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PREFACE

One of the core goals of a university is to produce knowledge, a public responsibility that Rhodes University takes seriously. Accordingly, we strive to stimulate and facilitate imaginative and rigorous research of all kinds (fundamental, applied, policy-oriented, etc.), and in all disciplines and fields.

Although we are the smallest university in South Africa (only 6 069 students in 2007), the student profile and research outputs (publications, Masters and Doctoral graduates) of Rhodes ensure that we occupy a distinctive place in the overall South African higher education landscape. For one, 1497 (almost 25%) of Rhodes’ students are postgraduates. The fact that they hail from a large number of countries helps to ensure that Rhodes is a cosmopolitan and fertile environment of thinking and ideas. For another, Rhodes has among the best research outputs of South African universities, a testimony to the dedication and passion of its academics, postdoctoral scholars and senior postgraduates for research, and the University’s commitment to nurturing and cultivating knowledge production of all kinds.

During 2007, Rhodes academics wrote or contributed towards 17 books, 76 chapters in books or monographs, 437 journal papers, and 603 papers at local and international conferences. 170 students graduated with Masters degrees and 48 with doctorates. It was an especially outstanding and productive year for the Science Faculty, which produced 33 doctoral graduates and 66 Masters graduates. In addition, the first PharmD students graduated from the Faculty of Pharmacy.

Many of Rhodes’ academics, departments and centres and institutes are at the cutting-edge of research and are helping to advance the frontiers knowledge in a number of disciplines and fields. Significant achievements include: the award of prestigious National Research Foundation Research Chairs to Professors Nyokong (Chemistry) and McQuaid (Marine Science); the housing of a new nanotechnology centre at Rhodes; the contribution of Rhodes academics and graduates to the SKA initiative; and the continued attraction of research funding from a variety of international and national research agencies and industry. Rhodes postgraduates continue to excel in winning prestigious international and local scholarships, including Rhodes (Oxford), Mandela Rhodes, Flanagan, Commonwealth and Fulbright.

Rhodes possesses an admirable research milieu and culture that provides the space for intellectual development, debate and the flourishing of ideas. This is evidenced by the large number and diversity of conferences, seminars and public lectures that are held annually, the important contributions that a number of academics make to national public debate, enhancing the visibility of Rhodes in the intellectual life of South Africa, and the quality of local and international academics that visit Rhodes. A Mellon Foundation supported initiative, which the University seeks to expand, exists to cultivate a new generation of researchers and especially provide opportunities for aspiring women and black researchers.

In closing, the University takes pride in its research ethos and remains committed to maintaining its distinctive position and contribution in the domain of research and knowledge production.

DR SALEEM BADAT
VICE-CHANCELLOR
INTRODUCTION

For the past 8 years Rhodes University has maintained a research output record (based on publications and Masters and PhD graduates) which has placed it consistently amongst the top three universities in the country on the basis of outputs per capita academic staff member. The past year was no exception. Journal publications were the highest to date (261.9 units) and Masters and PhD graduates (274 units) are amongst the highest achieved, largely due to the record number of PhD graduates (33) in the Science Faculty. In recent years this per capita output has consistently been over 60% higher than the national average.

An encouraging aspect of the journal publications in 2007 is the increase in the percentage of articles in subsidy earning journals. While it is appreciated that the most appropriate journals in certain fields of research are not always those that are on the Department of Education’s approved lists, it is financially critical to the University’s research effort and the University as a whole that subsidy earning outputs are maximised. Another positive outcome of the most recent audit of Rhodes’s research outputs (2006; 2007 data will only be available at the end of 2008) is that 89% of the publications in the form of books, chapters and conference proceedings submitted to the Department of Education were approved for subsidy. This is a significantly higher percentage approval than in the past.

The award of two highly prestigious NRF/DST Research Chairs to Profs Tebello Nyokong and Christopher McQuaid as part of the first round of the SA Research Chairs Initiative was another major achievement. These Chairs will significantly enhance the research profile and productivity of the University as will the recent award of the highly prestigious Centre of Excellence in Nanotechnology to be headed by Prof Nyokong. Only three such centres of excellence have been established and were officially launched by the Minister of Science and Technology in November 2007. The Centre will be host to researchers from throughout South Africa and will focus on novel technologies for cancer treatment and the development of new biosensors for disease treatment and water contamination.

An encouraging statistic recently released by the National Research Foundation indicates that Rhodes has the fourth highest percentage (15.4%) of rated researchers in the country which is an excellent achievement. NRF ratings are awarded to researchers in all disciplines who are regarded as national and international leaders in their fields. Amongst these researchers, three were also recognised by the University and were awarded the Vice-Chancellor’s Research Awards (see highlights section).

Postgraduate students have once again been the cornerstone of much of the research activities in all Faculties and have contributed significantly to the research outputs of the University both as co-authors on publications and through the good graduation rates of Masters and PhD candidates. This is particularly evident for example in the Science Faculty, in which Masters and Doctoral students contributed to over 90% of the Faculty and 60% of the University’s outputs. A key factor in the high profile and success of postgraduates at Rhodes is the excellent supervision they receive and all supervisors are to be congratulated for their dedicated approach to what has become an increasingly onerous academic responsibility. They and the Research Office have benefited enormously from the very able support of the Postgraduate Liaison Committee chaired for a second year by Dan Parker. The work of this committee is highly valued.

Finally, this will be my last contribution to the annual Rhodes Research Reports as I will be retiring at the end of 2008. I would like to wish my successor with responsibility for Research at Rhodes, the new DVC: R&D Dr Peter Clayton, every success in the future which I am confident will see research at the University going from strength to strength. I would also like to take the opportunity to express my sincere and grateful thanks to all those who have supported me and contributed to the success of Rhodes research in my past 10 years as Dean.
of Research. This includes two Vice-Chancellors, members of Senior Management, Deans, Heads of Department and staff and postgraduate students in both academic departments and administrative divisions. In particular, a very big thank you to all the staff who have worked in the Research Office and have made such a significant contribution over this past decade. Special mention must be made of my first Assistant, Moira Pogrud, who was instrumental in the establishment and success of the Research Office from its inception in 1998. She gave true meaning to the word efficiency and her outstanding contribution is being continued by the excellent work of her successor, Dr Heather Davies-Coleman. John Gillam has been a tower of strength in the management and administration of postgraduate financial aid and has been an invaluable advisor and confidant to countless postgraduate students over this period.

Good luck to all of you in your future research efforts.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH
RESEARCH HIGHLIGHTS

Research outputs in 2007 were the highest to date giving a per capita academic staff member capita which continues to be amongst the highest in the country and 60% higher than the national average (1.8 units per academic compared to a national average of 1.1 and national target of 1.25). The annual research output in terms subsidy units has in fact increased from 346 in 2003 to 540 in 2006 (2007 audited data not released to date). Statistics recently released by the National Research Foundation (NRF) show that Rhodes also has the fourth highest percentage (15.4%) of rated researchers in the country, which is an outstanding achievement.

A highlight of the year was the award of two highly prestigious NRF/DST Research Chairs to Professors Tebello Nyokong and Christopher McQuaid as part of the first round of the SA Research Chairs Initiative. These Chairs are awarded for five years, with possible renewable for a further 10 years, and have a financial value of R2.5 million per year. Prof Nyokong also led a consortium of researchers from Rhodes who were awarded a Centre of Excellence in Nanotechnology Research.

Researchers recognised by the University for their outstanding achievements in research were Prof Izzy Kanfer (Pharmacy), Vice-Chancellor’s Senior Research Award, Dr Jo Burgess (Biochemistry, Microbiology and Biotechnology), Vice-Chancellor’s Research Award and Prof Brenda Schmahmann (Fine Art), Vice-Chancellor’s Book Award.

Other notable achievements were:
- SA Chemical Institute Gold Medal awarded to Prof Perry Kaye
- Zoological Society of SA Gold Medal awarded to Prof Alan Hodgson
- Hugh le May Research Fellowship in Humanities awarded to Prof Gareth Griffiths (Australia) in the Department of English
- Hobart Houghton Research Fellowship in Economics awarded to Prof Colin White (Australia)
- DAAD competitive funding of over R1M for a Geological analytical scanning electron microscope system.

Research funding from internal, funding agency, science councils, government and industry/commerce continues to increase substantially and amounted to approximately R70M in 2007. In excess of 50% of this is sourced from the industrial and business sector.

In terms of postgraduates, over 23% of the student body in 2007 were postgraduates in comparison to 17% in 1998 and over 800 bursaries and scholarships to a value of R13 million were awarded to these postgraduates. Rhodes students who were recipients of prestigious postgraduate scholarships were Miss Parker (Flanagan), Miss Holness (Abe Bailey Travel Bursary), Miss Green, Miss Jobson and Mr Craig (Rhodes Scholars studying at Oxford), Ms Green and Mr Chigwamba (Mandela Rhodes Scholarships). Postgraduate activities were again very well supported by the Postgraduate Liaison Sub-committee who’s Chair, Dan Parker, was recently awarded his PhD and is to be congratulated for his recent appointment as a Lecturer in Zoology.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH
ACADEMIC DEVELOPMENT CENTRE

This year saw members of staff from the Academic Development Centre co-publishing work on teaching and learning with members of staff from other departments. Dina Belluigi and Lynn Quinn achieved a publication in a special edition of the journal Education as Change with members of the Faculty of Pharmacy and Liz Sayigh co-published with Jen Snowball of the Department of Economics in the South African Journal of Higher Education. This is an important step because teaching and learning holds the potential to open up an additional area of research for many academics.

The Centre continues to enjoy success in the supervision of postgraduate students. At the 2007 graduation ceremony, three students supervised within the ADC received PhD degrees. In addition, nine students graduated at honours level with the Postgraduate Diploma in Higher Education.

PROFESSOR CHRISSIE BOUGHEY
DIRECTOR

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Boughey,C.


Quinn,L and Belluigi,D

Sayigh,E
Snowball,JD and Sayigh,E. “Using the tutorial system to improve the quality of feedback to students in large class teaching”. South African Journal of Higher Education. 2007. 21(2),321-333.

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Belluigi,DZ


Chibaya,C

Hlengwa,A.I
Mostert,M and Quinn,L

Reynolds,JM


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. South African Conferences

Belluigi,DZ

Chibaya,C

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TOTAL FOR ACADEMIC DEVELOPMENT CENTRE 2.90

POSTGRADUATE SUBSIDY UNITS *

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
ACCOUNTING

The Department of Accounting continued to develop its research profile in 2007. Lilla Stack serves as Extraordinary Professor at the University of Pretoria and acts as supervisor to their staff members pursuing doctoral studies. Lilla is also responsible for the course in research methodology and design and the two research based postgraduate courses in the department. She continues to serve as a member of the Special Consumer Court and also sits on the Advisory Board to the Financial Services Board and the Board and Audit and Finance Committee of the Water Research Commission. Both Kevin Maree and Lilla Stack had jointly authored articles accepted and published in the profession’s journal, ‘Meditari Accountancy Research’. Lilla’s article dealt with the recognition of intangible assets, while Kevin’s dealt with factors affecting the ethical judgement of SA chartered accountants.

Matthew Lester continues as a popular lecturer on taxation issues to a wide audience around the country and acts as advisor to the Commissioner for Inland Revenue. He continues to write a weekly column for the ‘Business Times’. Matthew also presents the annual income tax update offered by the South African Institute of Chartered Accountants. Mark Bunting is set to produce the 2008 edition of his text book on financial reporting in South Africa. The book has gained wide acceptability. Unfortunately, Mark has resigned with effect from the beginning of 2008 to join the prestigious International Accounting Standards Board in London. While this represents a loss to the Department, it will be good to have him at a centre of a standard setting body for the profession. Richard Poole returned from sabbatical mid-year with an article in the final stages of preparation. The article deals with the income tax and VAT impacts upon bad debts and provisions for doubtful debts.

Lilla Stack, Richard Poole and John Williams all presented papers at the South African Accounting Association regional conference held at the Fish River from 14-15 September 2007. Lilla Stack, Mark Bunting, Kevin Maree, Jonathan Lancaster and John Williams all continue to serve on the East Cape regional committee of the SAAA.

PROFESSOR KEVIN MAREE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Bunting,M

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Maree,KW

Stack,E

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Poole,R
Pretorius, J

Stack, EM


Williams, J

DISTINGUISHED VISITORS

Zeff, S
Professor S Zeff. Rice University, Houston, Texas, USA. Lectured Postgrads and Staff on Research in Accountancy. May - Jan 2007.

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<td>Seyfert, W, Rosenberg, D and Stack, E. “Increasing convergence between the recognition of an intangible asset for financial reporting purposes and strategic management accounting and project management techniques”. Meditari. 2006. 14(2),51-66.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
ANTHROPOLOGY

As Head of Department and external examiner for two universities, Robin Palmer has had little time for fieldwork or international travel but has otherwise been reasonably active. Co-written papers have been published by the journals *Agrekon* and *Safundi*, and a single-authored article in *Anthropology Southern Africa*. He also published a single-authored chapter by invitation in an international book on immigrant entrepreneurs, published in the UK. He presented a paper in the local Current Anthropological Research Seminars (CARS) series and also at the annual conference of his professional association in Pretoria, to which he escorted three of his department’s postgraduate students who also read papers.

Chris de Wet continued with empirical research in the Keiskammahoek district of the Eastern Cape. He was an invited facilitator at an international workshop on population displacement at Oxford University in February, and also read papers at international conferences in Durban (June), Leiden (July) and Oxford again (December). He finalised three chapters for books which are forthcoming with overseas publishers, and a substantial article appeared in a major encyclopedia on Africa. Two of his thesis students graduated: one with a master’s (with distinction) and one with a PhD. He represented Rhodes University at a meeting of academics from the IBSA countries in late June 2007 in Durban to discuss ways to enhance interaction between Brazil, India and South Africa, and also represented Rhodes at a meeting of African and USA academics in Cape Town in October to discuss issues of academic collaboration.

Rose Boswell was on sabbatical leave from 1 July 2007 to 1 January 2008. In that time, she presented 3 papers internationally (two in the Netherlands and 1 in Mauritius) and two papers at national conferences (University of Witwatersrand in Johannesburg and University of Cape Town). She also completed her Dutch funded postdoctoral fieldwork on challenges to heritage management in Zanzibar (July 2007) and Mauritius (September-October 2007). In terms of publications, she edited her sole-authored book on heritage management and this is now in press with CODESRIA, Dakar. She also submitted seven other papers for publication in SAPSE accredited journals. One was published in *AGENDA* (feminist journal) in April 2007, three were accepted and will be published in 2008 and two were being reviewed at the end of 2007. She is still busy editing the seventh paper. In the department Rose was in charge of the logistics for the Current Anthropology Research Seminars (CARS), a forum which stimulates the presentation and discussion of research.

Penny Bernard published a paper in the inaugural issue of the international *Journal for the Study of Religion, Nature and Culture* in March. After an intensive teaching first semester, she went on sabbatical for the remainder of the year to write up her Ph.D. on water divinities and diviners in southern Africa.

During her sabbatical in the first semester Joy Owen wrote and presented a paper at NEWSA in Vermont (April) and she completed the writing of a single authored article for *Anthropology Southern Africa*. She also brought her doctoral research on Congolese migrants and refugees full circle, by making a short, but successful, fieldwork trip to Kinshasa, DRC in September.

As a final-year doctoral candidate at the University of the Witwatersrand, Detlev Krige devoted most of his time when not teaching undergraduates to the supervision of student projects and completion of his doctoral thesis. During 2007 he presented two papers at international conferences in Leuven and Johannesburg, both of which will be published in the upcoming year (one as journal article and one as chapter in an edited conference volume). He also presented two other research papers from his doctoral work on the popular economies of Soweto at local seminars, one at Rhodes Anthropology’s Current Anthropological Research Seminars (CARS) and one at the Wits Interdisciplinary Research Series (WIRS). In addition, he submitted an article for the newly launched South African journal *Ikamva - Journal of Social Sciences and Humanities*. Detlev is starting a new research project in 2008 on pyramid schemes in South Africa.

Thanks to Chris de Wet’s efforts as supervisor in both cases, the department graduated a master’s and a doctoral student in 2007, the master’s *cum laude*. Another master’s student’s thesis that will count as a 2007 output is still with her examiners.

PROFESSOR ROBIN PALMER
HEAD OF DEPARTMENT
BOOKS/CHAPTERS/MONOGRAPHS

deWet, CJ


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bernard, PS


Boswell, MJR and Barbali, S


Palmer, N & R


Palmer, R


OTHER PUBLICATIONS

Palmer, R


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<td>Getting your own back: Land restitution among the Oneida Indians of North America and the Tsitsikamma Mfengu of South Africa</td>
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TOTAL FOR ANTHROPOLOGY: 1.54

POSTGRADUATE SUBSIDY UNITS *

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TOTAL: 1

* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
BIOCHEMISTRY MICROBIOLOGY & BIOTECHNOLOGY

The research activity of the department in 2007 resulted in a crop of 30 peer-reviewed articles in journals and 15 conference proceedings, from a total of 60 research outputs, including two patents. The department will be graduating 8 MScs and 11 PhDs in April 2008 and registering eight new MScs and PhDs in 2008. Following a successful application to the NRF National equipment programme, the Rhodes-NRF Regional Confocal Microscopy Facility was established with the installation and commissioning of a Zeiss LSM510 Meta laser scanning confocal microscope in July 2007. The facility also includes an adjoining P2 tissue culture laboratory and bench space for the preparation of samples by local users and visiting researchers. The facility has already hosted two hands-on training workshops attended by eight local and visiting researchers with the first manuscript with data from the facility accepted for publication during 2008.

Several staff members have had very active research years. Professor Whiteley spent the year on sabbatical leave at South China University of Technology in Guangzhou developing international research collaborations. Miss Yageshni Govender completed her MSc on the factor that enzymatically synthesized platinum nanoparticles. Both Mr Nemukula (MSc) and Mr Mutanda (PhD) completed their degrees on the enzymatic synthesis of health promoting fructooligosaccharides. The engagement of the department with various sectors of the business community continued with Dr Brendan Wilhelm, who initiated a research project with the National Horseracing Authority Laboratory, and Dr Jo Dames who has written several popular articles for Landscape SA and Farmers Weekly on topics in agricultural microbiology / biotechnology.

