research undertaken in order to achieve these results:

- Mafrika, AE. The life and literary works of Peter Tshobiso Mtuze - A critical analysis. Supervisor: Professor RH Kaschula.
- Mzile, M. Etude postcoloniale: une analyse thématique et stylistique de quelques œuvres en littérature africaine francophone. Supervisor: Professor PK Mwepu.

Distinguished Visitors / International Visits

The School of Languages & Literatures hosted Emeritus Professor Ekkerhard Wolff, Chair: African Linguistics; University of Leipzig, as part of Hugh le May Fellowship. Professor Wolff gave several lectures on African languages and cultures, including: “Linguistic Plurality and Diversity - Why the ‘North’ cannot understand the ‘South’: When European experience clashes with African reality”. Professor Wolff continued his visit at the School of Languages & Literatures from October 2017 to March 2018.

As part of the African Humanities Programme (AHP), the School of Languages & Literatures hosted Dr Kayode Ayobami Atilade from the Department of Foreign Languages, Obafemi Awolowo University, Ile-Ife Osun State, Nigeria. Dr Atilade is an expert in Francophone African Literature from North Africa.

In December, Professor PK Mwepu was hosted by the University of Queensland (Brisbane), where discussions were held in connection with the introduction of African Studies in Australia. Contacts were made, and are currently being made, with Professor Anne Le Guinio, in order for the two (2) institutions, Rhodes University and the University of Queensland, to cooperate in this field and share the necessary expertise in terms of teaching and research.

Significant Research Aligned Events

In 2017, the School of Languages & Literatures continued to organise Postgraduate seminars at individual sections. Postgraduate students and Postdoctoral Research Fellows presented papers in their particular disciplines. We hope that this trend will continue into 2018.
Books/Chapters/Monographs


Weber, U.S.

Woff, E.


Concerts, Exhibitions, Performances, Workshops, Events

Mwepu, P.K.

Maseko, P.

Mfaba, P.W.

Mose, P.N.

Mwepu, P.K.

Nkomo, D.

Sirhole, E. and Nikomo, D.

Xaba, M.


Peer-reviewed Proceedings

Mose, P.N.

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

Malamis, D.

Mukenge, A.N.
Mukenge, A.N. La revisation des lieux dans Pays sans chapeau et L’épigame du retour de Dany Laberme. Pour une ¿g-¿crite du texte et du cinéma francophones. Hurghada University, Montreal, Canada May 2017.

Mwepu, P.K.
Professor Kirk Helliker, meanwhile, has continued his exceptional higher degree supervision record with four (4) of his doctoral and master’s students graduating this year.

**Postgraduates / Graduations**

Thirty-two (32) honours, two (2) with distinction, one (1) master’s by thesis (with distinction), six (6) master’s by coursework/dissertation, one (1) with distinction, and four (4) PhD students graduated.

The four (4) PhD candidates graduating this year were supervised by Professors Kirk Helliker, Gilton Klerck, Monty Roodt, and Valerie Møller. Their doctoral theses focused on different regions and included topics on the construction of household livelihood strategies in Harare; a sociological study of naming in times of social change, with a focus on statistical problems in empirical onomastic research; the role of social capital in enhancing community resilience to natural disasters in Muzarabani district in Zimbabwe; and the impact of South African business on employment relations in Mozambique.

**Significant Research Aligned Events**

Members of staff and Postgraduate students published short papers in the media, including in Alternativa Libertaria and Zabalaza, Africa is a Country, Pambazuka New, and The Conversation. Leny Matsiri, a PhD candidate in the Department, co-produced several research reports.

Brilliant Xaba, also a PhD candidate, won the prize for Best Student Paper at the 2017 Annual Congress of the South African Sociological Association (SASA), which was held at the University of the North West, Mafikeng.

Staff members and Postgraduate students presented papers at numerous conferences, both national and international, throughout the year, including the South African Sociological Association (SASA) Annual Conference in July.

Professor Gilton Klerck, Professor Lucien van der Walt and Mr Kanyiso Ntikinca are part of the steering committee of the Labour Studies Seminar Series, an interdisciplinary programme between the Neil Aggett Labour Studies Unit (NALSU), Economics & Economic History, History, and Sociology.

In 2017, the Labour Studies Seminar Series ran eleven (11) public events, including three (3) book launches. The Series has grown into perhaps the largest and best attended seminar series in the economic and social sciences on campus, with a notable turnout of students.
Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


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


Van Der Walt, L. and Byrne, S.


Xaba, M.B.

Xaba, M.B. From Land Dispossession to Land Restitution: Understanding the Post-Settlement Livelihoods of Land Restitution Beneficiaries in Maclean town, Eastern Cape, South Africa. 8th Interdisciplinary Postgraduate Conference. Rhodes University, Grahamstown, South Africa. September 2017.


Professor Radloff’s research collaborations with the Departments of Entomology (King Saud University, Saudi Arabia), Management and Psychology resulted in four (4) peer-reviewed journal articles and three (3) conference presentations including a invited symposium presentation at the International Neuropsychology Society meeting held in Cape Town.

Professor Raubenheimer’s Bayesian accelerated life testing presentation at the International Statistical Institute Regional Statistical Conference held in Bali was very well received.

Dr Chinomona’s presented a poster on the development of a semi-parametric spline based predictive model for HIV at the Royal Statistical Society International Conference in Glasgow.

Mr Southey won the best Masters student poster competition with his research on Bayesian hierarchical modelling in spatial epidemiology, which he presented at the South African Statistical Association’s annual conference held in Bloemfontein.

Mr Izally continued reading towards his doctorate and attended the Bayesian biostatistics workshop hosted by Stellenbosch University.

Postgraduates / Graduations
Two (2) students graduated with Masters of Science in the Department of Statistics, Mr Southey attained a distinction. Of the five (5) Bachelor of Science Honours in the Department of Statistics graduates, Mr Baba and Ms Franklin both attained distinctions. Two (2) students completed their fourth year of the Bachelor of Business Science program in the department, Ms Mclean retained a distinction in joint Bachelor of Science Honours in Human Kinetics, Ergonomics and Statistics. Five (5) students attained distinctions in Mathematical Statistics 3. Ms Amy Langston was the top third year student in the Faculty of Science with distinctions in Mathematical Statistics and Mathematics.

Distinguished Visitors / International Visits
The Department of Statistics hosted the Eastern Cape Chapter of the South African Statistical Association meeting in April. Professor A.J. van der Merwe from the Department of Mathematical Statistics and Actuarial Science at the University of the Free State presented papers on outlier detection in the one-way variance components model and on residual analysis and outliers in a two-way random effects model. The staff and Postgraduate students attended Professor van der Merwe’s presentation on Bayesian methods for comparing process capability indices at the Nelson Mandela University.
PUBLICATIONS

Concerts, Exhibitions, Performances, Workshops, Events
Izally, S.R.

Peer Reviewed Non-Subsidy-Earning Journal Research Publications
Mazengera, H.

Peer Reviewed Subsidy-Earning Journal Research Publications
Radloff, S.
Radloff, S.J.

Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Chinomona, A.
Radloff, S.
Raubenheimer, L.
Southey, R.R., Raubenheimer, L. and Radloff, S.
Despite considerable undergraduate teaching commitments, 2017 was another exceedingly productive year for the department with all the staff, Postdoctoral Research Fellows and Research Associates contributing to the research output. In addition to one hundred and seven (107) full-length papers appearing in both local and international (ISI accredited peer reviewed journals, staff also contributed to three (3) book chapters and numerous popular science articles covering a variety of topics.

Staff within the department travelled widely to present their research findings at conferences and workshops both locally, and in Africa, Europe, Australasia, north and South America. The high regard of the research conducted by staff and research associates is reflected in numerous invited lectures and keynote addresses during the year.