Prof. Greg Blatch’s Chaperone Research Laboratory continued to contribute enormously to the department’s research. The year started with the return of Dr Victoria Longshaw from a productive 6-month visit (Aug 2006 - Jan 2007) to the laboratory of our University of Liverpool (UK) collaborators Dr Patricia Murray and Prof David Edgar (NRF-Royal Society collaborative grant). Mr Mokgadi Setati spent 6 months in the same laboratory (Mar-Aug 2007) generating valuable data towards his MSc thesis. Greg was invited to present a talk at the Queenstown Molecular Biology (QMB) Meeting, Queenstown, New Zealand (Aug-Sept 2007), Dr Addmore Shonhai was invited to present a talk on his research at the National Malaria Conference (Durban, June 2007), while Mr Setati, Ms Sheril Daniel and Dr Longshaw all presented talks on their research at the Eastern Cape SASBMB Symposium, held at the Katberg Hotel (October 2007). The year ended on a high note when three postdoctoral fellows in the group (Dr Eva-Rachele Pesce, Dr Earl Prinsloo, and Dr Addmore Shonhai) were awarded Claude Leon Foundation Postdoctoral Fellowships to continue with their research for the period 2008-2009. Prof Greg Blatch received the VC’s Distinguished Senior Research Award at the 2007 graduation ceremony, and Dr Jo Burgess was nominated for the VC’s Distinguished Research Award, with which she will be awarded at the 2008 ceremony.

Dr Brett Pletschke presented a paper on the effect of sulphur and other key metabolites of anaerobic digestion on cellulosomal and non-cellulosomal endoglucanase activities at a Gordon Research Conference on "Cellulases and cellulosomes" at the Proctor Academy in Andover, New Hampshire, U.S.A. on July 29 - Aug 3, 2007. Dr Pletschke and his cellulosome research group is currently actively collaborating with research groups in the U.S.A., France and Japan on the role of multi-enzyme complexes in the production of biofuels. Together with Prof Nyokong of the Chemistry Department, Dr Limson's group has been engaged in the establishment of the DST Mintek Nanotechnology Innovation Centre at Rhodes University. The use of nanostructured materials in the development of biosensors in our research group in 2007 has added a new dimension to this burgeoning field.

PROFESSOR ROSEMARY DORRINGTON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Blatch,GL

Daniel,S, Bradley,G and Blatch,GL

Whiteley,CG

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barbosa,VL, Tandlich,R and Burgess,JE
Barbosa,VL, Tandlich,R and Burgess,JE. “Bioremediation of trace organic compounds found in precious metals refineries wastewaters: a review of potential applications”. Chemosphere. 2007. 68(7),1195-1203.

Botha,M, Pesce,E-R and Blatch,GL

Brimecombe, RD and Limson, JL

Dairam,A and Limson, JL

Müller,AC, Dairam,A, Limson, JL and Daya, S. “Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid”. Life Sciences. 2007. 80(10),918-925.

Dobson, RS and Burgess, JE

Dorrington, RA


Fogel,R and Limson, J

Leukes, W


Strong, PJ and Burgess, JE


Togo, CA, Wutor, VC, Limson, JL and Pletschke, BI


Tomasicchio, M, Venter, PA and Dorrington, RA


van Breugel, Y


Whiteley, CG


Wutor, VC, Togo, CA and Pletschke, BI

Wutor, VC, Togo, CA and Pletschke, BI. “The effect of physico-chemical parameters and chemical compounds on the activity of β-d-galactosidase (B-GAL), a marker enzyme for indicator microorganisms in water”. *Chemosphere*. 2007. 68(4), (Online).

Wutor, VC, Togo, CA and Pletschke, BI. “Comparison of the direct enzyme assay method with the membrane filtration technique in the quantification and monitoring of microbial indicator organisms - Seasonal variations in the activities of coliforms and *E. coli*, temperature and pH”. *Water SA*. 2007. 33(1), 107-110.

Wutor, VC, Togo, CA, Limson, JL and Pletschke, BI


OTHER PUBLICATIONS

Neba, A and Rose, PD


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Beukes, N and Pletschke, BI

Blatch, GL

Bradley, G

Burgess, JE

Daniel, S, Bradley, G, Longshaw, VM and Blatch, GL

Setati, MM, Longshaw, VM and Blatch, GL

Shonhai, A, Stephens, LL and Blatch, GL

Van Dyk, JS and Pletschke, BI
Van Dyk, JS and Pletschke, BI. "Isolation of a large multi-protein complex from Clostridium beijerinckii sLM01 and the effect of pH, temperature and thiols on xylanase activity”. 16th Biannual Symposium of the Eastern Cape Division of the SASBMB. Katberg Hotel, Katberg. South Africa. October 2007.

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Botha, M, Shonhai, A, Pesce, E-R, Bodill, T, Nicoll, WS and Blatch, GL

Burgess, J
Orr, K, Burgess, J and Froneman, PW. "Concentrations of heavy metals in the sediment and water of selected Eastern Cape (South Africa) estuaries”. 5th International Conference on Marine Pollution and Ecotoxicology. City University of Hong Kong, Kowloon. Hong Kong. June 2007.

Burgess, JE

Orr, KK, Burgess, JE and Froneman, PW. "The effects of mouth phase and rainfall on the concentrations of heavy metals in the sediment and water of select Eastern Cape estuaries, South Africa”. 5th International

Fogel,R and Limson,JL

Mack,CL, Wilhelmi,B and Burgess,JE

Mayende,L

Moore,BA and Burgess,JE

Ngwenya,N and Whiteley,CG

Nicoll,WS and Blatch,GL

Pletschke,BL

PATENTS (FINAL AND PROVISIONAL)

Dames,JF, Igbinigie,EE, Horan,MP, Rose,PD and Mukasa-Mugerwa,TT

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Burgess,JE


INTERNATIONAL VISIT

Limson, JL

Pletschke, BI
Pletschke, BI and Fierobe, HP. CNRS, Marseille, France. Short collaborative visit to the laboratory of Prof. Henri-Pierre Fierobe. 3 - 5 September 2007.

Whiteley, CG
Whiteley, CG. School of Bioscience & Bioengineering; South China University of Technology, Guangzhou, China. Collaborative research on the prokaryotic degradosome. Gave lecture courses on Enzyme Biotechnology & Enzyme Engineering. 1 June - 31 December 2007.

DISTINGUISHED VISITORS

Dirr, HW

Syldatk, C

Usdin, K

JOURNAL SUBSIDY UNITS

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<th>Author(s)</th>
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<tr>
<td>Barbosa, VL, Tandlich, R and Burgess, JE</td>
<td>Bioremediation of trace organic compounds found in precious metals refineries wastewaters: a review of potential applications</td>
<td>Chemosphere</td>
<td>2007</td>
<td>68(7)</td>
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<td>Brimecombe, RD and Limson, JL</td>
<td>Voltammetric analysis of the acaricide amitraz and its degradant, 2,4-dimethylaniline.</td>
<td>Talanta</td>
<td>2007</td>
<td>71</td>
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<td>Dairam, A and Limson, JL</td>
<td>Curcuminoids, curcumin and demethoxycurcumin reduce lead induced memory deficits in male Wistar rats</td>
<td>Journal of Agricultural and Food Chemistry</td>
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<td>Müller, AC, Dairam, A, Limson, JL and Daya, S</td>
<td>Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid</td>
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<td>2007</td>
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<td>Dobson, RS and Burgess, JE</td>
<td>Biological treatment of precious metal refinery wastewater: a review</td>
<td>Minerals Engineering</td>
<td>2007</td>
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<td>Dorrington, RA</td>
<td>Enhanced operational parameters for amino acid production using hydantoin-hydrolysing enzymes of Pseudomonas putida strain RUKM3s immobilised in Eupergit C</td>
<td>Enzyme and Microbial Technology</td>
<td>2007</td>
<td>40(4)</td>
<td>533-539</td>
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<td>Kirschmann, S, van Zyl, P, Brady, D, Abrahams, N, Rech, S, Dorrington, RA and Burton, S</td>
<td>A dual phase fermentation protocol for the production of hydantoinase and carbamoylase by the wild type Pseudomonas putida RU-KM3</td>
<td>Enzyme and Microbial Technology</td>
<td>2007</td>
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</table>
**Strong, PJ and Burgess, JE**


**Togo, CA, Wutor, VC, Limson, JL and Pletschke, BI**


**Tomasicchio, M, Venter, PA and Dorrington, RA**


**van Breugel, Y**


**Whiteley, CG**


**Wutor, VC, Togo, CA and Pletschke, BI**

*Wutor, VC, Togo, CA and Pletschke, BI.* “The effect of physico-chemical parameters and chemical compounds on the activity of β-d-galactosidase (B-GAL), a marker enzyme for indicator microorganisms in water”.  *Chemosphere.* 2007. 68(4),1512-1517.

**POSTGRADUATE SUBSIDY UNITS**

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**TOTAL FOR BIOCHEMISTRY MICROBIOLOGY & BIOTECHNOLOGY**  24.89
**2007 graduates. The record of 2006 graduates can be found in the Appendix.**

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<tr>
<th><strong>Strong</strong></th>
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**BOOKS SUBMITTED FOR POSSIBLE SUBSIDY**

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<td>Molecular aspects of the stress response: chaperones, membranes and networks, Advances in Experimental Medicine and Biology</td>
<td>Chaperones as parts of cellular networks</td>
<td>Blatch, GL</td>
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<td>Networking of Chaperones by co-chaperones</td>
<td>An Hsp70/Hsp90 CO-Chaperone that functions within and beyond Hsp70/Hsp90 Protein Folding Pathways</td>
<td>Bradley G, Blatch GL</td>
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BOTANY

In 2007 staff and students published or have in press 32 journal articles, several popular articles and three book chapters. The department is especially proud of articles that have been published in high impact factor journals and that have received international recognition. Staff and students presented papers at 11 international and 13 local conferences. The staff continued international collaborations with research trips overseas and the department received five international visitors. In 2007, the staff hosted five postdoctoral fellows and supervised 6 PhD and 7 MSc students. Two MSc and three PhD students will graduate with Botany degrees in April 2007.

Individual staff member’s achievements include:

Prof. BS Ripley: Research comparing grasses with differing photosynthetic physiologies produced several key publications and culminated with presentations at two meetings of the Society of Experimental Biologists in Cambridge and Glasgow. Highlights included demonstrating that drought, nutrient relations, fire and freezing sensitivity, and not only sub-atmospheric CO$_2$ concentrations, have likely contributed to the development of grasslands. The development of a National Ecological Research Council (NERC) and NRF funded common garden experiment comparing a further 12 grass species will ensure the continued viability of this research. Research by PhD student Matthew Gilbert on coastal dune plants published evidence for novel hypotheses about succession, plant growth strategies and the importance of low biomass in resource limited environments.

Prof. CEJ Botha: Professor Ted Botha was invited to return to the CSIRO Plant Industry in Canberra Australia, as a visiting specialist scientist, during September and October, to continue collaborative research using electron and confocal microscopy, on the function of the exchange processes in the rice leaf. The research undertaken during this six week visit, confirmed our earlier work, which suggested that molecules not expected to be transferred across cell boundaries can do so, and several research outputs, including a paper dealing with exchange processes in the vascular tissues of the leaf have resulted. The implications here are for a transmembrane exchange process involving complex membrane vesicles, and points to potential ‘recycling systems’, which may also include a possible transcellular virion movement mechanism in higher plants. The work has undergone peer review, and will be published later this year. A textbook, "Applied Plant Anatomy" has been published and the text is accompanied by a CD-ROM which contains a wealth of information about plant structure and function.

Prof NP Barker: This year was very productive, with no less than 12 peer-reviewed papers emanating from the Molecular Ecology & Systematics Group. Of these, the paper by Barker et al. on the molecular dating of the Proteaceae published in the Journal of Biogeography is an influential study on the biogeography of this ancient plant group. Despite the age of the family, it seems from this work that ancestors of modern Proteaceae spread to Gondwanaland’s continents via dispersal across oceans, rather than by means of in situ movement of continental plates. Dr Peter Teske, a post-doctoral researcher, published several papers on the genetic diversity of estuarine and marine taxa. These studies have shown the existence (and past effects) of barriers to gene flow along southern Africa’s coastline; findings of considerable conservation and management value, as well as of academic interest, as they suggest that the genetic diversity, and possibly species level diversity, is much higher than previously thought.

Dr S Vetter: Dr Vetter was on sabbatical leave for the first half of the year and spent time on her NRF-funded research project on the role of key resources in the Richtersveld and its implications for livestock population dynamics and biodiversity conservation and has successfully secured NRF funding to continue the project. At the Arid Zone Ecology Forum in Sutherland in September, Dr Vetter gave an invited keynote address and her students Martha Konje and Andrew Booth were awarded first and second prize respectively for the best poster presentation. She headed the organising committee of the Joint Congress of the Grassland Society of Southern Africa and the Thicket Forum which was held at Rhodes University in July. Susi successfully co-applied for SANPAD funding for a project titled ‘understanding modernized rural peoples’ cultural landscapes in the Eastern Cape” with Michelle Cocks (ISER) and Tony Dold (Botany / Schonland Herbarium) and two collaborators from Wageningen University in the Netherlands.

Mr CI Peter: Craig and his students continue to work on a variety of aspects associated with the pollination biology of Orchids and Asclepiads. One of the chapters of his PhD thesis has recently been accepted for publication in the journal Ecology. This research describes, amongst other things, the importance of flower colour in the Batesian mimic Eulophia zeyheriana. Craig used sunscreen to modify the UV reflective characteristics of flowers of this species, a treatment which significantly reduced the number of visits by
pollinators to the experimental flowers. He won a prize for the best oral presentation by a PhD student at the recent South African Association of Botanists conference for a presentation in which he describes other aspects of his PhD research where he confirmed Charles Darwin’s hypothesis about a mechanism that orchids and asclepiads possess to prevent self-pollination. Gareth Coombs, Craig’s MSc. student, won a prize for the best oral presentation by an MSc student and was runner up for the best young botanist award at the previous SAAB conference.

Mr. AP Dold: Tony Dold contributed to two chapters of the latest treatment of the Vegetation of South Africa, Lesotho and Swaziland published by the South African National Biodiversity Institute and collaborated with the University of Natal (Durban) co-authoring a paper on Hyacinthaceae. Further collaboration with Michelle Cocks (ISER) under the bio-cultural diversity conservation programme resulted in four conference presentations and five public presentations. Aspects of this work have recently been incorporated into the South African school curriculum in the natural sciences subjects. Taxonomic work in the Mesembryanthemaceae culminated in securing royalties for the cultivation and distribution of a species of *Delosperma* that has been introduced to horticulture worldwide.

Emeritus Professor RA Lubke: Prof Lubke presented papers at two international conferences in 2007. In February 2007 the annual International Association of Vegetation Science Conference was held at Massey University in Palmerston North, New Zealand. This was a notable meeting in that along with the two excursions (Pre and Post Conference) that introduced the diverse flora and vegetation of New Zealand and the problems of exotic invasion. He presented a paper on “The contribution of the short-lived perennials to the spontaneous rehabilitation of natural grasslands following clearing of invasive woody alien species in the Grahamstown area, Eastern Cape, South Africa”. In October 2007, Roy travel to Europe to attend the International Conference on Management and Restoration of Coastal Dunes in Santander (Spain) where he presented a plenary paper on “Restoration of Dune Systems following Mining: Studies from south-western Madagascar and south-western Namibia.”

**PROFESSOR BRAD RIPLEY**
HEAD OF DEPARTMENT

**BOOKS/CHAPTERS/MONOGRAPHS**

**Dold, AP**


**Dold, AP and Cocks, ML**

**van Eerden, JD and Lubke, RA**

**PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER**

**Ade-Ademilua, OE and Botha, CEJ**
Ade-Ademilua, OE and Botha, CEJ. "Sink to source transition of *Pisum sativum* leaves in relation to leaf plastochron index". *American Journal of Plant Physiology.* 2007. 2 (Online).
Barker, NP

Barker, NP and Fish, L. "Rare and infrequent southern African grasses: assessing their conservation status and understanding their biology". Biodiversity and Conservation. 2007. 16,4051-4079.

Barker, NP, Weston, PH, Rutschmann, F and Sauquet, H. "Molecular dating of the Gondwanan plant family Proteaceae is only partially congruent with the timing of Gondwanan break-up". Journal of Biogeography. 2007. 34,2012-2027.

Price, BW, Barker, NP and Villet, MH. "Patterns and processes underlying evolutionary significant units in the Platyleura stridula L. species complex (Hemiptera: Cicadidae) in the Cape Floristic Region, South Africa". Molecular Ecology. 2007. 16,2574-2588.

Teske, PR, Barker, NP and McQuaid, CD. "Lack of genetic differentiation among four sympatric southeast African intertidal limpets: Phenotypic (Siphonariidae) plasticity in a single species?". Journal of Molluscan Studies. 2007. 73,223-228.


Zardi, GI, McQuaid, CD, Teske, PR and Barker, NP. "Unexpected genetic structure of mussel populations in South Africa: indigenous Perna perna and invasive Mytilus galloprovincialis". Marine Ecology Progress Series. 2007. 337,135-144.

Barker, NP and Gilbert, M


de Wet, LR and Botha, CEJ


Dold, AP

Koorbanally, C, Sewjee, S, Mulholland, DA, Crouch, NR and Dold, AP. "Homoisoflavanones from Pseudoprospero firmifolium of the monotypic tribe Pseudoprosperae (Hyacinthaceae: Hyacinthoideae)". Phytochemistry. 2007. 68,2753-2756.

McKenzie, RJ and Barker, NP

McKenzie, RJ and Barker, NP. "Proposal to conserve Venidium semipapposum (Arctotis semipapposa) against Arctotis scabra (Asteraceae, Arctotideae)". Taxon. 2007. 56(4),1300-1301.

Papadopoulos, I and Barker, NP

Teske, PR, Papadopoulos, I, McQuaid, CD, Newman, BK and Barker, NP. “Climate change, genetics or human choice: Why were the shells of mankind's earliest ornament larger in the Pleistocene than in the Holocene?". Plos One. 2007. 7(e614), (Online).


Peter, CI

Ripley, BS and Gilbert, ME

Saheed, A, Botha, CEJ and Lui, L

Saheed, A, Lui, L and Botha, CEJ
Saheed, A, Lui, L, Jonsson, L and Botha, CEJ. “Xylem as well as phloem - sustains severe damage due to feeding by the Russian wheat aphid (Diuraphis noxia Mordvilko) in leaf blades of susceptible and resistant wheat (Betta and Betta-Dn1)”. South African Journal of Botany. 2007. 73(4), 593-599.

Teske, PR


Teske, PR, Lourie, SA, Matthee, CA and Green, DM. “Hippocampus queenslandicus Horne 2001 - a new seahorse species or yet another synonym?”. Australian Journal of Zoology. 2007. 55, 139-145.

Teske, PR and Barker, NP
Teske, PR, Hamilton, H, Matthee, CA and Barker, NP. “Signatures of seaway closures and founder dispersal in the phylogeny of a circumglobally distributed seahorse lineage”. Bmc Evolutionary Biology. 2007. 7(138), (Online).

Teske, PR and Papadopoulos, I
Edkins, MT, Teske, PR, Papadopoulos, I and Griffiths, CL. “Morphological and genetic analyses suggest that southern African crown crabs, Hymenosoma orbiculare, represent five distinct species”. Crustaceana. 2007. 80(6), 667-683.

Teske, PR, Papadopoulos, I and Barker, NP

Vetter, S

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Barker, NP

Behenna, M and Barker, NP
Behenna, M and Vetter, S

Booth, A and Vetter, S

Clark, VR and Barker, NP

Coombs, G, Mitchell, S and Peter, C1

De Wet, L, Peter, C1 and Barker, NP

Dold, AP


Dold, T

Frole, K and Ripley, BS

Gilbert, M and Ripley, BS

Saheed, SA and Botha, CEJ


Vetter, S


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Abraham, T and Ripley, BS


Barker, NP


Dold, AP


Gilbert, M and Ripley, BS


Konje, M and Vetter, S

Lubke, RA


McKenzie, RJ and Barker, NP

Ripley, B


Ripley, B, Gilbert, M and Frole, K

Ripley, BS and Gilbert, M

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Dold, AP


INTERNATIONAL VISIT

Botha, CEJ
Botha, CEJ. CSIRO Plant Industry, Canberra Australia, Canberra, Australia. Invited to return to continue collaborative work on the retrieval of solutes from the leaf blade apoplast in the rice leaf blade. A confocal microscope investigation which proved that molecules with a molecular mass exceeding 10KDa can be moved through by endocytosis, from the non-living xylem to living phloem parenchyma - when published this will have significant impact on our understanding of the physiology of solute exchange in leaves of higher plants. 12 September - 16 October 2007.
DISTINGUISHED VISITORS

Avise, JC  
Professor JC Avise. Georgia State University, Athens, Georgia, USA. Participated in workshop on phylogeography organised and hosted by NP Barker. June 2007.

Osborne, CP  
Dr CP Osborne. Sheffield University, Sheffield, UK. Research collaboration with Prof B Ripley. October 2007.

Rourke, JP  
Dr JP Rourke. Curator, Compton Herbarium (retired) Kirstenbosch Botanic Garden, Cape Town, South Africa. Presented the Schonland memorial lecture in October, the theme of which was the influence of Carl Linnaeus on the botany of South Africa. This talk was in celebration of the tercentenary of the birth of Linnaeus. October 2007.

JOURNAL SUBSIDY UNITS

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<tr>
<th>Author</th>
<th>Title</th>
<th>Journal</th>
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<tr>
<td>Barker, NP</td>
<td>Barker, NP and Fish, L. “Rare and infrequent southern African grasses: assessing their conservation status and understanding their biology”.</td>
<td><em>Biodiversity and Conservation</em>. 2007. 16.4051-4079.</td>
<td>0.50</td>
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<tr>
<td>Barker, NP, Weston, PH, Rutschmann, F and Sauquet, H.</td>
<td>“Molecular dating of the Gondwanan plant family Proteaceae is only partially congruent with the timing of Gondwanan break-up”.</td>
<td><em>Journal of Biogeography</em>. 2007. 34.2012-2027.</td>
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<td>Price, BW, Barker, NP and Villet, MH.</td>
<td>“Patterns and processes underlying evolutionary significant units in the <em>Platystelea stridula</em> L. species complex (Hemiptera: Cicadidae) in the Cape Floristic Region, South Africa”.</td>
<td><em>Molecular Ecology</em>. 2007. 16.2574-2588.</td>
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<td>Teske, PR, Barker, NP and McQuaid, CD.</td>
<td>“Lack of genetic differentiation among four sympatric southeast African intertidal limpets: Phenotypic (Siphonariidae) plasticity in a single species?”.</td>
<td><em>Journal of Molluscan Studies</em>. 2007. 73.223-228.</td>
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<td>Zardi, GI, McQuaid, CD, Teske, PR and Barker, NP.</td>
<td>“Unexpected genetic structure of mussel populations in South Africa: indigenous <em>Perna perna</em> and invasive <em>Mytilus galloprovincialis</em>”.</td>
<td><em>Marine Ecology Progress Series</em>. 2007. 337,135-144.</td>
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<td>Dold, AP</td>
<td>“Homoisoflavanones from <em>Pseudoprospero firmifolium</em> of the monotypic tribe Pseudoprosperae (Hyacinthaceae: Hyacinthoideae)”.</td>
<td><em>Phytochemistry</em>. 2007. 68,2753-2756.</td>
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<td>McKenzie,RJ and Barker,NP</td>
<td>McKenzie,RJ and Barker,NP. &quot;Proposal to conserve <em>Venidium semipapposum</em> (Arctotis semipapposa) against <em>Arctotis scabra</em> (Asteraceae, Arctotideae)&quot;. <em>Taxon</em>. 2007. 56(4),1300-1301.</td>
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<td>Peter,CI</td>
<td>Larsen,MW, Peter,CI, Johnson,SD and Olesen,JM. “Comparative biology of pollination systems in the African-Malagasy genus <em>Brownleea</em> (Brownleeinae: Orchidaceae)”. <em>Botanical Journal of the Linnean Society</em>. 2008. 156(65).</td>
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<td>Ripley,BS and Gilbert,ME</td>
<td>Ripley,BS, Gilbert,ME, Ibrahim,DG and Osborne,CP. “Drought constraints on C4 photosynthesis: stomatal and metabolic limitations in C3 and C4 subspecies of <em>Alloteropsis semialata</em>”. <em>Journal of Experimental Botany</em>. 2007. 58(6),1351-1364.</td>
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<td>Saheed,A, Lui,L and Botha,CEJ</td>
<td>Saheed,A, Lui,L, Jonsson,L and Botha,CEJ. “Xylem as well as phloem - sustains severe damage due to feeding by the Russian wheat aphid (<em>Diuraphis noxia</em> Mordvilko) in leaf blades of susceptible and resistant wheat (Betta and Betta-Dn1)”. <em>South African Journal of Botany</em>. 2007. 73(4),593-599.</td>
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<td>Teske,PR, Lourie,SA, Matthee,CA and Green,DM. “<em>Hippocampus queenslandicus</em> Horne 2001 - a new seahorse species or yet another synonym?”. <em>Australian Journal of Zoology</em>. 2007. 55,139-145.</td>
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<td>Teske,PR and Barker,NP</td>
<td>Teske,PR, Hamilton,H, Matthee,CA and Barker,NP. &quot;Signatures of seaway closures and founder dispersal in the phylogeny of a circumglobally distributed seahorse lineage&quot;. <em>Bmc Evolutionary Biology</em>. 2007. 7(138), (Online).</td>
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<td>Teske,PR, Papadopoulos,I and Barker,NP</td>
<td>Teske,PR, Oosthuizen,A, Papadopoulos,I and Barker,NP. “Phylogeographic structure of <em>Octopus vulgaris</em> in South Africa revisited: identification of a second lineage near Durban</td>
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**POSTGRADUATE SUBSIDY UNITS * **

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

**BOOKS SUBMITTED FOR POSSIBLE SUBSIDY**

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<tr>
<td>The Vegetation of South Africa, Lesotho and Swaziland. Strelitzia 19</td>
<td>Albany Thicket Biome</td>
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<td>The Vegetation of South Africa, Lesotho and Swaziland. Strelitzia 19</td>
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<td>Dold AP</td>
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<td>Medicinal and Aromatic Plants: Agricultural, commercial, ecological, legal, pharmacological and social aspects.</td>
<td>Cultivation of medicinal plants as a tool for biodiversity conservation and poverty alleviation in the Amatola Region, South Africa</td>
<td>Dold AP, Cocks ML</td>
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CHEMISTRY

This has been another exceptional year for the Department of Chemistry. A highlight of 2007 was the award of the prestigious gold medal of the South African Chemical Institute to Professor Perry Kaye. This was followed by the announcement of a multi-million rand investment into the DST-Mintek Nanotechnology Innovation Centre (Sensors) to be housed in the Department under the directorship of Professor Nyokong. This is the single largest investment into research in the history of Rhodes University and is a credit to Professor Nyokong’s outstanding research productivity over many years. Associated with Professor Nyokong’s NRF research chair, and the newly formed DST-Mintek Nanotechnology Innovation Centre the Department has hosted a number of visitors including Professor Cammidge (East Anglia) and Dr Westbroek and Dr Hakuzimana (Ghent) and has been the recipient of new research equipment including an atomic force microscope. The 2007 Barker Lecture was delivered by Professor Kelly Chibale from the University of Cape Town.

Postgraduate research remained the mainstay of our Department in 2007 with a large cohort of 38 postdoctoral, PhD, MSc and Honours students working in a variety of fields including electrochemistry, photochemistry, nanotechnology, inorganic and organic synthesis, thermal analysis and theoretical and natural product chemistry. The Department continued to celebrate the diversity of its postgraduate student body which originates from all corners of our continent including Lesotho, Namibia, Nigeria and Zimbabwe and even from further afield e.g Chile. Five of our postgraduate students had the opportunity to carry out collaborative research in laboratories in the UK, France, Belgium and Japan. For the first time in the history of the Department the staff and students published 50 peer reviewed research papers in a single year, including an exceptional contribution of 39 research papers from the Nyokong research group. Coupled with this impressive publication record was the graduation of 7 PhD and 3 MSc graduates at the April graduation ceremony. During 2007 staff and postgraduate students also attended and contributed to the proceedings at numerous national and international conferences.

Sadly 2007 saw the retirement of three Departmental stalwarts; Professor Kaye, Mr Sonemann and Dr Cosser with a combined total of 88 years service to the Department and the University.

PROFESSOR MICHAEL DAVIES-COLEMAN
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Agboola,B and Nyokong,T
Agboola,B and Nyokong,T. “Comparative electrooxidation of nitrite by electropolymerised Co(II), Fe(II) and Mn(III) tetrakis benzylimercapto and dodecylmercapto metallophthalocyanines on gold electrodes”. Analytica Chemica Acta. 2007. 587,116-123.


Agboola,B and Nyokong,T. “Comparative electrooxidation of sulphite by self assembled monolayers (SAMs) of Co(II), Fe(II), Ni(II) and Mn(III) tetrakis benzylimercapto and dodecylmercapto metallophthalocyanines complexes on gold electrodes”. Talanta. 2007. 72,691-698.

Agboola,B, Ozoemena,KI and Nyokong,T


Chauke, V, Durmus, M and Nyokong, T

Chauke, V, Ogunsipe, A, Durmus, M and Nyokong, T

Chidawanyika, W, Ogunsipe, A and Nyokong, T

Davies-Coleman, M T, McPhail, K L and Keyzers, R A

Davies-Coleman, M T, Sunassee, S N and van Wyk, A W W

Duggan, A R and Kaye, P T

Durmas, M and Nyokong, T

Durmus, M and Nyokong, T


G*rol,I and Nyokong,T

Idowu,M and Nyokong,T

Idowu,M, Ogunsipe,A and Nyokong,T

Khene,S, Antunes,E, Ogunsipe,A and Nyokong,T

Khenea,S and Nyokong,T

Klein,R

Magqi,N, Lobb,KA and Kaye,PT

Marias,E, Klein,R, Antunes,E and Nyokong,T

Matemadombo,F and Nyokong,T

Matemadombo,F, Nyokong,T and Ozoemena,KI

Matemadombo,F and Nyokong,T


Matemadombo,F, Nyokong,T and Ozoemena,K
Mbambisa,G, Tau,P, Antunes,E and Nyokong,T

Nyokong,T


Obirai,J and Nyokong,T

Ogunsipe,A, Nyokong,T and Durmus,M

Sabbagh,IT and Kaye,PT

Sehlotho,N and Nyokong,T

Tau,P and Nyokong,T


Tshentu,ZR and Walmsley,RS
van Wyk, AWW and Davies-Coleman, MT


van Wyk, AWW, Davies-Coleman, MT and Lobb, KA

Watkins, GM and Antunes, E

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Antunes, E and Nyokong, T

Antunes, EM

Chauke, V and Nyokong, T

Idowu, M and Nyokong, T

Khene, S, Chambrier, I, Cook, M and Nyokong, T

Lamprecht, E., Brown, ME and Watkins, GM

Mbambisa, G, Tau, P and Nyokong, T

Moeno, S, Antunes, E and Nyokong, T
Nyokong, T

Tsentedu, ZR and Gerber, TIA

Watkins, GM

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Chidawanyika, W and Nyokong, T

Davies-Coleman, MT

Marais, E and Nyokong, T

Matemadombo, F, Westbrook, P and Nyokong, N

Nombona, N, Tau, P and Nyokong, T

Nyokong, T


Zagal, J, Villagra, E, Bedioui, F, Nyokong, T, Costamagna, J and Paez, M
DISTINGUISHED VISITORS

Cammidge,A

Chibale,K

Geraldo,DA

Loyson,P
Professor P Loyson. Nelson Mandela Metropolitan University, Port Elizabeth, South Africa. Lecture "The influence of ancient Greek on chemical and scientific terminology and the English language and some important contributions made by ancient Greek scientists”. November 2007.

Westbroek,P

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**JOURNAL SUBSIDY UNITS**

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<tr>
<td><em>Agboola,B and Nyokong,T.</em> ”Electrooxidation of chlorophenols by electropolymerised nickel (II) tetrakis benzylmercapto and dodecylmercapto metallophthalocyanines complexes on gold electrodes”. <em>Electrochimica Acta.</em> 2007. 52,5039-5045.</td>
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<tr>
<td><em>Agboola,B and Nyokong,T.</em> “Comparative electrooxidation of sulphite by self assembled monolayers (SAMs) of Co(II), Fe(II), Ni(II) and Mn(III) tetrakis benzylmercapto and dodecylmercapto metallophthalocyanines complexes on gold electrodes”. <em>Talanta.</em> 2007. 72,691-698.</td>
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<td><strong>Agboola,B, Ozoemena,KI and Nyokong,T</strong></td>
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<tr>
<td><em>Agboola,B, Ozoemena,KI, Westbroek,P and Nyokong,T.</em> “Voltammetric characterization of self-assembled monolayers (SAMs) of benzyl mercapto and dodecyl mercapto tetra substituted iron, cobalt, nickel and manganese phthalocyanine complexes”. <em>Electrochemistry Communications.</em> 2007. 9,310-316.</td>
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<tr>
<td><strong>Brown,ME</strong></td>
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<td><strong>Chauke,V, Durmas,M and Nyokong,T</strong></td>
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<td>Davies-Coleman, M, McPhail, K.L and Keyzers, R.A</td>
<td>Reactive oxygen species mediated apoptosis of esophageal cancer cells induced by marine triphenyl toluquinones and toluhydroquinones</td>
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<td>Durmus, M and Nyokong, T</td>
<td>Synthesis, photophysical and photochemical properties of tetra- and octa-substituted gallium and indium phthalocyanines</td>
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<td>Synthesis, photophysical and photochemical properties of poly(oxyethylene)-substituted phthalocyaninato oxotitanium(IV) complexes</td>
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<td>Synthesis, photophysical and photochemical properties of poly(oxyethylene)-substituted zinc phthalocyanines</td>
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<td>The synthesis and fluorescence behaviour of new water-soluble cationic gallium (III) phthalocyanines</td>
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<td>Synthesis, photophysical and photochemical studies of new water-soluble indium(III) phthalocyanines</td>
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<td>Synthesis, photophysical and photochemical properties of aryloxy tetrasubstituted gallium and indium phthalocyanine derivatives</td>
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<td>Khene, S and Nyokong, T</td>
<td>“Electrochemical and photophysical characterization of non-peripherally-octaalkyl substituted dichlorotin(IV) phthalocyanine and tetrabenzotriazoporphyrin compounds”</td>
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<td>Mashazi, P and Nyokong, T</td>
<td>Critical assessment of the quartz-crystal microbalance with dissipation as an analytical tool for biosensor development and fundamental studies: Metallophthalocyanine-glucose oxidase biocomposite sensors</td>
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<td>Mashazi, P, Ozoemena, K and Nyokong, T</td>
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<td>Matemadombo, F, Nyokong, T and Ozoemena, K</td>
<td>Immobilization of tetra-amine substituted metallophthalocyanines at gold surfaces modified with mercaptopropionic acid or DTSP-SAMs</td>
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<td>Mbambisa, G., Tau, P., Antunes, E. and Nyokong, T.</td>
<td>&quot;Synthesis and electrochemical properties of purple manganese(III) and red titanium(IV) phthalocyanine complexes octa-substituted at non-peripheral positions with pentylthio groups&quot;. Polyhedron. 2007. 26,5355-5364.</td>
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<td>Nyokong, T.</td>
<td>&quot;Effects of substituents on the photochemical and photophysical properties of non-transition metal phthalocyanines&quot;. Coordination Chemistry Reviews. 2007. 251,1707-1722.</td>
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<td>Ozoemena, K.I., Nkosin, D., Nyokong, T., Chambrier, I. and Cook, M.J.</td>
<td>&quot;Insights into the Cyclic Voltammetry and Impedance Spectroscopy of Single-Walled Carbon Nanotube - Cobalt (II) tetra-aminophthalocyanine Self-Assembled on Gold Electrode&quot;. Electrochimica Acta. 2007. 52,4132</td>
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<td>Obirai, J. and Nyokong, T.</td>
<td>&quot;Thiol oxidation at 2-mercaptopyrimidine appended cobalt phthalocyanine modified glassy carbon electrode&quot;. Journal of Electroanalytical Chemistry. 2007. 600,251-256.</td>
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<td>Sehlotho, N. and Nyokong, T.</td>
<td>&quot;Cobalt Phthalocyanine Molecular Electrode for the Electrochemical Investigation of the Release of Glutathione upon Copper-Catalyzed Decomposition of S-Nitrosothioglutathione&quot;. Electroanalysis. 2007. 19,103-100.</td>
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<td>Tau, P. and Nyokong, T.</td>
<td>&quot;Electrochemical characterization of tetra- and octa- substituted oxo(phthalocyaninato) titanium (IV) complexes&quot;. Electrochimica Acta. 2007. 52,3641-3650.</td>
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<td>Tau, P. and Nyokong, T.</td>
<td>&quot;Electrocatalytic activity of arylthio tetra-substituted oxotitanium (IV) phthalocyanines towards the oxidation of nitrite&quot;. Electrochimica Acta. 2007. 52,4547-4553.</td>
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<td>Tau, P. and Nyokong, T.</td>
<td>&quot;Spectroscopic characterisation and interactions of sulphonated titanium and tantalum phthalocyanines with methyl viologen&quot;. Inorganic Chimica Acta. 2007. 360,2615-2655.</td>
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*Tshentu,*ZR and *Walmsley,*RS


*van Wyk,*AWW and *Davies-Coleman,*MT


*van Wyk,*AWW, *Davies-Coleman,*MT and *Lobb,*KA


*Watkins,*GM and *Antunes,*E


**TOTAL FOR CHEMISTRY**

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<td>Van Wyk</td>
<td>Davies-Coleman</td>
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**TOTAL 27**

* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
COMPUTER SCIENCE

2007 was a year of awards in the Department of Computer Science, both for individual achievement and in terms of research grants received. Amongst the postgraduate students:

- A research paper presented at the IHCI’07 conference in Portugal, authored by postdoc Hannah Slay and PhD candidate Ingrid Sieborger, was awarded the conference’s Outstanding Paper Award, and will be featured in a best of the conference journal edition.
- From an initial world wide starting field of 200 teams in the Simagine International Mobile Communication Developer Contest, MSc student Tham Moyo and PhD student Mamello Thinyane submitted a design which was one of only eight to be invited to Barcelona, Spain, for the final round of judging. While the top honours went to a Polish team, our team came back from the finals with the MTN Achievement Award and a cheque for five thousand Euros.
- PhD student Mamello Thinyane won the runner up prize to the best student paper at SATNAC 2007 in Mauritius.
- PhD student Kevin Glass won the best paper award at the annual conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT) 2007.