Additionally, a number of the staff were invited to evaluate international and local research programmes. A key event during the year was the launch of the Centre for Biological Control under the directorship of Professor Martin Hill. In recognition of his outstanding contribution to the academic project at the university, Professor Martin Hill was promoted to the position of Distinguished Professor.

The department continues to attract Postdoctoral Research Fellows from around the globe and also hosted a number of research scientists from aboard including amongst others from Africa, Europe North and South America.

Danckwerth, D.K.


Daniel, C.A. and Viillet, M.H.


Daniels, R.J., Hulley, P.E. and Craig, A.J.F.K.


Fromeman, R.W.


Hepburn, C.


Hepburn, H.R.


Hill, J.M.


Hill, J.M. and Hill, M.P.


Hill, M.P.


Hirschauer, M.T.


Ismail, M. and Compton, S.G.


Jones, R.W., Hill, J.M. and Hill, M.P.


Lloyd, K.


Lourenco, C.R., McQuaid, C.D. and Zardi, G.I.


Macala, L. and McQuaid, C.D.


Mangadze, T. and Dalu, T.

Mangadze, T., Wasserman, R.J. and Dalu, T. (2017) Use of Diatom Communities as Indicators of Conductivity and Ionic Composition in Captions.

Cornops aquaticum; the water hyacinth grasshopper in the field. Photo: Department of Zoology & Entomology.
Department of Zoology & Entomology


McQuaid, C.D.


Monowka, K.L. and McQuaid, C.D.


Monaco, C.J.


Moore, S.D.


Moore, S.D. and Hill, M.P.


Moore, S.D., Albertyn, S. and Love, C.N.


Moyo, S. and Richous, N.B.


Weaver, K.N., Hill, J.M., Martin, G.D., Paterson, I.D. and Hill, M.P.  
Weaver, K.N., Hill, J.M., Martin, G.D., Paterson, I.D., Coetzee, J.A.  

Williams, K.A. and Villet, M.H.  
Species identification of adult African blowflies (Diptera: Calliphoridae)  
p.1-12.

Williams, K.A., Mazungula, D.N. and Villet, M.H.  
Williams, K.A., Wallman, J.F., Lessard, B.D., Kavazos, C.R.J.,  
Mazungula, D.N. and Villet, M.H. (2017) Nocturnal oviposition behavior  
of blowflies (Diptera: Calliphoridae) in the southern hemisphere (South  
Africa and Australia) and its forensic implications. Forensic Science  

Zardi, G.I.  
and Sempio, E.A. (2017) Reproductive strategies and population genetic  
structure of Fucus spp. across a northeast Atlantic biogeographic  

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

Acheampong, M.A.A., Hill, M.P., Moore, S.D. and Coombes, C.A.  
Acheampong, M.A.A., Hill, M.P., Moore, S.D. and Coombes, C.A.  
Suitability of entomopathogenic fungal isolates for microbial control of  
citrus pests: biological traits and effect of formulation. Combined  
Congress of the Entomological and Zoological Societies of Southern  

Bellingan, T.A.  
De Moor, F.C., Bellingan, T.A., Barber-James, H.M. and Mantel, S.K.  
Insights from South Africa: the importance of geological history in  
riverine biomonitoring. 28th International Congress for Conservation  

Caputo, M., Froneman, P.W. and Plon, S.  
Caputo, M., Froneman, P.W., Du Preez, G. and Plon, S. Long-term  
trends in cetacean occurrence during the annual sardine run off the  
Wild Coast, South Africa. 36th Southern African Marine Science  
Symposium. Port Elizabeth, Port Elizabeth, South Africa. july 2017.

Carassou, L., Magom, M.L., Whitfield, A.K. and Richoux, N.B.  
of an introduced predator (Micropterus salmoides, Centrarchidae) on  
native estuarine fish elucidated through fatty acid analyses. 32nd  

Coombes, C.A., Taylor, D.G., Prinsloo, S.L., Hill, M.P. and Moore,  
S.D.  
Coombes, C.A., Taylor, D.G., Prinsloo, S.L., Hill, M.P. and Moore,  
S.D. Entomopathogenic fungi as biological control agents of false  
coding moth. Combined Congress of the Entomological and Zoological  

Dalu, T. and Dalu, M.T.B.  
P. Dalu, T., Dalu, M.T.B. and Wasserman, R.J. Ecological assessment  
of Potamonautil freshwater crabs from the Eastern Highlands of  
Zimbabwe: identifying opportunities and challenges related to community  
November 2017.

Dalu, T., Ellender, B.R. and Weyl, P.S.R.  
Wasserman, R.J., Alexander, M.E., Dalu, T., Ellender, B.R., Kaiser,  
H. and Weyl, P.S.R. Using functional responses to quantify interaction  
effects among predators. Southern African Society of Aquatic Scientist.  
Dalu, T., Froneman, P.W. and Weyl, P.S.R.


Dalu, T., Magoro, M.L. and Whitfield, A.K.


Maseko, Z., Marsberg, T., Hill, M.P., and Paterson, I.D.


Mvandaba, S.F., Hill, M.J., Hill, M.P., and Owen, C.A.


Nei, H.A. and Froneman, P.W.

Microplastic contamination within the tissue of varying size classes of Perna perna along the east coast of South Africa. 16th Southern African Marine Science Symposium, Port Elizabeth. South Africa. July 2017.

Ngxande-Koza, S.W. and Hill, M.P.


Owen, C.A. and Hill, M.P.


Petela, N., Hill, M.J., and Hill, M.P.


Van Der Merwe, M., Jukes, M.D., Opoku-Debrah, J.K., Hill, M.P., and Moore, S.D.


Peter, C.I., Coetzee, J.A., Hill, M.P., and Owen, C.A.


Naidu, P. and Hill, J.M.


Naidu, P., Hill, J.M. and Tafiri, J.M.


Nel, H. and Froneman, P.W.

In addition to collections-aligned research, development of new exhibitions and curation of collections are also a major thrust at the museum, as well as outreach to schools though the museum’s education department.

Staff of Research Departments

- Entomology: vacant from March 2017. The museum’s entomologist, Dr John Midgely, left at the end of February 2017 and the candidates to fill the vacant post were interviewed in December, with the new incumbent, also a Rhodes University graduate, contracted to begin in 2018.
- Department of Freshwater Invertebrates: Dr Helen James (HoD), Mr Musa Mlambo (scientist), Dr Alexandra Holland (Postdoctoral Research Fellow), Dr Ferdinand de Moor (Emeritus Researcher).
- Palaeontology: Dr Rose Prevec (HoD), Dr Robert Gess (Postdoctoral Research Fellow), Dr Billy de Klerk (Emeritus Researcher), Ms Aviwe Matiwane (PhD student).
- Herbarium: Mr Tony Dold and Mr Phumlani Cimi.
- Anthropology: Ms Phumeza Mntonintshi.
- Archaeology: Ms Celeste Booth.
- History: Ms Gcobisa Zomele.

Postgraduates / Graduations

Two (2) PhD students were supervised during 2017 by the Department of Freshwater Invertebrates and Palaeontology respectively, with Aviwe Matiwane (palaeontology) placed in the top ten (10) at the National Famelab competition.

Two (2) honours students were supervised in the Departments of Zoology and Entomology and Environmental Science, and two (2) 3rd year students in the Departments of Zoology and Entomology.

Two (2) Postdoctoral Research Fellows were also based at the museum, in the Department of Freshwater Invertebrates and in Palaeontology.

Distinguished Visitors / International Visits

Professor Per Ahlberg, Uppsala University, Uppsala, Sweden was a guest of Dr Robert Gess.

Dr Prevec hosted Dr Romain Garrouste, an international researcher from France working on fossil insects, and five (5) international visitors working on fossil trackways. She also hosted a visiting scientist, Dr Bárbara Cariglino from the Museo Argentino de Ciencias Naturales, Argentina. Dr Prevec chaired
a meeting of the Palaeontological Society of South Africa as President of the Society.