Professor Richard Foss received deserved recognition for his high profile contributions to audio networking when he was elected as the International Chairman of the Audio Engineering Society’s (AES) subcommittee tasked with defining standards for audio transmission over high speed firewire IEEE1394 networks.

On the funding side, new support both in funds and in equipment was attracted. The first of these was a funding grant from the South Africa Norway Tertiary Education Development Programme (SANTED) which was awarded for an intensive intervention to ramp up activity between the Computer Science departments at Rhodes and at the University of Namibia. Two phases are planned: firstly capacity building at the University of Namibia during 2008 and 2009 using expertise from Rhodes University, and secondly equal-footed collaboration at a postgraduate level from 2010 onwards. The Computer Science Department at Rhodes has in the past successfully facilitated the building of a postgraduate programme within the Computer Science department of the University of Fort Hare, and a similar model will be followed in the case of the University of Namibia.

A second activity that has attracted new resources was the Dwesa Field Trial being conducted in collaboration with the University of Fort Hare. Through our interactions with the Finnish Embassy and the COFISA (Cooperation Framework on Innovation Systems between Finland and SA) initiative, our rural ICT field trial site in Dwesa was selected as the first deployment outside of India of a low cost Nokia GSM access point known as the “Village Connection”. The project will deploy three such village cells into our existing experimental network in the area, and will undertake investigations into electronic services appropriate for building economic activity in marginalized communities.

The research umbrella activity in Computer Science continues to be the Centre of Excellence in Distributed Multimedia, funded by Telkom, Business Connexion, Converse, Verso Technologies, Storage Technology Services, Tellabs, and THRIP. Additional SMME partnerships joined the project in 2007 in the form of Amatole Telecommunication Services, Mars Technologies, and Bright Ideas Projects 39. The mix of industry partnerships provides a range of intellectual opportunities, technical support, collaboration relationships, and running funds which are geared by a matching grant from the NRF’s THRIP programme. The core theme of the centre is the development of a media services framework, which incorporates the communication needs of interactive multimedia applications, delivery across heterogeneous networks, distributed computation for supporting integrated applications, graphics, audio engineering, security, and the requirements of the specific application areas of education, entertainment, and marginalized communities.

In October, the Department hosted AfriGraph 2007 (the 5th International Conference on Virtual Reality, Computer Graphics, Visualization and Interaction in Africa). This international conference attracted participants from 13 countries, as far afield as Canada and Japan. The keynote speaker was Professor Tom Furness, often referred to as the “Grandfather of Virtual Reality” due to his outstanding contribution to the advancement of this field. New to Afrigraph this year was participation from the animation industry, and the first Art and Animation gallery, at which 18 digital artworks and animations were displayed.

PROFESSOR GEORGE WELLS, HEAD OF DEPARTMENT
PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Foster, GG, Kriger, H and Bangay, S

Siebörger, IG and Terzoli, A

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Glass, K and Bangay, S


Miles, SG and Irwin, B

Mueller, B, Schule, L and Wells, GC

Terzoli, A


Terzoli, A and Thinyane, M

Thinyane, M

Thinyane, M, Terzoli, A, Clayton, P and Slay, H

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)
ii. International Conferences (Outside South Africa)

Alcock, B, Glass, K and Bangay, S

Bangay, S


Brandt, I.G and Terzoli, A
Brandt, I.G, Terzoli, A and Hodgkinson-Williams, C. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Conference on Telecommunications and Networking (TeNe 06). Online, Bridgeport. UK. December 2006. 175-180.

Brandt, I.G, Terzoli, A and Hodgkinson-Williams, C. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Conference on Telecommunications and Networking (TeNe 06). Online, Bridgeport. UK. December 2006. 175-180.

Chibaya, C and Bangay, S

Chigwamba, N and Foss, R


Clayton, P.G, Poulton, A and Wells, G.C

Foss, R and Klinkradt, B

Glass, K and Bangay, S

Halse, M. and Foster, G.

Irwin, B. and Pilkington, N.

Irwin, B., Pilkington, N., Barnett, R. and Friedman, B.

Kerr, S. and Irwin, B.

Moyo, T., Thinyane, M., Wright, M., Irwin, B., Clayton, P. and Terzoli, T.

Mukadah, E. and Slay, H.

Otten, F., Irwin, B. and Slay, H.

Pilkington, N. and Irwin, B.


Sibanda, P. and Foss, R.

Siebörger, I.G. and Terzoli, A.
Slay, H and Sieborger, I

Slay, H, Irwin, B and Smith, G

Slay, H, Thinyane, M and Terzoli, A

Thinyane, M, Clayton, P and Terzoli, A

Thinyane, M, Terzoli, A and Clayton, P

Thinyane, M, Terzoli, A, Clayton, P and Slay, H

Tsietsi, M, Terzoli, A and Wells, G C

Wells, G C and Atkinson, G A

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Awusi, R

Glass, K, Morkel, C and Bangay, S
Wilkinson, G

INTERNATIONAL VISIT

Clayton, P
Clayton, P. Huawei Campus, Netcom Site, Shenzen, Beijing, PR China. NGN Study Tour. 5 - 9 February 2007.

Clayton, P and Wentworth, P

DISTINGUISHED VISITORS

Baranoski, G and Krishnaswamy, A

Duveskog, M

Enkenberg, A

Furness, T

Gurdan, R

Hietanen, O

Jia, DH

Kuukasjarvi, L

Riordan, D

Shreiner, D

Sutinen, E
### JOURNAL SUBSIDY UNITS

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

### CONFERENCE PROCEEDINGS SUBMITTED FOR POSSIBLE SUBSIDY

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<td>Annual Conference of the South African Institute for Computer Scientists and Information Technologists.</td>
<td>A probabilistic movement model for shortest path formation in virtual ant-like agents</td>
<td>Chibaya, C &amp; Bangay, S</td>
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<td>Annual Conference of the South African Institute for Computer Scientists and Information Technologists.</td>
<td>An ontology-based, multi-modal platform for the inclusion of marginalized rural communities into knowledge society.</td>
<td>Thinyane M, Dalvit L, Slay H, Mapi T, Terzoli A, Clayton P</td>
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<td>Annual Conference of the South African Institute for Computer Scientists and Information Technologists.</td>
<td>Constraint-Based Conversion of Fiction Text to a Time-Based Graphical Representation</td>
<td>Glass K and Bangay S</td>
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<td>PDPTA 2007 International Conference on Parallel &amp; Distributed Processing, Techniques and Applications</td>
<td>A Service Description Language for Distributed Agents in a Next Generation Network</td>
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<td>Afrigraph 2007: 5th International Conference on Virtual Reality, Computer Graphics, Visualization and Interaction in Africa</td>
<td>Animated feather coats using field lines</td>
<td>Bangay S</td>
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<td>10th Annual Southern African Telecommunications Networks Applications Conference SANTAC 2007</td>
<td>Field testing the Alvarion BreezeMAX as a last mile technology</td>
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<td>10th Annual Southern African Telecommunications Networks Applications Conference SANTAC 2007</td>
<td>Exploring a novel service deployment framework PIASK, through the design and implementation of an e-commerce function for a rural community</td>
<td>Thinyane M, Clayton P &amp; Terzoli A</td>
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<td>IADIS Interfaces and Human Computer Interaction 2007 Conference</td>
<td>An Investigation into the use of Interactive whiteboards in South African Schools</td>
<td>Slay H, Sieborger I and Hodgkinson Williams, C</td>
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<td>First South African Bioinformatics Workshop</td>
<td>Using a Tuple Space Web Service for Parallel Processing in Bioinformatics</td>
<td>Mueller B, Schule L and Wells G</td>
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<td>Eighteenth Annual Symposium of the Pattern Recognition Association of South Africa</td>
<td>A naïve, salience-based method for speaker identification in fiction books</td>
<td>Glass, K and Bangay, S</td>
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<td>Eighteenth Annual Symposium of the Pattern Recognition Association of South Africa</td>
<td>Evaluating and improving morpho-syntactic classification over multiple corpora using pre-trained, &quot;off-the-shelf&quot;, parts -of-speech tagging tools</td>
<td>Glass, K and Bangay, S</td>
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<td>9th Annual Conference on World Wide Web applications</td>
<td>Generic framework for mobile phone two factor authentication Web services</td>
<td>Miles SG &amp; Irwin BV</td>
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</table>
DEAN OF RESEARCH

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Duncan, JR

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Duncan, JR


JOURNAL SUBSIDY UNITS

| Duncan, JR |
|-------------|-----------------|
| Mack, CL, Wilhelmi, B, Duncan, JR and Burgess, JE. “Biosorption of precious metals”, Biotechnology Advances. 2007. 25, 264-271. | 0.25 |
| TOTAL FOR DEAN OF RESEARCH | 0.25 |
The idea of practice as research within the context of theatre production is still a central issue in South African performing arts departments at tertiary level. The National Research Foundation awarded a grant for further inquiry into this idea of theatre practice as a viable component of research (2006 – 2007). Three theatre artists/researchers at the Rhodes University Drama Department were selected to contribute pilot case studies to this research project. Staff members Juanita Finestone-Praeg and Alex Sutherland devised suitable theatre research projects for this inquiry into theatre research. MA graduate Acty Tang (who was a leave substitute lecturer this year) also contributed a case study for the inquiry. All three case studies were of a high standard, contributing to new knowledge about theatre research in South Africa.

The connections between theatrical and theoretical investigations have always been significant issues in the department and have informed theatre productions and curriculum content. This is evident in the professional outputs of Associate Professor Andrew Buckland who has an impressive national and international record in the theatre industry.

During his leave for the first half of 2007, Professor Gordon was commissioned to create an original work for the 2007 FNB Dance Umbrella. The work that he created has been nominated for 4 awards at the Gauteng MEC Awards for Contemporary Choreography and Dance including Best Choreography in a Contemporary Style. Two graduates from RU Drama have been nominated for Most Outstanding Male Dancer and Most Outstanding Female Dancer. MA graduate Acty Tang has also been nominated for Most Outstanding Male Dancer. A highlight for the department in 2007 was Acty Tang's production of Chaste which he created as the 2007 Standard Bank Young Artist Award Winner for Dance. This work was praised by critics for its provocative conception and its dynamic theatricality.

This integration between conceptual and theatrical investigations is also evident in theoretical research investigations. Three staff had papers published in the South African Theatre Journal. Juanita Finestone-Praeg, Alex Sutherland and Acty Tang. Acty Tang also had an article published in the British–based Research in Drama Education. Staff, students and the two projects (First Physical and UBOM) presented theatre productions throughout South Africa – in fact in 8 of the 9 provinces. This attention to the idea of a theatre praxis is evident in postgraduate study in the department. Postgraduate numbers were strong in 2007 with 14 Honours students and 11 MA students.

PROFESSOR GARY GORDON
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Praeg,J

Sutherland,AEM

Tang,CWA


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)
Hobson, M

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)
ii. International Conferences (Outside South Africa)
Praeg, J

Tang, CWA

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS
Buckland, AF


Gehring, H


Gordon, G.E.


Praeg, J.

Sutherland, A.E.M.

Tang, C.W.A.


INTERNATIONAL VISIT

Buckland, AF
Buckland, AF. Southern Methodist University, Dallas, USA. Performances. 4 - 9 September 2007.


Buckland, AF. Centre for the Arts, Jackson Hole, USA. Truth in Translation Tour. 28 - 30 September 2007.


DISTINGUISHED VISITORS

Newmark, P

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<td>Praeg, J. “Reflective (a)musings on 16 kinds of emptiness...: re-framing research for practice”. <em>South African theatre Journal</em>. 2007. 21,203-220.</td>
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<td>Sutherland, AEM. “Writing and Performing Change: the use of writing journals to promote reflexivity in a Drama Studies curriculum”. <em>South African theatre Journal</em>. 2007. 19,</td>
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<td>Tang, CWA</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
A highlight of the year was the inauguration of the Foord Chair in Investments, generously sponsored by Old Rhodian Mr Dave Foord. Professor Faure was appointed to the Chair.

Professor Colin White of Melbourne, Australia was appointed Hobart Houghton Research Fellow in the Department for 2007, during which time he undertook work on foreign direct investment. Professor Ken Willis, Director of the Centre for Research and Environmental Management (CREAM) of the University of Newcastle upon Tyne, who was the Hobart Houghton Research Fellow for 2005, presented a joint paper on “Willingness to pay for water service improvements in middle income urban households in South Africa” with Dr Jen Snowball and Mr Christian Jeurissen at the Biennial Conference of the South African Economic Society, which was subsequently published in the South African Journal of Economics. Hobart Houghton Research Fellow for 2006, Pieter van der Hoek, published a paper on “Romania and the European Union Enlargement” in the Journal of European Economy, as well as a paper together with Professor Sarah Radloff of Statistics.

Meshach Aziakpono, Gardner Rusike, Ziv Chinzara, Pierre Faure, Magdalene Wilson, Niki Cattaneo, Jen Snowball, Ebrahim Seedat, Cyril Mbatha and James Juana, together with several post-graduate students, presented papers at local conferences as well as papers at conferences as far afield as Kenya, Ethiopia, the Netherlands, Spain and the United States.

Professor Geoff Antrobus participated in an Economics Teachers course conducted in Mexico and in South Africa by the US National Council of Economic Education, as well as part of a Team Writing Economics Lessons in Romania. Geoff also assisted with two courses in the training of Economics and Management Science Subject Advisors and teachers from the Eastern Cape Department of Education. Jen Snowball and Geoff Antrobus collaborated on research of Theatre Productions at the National Arts Festival in July.

The Economics Department together with the Economics Society of South Africa hosted its annual post-graduate research conference with students and staff from the Universities of Fort Hare and Nelson Mandela Metropolitan participating. The invited speaker was Mr Rowan Williams-Short of Orthogonal Investments.

The Deputy Governor of the Reserve Bank and Visiting Professor, Dr Xolile Guma, addressed students and a public seminar during a visit to Rhodes in October.

PROFESSOR HUGO NELL
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Snowball,JD

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Aziakpono,MJ

Aziakpono,MJ, Wilson,MK and Manuel,J

Cattaneo,N and Dodd,S
Mitchell-Innes, HA, Aziakpono, MJ and Faure, AP

Mutambara, TE
Mutambara, TE. “Regional cross border investment between the Southern Africa Development Community (SADC) member states and the expected potential benefits”. Studies in Economics and Econometrics. 2007. 31(1), 53-77.

Snowball, JD
Snowball, JD and Sayigh, E. “Using the tutorial system to improve the quality of feedback to students in large class teaching”. South African Journal of Higher Education. 2007. 21(2), 321-333.

Van Der Hoek, MP

Van Der Hoek, MP and Radloff, SE. “Taxing owner-occupied housing: Comparing the Netherlands to other European Union countries”. Public Finance and Management. 2007. 7(4), 393-421.

OTHER PUBLICATIONS

Aziakpono, MJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Aziakpono, MJ

Chinzara, Z, Rusike, G and Aziakpono, MJ

Karoro, T, Aziakpono, MJ and Cattaneo, N

Matsaseng, K

Mitchell-Innes, HA, Aziakpono, MJ and Faure, AP

Potgieter, DR and Seedat, ED
Rusike,TG, Aziakpono,MJ and Snowball,JD

Shikwambana,J, Aziakpono,MJ and Faure,AP

Snowball,JD and Jeurissen,C

Tshoele,T and Aziakpono,MJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Aziakpono,MJ


Juana,JS

Snowball,JD and Bragge,B

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Antrobus,GG

Aziakpono,MJ

Aziakpono,MJ and Wilson, MK
### JOURNAL SUBSIDY UNITS

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<td>Cattaneo, N and Dodd, S</td>
<td>“Theoretical Approaches to the Analysis of Trade and Poverty and a Review of Related Literature on South Africa”</td>
<td><em>Studies in Economics and Econometrics</em></td>
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**TOTAL:** 8

* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

### BOOK SUBMITTED FOR POSSIBLE SUBSIDY

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<tr>
<td>Measuring the Value of Culture: Methods and Examples in Cultural Economics.</td>
<td>Snowball, JD</td>
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EDUCATION

Our return for 2007 reveals a good spread of contributions from most members of the Department and we are delighted at the recognition of our work. Much of the research work continues to be cutting edge and the contribution from the Environmental Education Research Group regularly attracts international attention.

In some respects the profile that emerges is very similar to previous years, with more emphasis on non-accredited publications than on SAPSE approved ones, and healthy conference activity, both in terms of attending and presenting. The Department’s research profile reflected in this report needs to be read against a backdrop of an extensive post-graduate supervision programme. We supervised 130 Master’s students and have an established doctoral programme that is structured around three PhD weeks per year and involves 28 PhD scholars. Although a number of our students have published their work, the productive and strategic integration of our students’ post-graduate work with that of our own writing remains a challenge. A further challenge facing the Department is the use of a more diverse selection strategy for publishing our articles. Two accredited journals are edited by staff of the Education Department. The 2007 combined return of published papers and post-graduate supervision reflects an energetic and robust research climate in the Department.

PROFESSOR MARC SCHÄFER
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Brown,B, Schäfer,M and Samson,D

Brown,B, Schäfer,M, Kitson,A and Samson,D

Downsborough,L and Lotz-Sisitka,HB

Irwin,P

Lotz-Sisitka,HB

Lotz-Sisitka,HB and O'Donoghue,R

O'Donoghue,R, Lotz-Sisitka,HB, Asafo-Adjei,R, Kota,L and Hanisi,N
Olvitt,L, Lotz-Sisitka,HB and Schudel,I

Robertson,SA


van Harmelen,U

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Brown,B

Hodgkinson-Williams,C

Ketlhoilwe,MJ

Lotz-Sisitka,HB

Lotz-Sisitka,HB and Lupele,J

Lotz-Sisitka,HB and Schudel,I

Lotz-Sisitka,HB and Schudel,I

O'Donoghue,R

Samson,D and Schäfer,M

Schäfer,M
Schudel, I

Stevens, A

Vandeleur, S

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Dalvit, L


Dalvit, L and Murray, S


Lotz-Sisitka, HB


Murray, S

Murray, S R

O'Donoghue, R
ii. International Conferences (Outside South Africa)

Dalvit,L


Downsborough,L

Hodgkinson-Williams,C
Brandt,IG, Terzoli,A and Hodgkinson-Williams,C. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Conference on Telecommunications and Networking (TeNe 06). Online, Bridgeport. UK. December 2006. 175-180.

Brandt,IG, Terzoli,A and Hodgkinson-Williams,C. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Conference on Telecommunications and Networking (TeNe 06). Online, Bridgeport. UK. December 2006. 175-180.


Irwin,P

Lotz-Sisitka,HB


Matschke, L

Naran, D

Nsubungu, Y

O'Donoghue, R

O'Donoghue, R and Mandikonza, C

Olvitt, L

Olvitt, L and Ayair, U

Pesanayi, T

Shava, S

Vandeleur, S

Wilmot, PD and Lotz Sisitka, H

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Euvrard, G and Irwin, P
Kraft, RL

Murray, S R

O'Donoghue, R and Lotz-Sisitka, HB

Pesana, T

Robertson, S A

DISTINGUISHED VISITORS

Adubra, E
Mr E Adubra. UNESCO- Chief Education Specialist, Windhoek, Namibia. To address and open the SADC research symposium. May 2007.

Allais, S

Baloi, A

Bissonauth, R and Brizmohun, R

Buys, C

Christianson, I

Ketlhoilwe, M J and Maila, W

Maroon, M
Ms M Maroon. Siyakhula Trust (Cape Town), Cape Town, South Africa. Appointed by Standard Bank to audit the ACE programme. Feb 2007
Mhlipa,M

Moll,I
Professor I Moll. Wits University, Johannesburg, South Africa. Present on educational issues and research at Rhodes PhD week. March 2007.


Morrow,W

Mwabumba,L

Namafe,C and Chilese,B

Parker,B

Russell,C

Shumba,O and Kasembe,R

Taylor,J

Wedekind,V

Welsh,T

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<td>&quot;Translation processes in the design of an Education for Sustainable Development Innovations Course for universities in Africa&quot;. <em>Journal of Teacher Education</em>. 2006.</td>
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**TOTAL FOR EDUCATION**

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**POSTGRADUATE SUBSIDY UNITS **

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*2007 graduates. The record of 2006 graduates can be found in the Appendix.*

### BOOKS SUBMITTED FOR POSSIBLE SUBSIDY

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ENGLISH

The year 2007 was another productive one for the Department of English. Apart from publishing a number of essays in scholarly journals, members of the Department gave papers at several conferences and Professors van Wyk Smith, Wylie and Cornwell completed book-length projects.

Professor Gouws organized a major international conference under the auspices of the Society for the History of Authorship, Reading and Publishing, “A World Elsewhere: Orality, Manuscript and Print in Colonial and Post-Colonial Cultures,” which was held at the Centre for the Book, Cape Town, on 2-4 April.

In July the Department welcomed two distinguished visitors. Professor Gareth Griffiths from the University of Western Australia (Rhodes’s Hugh Le May Fellow for 2007), and Professor Nick Radel from Furman University, South Carolina. Professor Griffiths gave a paper on early African publishing at African Book Week, a series of events co-hosted by the Department of English in August. Both scholars gave papers in the Department’s Research Group series, and Professor Radel taught short modules to first-year and Honours students. The Honours class was the largest in the Department’s history (23 students), while MA and PhD enrolment was commensurately high.

PROFESSOR GARETH CORNWELL
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Naidu, S

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Beard, MM


CORNWELL, DGN


Jacobson, WS


van Wyk Smith, M

Wylie, DA


ii. International Conferences (Outside South Africa)

Cornwell, DGN


Naidu, S


Seddon, D


DISTINGUISHED VISITORS

Griffiths, G


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<td>Beard, MM. &quot;Review: Norman Morrissey, Dog Latin&quot;. English in Africa. 2007. 34(1), 177-179.</td>
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<td>Beard, MM. &quot;Lessons from the dead masters: Wordsworth and Byron in J.M. Coetzee's Disgrace&quot;. English in Africa. 2007. 34(1), 59-77.</td>
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<td>Cornwell, DGN. &quot;'He and his man': Allegory and catachresis in J.M. Coetzee's Nobel lecture&quot;. English in Africa. 2007. 34(1), 97-114.</td>
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<td>Cornwell, DGN. &quot;The fairground scene in Turbott Wolfe&quot;. English Studies in Africa. 2006. 49(1), 1-12.</td>
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<td>Jacobson, WS. &quot;The prince of the marshes: Hamlet and Great Expectations&quot;. The Dickensian. 2007. 102(3), 197-211.</td>
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<td>Jacobson, WS. &quot;The muddle and the star: Hard Times&quot;. The Dickensian. 2007. 103(2), 144-157.</td>
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<td>van Wyk Smith, M. &quot;Would the real James Bruce please stand up?:' Bruce's Travels to discover the sources of the Nile (1790) in Alexander Murray's edition of 1813&quot;. English Academy Review. 2006. 23, 59-83.</td>
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<td>Wylie, DA. &quot;//Kabbo's challenge: Transculturation and the question of a South African ecocriticism&quot;. Journal of Literary Studies. 2007. 23(3), 252-270.</td>
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<td>Wylie, DA. &quot;Imagined corners: Ec(o)centrism in some Eastern Cape poetry&quot;. Scrutiny. 2.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
ENGLISH LANGUAGE AND LINGUISTICS

Staff remained active with respect to their research activities and produced seven publications in highly reputed peer-reviewed journals or books. Five papers, plus an exhibition, were presented at conferences nationally and three papers were presented at international conferences (Germany, United Kingdom and Austria). Mr. Bekker continued making progress on his PhD studies on the acoustic analysis of South African English accent.

Two PhD students continued working on their theses, two Master’s students submitted their theses while 6 others are working on theirs, and two students had their Master’s proposals approved by the Higher Degrees Committee. In August the Department held the First Postgraduate Seminar in Linguistics at which Honours students presented their research work, and in September three senior students presented papers at the School of English Postgraduate Colloquium.

In conjunction with partners from Stellenbosch University and the Meertens Institute in Amsterdam, Netherlands, Dr de Vos embarked on the SANPAD-funded project titled Morphosyntactic variation in varieties of Afrikaans. The Department continued its efforts in strengthening ties with other institutions through research activities: Ms Hunt, Ms Todd, Ms Pienaar, Dr Simango and Prof Adendorff continued their collaborative research with Dr Niesler of Stellenbosch University on Educated Mother-Tongue South African English. In addition, the Department established an exchange agreement with the Department of English Language and Culture at Vrije Universiteit Amsterdam.

Prof Adendorff and Dr Simango are members of the Academy of Science of South Africa; Dr de Vos, Ms Pienaar and Dr Simango serve on the executive board of the Linguistic Society of Southern Africa. Dr Simango is also a member of the editorial board for The Open Applied Linguistics Journal (Bentham Science Publishers) as well as the journal Southern African Linguistics and Applied Language Studies. In addition, Dr Simango continued his participation in the CASAS project on harmonization and standardization of the orthographies of African languages by conducting workshops in Polokwane and Windhoek, Namibia.

DR RON SIMANGO
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

De Vos,MA

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bekker,I

Bekker,I and Eley,G

De Vos,MA

**Pienaar, KM and Bekker, I**

**Simango, SR**

**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES**
**(PROCEEDINGS, BOOKLETS and ATTENDANCE)**

i. Local Conferences (Within South Africa)

**Bekker, I**

**De Vos, MA**

**Hunt, S and La Rose, C**

**La Rose, C and Hunt, S**

**Pienaar, KM**

**Simango, SR**

**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES**
**(PROCEEDINGS, BOOKLETS and ATTENDANCE)**

ii. International Conferences (Outside South Africa)

**Bekker, I**

**Simango, SR**

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS**

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<td><em>De Vos, M.A.</em> &quot;Events: A Study in the Semantics of Lexical Aspect, Rothstein Susan&quot;. <em>Lingua.</em> 2007. 117, 1490-1496.</td>
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<td><em>De Vos, M.A.</em> &quot;Towards a definition of SUBJECT in binding domains and subject-oriented anaphora&quot;. <em>Spil: Stellenbosch Papers in Linguistics.</em> 2007. 37, 23-65.</td>
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<td><em>Simango, S.R.</em> &quot;Enlarged Arguments in Bantu: Evidence from Chichewa&quot;. <em>Lingua.</em> 2007. 117(6), 928-949.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
ENVIRONMENTAL SCIENCE

Once again the Dept of Environmental Science had a highly productive year in terms of research completed and outputs, spanning 17 papers in refereed journals, two book chapters, and 19 conference presentations. With only three full-time staff, this output is impressive and well above the national and university norms. It was pleasing to see postgraduate students as lead authors of several of the journal papers and most of the conference presentations. Postgraduate numbers remained healthy for 2007 (11 Honours, 14 Masters and five PhD) and we are currently constrained by lack of space from taking on any more postgraduates. We anticipate that four Masters students will be graduating in March 2007, namely, Dylan McGarry, Collins Nsor, Jim Saunders and Melita Steele, along with Kelly Scheepers for a PhD. Kelly will be the first PhD graduate from the department who started as a an undergraduate with us and progressed through to the PhD level – a significant landmark for our young department.

Mike Powell (a Masters student) was awarded the joint-prize for the best scientific presentation at the 3rd annual Thicket Forum meeting for his paper entitled “Carbon stocks in the subtropical thickets of Baviaanskloof”, co-authored with Ant Mills (Stellenbosch University) and Charlie Shackleton. The award was shared with Andrew Knight (a Research Associate in our dept) for his paper on “Mapping characteristics of land managers in the Albany District to facilitate the implementation of the STEP Strategy”. More accolades came during the same forum when Nic Davenport (Masters student) won the prize for the best poster, co-authored with James Gambiza, entitled “Livestock in municipal commonage: what is really happening in the Makana Local Municipality?”.

This year saw the launch of Rhodes Restoration Research Group (R3G) as a formally recognised research group within the department, comprising of a core group of several postgraduates working on restoration projects (Mike Powell, Saskia Fourie and Matt McConachie), and with links to several other universities (NMMU and Stellenbosch) and individuals operational in the restoration arena in the Eastern Cape.

Staff and Associates made a number of trips internationally for research related workshops and activities, including Canada, Corsica, France, Indonesia, Tanzania and the UK. We also hosted a large workshop with Wageningen University (The Netherlands), Nelson Mandela Metropolitan University and EarthCollective working towards greater research collaboration, especially relating to ecosystem services and values of Subtropical Thicket. The outcome of this will be a broad funding proposal for a large long-term research programme. Dr Akanbi Ayotunde extended his sabbatical with us for a second year.

Guest lectures by visitors to the department included Professor Roger Leakey from James Cook University (Australia) who shared his thoughts and innovations on “An agroforestry approach to reducing poverty, malnutrition, hunger and environmental degradation”. He was followed later in the year by Dr Frank Matose from PLAAS at UWC in Cape Town on “Knowledge, economics and power: understanding governance of the commons in southern Africa”.

PROFESSOR CHARLIE SHACKLETON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Fabricius,C and Cundill,G

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Chalmers,N and Fabricius,C
Chalmers,N and Fabricius,C. “Expert and generalist knowledge about land-cover change on South Africa’s Wild Coast: can local knowledge add value to science?”. Ecology and Society. 2007. 12(1), (Online).

Cundill,G
Fabricius,C


Fabricius,C and Cundill,G

Gambiza,J

Madubansi,M and Shackleton,CM

McConnachie,M and Shackleton,CM

Parkin,F and Shackleton,CM

Shackleton,CM


Shackleton,CM

Shackleton,CM and Gambiza,J

Shackleton,CM and Shackleton,SE
Shackleton, CM, Gambiza, J and Jones, R

Shackleton, CM, McGarry, D, Fourie, S, Gambiza, J, Shackleton, SE and Fabricius, C

Shackleton, SE


OTHER PUBLICATIONS

Shackleton, CM

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Cundill, G

Davenport, N and Gambiza, J

Fourie, S

McConnaghie, M and Shackleton, C M

Shackleton, C M, Kaschula, S and McGarry, D

Shackleton, S E

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)
Cundill, G

De Klerk, H

Fabricius, C


Kaschula, S


Powell, M and Shackleton, C M


Shackleton, C M

Shackleton, SE and Shackleton, CM


DISTINGUISHED VISITORS

Leakey, R


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*Chalmers, N* and *Fabricius, C*. “Expert and generalist knowledge about land-cover change on South Africa's Wild Coast: can local knowledge add value to science?”. *Ecology and Society*. 2007. 12(1), (Online). |
| Cundill, G | 1.00 |
| Fabricius, C | 0.08 |
| Fabricius, C and Cundill, G | 0.50 |
| Gambiza, J | 0.50 |
| Madubansi, M and Shackleton, C.M | 1.00 |
| Shackleton, C.M | 0.34 |
| Shackleton, C.M | 0.20 |
| Shackleton, C.M and Gambiza, J | 0.34 |
| Shackleton, C.M and Shackleton, SE | 1.00 |
| Shackleton, C.M, Gambiza, J and Jones, R | 0.50 |
Shackleton, CM, McGarry, D, Fourie, S, Gambiza, J, Shackleton, SE and Fabricius, C.


Shackleton, SE


**TOTAL FOR ENVIRONMENTAL SCIENCE**

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

**BOOKS SUBMITTED FOR POSSIBLE SUBSIDY**

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<td>Restoring Natural Capital: Science, Business &amp; Practice</td>
<td>An adaptive co-management approach to restoring natural capital in communal areas of South Africa</td>
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FINE ART

The Fine Art Department has produced a cross-section of research for 2007, including publications as well as exhibited artwork. The two art historians in the department, Prof Brenda Schmahmann and Ruth Simbao, have produced some five journal articles between them, each with one in an international journal. They – along with Professor Dominic Thorburn – have completed various other publications, such as reviews and, from Ms Simbao, a chapter in a book. A particular highlight here is Ms Simbao’s article published in the prestigious African Arts. Exhibitions on the part of the five artists in the department include solo shows. Highlights in this regard are Brent Meistre’s Biennial Award Exhibition in Port Elizabeth and Christine Dixie’s Corporeal Prospects, a retrospective show at the Standard Bank Art Gallery in Johannesburg (which in turn sparked a journal article and catalogue essay by Brenda Schmahmann). Also noteworthy is Prof Dominic Thorburn’s participation in two international group exhibitions.

PROFESSOR BRENDA SCHMAHMANN
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Simbao,R


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Schmahmann,B


Simbao,R


OTHER PUBLICATIONS

Schmahmann,B


Simbao,R


Thorburn,D

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

de Jager, M

Schmahmann, B


Simbao, R


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Schmahmann, B

Simbao, R

Thorburn, D

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

de Jager, M

Dixie,C


Hipper,M

Meistre,B

Thorburn,D


DISTINGUISHED VISITORS

Cruise,W

Farber,L

Viljoen,S

Younge,G

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<td>Schmahmann,B. &quot;Figuring Maternity: Christine Dixie's Parturient Prospects&quot;. <em>De Arte</em>. 2007. 75,25-41.</td>
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<td>Simbao,R. &quot;The Thirtieth Anniversary of the Soweto Uprisings: Reading the Shadow in Sam Nzima’s Iconic Photograph of Hector Pieterson&quot;. <em>African Arts</em>. 2007. 40(2),52-69.</td>
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<td>Simbao,R. &quot;Credo Mutwa: Time Unraveller&quot;. <em>Art South Africa</em>. 2007. 5(4),42-45.</td>
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### POSTGRADUATE SUBSIDY UNITS *

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
GEOGRAPHY

A new focus of research in the department in 2007 has been the Karoo – Professor Etienne Nel has been investigating the economic geography of small Karoo towns with research students; and Professor Kate Rowntree is researching land degradation with our visiting Professor Ian Foster (Coventry) and other international geomorphologists (Dr John Boardman from Oxford and Dr Tim Mighal from Aberdeen). Their research in 2007 was funded through a grant from the British Academy.

Professor Fox continues to make a significant contribution to research into the teaching of geographical concepts. Professors Roddy Fox and Kate Rowntree continued to develop the role playing African Catchment Game, not only with students from our own department, but also through the Summer School run by the Rhodes’ International Office and Högskolan Väst in Sweden, where Professor Fox is Guest Professor for the International Programme in Politics and Economics. In Sweden we were joined by a colleague from the Finland Futures Academy in Turku, Finland, Ms Johana Ollila. We have received funding from the Centre for International Mobilities North-South-South Programme (Finland) to develop joint teaching and research initiatives between ourselves, Finland and Kenya. At the end of 2007 Professors Fox and Rowntree visited Kenya to set up a collaborative teaching link with Kenyatta University. Unfortunately the violent political turmoil in Kenya means that we must put this initiative on hold until stability returns.