Mr Laban Njorge from the Natural History Museum in Nairobi, Kenya, visited the Department of Freshwater Invertebrates to get help with mayfly and caddisfly identification in May.

Mr Pfananani Ramulifho, a PhD student from the University of Venda, spent two (2) weeks at the museum in September, getting specialist help with freshwater insect specimen identification.

Staff from the Department of Freshwater Invertebrates undertook fieldwork in the Tsitsikamma and Hogsback regions (November-December) with colleagues from the Natural History Museum (NHM), London. This was part of developing the Southern African Forest Fauna Molecular Assessment Programme (#SAFFMAP project), a pilot project, aiming for long term developing DNA meta-barcoding to do stream biomonitoring in South Africa.

Significant Research Aligned Events

Dr James' Kruger National Park Rivers Project continued with fieldwork in April and September, with Postdoctoral Research Fellow, Alex Holland.

The Department of Freshwater Invertebrates was also part of the National Geographic funded Okavango Wilderness Expedition, and Mr Mlambo and PhD student Ms Ferreira conducted fieldwork along the Cubango River (Angola) in May 2017.

Dr James attended a meeting in Port Elizabeth representing the Angola Okavango Wilderness project to discuss our contribution with National Geographic journalist David Quammien in June.

Mr Mlambo and interns undertook two (2) ten (10) day fieldtrips to collect specimens for research on streams in the Eastern Cape forest fragments at Baziya-Langeni-Nquadu, and Dwesa and Mazeppa Bay on in January and September - October 2017, respectively. This is a collaborative project with biologists from many disciplines recording the fauna and flora present, run by Professor Michael Cherry at the University of Stellenbosch.

Mr Mlambo also joined Sam Mothkose from Rhodes University's Entomology Department in the Drakensberg, carrying out research on temporary water bodies in the Drakensberg (August 2017).

Dr James hosted a meeting between all of the natural science museums in the Eastern Cape to discuss the National Science Collections Facility (NSCF) program, in May. The NSCF is a SANBI-led initiative, aimed at providing much needed funding for natural science museums in terms of equipment and also contract staff for databasing of collections, and Postdoctoral projects to contribute to the description of new species which are being discovered, thus making biodiversity knowledge available for species conservation.

Dr James, Dr Prevec and Mr Phumlani Cimi, along with interns Ms Mdidimba and Ms Mnqeta, attended the Natural Science Collections Facility forum in the Drakensberg, KwaZulu-Natal on 17-20th October 2017, for the launch of the NSCF. Dr James gave the Albany Museum presentation.

Both Dr James and Mr Mlambo were members of the Reference Group for the WRC project headed by Dr Nelson Odume of Rhodes University, and attended meetings on 31 May 2017.

Dr James attended the 28th International Congress for Conservation Biology (ICCB 2017) in Cartagena, Colombia, where she presented two (2) papers, ran a workshop and was involved in running another, as well attending a wide variety of talks. Rhodes University funded part of this and she wrote a report for them on her return. Other funding was obtained through the Society for Conservation Biology using crowd sourcing. Dr James is a Board member of the Freshwater Working Group, Society for Conservation Biology. In addition to the physical meeting in Cartagena, Colombia, in July, she participated in several Skype Meetings with the committee.

Dr James attended several Rhodes University Science Research committee meetings; she had a Skype meeting with Professor Mary Kelly Quinn (University College Dublin) about identification of Ethiopian mayflies and she attended some Rhodes University Science Faculty meetings.

Dr de Moor, Dr James, Dr Holland and Ms Ferreira did fieldwork in Barrydale area in November. Focus week took place on 9-13 October and Careers Day on 13th October were run.
efficiently for the Department of Freshwater Invertebrates by two (2) interns Ms Nonkazimulo Mdidimba and Ms Zezethu Mnqeta.

Dr James organised a MIRAI training course (Macroinvertebrate response assessment index) - a two (2) day course run at Albany Museum, 5-7th June 2017, followed by SASS Accreditation (i.e. accreditation of people doing biomonitoring in the Eastern Cape) on 8th June 2017.

Dr Prevec and her team discovered new insect fossils at Wapadsberg Pass near Nieu-Bethesda. A fieldtrip to a new site near Sutherland resulted in collection of more new insects and plants (300 slabs), bringing in a wealth of Permian insect and plant fossils.

Ms Mtonintshi of the Anthropology Department gathered Information from Ingcibi, Amagqirha, amaxhwele and elders of the local Rhini communities. This helped to formulate a study to reach out to our people to use them in a manner that is not environmentally destructive.

**PUBLICATIONS**

**Books/Chapters/Monographs**


**Peer Reviewed Subsidy-Earning Journal Research Publications**


MSc candidate Masudi Wiya setting up a pot trial to test effect of bacteria on plant growth. Photo: EBRU.

The Institute for Environmental Biotechnology, Rhodes University (EBRU) is a self-funded autonomous institute of the university and targets research and development in environmental biotechnology at the interface between the fundamental and applied sciences.

The focus areas include wastewater treatment and beneficitation, renewable energy derivation and implementation (e.g., biomass-to-biogas), biological systems; land rehabilitation and decontamination technology (e.g., post-mining, hydrocarbon spillages, etc.), natural products, agricultural, and microalgae biotechnology. Basic activities are supported by a strong emphasis on technology transfer from laboratory to full-scale commercial/industrial process application and implementation. In brief, use of natural products/microbes to perform industrially important tasks in an environmentally sustainable way is the focus of attention.

Studies on the development of technologies for the in-situ bioremediation of South African coal discard dumps concluded with the acceptance by Anglo American Thermal Coal of the final report, Fungcoal 3, authored and published by EBRU. As part of this research and development programme the science underpinning the biological conversion of low-grade coal discard to a humic substance-enriched soil-like material was published in the International Journal of Coal Science & Technology.

Results from this Rhodes University-developed ‘green’ technology have profound implications for use of coal discard as an organic substrate to replace topsoil in phytobioremediation strategies for sustainable large-scale rehabilitation of coal discard dumps to mitigate most if not all of the detrimental effects of stockpiled coal discard on the environment, including the human component.

In addition, a long-term study on the bacterial degradation of waste coal concluded with the award of a PhD degree and aspects of this work are now ready for publication.

Final applications were submitted to the South African Patent Office for processes relating to the bacterial degradation of bituminous coal discard and the biodegradation of petroleum hydrocarbons.

Department of Science and Technology (DST)/funding awarded to EBRU via the Water Research Commission (WRC) in 2014 and again in 2015 to manage the design, construction, and implementation of the Rhodes University-pioneered wastewater treatment process known as the integrated algal pond system (IAPS). In the first instance implementation was destined for Chris Hani District Municipality and subsequently, for Mbombela (previously Umjindi) Local Municipality. The effort is ongoing and is proving quite challenging in contemporary South Africa. Together, these projects form part of the Innovation Partnership for Rural Development Programme (IPRDP), an initiative of the DST aimed at value addition to targeted local and district municipalities, in responding to some of their prioritised needs.

Selection of the IAPS technology by DST was based upon a recent re-evaluation that showed IAPS-treated water complies with the South African general limit values for either irrigation or discharge into a water resource that is not a listed water resource for volumes up to two (2) megalitres of treated wastewater on any given day; greenhouse gas emissions of negative (-) 0.16 tonnes CO₂ equivalents per megalitre of wastewater treated indicating a technology with ability to mitigate climate change and, with no faecal sludge handling.