2007 was the fifth year of the Linnaeus-Palme Programme that funds student exchanges between our department and Högskolan Väst. This year our students investigated the geographical impact of creative industries in Western Sweden under the guidance of Dr Per Assmo and Professor Roddy Fox.

Research into integrated water resource management in the Kat valley, supported by the Water Research Commission, is now drawing to its close with the development of a catchment management plan with the Kat River Water User Association. Dr Stefano Farolfi from the University of Pretoria played an active role in this research through the development and application of the KatAware model within the context of the Companion Modelling approach. The Kat valley was used to pilot an evaluation process for this approach that will be used world-wide.

Professor Lewis took sabbatical leave during the first half of 2007 and spent time researching the geomorphology of a volcanic island. He was also active in contributing to research on the marine carbon reservoir.

Ms Gillian McGregor has played an active role in the Thicket Forum as Chairperson (2007-2008) and conference organiser for the 42nd Annual Congress of the Grassland Society of Southern Africa and the 4th Annual Meeting of the Thicket Forum. She and three students presented papers at this conference. Ms Michaela Piehl was awarded the prize for the best student presentation.

Professors Fox and Rowntree presented papers at the biennial conference of the Society of South African Geographers held at the Nelson Mandela University and Professor Lewis at the Conference of Irish Geographers in Dublin. Our Honours students all presented papers at the annual Geography Students Conference hosted in 2007 by Nelson Mandela Metropolitan University.

At the end of 2007 we said goodbye to Professor Lewis who had reached retirement and Professor Etienne Nel has taken two years unpaid leave to undertake collaborative research with Professor Tony Binns at Otago University, Dunedin, New Zealand. The gaps left by Professor Lewis and Nel have been ably filled by Ms Leanne Du Preez, who joined us in 2007 through the Mellon Foundation Programme for Accelerated Development and Mr Gijsbert Hoogendoorn who joins us in 2008 from the University of the Free State.

PROFESSOR KATE ROWNTREE
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Foster,IDL

Fox, RC

Fox, RC, Rowntree, KM and Chigumira, E

McGregor, G

Nel, EL


Rowntree

Shahid, S

**OTHER PUBLICATIONS**

Lewis, CA

**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS AND ATTENDANCE)**

i. Local Conferences (Within South Africa)
Fox, RC

McGregor, G

McGregor, GK

Piehl, M and McGregor, G

Rowntree, KM

van der Merwe, L and McGregor, G

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Fox, RC

Lewis, CA

McGregor, G

INTERNATIONAL VISIT

Fox, RC
Lewis, CA
Lewis, CA. National Trust, Jamestown, St Helena. Research into geomorphology and marine carbon reservoir. 1 February - 30 April 2007.

Rowntree, KM

DISTINGUISHED VISITORS

Assmo, P

Foster, I

Hietanen, O

McQuaid, R

Mighall, T

Ollila, J

JOURNAL SUBSIDY UNITS

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**Foster, IDL**


**Fox, RC**


**Nel, EL**


Nel, EL, Bek, D and Binns, T. “Alternate Foods and community-based development: Rooibos tea production in South Africa’s West Coast mountains”. *Applied Geography*. 0.34
2007. 27.112-129.


TOTAL FOR GEOGRAPHY 7.79

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
GEOLOGY

The Geology Department’s published research outputs in 2007 show a significant improvement over previous years with 10 papers in international peer-reviewed journals and several chapters in the long-awaited book “The Geology of South Africa”. This book has been a decade in the making and comprises chapters on every aspect of South African geology, each chapter written by researchers who have contributed significantly to the rock sequences covered in each chapter. Of the 32 chapters, Rhodes University researchers have authored or co-authored 5 chapters.

In the current period of a commodities boom with countless well-remunerated geology jobs on offer it has been difficult to attract or retain students into research-based Masters and Doctoral programmes. During 2007 registrations amounted to 4 MSc and 1 PhD student. With better funding for research students becoming available in the future, the Department hopes to improve on these numbers. Prof Marsh was awarded a B rating by the NRF in 2007, a rating status that he has maintained without interruption from the inception of the rating system in the early 1980s. Rated academic staff members in the Geology Department now number 5 out of a complement of 7.

As with 2006, a feature of the Department’s research is the strong international collaboration in most of the research being done in the Department. The Xstrata Research Fellow, Dr Cabral, works closely with colleagues in Germany and Brazil. Dr Bordy’s participation as a principal investigator on a joint Hungarian-South African co-operation programme continued as did Dr Prevec’s links with the Science Academy of Finland. Prof Marsh’s collaboration with scientists from the Institut de Physique du Globe de Paris was formalized when he became the Principal South African investigator in one of the projects of the joint South African-French “Khure Africa” programme. Dr Tsikos collaborates with a wide range of European-based scientists investigating biogeochemical cycles in the near surface environment, both ancient and modern, using novel isotope systems. Drs Cabral and Büttner received funding from the DAAD (Germany) to purchase an INCA Energy 350 energy dispersive analytical system which will be fitted to the University’s TESCAN Vega scanning electron microscope, housed in the Electron Microscope Unit. This will support both Dr Cabral and Dr Büttner’s research (into fine-grained alteration mineral assemblages and composition variation in deformed minerals, respectively) but will also find application in many other research fields.

PROFESSOR GOONIE MARSH
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Eales,H.V.  

Eales,HV  

Marsh,JS  


Moore,JM  

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Böttner, SH


Cabral, AR
Cabral, AR and Beaudoin, G. “Volcanic red-bed copper mineralisation related to submarine basalt alteration, Mont Alexandre, Quebec Appalachians, Canada”. Mineralium Deposita. 2007. 42,901-912.


Hammond, NQ, Moore, JM and Sheets, RW
Hammond, NQ, Moore, JM and Sheets, RW. “Physico-chemical conditions of ore-forming fluids associated with genesis of the Kalahari Goldridge deposit, Kraaipan Greenstone Belt, South Africa”. Ore Geology Reviews. 2007. 30,106-134.

Marsh, JS

Tsikos, H
Jenkyns, HC, Mathews, A, Tsikos, CH and Erel, Y. “Nitrate reduction, sulfate reduction and sedimentary iron isotope evolution during the Cenomanian-Turonian oceanic anoxic event”. Paleoceanography. 2007. 22(PA3208), (Online).


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)
Cabral, AR and Tsikos, H

Segwabe, T and Bordy, EM

Tsikos, H


Tsikos, H, Kalumbu, J, Shivute, F and Moore, JM

INTERNATIONAL VISIT

Bordy, EM

Moore, JM


Moore, JM. IAMGold/MSc student project, Mwanza, Tanzania. Archaean gold research. 10 - 18 November 2007.

DISTINGUISHED VISITORS

Sztano, O

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93
basalt alteration, Mont Alexandre, Quebec Appalachians, Canada”. *Mineralium Deposita*. 2007. 42,901-912.

Cabrал, AR and Lehmann, B. “Seleniferous minerals of palladium and platinum from ouro preto-bearing mineralisation in Brazil”. *Ore Geology Reviews*. 2007. 32,681-688. 0.50

Hammond, NQ, Moore, JM and Sheets, RW

Hammond, NQ, Moore, JM and Sheets, RW. “Physico-chemical conditions of ore-forming fluids associated with genesis of the Kalahari Goldridge deposit, Kraaipan Greenstone Belt, South Africa”. *Ore Geology Reviews*. 2007. 30,106-134. 1.00

Marsh, JS


Tsikos, H

Jenkyns, HC, Mathew, S, A, Tsikos, H and Erel, Y. “Nitrate reduction, sulfate reduction and sedimentary iron isotope evolution during the Cenomanian-Turonian oceanic anoxic event”. *Paleoceanography*. 2007. 22(PA3208), (Online). 0.25


van Breugel, Y, Schouten, S, Tsikos, H, Erba, E, Price, GD and Sinninghe Damste, JS. “Synchronous negative carbon isotope shifts in marine and terrestrial biomarkers at the onset of the early Aptian oceanic anoxic event 1a: Evidence for the release of 13C-depleted carbon into the atmosphere”. *Paleoceanography*. 2007. 22, (Online). 0.17

TOTAL FOR GEOLOGY 3.93

**POSTGRADUATE SUBSIDY UNITS**

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
HISTORY

The History Department had another productive year in 2007. Professor Julia Wells’ book, *Rebellion and Uproar: Makhanda and the Great Escape from Robben Island, 1820*, was published by UNISA Press. Professor Gary Baines and Dr Enocent Msindo had articles published in the two leading African history journals - the former in the *International Journal of African Historical Studies*, the latter in the *Journal of African History*. Dr Alan Kirkaldy organised an important conference on Christian missions in nineteenth and twentieth century South Africa, held at Rhodes in July, and delivered a paper at the conference. Professor Paul Maylam delivered papers at international conferences in Japan and the UK.

Felistsus Kinyanjui obtained a Ph.D degree for her thesis on the Thika District of Kenya. Nomalanga Mkhize, Linda Schwartz and Stephanie Victor also graduated after successfully completing their MA theses.

PROFESSOR PAUL MAYLAM
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

**Baines,G**

**Wells,J**

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

**Baines,G**


**Msindo,E**

**Wells,J**

OTHER PUBLICATIONS

**Baines,G**


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Kirkaldy, A

Kirkaldy, A

Kirkaldy, A and Kriel, L

Maylam, P R


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Baines, G

Kirkaldy, A

DISTINGUISHED VISITORS

Steyn, P
Dr P Steyn. University of Stirling, Stirling, Scotland. Lecture entitled 'Apartheid and the Environment'.
March 2007.

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

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<td>History Making and Present Day Politics</td>
<td>The Politics of public history in post-apartheid South Africa</td>
<td>Baines, G</td>
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HUMAN KINETICS AND ERGONOMICS

The department published a number of peer-reviewed national and international papers, and further contributed to top national and international conferences. In total 13 contributions were published.

Four papers were produced by students as first authors, demonstrating the quality of student projects and the competency acquired. As a result, the topics of the published papers were widespread across the whole range of activities in Human Kinetics and Ergonomics, from studying the effect of training on blood liquid profile to studying the impact of visual distraction on motor performance.

Aside journal presentation the department showed face with oral presentations at the 12th International Conference on Human-Computer Interaction (HCI) to the 10th Congress of the Ergonomics Society of South Africa, further with posters the 6th National Physical Activity Conference and at the 12th International Conference on Human-Computer Interaction (HCI).

PROFESSOR MATTHIAS GOBEL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Christie, CJ and Todd, AI

Todd, AI, Bennett, AI and Christie, CJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Bennet, AI, Freeland, H & Todd, A

Christie, CJ and Jackson, L

Elliott, A and Goebel, M

Goebel, M


Kelly, JA and Christie, CJ
Mattison, MC and Goebel, M  

Ngcamu, NS and Zschenack, S  

Scott, PA  

Skelton, S and Goebel, M  

Wolfe, AM and Christie, CJ  

Zschenack, S  

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Christie, CJ and Thorneycroft, K  

Goebel, M  


Scott, PA  


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TOTAL FOR HUMAN KINETICS AND ERGONOMICS 1.00
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

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<td>A comparison of the risk factors for coronary heart disease in two male population groups in the Eastern Cape</td>
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<td>Theory and application in ergonomics-is there a gap between?</td>
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<td>The Challenge of interdisciplinary co-operation in Ergonomics</td>
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<td>The effect of load on biomechanical responses during dynamic pushing and pulling tasks</td>
<td>Bennet, AI, Feeland, H &amp; Todd, A</td>
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<tr>
<td>10th ESSA Conference</td>
<td>The evaluation of self optimisation of working pace as a method for work design</td>
<td>Ngcamu NS and Zschernack S</td>
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ICHTHYOLOGY AND FISHERIES SCIENCE

The Department of Ichthyology and Fisheries Science undertook a variety of marine and freshwater research projects with an emphasis on developing sustainable fisheries management, aquaculture technology and understanding the fundamental biology of various fish species. An active collaboration with the aquaculture industry co-funded by the Marine and Coastal Management focussed supported the first commercial aquaculture production of kob, the improvement of techniques for abalone farming and the reuse of abalone farm water for the culture of complementary species such as kob and bloodworm for bait. Insights into the life history and movement of ragged tooth sharks as well as squid provided valuable information upon which to base resource management decisions. Emeritus Professor Tom Hecht’s project to develop culture technology for sole yielded promising results and is being continued on pilot scale on a commercial fish farm. Staff of the DIFS continued to play an advisory role to government on various aspects of aquaculture and fisheries policy and planning.

PROFESSOR PETER BRITZ
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bernatzeder,A and Britz,PJ

Booth,AJ

CHILD,A-R

Dicken,ML and Booth,AJ

Gray,M and Kaiser,H

Gray,MS, Hecht,T and Sauer,WHH

James,N and Kaiser,H
James,N, Cowley,P, Whitfield,A and Kaiser,H. “Choice chamber experiments to test the attraction of postflexion Rhabdosargus holubi larvae to water of estuarine, riverine and coastal origin”. Estuarine Coastal and Shelf Science. 2007. 11,1-7.

Jones,CLW, Kaiser,H and Hecht,T

Kaiser,H
Kerwath, SE, Gotz, A and Sauer, WHH


Lockyear, JF, Hecht, T and Kaiser, H

Magellan, K


Marriott, MS

Naran, D

Oosthuizen, A and Sauer, WHH

Sauer, WHH
Melo, Y and Sauer, WHH. “Determining the daily spawning cycle of the chokka squid, loligo reynaudii off the South African Coast”. Reviews in Fish Biology and Fisheries. 2007. 17,247-257.

Sauer, WHH and Booth, AJ

Smith, MKS, King, CM and Sauer, WHH

Thompson, EF and Hecht, T
Thompson, EF, Strydom, NA and Hecht, T. “Larval development of Dageticichthys marginatus (Soleidae) obtained from hormone-induced spawning under artificial rearing conditions”. Scientia Marina. 2007. 71(3), (Online).

Walmsley, SA and Sauer, WHH

Weyl, OLF, Potts, W, Rohani, Q and Britz, P
Whitehead, A and Weyl, OLF

OTHER PUBLICATIONS

Britz, PJ

Britz, PJ and Shipton, T

Da Silva, C

Hecht, T

Kaiser, H

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Benjamin, S, Jones, CLW and Britz, PJ

Britz, PJ and Shipton, T


Collett, PD, Vine, NG and Kaiser, H

Esterhuizen, A, Jones, CLW and Britz, PJ
Green, AJ, Jones, CLW and Britz, PJ

Halley, K, Vine, NG and Kaiser, H

Johnson, A, Esterhuizen, A, Jones, CLW and Britz, PJ

Magellan, K

Musson, M, Vine, NG and Kaiser, H

Naylor, M, Thompson, E and Kaiser, H

Nicole, N, Vine, NG and Kaiser, H

Paulet, TG, Britz, PJ and Jones, CLW

Thompson, E, Markovina, M, Ende, S, Kaiser, H and Hecht, T

Vine, NG


Vine, NG and Kaiser, H

Woolley, L, Jones, CLW and Britz, PJ

Yearsley, RD, Jones, CLW and Britz, PJ


DISTINGUISHED VISITORS

Hanselman, D

Moltschaniwskyj, N

Shotwell, SAK

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<td>James, N, Cowley, P, Whitfield, A and Kaiser, H. &quot;Choice chamber experiments to test the</td>
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attraction of postflexion Rhabdosargus holubi larvae to water of estuarine, riverine and coastal origin”. *Estuarine Coastal and Shelf Science*. 2007. 11,1-7.

Jones, CLW, Kaiser, H and Hecht, T


Kaiser, H


Kerwath, SE, Gotz, A and Sauer, WHH


Lockyear, JF, Hecht, T and Kaiser, H


Magellan, K


Marriott, MS


Naran, D


Oosthuizen, A and Sauer, WHH


Sauer, WHH


Sauer, WHH and Booth, AJ


Smith, MKS, King, CM and Sauer, WHH


Thompson, EF and Hecht, T

Thompson, EF, Strydom, NA and Hecht, T. “Larval development of Dagetichthys marginatus (Soleidae) obtained from hormone-induced spawning under artificial rearing conditions”. *Scientia Marina*. 2007. 71(3), (Online).

Walmesley, SA and Sauer, WHH


Weyl, OLF, Potts, W, Rouhani, Q and Britz, P

Weyl, OLF, Potts, W, Rouhani, Q and Britz, P. “The need for an inland fisheries policy in...

Whitehead, A and Weyl, OLF


TOTAL FOR ICHTHYOLOGY AND FISHERIES SCIENCE 15.21

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
INFORMATION SYSTEMS

A total of 29 post-graduate honours (26), masters (1) and doctoral (2) students engaged in a variety of research projects during the year, all of whom except the one doctoral student are expected to graduate.

Areas of research included: advanced learning technologies, data warehousing, global software development, requirements management, RFID, ICT for sustainable development, alignment of business and IT strategy, ICT Service management, ICT sustainability reporting.

Members of staff and students participated in a number of local and international conferences notably: SAICSIT (South African Institute of Computer Scientists and Information Technologists), ECICT (Eastern Cape Information and Communication Technology) Research Rumble for post-graduate students, Gartner, Afrigraph, SATNAC (Southern African Telecommunication Network and Applications Conference), ISD (International Conference on Information Systems Development) in Ireland, CSITeD (Computer Science + Information Technology Education) in Mauritius, ICALT (IEEE International Conference on Advanced Learning Technologies) in Japan. ITSMF-USA (Information Technology Service Management Forum) in the USA.

ABSA Bank, through their long-standing membership of the Department’s industry Advisory Board, continued to fund access to the prestigious Gartner Reports. The Reports are a valuable source of information for research at all levels.

The Department welcomed Prof Greg Foster to the staff. His specific areas of research interest lie in HCI and veterinary informatics. Prof Malcolm Sainsbury, Visiting Professor, spent valuable in the Department working and collaborating with staff and students in the area of Information Systems Management.