From a scholastic viewpoint, these large-scale implementation projects are intended to map the various steps (legislative and otherwise), identify challenges and constraints, and determine timelines and parameters for complete technology transfer in addition to quantifying:
1. volume of clean water available for recycle and/or reuse; 2. energy demand of less than 10 kWh per person per year; 3. amount of N-rich fertilizer generated; and 4. energy flows and CO₂ equivalents.
In related research EBRU scientists isolated and partially characterised the soluble extracellular polymeric substances (EPSs) associated with microalgal-bacterial flocs generated in high rate algal oxidation ponds of IAPS treating domestic sewage. Extracellular polymeric substances are high-molecular weight compounds secreted into the environment and are responsible for the functional and structural integrity of biofilms. These complex molecular structures are of biotechnological importance and potential application in the food, pharmaceutical and cosmetics industries as emulsifiers, stabilizers, gel agents, coagulants, thickeners and suspending agents has been documented.

EPSs are mainly associated with high-value applications, and have received considerable research attention in recent years due to biocompatibility, biodegradability, and both environmental and human compatibility. Algae-based wastewater treatment truly is a bioprocess to be nurtured in the face of ever-increasing pressure on our natural resources. Additionally, funded projects continue to develop the RBC bioremediation process for mine wastewater, production platform for algae-based nitrogen-enriched fertilizer and elaborate biological mutualism and carbon sequestration in the plant-microbe-soil continuum.

Postgraduates / Graduations
Nine (9) Postgraduate students were registered at EBRU for higher degrees in Environmental Biotechnology in 2017 - three (3) PhD and six (6) MSc’s.

Ms. Sylvie Tabetendwa, an Organization for Women in Science in the Developing World (OWSD) scholarship holder, successfully completed PhD studies on the biotechnology and performance of hybrid constructed wetlands for wastewater treatment.

Mr. Jacob Olewale also successfully completed a PhD that formed part of a larger Anglo American Thermal Coal sponsored programme on bioremediation technologies for restoration of land disturbed by mining.

Ms. Taobat Jimoh was awarded the degree of MSc with distinction for her studies on microalgal-bacterial extracellular polymeric substances and the contribution of these complex molecular entities in maintaining structural and functional integrity of microalgal biocatalysts used in wastewater treatment.

Significant Research Aligned Events

In addition, engagement with the Technology Innovation Agency (TIA) and the South African National Energy Development Institute (SANEDI) took place on aspects related to development of platforms for wastewater, agriculture, and bioenergy in South Africa.
### Books/Chapters/Monographs


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


### Peer Reviewed Subsidy-Earning Journal Research Publications


### Other Publications


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


Landmarks for this year included a bumper number and quality of graduations, with a record number of distinctions in the MA in Creative Writing (MACW). The stellar MACW graduated ten (10) students, nine (9) with distinctions.

Three (3) new staff appointments were made: Ms Stacy Hardy and Mr Mxolisi Nyaza were appointed on three-year contracts, while Dr Hleze Kunju was appointed as Assistant Coordinator of the MACW.

Also at the April graduation, the ISEA Postgraduate teacher education programme celebrated our first doctoral graduate, Dr Anna Nkomo, who was co-supervised jointly by Madeyandile Mbelani and Monica Hendricks.

Mr Lutho Mnyanda, supervised by Madeyandile Mbelani, graduated with a MEd by full thesis.

Seven (7) MEd students registered part-time in February 2017. Five (5) are in their second year whilst two (2) were first-time registrations in 2017.

The ISEA, together with the ISER, hosted a celebratory tribute on 19 April for the dub poet, Linton Kwesi Johnson, on the award of an honorary doctorate by Rhodes University.

Poet and teacher on the MACW, Lesego Rampolokeng, won the prestigious 2017 National Institute for the Humanities and Social Sciences Award for Best Fiction for his anthology, A Half Century Thing. He left the MACW at the end of 2016. He has taken up a doctoral scholarship awarded by the National Institute for the Humanities and Social Sciences to pursue his ground-breaking research on the work of poet, Mafika Pascal Gwala, in the Department of Literary Studies in English.

Both Wordfest SA and Wordfest Eastern Cape took place during the National Arts Festival. The books launched and issues discussed once again reflected the range of concerns on the minds of many South Africans.
September.

September - 1 October.

Anthology.

Beyers, M.

Beyers, M.

An anthology of South African poetry in English

Berold, R.

Berold, R.

Creative Writing

Xaba, M.H.

Sol Plaatje and the siege of Mahikeng.

Willan, B.

Willan, B.

Sisonkepapu, P.

Sisonkepapu, P.

Sisonkepapu, P.

O'Flaherty, C.

1 July.

Mokhele, S.

Mokhele, S.

Mokhele, S.

Mokhele, S.

2017.

Diego Ferrari

Benjamin.

McNeil, J.

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Public Lecture. Retrieving a lost past: Mathakgong Kepadisa, Fine art exhibition (film, text) in conjunction with photographer

Mntambo, L.N.


Beyers, M.


Beyers, M.


Beyers, M.


Beyers, M.


Beyers, M.


Buzani, M.

Buzani, M.

Buzani, M.

Buzani, M.


Handy, S.

Handy, S.


Handy, S.


Leff, C.

Leff, C.


Leff, C.


Mann, C.M.

Mann, C.M.


Mann, C.M.


Marais, S.

Marais, S.


Marais, S.


Marais, S.


Marais, S.


https://www.avbobpoetry.co.za/.

Marais, S.

Marais, S.

(2017) “Konstantinos was right”. AVBOB poetry.

https://www.avbobpoetry.co.za/.

Marais, S.


https://www.avbobpoetry.co.za/.

Marais, S.

Marais, S.

(2017) “Kareedouw”.

AVBOB poetry.

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### Peer Reviewed Subsidy-Earning Journal Research Publications

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<td>Mann, C.M.</td>
<td>Poetry: Narcissus Redivivus</td>
<td>English Academy Review</td>
<td>34 (1)</td>
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<td>p.126-127</td>
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<td>O'Flaherty, C.</td>
<td>“Winter Karoo Evening”</td>
<td>Aerodrome</td>
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<td>O’Flaherty, C.</td>
<td>“Lights”</td>
<td>Stanzas 9</td>
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<td>O’Flaherty. C.</td>
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<td>Sisonkepapu, P.</td>
<td>“an excerpt from ‘Elsewhere’”</td>
<td>Kotot Cultural Magazine</td>
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### Other Publications

- **Hardy, S.**

- **Mann, C.M.**

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

- **Willan, B.**

### Other Conferences and Public Lectures

- **Berold, R.**

- **Nyewza, M.**

- **Hardy, S.**

- **Nyewza, M.**

- **Berold, R.**

- **Wessels, R.**

- **Wessels, R.**
The director of ISER, Professor Robbie van Niekerk, focused significant attention on the development of a major international research project. The project is focused on Equity, Systems of Provision in Health and Education and the Public Good. The project involves collaboration with colleagues from India, Angola, Mozambique and the United Kingdom (UK), and is lead by ISER Visiting Professor Ben Fine, from the University of London’s School of Oriental and African Studies (SOAS). Professor Van Niekerk was invited to be the Southern African co-leader of the international consortium bid to the United Kingdom (UK) Global Challenges Research Fund (GCRF). The South African component includes a research budget of R46 million, and the Rhodes University project partner is the School of Journalism and Media Studies.

Developmental work continued on a second ISER international comparative research project, “Cultures of Social Solidarity and the Public Good: A Reflection on South Africa and Cuba”. A planning grant for this research project was awarded by the Andrew W. Mellon Foundation for two (2) workshops with the partner universities (University of Havana, Eduardo Mondlane University in Maputo and the Catholic University of Luanda). This comparative research project is jointly convened with ISER Honorary Research Fellow, Professor Yusuf Sayed, Chair at Sussex University. It seeks to understand the concept of social solidarity and its application to public goods such as health and education from a Southern perspective, drawing critically and reflectively on the experience and lessons of Cuba and its role, in particular, in African liberation struggles at the level of ideas and practices. The planning grant is aimed at facilitating a multi-million rand large-scale research proposal over a five (5) year period.