PROFESSOR DAVE SEWRY
HEAD OF DEPARTMENT

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Benyon,RV and Sewry,DA

Liu,H and Upfold,CT

McNeill,JB

Pade,CI and Sewry,DA

Sewry,DA

ii. International Conferences (Outside South Africa)
Benyon, RV

Foster, G


Mallinson, BJ

Mallinson, BJ and Vos, L

Pade, CI, Mallinson, BJ and Sewry, DA

Palmer, LP

DISTINGUISHED VISITORS

Sainsbury, M

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| POSTGRADUATE SUBSIDY UNITS * |
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| Roets | Sewry | D | 3 |
| TOTAL | | | 4 |

* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
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<tr>
<td>Computer Science &amp; Information Technology Education Conference (CSITED 2007)</td>
<td>The Evolution of Student Systems Development Projects in the Post-Graduate Honours Degree Programme</td>
<td>Palmer L</td>
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</table>
INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA

Undertakings and achievements in the ISEA in 2007 included the following:

- **Wordfest 2007**, described as “the best ever”, was a hugely successful component of the National Arts Festival.
- The Institute hosted the Shakespeare Society’s 7th Triennial Congress, which included a very successful 3-day international conference on the theme, ‘The International Spread of Shakespeare’.
- Chris Mann won this year’s Thomas Pringle Prize for poetry, awarded by the English Academy of Southern Africa. His prize poem “Seahorse,” was published in *New Contrast*.
- Under formidable time constraints, Margie Probyn and Monica Hendricks, with help from others, conceptualised, designed, wrote and published important teaching and learning materials for the Department of National Education’s Zenex Dinaledi programme. The programme sets out to improve English teaching in selected secondary schools, and it was rolled out in Limpopo and KwaZulu-Natal in May/June 2007; Gauteng and the Western Cape will follow in 2008.
- The new ACE (ELT) programme for in-service English teachers in the Fort Beaufort/ King William’s Town districts, funded by the Zenex Foundation, is under way, with substantial in-school support from ISEA. A comparative study is in progress to measure the effectiveness of the intervention.
- In order to achieve a better publication footprint in Africa, arrangements have been made to have *Shakespeare in Southern Africa* and *English in Africa* distributed by African Journals Online (AJOL). This electronic publisher offers a substantial number of free downloads to recognised African academic institutions. In this way, ISEA hopes to attract more contributors and readers from among African academics working in institutions which currently cannot afford print subscriptions. The move will also increase international availability of our periodicals, which are currently carried by EBSCO, Gale Publishing, Sabinet Online, and Chadwyck-Healey (ProQuest), in addition to their local and international print subscription bases.
- Two articles from *Shakespeare in Southern Africa* have this year been selected for international republication: Signe Hansen’s article “Shakespeare’s Un(wh)oly Trinities: Female Identity in Venus and Adonis and The Rape of Lucrece,” in vol. 13, 2001, pp. 65-75 will appear in Gale’s series *Poetry Criticism*, vol. 89, 2008; and Rajendra Chetty’s piece, “Fletcher’s The Tamer Tamed: A Rediscovered Jacobean Text,” in vol. 15, 2003, pp. 91-96, which will appear in *Literature Criticism from 1400-1800*, vol. 151, also published by Gale.
- Praise for *English in Africa* and its editors over the years appears in a recent scholarly book assessing South African literary journals: *English in Africa* evinces a consistency in policy and content, and therefore, a clearer identity, than any of the other journals under review, all the more remarkable considering its 30-year lifespan and the numerous editors who have presided over policy - - - None of the other journals - - - can match the persistent and pervasive attention paid to Southern African literary production by this journal - - - In terms of criticism, *EA* can justifiably be characterised as the most Afro-centric of the 11 journals under review - - - a journal whose identity has been remarkably strong and uniquely consistent. (Derek Barker: *English Academic Literary Discourse in South Africa 1958-2004: A Review of 11 Academic Journals*. Ed. Norbert H. Platz. Trier, Germany: OPUS, 2007, pp. 73-76.)
- *Shakespeare SA*, the performance wing of the Shakespeare Society, undertook a wide-ranging tour through the Eastern Cape and KwaZulu-Natal, with productions of *Hamlet* and *As You Like It* directed by Paige Newmark.
- The Len Lanham Seminar Room was officially opened at a small ceremony following the ISEA Board’s AGM on October 31, 2007. We were delighted that Pat Lanham could join us for the occasion as guest of honour.

PROFESSOR LAURENCE WRIGHT
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Probyn, MJ
Wright, LS

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Hendricks, MG
Hendricks, MG. “Dinner party guests and guys around a fire: co-existing cultural conceptions of in school writing”. English Academy Review. 2007. 24(2), 102-120.

Mann, C

Pearce, BM
Pearce, BM. “Hamlet, the Actor”. Shakespeare in Southern Africa. 2007. 19, 63-69.

Wright, LS

OTHER PUBLICATIONS

Berold, R

Mann, CM


Pearce, BM


Wright, LS


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)
i. Local Conferences (Within South Africa)

Hendricks, MG and Lekena, T

Pearce, BM

Probyn, MJ

Quince, WR

Wright, LS

ii. International Conferences (Outside South Africa)

Hendricks, MG


Wright, LS

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Mann, CM


Ecology and Literature Colloquium. Mthunzini. Durban, South Africa. 5 October 2007

Port Shepstone High School. Durban, South Africa. 5 October 2007.

University of KZN. Pietermaritzburg, South Africa. 8 October 2007.

DISTINGUISHED VISITORS

Bradshaw, G

Cartelli, T

Neill, M

JOURNAL SUBSIDY UNITS

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<td>“Dinner party guests and guys around a fire: co-existing cultural conceptions of/in school writing”.</td>
<td>English Academy Review</td>
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<td>Mann, C</td>
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<td>2007. 19(1),21-51.</td>
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<td>Pearce, B.M</td>
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Wright, LS


TOTAL FOR INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA 3.50

**POSTGRADUATE SUBSIDY UNITS**

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*2007 graduates. The record of 2006 graduates can be found in the Appendix.

**BOOKS SUBMITTED FOR POSSIBLE SUBSIDY**

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<tr>
<td>Shakespeare's Local Habitations</td>
<td>Shakespeare in South Africa</td>
<td>Wright, LS.</td>
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115
INSTITUTE FOR WATER RESEARCH

This report covers research highlights that are not covered by the submission of published journal articles and chapters in books.

• The IWR generated 33 scientific reports to its various research funders during 2007. Many of these were interim deliverable reports while several were final reports at the conclusion of projects.
• Conferences attended during 2007: IUGG (International Union of Geodesy and Geophysics) General Assembly in Perugia, Italy during July 2007 (Prof Hughes, Mr Sawunyama and Mr Kapangaziwiri), supported by Rhodes University, IAHS through the local organising committee and IWR funds. Two papers were presented and published in the proceedings.
• 13th SANCAHS National Hydrology Symposium in Cape Town during September (Prof Hughes, Mr Sawunyama and Mr Kapangaziwiri) supported by IWR funds. Three papers were submitted and Evison Kapangaziwiri was awarded the third student prize (value of R5 000) for his paper on ‘The development of physically-based parameter estimations methods for the Pitman monthly rainfall-runoff model’.
• Tendai Sawunyama was awarded a fellowship to attend a course that was part of the Advanced Institute on Global Environmental Change and the Vulnerability of Water Resources. The seminar was organised by the UNESCO-IHE Institute for Water Education and the Institute for Environmental Studies and held in Delft, the Netherlands during the September/October. The course was supported by the Global Change System for Analysis, Research and Training (START), in partnership with the Global Water System Project (GWSP), and with financial support from the Norwegian Agency for Development Cooperation (NORAD), the International Foundation for Science (IFS) and the Cooperative Programme on Water and Climate (CPWC).
• Mr Sawunyama was also invited by WaterNet to attend the 8th WaterNet/WARFSA/GWP-SA symposium held in Zambia during October and November. Mr Sawunyama was selected to be part of the task team to launch the WaterNet Alumni Association.
• 10th International River Symposium and Environmental Flows Conference, held in Brisbane, Australia, during September 2007 (Dr Muller and Dr Mantel) supported by Rhodes University, the organising committee and IWR funds. Two papers were presented.
• Mrs Lil Haigh was invited to present a paper in a plenary session of a conference entitled: “Water for Local Needs -The Contribution of Local Governments to Integrated Water Resources Management (IWRM)” held in Benoni during July and organised by the European Union financed project ‘LoGo Water – Towards effective involvement of local government in Integrated Water Resources Management (IWRM) in river basins of the Southern African Development Community (SADC) region’.
• Prof Hughes attended the World Bank, Water Week meeting in Washington and presented a paper.

The Institute has 6 registered PhD and 3 MSc students (in either Hydrology or Water Resource Sciences) as well as assisting with supervision of 1 PhD and 1 MSc students in Ichthyology. The Institute hosted 3 post-doctoral students during 2007.

Other highlights:
• Prof Hughes was appointed as the facilitator for chapter 2 (‘State of the Resource’) of the UNESCO Third World Water Development Report. This is a global report on the state of global water resources that is published by UNESCO every three years. He was also re-elected as a vice-president of the IAHS commission on surface water. Prof Hughes was selected to be the regional coordinator for the Southern Africa FRIEND project (a UNESCO IHP initiative), serves on the South African Committee for the UNESCO IHP and remains chairperson of SANCAHS (South African Committee for the International Association of Hydrological Sciences).
• Dr Muller became the Deputy Director of the IWR and continues to serve on the Board of Amatole Water.
• Dr Tandlich has been involved in establishing a working relationship with the communities of the Grahamstown suburbs in relation to water-related issues. Project results were presented as a poster at the 2007 Eskom Expo for Young Scientists by Siphelele Dyongman (Nathaniel Nyaluza High School), which won a Gold medal at the Regional Expo in Grahamstown during July and the bronze medal at the National Expo in Pretoria during September.
BOOKS/CHAPTERS/MONOGRAPHS

Hughes, DA


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Hughes, DA


Smakhtin, VU and Hughes, DA. “Automated estimation and analyses of meteorological drought characteristics from monthly rainfall data”. Environmental Modelling and Software. 2007. 22,880-890.

Mantel, SK


Rivers-Moore, NA

Rivers-Moore, NA, De Moor, FC, Morris, C and O’Keeffe, J. “Effect of flow variability modification and hydraulics on invertebrate communities in the Great Fish River (Eastern Cape, South Africa), with particular reference to critical hydraulic thresholds limiting larval densities of Simulium chutteri Lewis (Diptera, Simuliidae)”. River Research and Applications. 2007. 23,201-222.

Slaughter, AR, Palmer, CG and Muller, WJ


Tandlich, R


OTHER PUBLICATIONS

Gordon, AK, Slaughter, AR and Muller, WJ


Hughes, DA


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Haigh,EH

Hughes,D and Kapangaziwiri,E

Hughes,DA

Kapangaziwiri,E and Hughes,DA

Muller,WJ

Sawunyama,T and Hughes,DA

ii. International Conferences (Outside South Africa)

Hughes,DA

Hughes,DA and Muller,WJ
Hughes,DA, Mallory,SJL and Muller,WJ. "Integrating the environmental water requirements of rivers into operational water resource management - an example from South Africa". 10th International River Symposium and Environmental Flows Conference. Brisbane Convention and Exhibition Centre, Brisbane. Australia. September 2007.
Mantel, SK, Hughes, DA and Muller, WJ

Sawunyama, T and Hughes, D

Sawunyama, T, Kapangaziwiri, E and Hughes, D

**JOURNAL SUBSIDY UNITS**

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<td>“Effect of flow variability modification and hydraulics on invertebrate communities in the Great Fish River (Eastern Cape, South Africa), with particular reference to critical hydraulic thresholds limiting larval densities of Simulium chutteri Lewis (Diptera, Simuliidae)”. River Research and Applications. 2007. 23,201-222.</td>
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**TOTAL FOR INSTITUTE FOR WATER RESEARCH**

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**POSTGRADUATE SUBSIDY UNITS**

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

The ISER produced a number of exciting outcomes during 2007 including the launching of an Annual Summer School and the hosting of renown Prof Giovanni Arrighi and Prof Beverly Silver, both historical sociologists in the World systems tradition from The Johns Hopkins University, Baltimore. They presented a joint lecture “Adam Smith in Beijing and Karl Marx in Shanghai” which was attended by over 200 academics and students. Prof Arrighi delivered three seminars at Rhodes University and a lecture at Fort Hare University. Additionally, he held a workshop on “Labour supplies in Comparative Perspective: The Southern Africa Paradigm Revisited” to which experts in the field from other South African universities were invited.

Prominent Eastern Cape author and former ANC member of parliament Prof Jeff Peires, joined us at ISER as Honorary Professor. He has set up research teams to study the cultural and political aspects of Eastern Cape specifically the Chris Hani Liberation Heritage Route. He has significantly expanded the research focus and publication output of the institute to include contemporary political history.

Our research output in Biocultural Diversity Conservation remains vigorous with new funding for the coming two years to investigate rural peoples’ cultural landscapes and the implications for biodiversity and nature conservation in the context of the political and land-use history of South Africa. Dr Cocks completed her PhD. Prof Møller, the new Quality of Life Chair, conducted two major surveys has produced two volumes of Social Indicators. Valerie Møller guest-edited a special issue on ‘Quality of Life in South Africa Ten Years into Democracy’ that was published in the Social Indicators Research. The “State of the Eastern Cape” book is under publisher’s review and we are initiating the next phase of writing, addressing gaps and new challenges for the next edition. During 2007 we developed links with local and provincial government and civil society on priority research matters. Our research work with the Makana Municipality has proved very worthwhile with the development of a Makana Research Group at the university and co-ordinated by ISER.

Our staff have significantly increased the level of research output. Our links with Eastern Cape scholars, NGOs and the Rosa Luxemburg Foundation were further consolidated during 2007 with a successful Summer School taught by Rhodes University staff. This provided an opportunity for Rhodes researchers to interact with key activists and thinkers in the Eastern Cape community.

PROFESSOR GREG RUITERS
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Desai,A

Farrington,KJ

Møller,V
Møller,V. "Guest editor. Quality of Life in South Africa - Ten Years into Democracy”. In: Social Indicators Research. 2007. 81(2).


Peires, J

Ruiters, G

Ruiters, GD

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Desai, A

Møller, V
Møller, V. “Quality of life in South Africa: The first ten years of democracy”. Social Indicators Research. 2007. 81(2), 181-201.

Møller, V and Erstad, I

Ruiters, G

Timmermans, H G, Nongwe, N and Hamer, N

OTHER PUBLICATIONS

Cocks, M L


Møller, V

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)
Cocks, ML


Møller, V and Erstad, I

Ruiters, G.D


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Cocks, ML

Møller, V

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS**

Cocks, ML


**INTERNATIONAL VISIT**

Cocks, ML

---

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<td>Desai,A. &quot;Taylorism and Mbekism&quot;. <em>Africanus</em>. 2007. 37(2),272-287.</td>
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<td><em>Møller,V</em>. &quot;Satisfied and dissatisfied South Africans: Results from the General Household Survey in International Comparison&quot;. <em>Social Indicators Research</em>. 2007. 81(2),398-415.</td>
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<td><em>Shackleton, C M, Timmermans, H G, Nongwe,N, Hamer,N</em> and <em>Palmer,N &amp; R</em>. &quot;Direct-use values of non-timber forest products from two areas on the Transkei Wild Coast&quot;. <em>Agrekon</em>. 2007. 46(1),135-156.</td>
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<td>Wellbeing in Developing Countries</td>
<td>Researching quality of life in a developing country: lessons from the South African case</td>
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<td>Medicinal and Aromatic Plants: Agricultural, commercial, ecological, legal, pharmacological and social aspects.</td>
<td>Cultivation of medicinal plants as a tool for biodiversity conservation and poverty alleviation in the Amatola Region, South Africa</td>
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</table>
INVESTEC BUSINESS SCHOOL

During 2007, the research activity of the Business School was once again primarily focused on supervising MBA dissertations and April witnessed the graduating of ten MBA students. The School is extremely grateful for the ongoing support received from other Departments who have made themselves available to assist in these supervisory responsibilities. This has continued to allow the MBA students to conduct their research in a wide range of disciplines related to Business Administration. This supervisory support has been reciprocated with the supervision by Business School staff of Masters and PhD candidates in other Departments.

In terms of academic staff, RIBS only has 2 full time and one half time members of staff. On this basis, the research output and research activity of RIBS in 2007 was deemed to be very satisfactory:

| Accredited journals | 3 |
| Papers presented at Local Conferences | 2 |
| Papers presented at International Conferences | 2 |
| Chapters in books | 1 |

In 2007 there was one PhD candidate registered in the School and 60 MBA students.

PROFESSOR GAVIN STAUDE
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Staude,GE
Staude,GE. "Chapter 2 Strategic Intent

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Pearse,NJ

Staude,GE

OTHER PUBLICATIONS

Whittington-Jones,KJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Pearse,NJ
Whittington-Jones, A and Pearse, NJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Whittington-Jones, KJ

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Whittington-Jones, K

DISTINGUISHED VISITORS

Arnott, J

Bruce, P

Cotterell, C

du Plooy, P

Graham, L

Khoza, R

Kirby, D

Kuzwayo, M

Powels, D

Shirinda, D

Sunter, C
### JOURNAL SUBSIDY UNITS

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**TOTAL FOR INVESTEC BUSINESS SCHOOL** 0.50

### POSTGRADUATE SUBSIDY UNITS *

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**TOTAL** 3

* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
JOURNALISM AND MEDIA STUDIES

During 2007, the range of research outputs expanded in the Department of Journalism and Media Studies (JMS). In keeping with previous years, publications in accredited journals and book chapters were the work of the Media Studies lecturers, who made up 7 of the 19 full-time teaching staff. While this is explained by the fact that the Media Specialisation staff are appointed for their experience in media production and not their academic qualifications, it is notable that there has been an increase in attendance by all staff at conferences. Moreover, eight media production staff are registered for various post-graduate degrees. Forms of intellectual production other than scholarly publications included exhibitions; staff also published in a range of media, including Professor Berger’s fortnightly on-line column in the Mail & Guardian.