A third major project on Public Private Partnerships (PPPs), Equity and the Public Good, based on a UK Economic and Social Research Council (ESRC) networking grant, made significant progress. This is an international research initiative in which ISER is the South African partner with Professor Van Niekerk as project co-leader with Professor Sayed. The project directly aims to address the relationship between public and private forms of provision of public goods, such as health care and education and their consequences for achieving egalitarian public services based on social solidarity and social justice. The networking project includes colleagues from the UK, India and South Africa.

An international colloquium was held in Cape Town on education and PPP’s - convened under the auspices of Institute of Social & Economic Research (ISER), which includes the Neil Aggett Labour Studies Unit (NALSU), continued its research agenda in the area of social policy and labour studies.

In 2017, the Institute of Social and Economic Research (ISER), which includes the Neil Aggett Labour Studies Unit (NALSU), continued its research agenda in the area of social policy and labour studies.
Struggle for Equality’, it was held in conjunction with NALSU, the Critical Studies in Sexualities and Reproduction (CSSR) Unit at Rhodes University, and in partnership with the Friedrich Ebert Stiftung.

In 2017 NALSU continued to play a key role in the national Labour Market Intelligence Partnership (LMIP), which has now been concluded. Professor Michael Rogan led Theme 5 of the LMIP, which focused on the transition from education to the labour market.

Dr Laura Aflers concluded her NALSU Postdoctoral Research Fellowship at the end of 2017, and has been appointed as Director of the Social Protection Programme of WIEGO (Women in the Informal Economy, Globalising and Organising). A global network of one hundred and ninety three (193) individual and institutional members in forty-five (45) countries focused on securing livelihoods for the working poor, especially women, in the informal economy. Professor Rogan also contributes to the work of WIEGO.

In 2017, NALSU collaborated with DataFirst at the University of Cape Town to digitize the Keiskammahoek Rural Survey data, this survey led to the establishment of the ISER in 1954. The digitised data will be available to researchers in 2018. Dr John Reynolds continues to serve as a member of the External Advisory Board of DataFirst.

Mr Eddie Cottle, ISER Senior Researcher and doctoral candidate, represented NALSU for the first time at an international labour scholar conference, The Herrenhausen Symposium on “Workers of the World” in Hanover, Germany. The main aim of the symposium was to identify new empirical approaches to the study of labour in different world regions, with specific references to methods and data.

Special acknowledgement must be made of the extensive contribution made by ISER’s Visiting Professors, Professor Ben Fine and Professor Yusuf Sayed. Both have helped develop ISER into a policy institute. This, as in previous years, reflects in their contribution to the academic programme and publication outputs of the ISER in 2017.

Significant groundwork was made in 2017 by ISER and NALSU for a strong research output in 2018, with four (4) books - two (2) monographs and two (2) edited volumes - scheduled for publication in 2018, in addition to a range of journal articles.

These include:
- a book by Dr John Reynolds on Development Planning in South Africa: Provincial Policy and State power in the Eastern Cape (London: Zed Books);
- a book authored jointly by Professor Vishnu Padayachee and Professor Robbie Van Niekerk entitled ‘Shadow of Liberation: ANC Economic and Social Policy 1943 to 1996’ (Johannesburg: Wits University Press);
- a co-edited volume by Dr John Reynolds, ISER Visiting Professor Ben Fine and Professor Robbie Van Niekerk on Race, Class and the post-Apartheid South African state (Scottsville: UKZN Press);
- In addition, work commenced on an edited book, a Handbook of Social Policy and Development (Cheltenham: Elgar Publishing), by Professor James Midgley, University of California, Los Angeles (UCLA) Berkeley, ISER Research Associate and former staff member Professor Rebecca Surender and NALSU Postdoctoral Research Fellow Dr Laura Aflers.

Distinguished Visitors / International Visits

In 2017, ISER was honoured to host the Minister of Health, Dr Aaron Motsoaledi, to the annual Dr AB Xuma Memorial Lecture on ‘A Peoples NHI’, which was reported on by the national South African Broadcasting Corporation (SABC) TV.

NALSU hosted its Annual Neil Aggett Memorial Lecture, delivered by Professor Murray Leibbrandt, Pro-Vice Chancellor, SARChI Chair and Director of Southern Africa Labour and Development Research Unit (SALDRU) at the University of Cape Town. Professor Leibbrandt’s lecture was entitled “Confronting South Africa’s Inequality: Why and How?”

Furthermore, ISER was extremely honoured to host Honorary Doctorate awardee Mr Linton Kwesi Johnson (LKJ). In addition to his formal graduation event, the internationally acclaimed reggae poet was celebrated at a special joint event at the National English Literary Museum (NELM) hosted under the auspices of the ISER, English Department, the Institute for the Study of the Englishes of Africa (ISEA) and the Faculty of Pharmacy.

In addition, ISER in conjunction with the Office of the Vice-Chancellor of University of the Witwatersrand (WITS) institutionally co-hosted acclaimed Marxist scholar, Professor Issa Shujah of the University of Dar es Salaam, who delivered the 2017 Harold Wolfe Memorial Lecture in Johannesburg.

The following distinguished scholars also visited the ISER in 2017:
- Professor Edward Webster, Recipient of an Honorary Doctorate from Rhodes University (University of the Witwatersrand);
- Distinguished Professor Vishnu Padayachee (University of the Witwatersrand);
- Professor Rebecca Surender (University of Oxford).

These visits were in addition to the visit by Professor Murray Leibbrandt to deliver the Annual Neil Aggett Labour Studies Lecture.

Research aligned events

In 2017, ISER co-hosted an international symposium on Social Citizenship, Solidarity and Rights in Cape Town as part of the UK ESRC funded EQUIPPS comparative research project on public private partnerships in which ISER is the South African
In 2017, Professor Rogan was an invited expert witness to the Presidential Commission of Inquiry into Higher Education and Training (The Fees Commission). He gave sworn testimony relating to the employment outcomes of university graduates in South Africa. He also gave evidence to the Parliamentary Portfolio Committee on Higher Education and Training, focused on the gap between higher education outputs and the goals outlined in the National Development Plan. This presentation was well received and resulted in an invitation to give regular presentations to the portfolio committee.

Professor Van Niekerk was invited to provide expert feedback at a Workshop on the Impact of the National Health Insurance Policy on Access to Equitable, Quality Healthcare as part of the parliamentary Panel to Assess Key Legislation chaired by ex-president Kgalema Motlanthe.

In 2017 the following key presentations were made:

- Eddie Cottle on “Strikes and the Labour Movement” for the DITSELA Workers College at the University of the Western Cape, Cape Town;
- Michael Rogan, Sally Roever and Caroline Skinner on “Urban regulation and income stability for self-employed workers”;
- Dorrit Posel and Michael Rogan also presented a paper on “Inequality, social comparisons and minimum income aspirations: Evidence from South Africa” at the Biennial Conference of the Economic Society of South Africa, at Rhodes University.
- John Reynolds presented a paper on “Decent work in the Public sector” at the Public Service Coordinating Bargaining Council (PSCBC) 20th Anniversary Roundtable Discussion in the Eastern Cape, held in East London.
- Robbie Van Niekerk presented a paper on “Global Social Policy and Social Solidarity in the South - The case of Health Care in the new geo - political era” at the Third Conference of Strategic Studies at the Higher Institute of International Relations, Havana, Cuba.

Postgraduate students
The ISER is proud to report the successful examination in 2017 of social policy doctoral student Nimi Hoffmann's doctoral thesis; ISER Honorary Professor Yusuf Sayed was her supervisor.

Ben Roberts, a social policy ISER doctoral student of ISER, supervised by Professor Michael Noble, ISER Visiting Professor, and Professor Robbie Van Niekerk, also submitted his thesis for examination. At the time of writing, we are very pleased to report that Mr Roberts' doctoral thesis had been successfully examined and awarded.
Books/Chapters/Monographs


Other Publications


Peer Reviewed Non-Subsidy-Earning Journal Research Publications


Peer Reviewed Subsidy-Earning Journal Research Publications


Postgraduates / Graduations
A total of twenty-nine (29) Postgraduate students were registered in the Institute. Two (2) Hydrology and one (1) Water Resources Science Masters students graduated and one (1) PhD (co-supervised with Geography Department).

Distinguished Visitors, International Visits and Awards
Dr Stephanie Januchowski-Hartley from the Université Paul Sabatier (France) and the President of the Freshwater Working Group of the Society for Conservation Biology visited the IWR and collaborated with South African Institute for Aquatic Biodiversity.

Dr Stephan Pietch, an IIASA scholar, also visited the IWR, and the emerging partnership with the Helmholtz Centre Potsdam GFZ Research Centre for Geosciences and the Swedish Meteorological and Hydrological Institute (SMHI) resulted in trips to Germany and Sweden to gain skills in the use of satellite gravity data (GFZ Centre) and the global HYDPE model (SMHI).

Ms Ntombekhaya Mgaba was awarded a prestigious IWRM (Integrated Water Resources Management) grant to attend the first São Paulo Advanced School (SPAS) on IWRM.

The Rhodes University Environmental Award in the individual excellence category was awarded to Mr Matthew Weaver, an IWR doctoral student, for his engaged and participatory research processes, harnessing people’s voices to improve democratic water governance.

Significant Research Collaborations
Professor Tally Palmer attended the inaugural conference of the African Research Universities Alliance (ARUA) in Accra, Ghana, hosted by the University of Ghana. Significant interest was shown by ARUA delegates in collaborating to form the ARUA Water Centre of Excellence. By the end of 2017 the IWR submitted a motivation to host the ARUA Water Centre of Excellence, based on an integrated water focus on the Sustainable Development Goals, founded on the concept of land and water catchments as complex social-ecological systems.

Environmental Water Quality (EWQ): The IWR EWQ team comprises Drs Nelson Odume, Neil Griffin, Paul Mensah and Khaya Mgaba. The team assessed the performance of a toolkit to enable eco-toxicological testing of effluents discharged to surface waters. Worryingly, they found that control samples with no effluent added, showed significant toxicity in surface waters around Gauteng. The team worked with the Lesotho Highlands Water Corporation to produce a manual of standard operating procedures for river health monitoring and evaluation, and with SASOL on river health indicators for the highly stressed upper Vaal River.

Dr Griffin worked with the Department of Water and Sanitation on tracking trends in phosphate, a major driver of eutrophication and algal blooms in dams. He found a surprising recent downwards trend in riverine phosphate. The finding may link the large washing powder producer, and UCEWQ sponsor, Unilever, removing phosphate from their products.

Adaptive Integrated Water Resource Management: Professor Tally Palmer, Dr Nelson Odume and Ms Margaret Wolff work actively in A-IWRM. Our current focus is developing participatory governance mechanisms to support long term policy implementation. We lead the Governance research in the large DEA-DST sponsored Tsitsa Project.

Professor Palmer has been a lead thinker in this ground-breaking project that brings together natural resource managers; local, provincial and national government departments; and catchment residents together in a joint project to understand and transform the functioning of the catchment so that vibrant livelihoods thrive in a sustainable landscape.

The team facilitated a process for residents to develop a draft catchment management strategy for the Tsitsa River, which will contribute the provincial-scale water resource management.

Dr Odume secured AfriAlliance Action Group EU funding and hosted a workshop on IWRM and Ethics, which attracted local and international scholars. A new collaboration between the IWR, ELRC and the University of Osnabruck, Germany was initiated in 2017. Dr Odume was a keynote speaker at the WRC Heritage Day colloquium, and at the Department of Health National Hygiene Symposium. The collaboration with the International Institute for Applied System Analysis progressed, with Dr Odume and a co-supervised doctoral student learning systems modelling in Austria.

Hydrology: Dr Jane Tanner and Dr Sukhmani Mantel co-ordinated and Dr Tanner hosted an Africa Groundwater Network workshop in Malawi to focus on increasing understanding of surface water and groundwater interactions in Africa. Hydrology researchers and students travelled to the UK and to the DRC for a series of workshops and field trips as part of the Royal Society - DFID Africa Capacity Building Initiative CRuHM (Congo Rover User Hydraulic and Morphology) Project. The project is carrying out large-scale hydraulic and geomorphological science research on the main navigable channels of the Congo River.


Peer-reviewed Proceedings
Research Papers Presented at Academic/Scientific Conferences (Non-peer-reviewed Proceedings)
Distinguished Visitors / International Visits

Dr Vanessa Malila, head of the Advocacy Impact Programme at the PSAM, presented a paper entitled, Challenging the legacies of apartheid in a new democracy at the 5th Global Conference on Transparency Research, held 19-21 June 2017 at the University of Limerick.

On 3-6 December 2017, Zukiswa Kota presented a conference poster looking at opportunities for using open data to improve food security at the 3rd Global International Conference on Global Food Security. This was a valuable opportunity to engage with scientists, activists and public officials while advocating for the use of open data for enhanced resource governance and planning.

Between 29 November and 1 December, Dr Vanessa Malila represented PSAM at the OSF Fiscal Governance Programme Monitoring, Evaluation and Learning Jamboree held in New York, USA.

The Partnership for Social Accountability Alliance (PSAA) is a consortium of organizations including PSAM, contracted by the Swiss Agency for Development and Cooperation (SDC) to implement the PSAM approach to improve accountability and service delivery in the HIV/AIDS/SRH and Food Security sectors in Tanzania, Zambia, Mozambique and Malawi. Thirteen (13) people attended the PSAM Fundamentals Courses during 2017 to support the PSAA’s objectives.

The PSAM also undertook and supported Training of Trainers courses in Malawi, Mozambique, Tanzania and Zambia. Trainers have since delivered a course at national level and another at district level with PSAM staff observing and providing feedback to the trainers. The PSAM’s Annual Learning Workshop took place in Johannesburg during August 2017. Approximately thirty-five (35) participants were present from the five (5) countries in which PSAM has been active this year. Several spaces were also provided to the PSAA so that they could benefit from the hindsight within our regional community.

Significant Research Aligned Events

One of the key activities of PSAM’s Advocacy Impact Programme (AIP) is the production of case study research within the social accountability field, and its dissemination across stakeholders to communities of practice, academics, citizens and government.

In 2017 the AIP carried out two (2) case studies. The first was a knowledge distribution case study which examined the way in which local community members receive social accountability-related information. The study also examined the extent of their understanding of public administration processes and structures. The findings were telling in that most community members preferred to receive information in ways other than how they currently receive it.

The final report also shows that community members have a poor understanding of service delivery processes and the structures which govern public resource management at the local and national levels. In an effort to disseminate the findings widely, the final report and a summarised pamphlet were circulated electronically, on the PSAM website, and in hard copy to PSAM partners and stakeholders. In addition, a knowledge distribution event was hosted where local community members, government officials, councillors, ward committees, and local CSOs, NGOs and CBOs were invited to exchange information and gather knowledge from each other. The findings were presented at an international conference, published in the local newspaper, and are currently awaiting a decision on publication by an academic journal.

The second case study analysed social accountability monitoring of the Eastern Cape Department of Education by the PSAM and mainstream media. It provides an in-depth analysis of the work of the education programme within PSAM and a study of newspaper coverage of education in the Eastern Cape with the aim of providing a better understanding of the role of civil society and the media in social accountability monitoring.

The findings have been presented at an international conference, as well as a local conference, and the final research report is scheduled for dissemination across a range of platforms during March 2018. The research will also be drafted into an academic article for publication in 2018.

The Monitoring and Advocacy Programme (MAP) of the PSAM liaised during 2017 with the provincial office of the South African Human Rights Commission (SAHRC) and then developed a draft memorandum in September 2017. With a particular focus on the areas of education and health, the
MoU will attempt to support engagement and oversight within the provincial administration.

In July and December 2017, the Local Government Budget Brief and Strategic Plan Evaluation (SPE) were respectively produced and used in direct engagement with municipal duty bearers, citizens and local CSOs.

The efforts of PSAM’s environmental governance researcher, Nicholas Scarr remain centred on advocacy aimed at eliciting appropriate outcomes in regulatory scenarios, and, in the process, entrenching sound generic State agency decision-making and law enforcement frameworks. Interventions were effected in seventy-one (71) different situations, with emphasis being placed on activities which have the potential to impact negatively on the integrity of South Africa’s coastal zone. Nicholas Scarr has continued during 2017 to contribute to coastal management solutions in the Eastern Cape through his presence on the Provincial Coastal Committee.

During September 2017 the PSAM also engaged with the Open Government Partnership (OGP) by contributing to the Independent Reporting Mechanism (IRM) Progress Report for 2016 - 2018. PSAM provided input on engagements between the National Treasury and CSOs in relation to Commitment 2 of SA’s 3rd Country Action Plan: Open Budgeting. Leveraging a range of opportunities to interrogate and support OGP initiatives has created additional scope to engage with key decision and policy-makers in other government departments.

During 2017, the PSAM monitored and/or presented submissions during parliamentary meetings, resulting in a high number of submissions including inputs on the National Health Public Health Institute of South Africa (NAPHISA) and the Communal Land Tenure Bill (CLTB). In alignment with PSAM objectives of fostering collaborative work and sustaining budget advocacy, Zukiswa Kota facilitated the development of a CSO Medium Term Budget and Policy Statement (MTBPS) and joint media commentary. This included the production of a written submission by a range of organisations which was presented before Parliament’s Standing and Select Committees on Appropriations which was televised on 24 November 2017.

1 The PSAM is currently awaiting the approval of the most recent draft from the SAHRC
2 A state-civil society platform provided for in the Integrated Coastal Management Act (ICMA)
3 The latter was informed in part by ongoing MAP research and engagements with the Eastern Cape Department of Human Settlements looking at title deed and access to housing and presented a valuable opportunity to connect with sector experts such as Dr Rosalie Kingwill and Professor Ben Cousins. Examples are noted in the MAP Lograme and include submissions presented in partnership with CSO experts with varied backgrounds as a means of strengthening advocacy messages and building partnerships.
4 This included the Rural Health Advocacy Project, Section 27, Equal Education, The Studies in Poverty and Inequality Institute, PSAM and the National Shelter Movement.
Supporting research and advocacy on budget transparency and open data is an important component across PSAM. Jay Kruuse, was lead researcher for the 2017 Open Budget Survey of South Africa which will culminate in the survey’s release in January 2018. Zukiswa Kota and Jay Kruuse are members of the Steering Committee and Operational Working Group that are assisting in the creation of an online budget data portal spear-headed by the South African National Treasury. The PSAM has also been central to the creation of a CSO coalition called IMALI YETHU whose mandate is to promote public participation in the development of the online budget data portal. Activities in 2017 included facilitating the naming of the portal, budget outreach meetings as well as bilateral meetings with CSOs. PSAM has also sought to use its stewardship within GIFT to strengthen public participation in the development of the budget portal.

The PSAM’s Health Budget Brief and Education Expenditure Tracking Report were produced in December 2017.

PUBLICATIONS

Books/Chapters/Monographs


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


Peer Reviewed Subsidy-Earning J ournal Research Publications

Mr Thomas Penlington, Director: RUMEP

Ms Gomolemo Dithebe presenting her research paper at the How I teach conference in Kuruman.

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RHODES UNIVERSITY RESEARCH REPORT 2017 AFFILIATES, INSTITUTES & UNITS INDEX

During the year, the RUMEP staff were engaged in a number of research and capacity building activities. Three (3) staff members participated in the 25th SAARMSTE Congress in January in Bloemfontein where two (2) short and one (1) long paper were presented.

Mr Tom Penlington and Dr Clemence Chikiwa acted as editors for the 25th AMESA Congress held in Port Elizabeth in July, which was attended by over eight hundred (800) delegates from all over South Africa and beyond. One of the keynote speakers at the conference was Professor Nosisi Feza from Central University of Technology, one of the first alumni students to graduate at RUMEP more than twenty (20) years ago.

Two (2) “How I teach conference” presentations by our final year students took place in September and October 2017. The first group, all from the Northern Cape, presented their research papers in Kuruman, while a further twenty-five (25) students presented their papers in Grahamstown. The standard of presentations was extremely pleasing considering that our research coordinator resigned from RUMEP at the end of July.

RUMEP is constantly being asked to train Mathematics teachers from different districts of the Eastern Cape and this is affirmation of the quality of the professional development work that RUMEP produces. Training sessions were held in Mafikeng, Bizana and Mount Frere.

Postgraduates / Graduations

RUMEP graduated a cohort of forty-five (45) students. Three (3) final year BEd students, two (2) from the Northern Cape and one (1) from the Eastern Cape namely, Mr Tapiwanashe Manyumbu, Ms Martha Munetsi and Ms Caroline Muchineripi all graduated with distinction.

Distinguished Visitors / International Visits

Dr Matthias Ludwig, the Project Manager of The MathCityMap Project, from Goethe University, Frankfurt visited RUMEP in July and worked with our BEd 1 students by introducing a fun mathematics trail around the St Peter’s campus.

The MathCityMap Project involves using mobile technology such as a smart phone and the app leads students via GPS to a series of mathematics tasks which gives automatic feedback to the user. In addition the app provides hints in case one gets stuck on a certain problem.

The MathsCityMap Project helps students explore, discover, enjoy and celebrate maths concepts and problems in real world contexts. These types of activities stimulate engagement and foster enthusiasm for mathematics.

Mr Thomas Penlington, Director: RUMEP
Concerts, Exhibitions, Performances, Workshops, Events


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


A team from NRF-SAIAB with colleagues from Addo Elephant National Park seine netting on the Wit River. Photo: Olaf Weyl.

Altogether ten (10) BSc Honours, thirty-two (32) MSc and twenty-five (25) PhD projects were undertaken in 2017, a fine achievement by a staff of only eight (8) full-time scientists and a small cohort of Postdoctoral Research Fellows.

In addition, twenty (20) students received their Postgraduate degrees in 2017. Of a total of twenty-seven (27) projects/programmes conducted in 2017, fourteen (14) were linked primarily to the Molecular Biology & Systematics focus and thirteen (13) dealt mainly with Conservation Biology & Ecology issues.

The Acoustic Tracking Array Platform (ATAP) continues to show growth in terms of the numbers and diversity of animals tagged with acoustic transmitters in southern African coastal waters. The ATAP also featured on the front cover of African Journal Marine Science and included an article by Professor Paul Cowley and his team that reflected on the first five (5) years of this internationally recognised research platform.

NRF-SAIAB’s biotelemetry researchers initiated two (2) exciting new projects in 2017. The first, in collaboration with researchers from ORI, aims to unravel one of David Attenborough’s Blue Planet mysteries on giant kingfish that frequents the Mtentu Estuary. The other addresses a knowledge gap on the movement ecology and migrations of several stingray species, including duckbill, diamond and blue stingrays.

Professor Alan Whitfield’s - who is due to retire soon - two (2) MSc students; Nokubonga Mbandzi, who investigated the link between river flow and the abundance of two zooplanktivorous fish species in the Kariega Estuary, and Melissa Pollard, who studied the use of different types of litoral habitats by fishes in the Knysna Estuary using an underwater GoPro camera, successfully submitted their theses during the year.

Mandla Magoro is busy writing up his PhD on the ecology of Eastern Cape coastal micro-outlets and micro-estuaries, and he will be handing in his thesis for examination in the first half of 2018.

Professor Whitfield published a number of important global and local review papers on fishes in estuaries during the year and is finalising a revision of his 1998 monograph on the biology and ecology of fishes in southern African estuaries, a major work that will be published in second half of 2018.

Dr Nikki James and her research team continued their research into the impact of climate change (extreme events, pH and temperature) and exploitation on fish communities and the relative value of different nursery habitats for coastal and estuarine fish species. This research expanded into the inshore areas of Algoa Bay, with two (2) PhD students Phakama Nodo and Carla Edworthy starting their PhD projects in 2017.

Phakama is assessing the use of nearshore and estuarine nursery habitats by early juvenile demersal fish species in Algoa Bay and Carla is monitoring ocean acidification in the Bay and looking at how life-history determines the response of fish species to ocean acidification.

A highlight for the year was seven (7) presentations delivered by the team at the South African Marine Science Symposium, with two (2) students Bernard Erasmus and Carla Edworthy being awarded first and second prizes for the best student presentations, respectively.

Notable progress in the development of deep-water baited remote underwater stereo-video systems (stereo-BRUVs) under the leadership of Dr Anthony Bernard was achieved in 2017. These BRUVs can be used to survey benthic and demersal fishes from the outer edges of the continental shelf down into the bathyal zone.

Firstly, successful fish community surveys of the Wright Canyon and the adjacent shelf-edge and slope were undertaken in the iSimangaliso Wetland Park marine protected area. Calm oceanic conditions allowed for sampling between seventy
The major research focus for Dr Gavin Gouws during 2017 was the study of phylogeography and diversity of freshwater crabs in the under sampled eastern part of South Africa, supported by the extension of an NRF-CPRR programme.

Research investigating the connectivity of marine fishes between the east coast of South Africa and Madagascar on the ACEPIII Suitcase Project was concluded, with new projects incorporating estuarine fishes being initiated.

The large collaborative FIBP “SeaKeys; Unlocking Foundational Marine Biodiversity Knowledge” programme, under which NRF-SAIAB led the DNA barcoding, drew to a close.

Collaborative research on goatfish systematics and taxonomy with Dr Franz Uiblein continued through 2017.

Students; Bruce McClure and Frankie de Beer both registered to continue their research on freshwater crabs, as did Martinus Scheepers with his MSc on paternity and mating strategies in clind fishes. Yonela Sithole submitted a successful MSc thesis on the systematics of the undulated moray eel (Gymnothorax undulatus), and Sibusiso Yokwana started an MSc study on the genetic stock structure of blue bream (Pachymetopon aeneum).

Professor Olaf Weyl’s research produced thirty-three (33) papers, one (1) book chapter and graduated five (5) PhD and three (3) MSc students.

Research successes were in the three (3) core areas: conservation biology, invasions, freshwater ecology and inland fisheries.

During 2017, research on larval ecology by the Coastal and Ocean Sciences Team (COST) led by Dr Francesca Porti focused on mainly two (2) systems, coastal environment rocky shores (natural and man-made) and mangroves. Larval distribution and settlement/recruitment of invertebrates has been investigated in relation to prevailing winds, under the broader project funded by the African Coelacanth Ecosystem Programme (ACEP) on the pathways of larval dispersal. The role of mangrove microhabitats as nurseries for fish and invertebrate larvae is also one of the main projects initiated during 2017. Most samples have been collected and laboratory analyses are currently underway. Physiological experiments on larval metabolism have been initiated, while bacterial metabolism from mangrove substrates are also being investigated.

A paper in the journal Conservation Biology highlighted the role of man-made impoundments as refugia for native fishes in water stressed regions. This role is becoming increasingly important as the increasing demands on water can result in complete dewatering of rivers during water stressed periods, such as the current drought in the Western Cape. The group also published a review of the biology and status of Cape Fold Ecoregion freshwater fishes which will provide a basis for directing future research and conservation efforts in this important biodiversity hotspot.

In the field of invasion biology, the research group contributed to the development of a new metric to understand and predict the ecological impacts of existing, emerging and future invasive alien species. Two (2) major reviews were also completed to better understand invasion status and impacts of brown trout and redclaw crayfish in Africa.

In the fields of freshwater ecology and inland fisheries, the works by PhD graduates Geraldine Taylor and Richard Peel have contributed to a better understanding of how to analyse and interpret food webs in the large floodplain ecosystems. Inland fisheries research has also progressed well and several research papers were published describing inland fisheries in South Africa and created a better understanding of the link between low initial population sizes and the ultimate success of fishes that are important in fisheries. This research also contributed to developing a better understanding of how to manage fisheries for species that also have biodiversity impact.

During 2017 NRF-SAIAB and SANBI jointly coordinated the reassessment of the conservation status and extinction risk for all freshwater fishes of South Africa according to the latest IUCN Red List Categories and Criteria. A decision was made to include all recently identified genetic lineages in published literature, even before they are formally described, to guide the development and implementation of appropriate conservation management strategies. Each species assessment was reviewed by at least two experts to ensure that the IUCN criteria had been followed and applied correctly, and that all relevant information was presented.

During the year, researchers from Ezemvelo KZN Wildlife and NRF-SAIAB, led by Dr Albert Chakona, also documented the

This species was originally described based on specimens that were collected from the uMkhomzana River in KwaZulu-Natal in 1938. However, subsequent surveys failed to find specimens of the Maloti minnow in the uMkhomzana or elsewhere in South Africa. The species was therefore declared extinct in South Africa. For a long time, extant populations of this species were considered to be confined to various streams in the Lesotho Highlands. The rediscovery of the Maloti minnow after almost eighty (80) years since the original collections were made from South Africa is significant, because it is the first record of the species from the Mzimkhulu River system. This confirms the assertion that this species is likely to have been previously widely distributed in the Drakensberg streams of KwaZulu-Natal prior to human impacts. The rediscovery of the Maloti minnow creates obligations and responsibilities for all parties involved, especially the conservation authorities responsible for the area, to implement measures that will prevent loss of this species in South Africa.

In conclusion, the productivity of NRF-SAIAB research staff, students, Postdoctoral Research Fellows and Honorary Research Associates continued at a high level during 2017, with a record one hundred and sixteen (116) ISI rated scientific papers and four (4) other peer-reviewed papers being published.

It was also a bumper year in terms of conference and symposium papers, with ninety-one (91) delivered at a wide variety of national and international venues.

In addition to the above more formal activities, our scientists continue to communicate information about their research for use by managers, scholars and the wider public. This is evidenced by the sixteen (16) seminar and workshop presentations, fifteen (15) public presentations delivered, and twenty-one (21) research related popular articles produced by NRF-SAIAB staff during 2017.


Cowley, P.D.


Cowley, P.D. and Bennett, R.H.


Cowley, P.D. and Whitfield, A.K.


du Preez, L.H.


Ebert, D.A.


Ebert, D.A. and Gon, O.


Elender, B.R., Wasserman, R.J., Chakona, A., Skelton, P.H. and Weyl, O.L.F.


Gouws, G.


Gouws, G. and Cowley, P.D.


Hugo, S.


Jackson, M.C. and Weyl, O.L.F.


James, N.C.


James, N.C. and Whitefield, A.K.


Phakama Nodo, MSc student from Walter Sisulu University is studying fish communities of the Kariega River.

Photo: Ryan Palmer.

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