There were 41 registered MA and 4 PhD students in 2007. Highlights for 2007 included:

- JMS was identified as one of the twelve centres of excellence in a UNESCO survey of African journalism schools.
- Prof. Jackson Banda was awarded the MISA Zambia Media Freedom Award.
- The Centre for Economics Journalism in Africa was established.
- Grocott's Mail, affiliated to JMS and a vehicle for production experience for students, received the Sanlam Best Small Newspaper of the Year award, with three of its journalists receiving prizes.
- The second and final year of a two-year Investigative Journalism course sponsored by USAID had 73 participants.
- The eleventh Highway Africa conference, with the theme Quality and Professionalism in Journalism took place in September with 700 delegates from various African countries.
- The Future Journalists Programme was launched in 2007, which brought second year media students from tertiary institutions across South Africa together to engage with media professionals and media developments worldwide.
- Cue, the official newspaper of the National Arts Festival (in full colour for the first time), celebrated its 20th year; Cue TV ran a two-hour online breakfast show during the festival in collaboration with a lecturer and students from Utrecht Hogeschool, Netherlands; Cue Multimedia repurposed Cue articles and produced online multimedia; Cuepix produced a database of 4000 images, some of which were used in Cue.

PROFESSOR JEANNE PRINSLOO
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Banda,F


Berger,GJEG


Gordon,J


Prinsloo,J


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Banda,F


Banda,F and Steenveld,L


Berger,GJEG


Berger,GJEG. “Education is a spring. . . it bubbles” . Rhodes Journalism Review. 2007. 27,30-31.

Prinsloo,J


**OTHER PUBLICATIONS**

Banda, F.


Berger, G.J.E.G.


Brand, R.C.


Garman, A.C.


Hills, P.R.


**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)**

i. Local Conferences (Within South Africa)

Banda, F.


Berger, GJEG


Boshoff, PA

du Toit, JE

Hills, PR

Prinsloo, J
Steenveld, L

Steenveld, L. N

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Banda, F


Berger, GJEG


Berger, GJEG. "Getting the most global medium to live up to its global promise. Keynote address". 8th International Symposium on Online Journalism, organized by the Knight Chair in Journalism and the UNESCO Chair in Communication at the University of Texas at Austin. University of Texas, Austin. USA. March 2007.


Brand, RC


Kabwato, C


Prinsloo, J


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS**

Banda, F


Brand, RC


Gordon, J


Hills, P


Rumney, RW

Schoon, AJ


Schoon, AJ. Director. "Luvuyo Mjekula (TV magazine insert)". Mantswe a Bonono. SABC2. South Africa. 3 November 2007.


INTERNATIONAL VISIT

Berger, GJEG

Berger, GJEG. University of Tampere, Tampere, Finland. Guest lectures given. 22 - 23 September 2007.


Brand, RC

Steenveld, L

DISTINGUISHED VISITORS

Banda, F
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<td><strong>Berger,GJEG</strong></td>
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<tr>
<td><em>Berger,GJEG.</em> “In search of journalism education excellence in Africa: summary of the 2006 UNESCO project”. <em>Ecquid Novi</em>. 2007. 28(1&amp;2),149-155.</td>
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<td><strong>Prinsloo,J</strong></td>
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<td><em>Prinsloo,J.</em> “Making visible constructions of disadvantage through genealogical investigations - South African schooled literacies”. <em>Critical Arts</em>. 2007. 21(1),190-211.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

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LAW

The Law Faculty continued its tradition of being one of the top research departments in the University. Staff delivered a record number of 20 conference papers, 7 of them at international conferences, and also produced a book, 8 chapters in books and 12 published articles.

Our decision to promote research in the Faculty appears to be bearing fruit, and a word of thanks should be extended to Professors de Vos and Mqeke, who agreed to take the lead in this regard. They arranged in-house colloquia where some staff members presented their work in progress and also two public lectures where Melissa Lewis (“Delictual Liability of Pharmacists”) and Jonathan Campbell (“The exorbitant cost of small credit in the new National Credit Regulations”) showcased their completed Master’s research to a wider audience.

In June we hosted a research colloquium for Master’s students from Rhodes, Fort Hare and the Nelson Mandela Metropolitan University at which our three full-time Master’s students each presented a paper on their research.

We also explored possible research collaboration with other law faculties. Some staff members and our Master’s students attended a research seminar in Bloemfontein in June together with researchers from the University of the Free State and the two law faculties of the Northwest University (Potchefstroom and Mafikeng) and some judges from the Supreme Court of Appeal. Representatives from each faculty are now exploring possible areas for a joint research venture.

In all, a productive research year.

PROFESSOR ROB MIDGLEY
DEAN AND HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Driver, SEH


Glover, G

Keep, H

Keep, H and Midgley, JR

Kerr, AJ

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Campbell, J
Driver, SEH

Glover, G


Glover, G and Kerr, AJ

Kruger, R
Kruger, R. “‘Come back when you are 65, Sir’: Discrimination in respect of access to social assistance for the elderly”. Law, Democracy and Development. 2007. 10(2),

Midgley, JR


Plaskett, C

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Glover, G

Keep, H and Midgley, JR


Roberts, L

Van Coller, EH

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)
De Vos, W

Kruger, R

Midgley, JR

Midgley, JR and Keep, H

Van Coller, EH


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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
LIBRARY

Whilst one of the primary roles of the Rhodes University Library is to support the university’s research programmes and activities through its collections and access to its electronic resources, it is gratifying to note that an increasing number of library staff are active contributors to the research enterprise, across a diverse range of applied library and information activities, through national and international conference attendance, presentations and publications.

Institutional Repository (ReRR)

In response to global developments driven by Open Access Initiatives (OAI), changing research practices and digital preservation of scholarship, the Rhodes Library launched an Institutional Repository, known as the Rhodes eResearch Repository (ReRR) in 2006. Its purpose is to “showcase” the research scholarship of Rhodes University and to make it accessible to the international research community. Having been acknowledged as the first academic library in South Africa to make its Institutional Repository accessible via the Internet, the Rhodes Library is recognised as a leader, among academic libraries in South Africa, in a field where only five other Higher Education Institutions have internet based institutional repositories. Representatives from the Rhodes Library participate in the Steering Committee of the National Electronic Theses and Dissertations Initiative which is a collaborative NRF Project, together with the Committee of Higher Education Librarians in South Africa (CHELSA) to make the digital content of South African theses and dissertations accessible. Irene Vermaak, the Library ICT Co-ordinator, was invited to give presentations at two national fora on different aspects of institutional repository implementation.

During 2007, the ReRR continued to be well used with statistics of usage reflecting a 120% increase for both the number of visits to the site and the number of downloads of documents (over 280,000 downloads, which includes chapter downloads e.g. for theses). Ninety theses and 268 articles or other papers were added during the course of the year. The number of electronic theses submitted without the necessary permissions form, 25 of the graduates in 2007, limits the number of theses that can be loaded into the repository as there is no assurance that the student has given permission to provide open access to the thesis (Table 1).

Despite the pleasing usage of the ReRR, and the continued growth of the collection, Library staff are concerned that the repository is not yet integral to the research activities of the university. Investigation is underway to explore meaningful ways to measure and assess the benefits of institutional repositories and the extent to which they can support research activities. The Library Director presented a paper, entitled Measuring institutional repositories and organizational effectiveness: strategic positioning between a rock and a hard place, at the international 7th Northumbria Conference on Performance Measurement in Libraries held in Stellenbosch. The paper has been submitted for publication in 2008.

Table 1: Rhodes eResearch Repository: January to December 2006/2007

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Digitisation Projects

During 2007 the Library worked in close co-operation with several partners to build digital content of valuable collections which can be used for research and teaching purposes. The Library is particularly proud of its contribution towards the ILAM/South African Music Archive Project (SAMAP) which has digitized almost 10,000 sound recordings, dating back to the 1940s, and which are now available via Internet access (http://aboutdisa.ukzn.ac.za/samap/samap.htm).

and to make them accessible online. As of December 2007, 1474 digital images and 181 sets of metadata were submitted to DISA (http://aboutdisa.ukzn.ac.za/Phase2.html). Cory Library also loaned DISA selected numbers of the African Communist Journal for digitization purposes. The Journals will also be accessible online which will reduce the physical handling of the originals in the Cory Library, thus ensuring their long-term preservation. The role of the archives in preserving scholarship for future generations was presented by the Head Librarian: Cory Library for Historical research at an international conference in Tanzania. The paper has been submitted to the ESARBICA Journal for publication in 2008.

Consortial contributions

A central feature of the academic libraries in the Eastern Cape is the South Eastern Academic Libraries System (SEALS) consortium whose members are the 4 HEIs. An integrated library system, Millennium, is run in a shared server network environment managed by the Rhodes University IT Division. This configuration is regarded as an important model among South African consortia and Rhodes Library staff are often invited to give presentations about the impact of applications in the shared consortial environment as well as the libraries’ readiness for the challenges of a more digital environment. In 2007, Irene Vermaak and Anne Moon, presented papers at the annual Innovative User Group Conference of SA (IUG-SA).

General

In August 2007, the South African Library and Information Sector hosted for the first time in its history the World Library and Information Congress and 73rd International Federation of Library and Information Associations (IFLA) Conference and Council with the theme Libraries for the future: progress and development of South African Libraries. Together with four thousand five hundred delegates from across the world, four Library Staff members had the opportunity to attend this prestigious international conference.

As part of the celebration of this event, the Minister of Arts and Culture sponsored a publication by the same title with its purpose being that, “Not only does its publication mark a major intellectual achievement coinciding with the conference, it also marks a significant moment in the development of our libraries – a turning point in our approach to the dissemination of information and knowledge to enable our people” (Foreword, p.v). The Library Director was invited to contribute a chapter entitled Academic libraries and the second decade of democracy: critical issues & challenges.

GWENDA THOMAS
DIRECTOR: LIBRARY SERVICES

BOOKS/CHAPTERS/MONOGRAPHS

Thomas,GME

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Dampies,G

Moon,A
Vermaak, I


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Kabwato, S

Thomas, GME

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Vermaak, I

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<td>Libraries for the future: progress and development of South African libraries</td>
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<td>Academic libraries and the second decade of democracy: critical issues and challenges</td>
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<td>AUTHOR</td>
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MANAGEMENT

In 2007 the Department of Management continued to build a research focus in the department by strengthening the international research and teaching collaboration, increasing the number of post graduate students, involving post graduate students in international research collaboration projects and encouraging the integration between research and teaching. In an endeavour to do so the following achievements can be highlighted:

• Thirteen Master’s students were registered in the Department during 2007, four of whom are likely to graduate in 2008.
• In 2007 the Department had eight registered PhD students, two of whom are likely to graduate in 2008.
• Four post graduate students were given the opportunity of participating in an international project entitled Cross-Cultural Health Project Delivery in Sub Sahara Africa – The case of HIV/AIDS and TB in South Africa and Botswana. This is a joint project between Middlesex University, London in UK, University of Botswana, Rhodes University, Stellenbosch University and the Nelson Mandela Metropolitan University. During the course of the year the researchers involved attended research meetings in Port Elizabeth, Stellenbosch, Gabarone and London, the outcome of which will be four journal articles, workshops for health practitioners and a textbook.
• Five universities located in South Africa, Europe and the USA, namely Rhodes University, Nelson Mandela Metropolitan University, California State University, Fullerton, and University of Mississippi, both in the USA, and Nuertingen-Geislingen University in Germany have linked up to establish an integrated structure for consistently researching various aspects of cross-cultural communication and management across Africa. It is proposed that these research projects are replicated in the home country of the partner university and that the project team will strive jointly to disseminate their findings in published form. As member of the steering committee for this collaborative project, Prof Lynette Louw participated in a panel presentation at the 11th Annual International Education Association of South Africa (IEASA) Conference held in Port Elizabeth.
• Dr Roger Elliott in collaboration with a colleague from Stellenbosch University, Prof C Boshoff, published an article in the South African Journal of Business Management.
• Dr Roger Elliott also wrote two chapters for a book entitled “Services Marketing: A Contemporary Approach” edited by F Du Plessis and C. Boshoff. It is anticipated this book will be published towards June this year (2008). A chapter was also contributed by to a book edited by Dr Neil Harvey, formerly of the Management Department at Rhodes University, entitled “Managing a Turnaround”.
• Mr Trevor Amos and Dr Noel Pearse together with post graduate students in the Department published an article on the relationship between leadership and employee performance in the Commercium Journal.
• Two contemporary articles by Mr Trevor Amos on strategic leadership were published in Management Today.
• Ms A Whittington-Jones, Mr Trevor Amos and Dr Noel Pearse presented a paper on The development and implementation of a performance management system and questions of alignment: a South African case study at the European Institute for Advanced Studies in Management, 22nd Workshop on Strategic Human Resource Management, Brussels, Belgium
• The paper presented by Prof Lynette Louw at the Nelson Mandela Metropolitan University Office for International Education Colloquium will also be published in the Colloquium Series Journal.
• The paper presented at the Allied Academies International Internet Conference, USA by Prof Lynette Louw and Ms Dedre van Tonder, received a ‘Distinguished Research Award’ and will be published in an international journal in 2008.
• Dr Claude Mayer and Prof Lynette Louw presented a paper at the South African International Management Science (SAIMS) Conference in Johannesburg.
• The Department has also received international guests from England, Germany, Netherlands and the USA with the purpose of establishing collaborative research links.
• Dr Claude Mayer, a post doctoral candidate, made the following presentations in Germany:
  o Conflict Transformation and Culture in the South African workplace at the University of Goettingen.
  o Conflict experiences in an international organisation in South Africa at the University of Goettingen.
Transcultural conflict management in South Africa at the Ludwig-Maximilians-University in Muenchen.

- Mr Trevor Amos has been invited to serve on national editorial review boards for journals; and Prof Lynette Louw has been invited to serve on national and international editorial review boards for journals and conferences.

PROFESSOR LYNETTE LOUW
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Davidson,AJ, Hayward,BA, Pascoe,JB, Tasker,ML and Amos,TL


Elliott,RM


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Louw,L


Mayer,C-H and Louw,L


ii. International Conferences (Outside South Africa)

Amos,TL


Louw,L and van Tonder,D


INTERNATIONAL VISIT

Elliot,R


Louw,L

Louw,L. Shanghai Institute for Foreign Trade, Shanghai, China. Presented a course in Cultural Management. 4 - 15 June 2007.
Louw, L. Makarere University, Kampala, Uganda. External moderation for the Faculty of Economics and Management. 6 - 10 August 2007.

Louw, L and Louw, MJ
Louw, L and Louw, MJ. University of Applied Sciences, Neurtingen-Geislingen, Neurtingen-Geislingen, Germany. Attended the Steering Committee meeting for the international collaborative research project on cross cultural communication and management. Mr Louw also presented lectures in Human Resource and Cultural Management. 2 - 4 July 2007.

Louw, MJ
Louw, MJ. Shanghai Institute for Foreign Trade, Shanghai, China. Presented a Management course. 17 September - 1 October 2007.

Mayer, C-H
Mayer, C-H. University of Goettingen, Germany, Goettingen, Germany. Conflict Transformation and Culture in the South African workplace. 8 June 2007.


Mayer, C-H. Ludwig-Maximilians-University, Muenchen, Germany. Presentation of research findings on transcultural conflict management in South Africa. 27 June 2007.

DISTINGUISHED VISITORS

Bauer, U

Buijs, A and Beugels, J

Eggert, A
Professor A Eggert. University of Applied Sciences Anhalt, Town, Germany. Guest lecturer in the Department of Management. Attended the DAAD Alumni Eastern Cape Branch meeting at Rhodes University. Apr 2007.

Jackson, T

Wilcox, R G

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

**CONFERENCE PROCEEDINGS SUBMITTED FOR POSSIBLE SUBSIDY**

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<tr>
<td>19th Annual Conference of the Southern Africa Institute for Management Scientists</td>
<td>Management of transcultural conflict: a case study in the South African automotive industry</td>
<td>Louw L &amp; Mayer H</td>
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MATHEMATICS (PURE AND APPLIED)

Research highlights included the following:

- On 19 June 2007 our department hosted students and staff from the African Institute for Mathematical Sciences (AIMS).
- On 14 and 15 September 2007 our department hosted the annual Eastern Cape Postgraduate Seminar. The plenary speakers at this seminar were: Professor Sizwe Mabizela (Rhodes University) and Professor Ingrid Rewitzky (University of Stellenbosch). Seminar participants came from Nelson Mandela Metropolitan University, Tshwane University of Technology, Walter Sisulu University, University of Fort Hare, and University of Stellenbosch.
- In the fourth quarter of 2007 our department hosted Dr Gareth Witten, a mathematician and an independent consultant. During his stay in our department, Dr Witten presented lectures and supervised third year Mathematical Modelling projects. He also initiated joint research projects with Professor Mike Burton.
- The following members of the department attended and presented papers at the annual congress of the South African Mathematical Society held at the University of Cape Town from 30 October 2007 to 01 November 2007: Andrew Craig, Solomon Johnson, Prof Sizwe Mabizela, Dr Phethiwe Matutu, Dr Sakhile Ngcibi, and Zukisa Xotyeni. Ms Flavia Mpagi also attended the congress.

PROFESSOR SIZWE MABIZELA
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Matutu, P
Matutu, P. “Bi-Alexandroff Spaces”. Quaestiones Mathematicae. 2007. 30(1), (Online).

Matutu, P and Dube, T. “A few points on pointfree pseudocompactness”. Quaestiones Mathematicae. 2007. 30(3), (Online).

Matutu, P and Dube, T. “Pointfree pseudocompactness revisited”. Topology and Its Applications. 2007. 154(10), (Online).

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Craig, APK

Johnson, SN

Mabizela, SG

Matutu, P
Ngcibi, S

DISTINGUISHED VISITORS

Witten, G

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
MUSIC AND MUSICOLOGY

This has been a most prolific and highly successful year and arguably one of the most productive on both academic and performance fronts over the past decade. Despite the resignation of Professor David Scarr in March 2007 and Ms Daniela Heunis being on Sabbatical from July 2007 to June 2008 the staff have been extremely active in the life of the department.

A number of Conferences were attended by staff members commencing with The South African Society of Music Teachers in April which was held in the Music Department. As National President Dr Tim Radloff gave his address on the theme “Improvisation Re-visited. Two International musicians, Professor R. Rollin (Dana School of Music, Youngstown State University, USA) and Dr Graham Lea-Cox (Conductor of the Hanover Band/ Eighteenth Century Period Orchestra, Hove, England) together with Mr John Edwards, our own Jazz-Studies lecturer presented the three keynote lectures and accompanying workshops. In addition to many invited speakers two other staff members, Ms Daniela Heunis and Ms Carolyn Stevenson-Milln presented papers on this theme. Quite prophetically Dr Marc Duby, the newly appointed Professor and Head of the Music Department also read a relevant paper at this conference.

A second major conference The South African Society for Research in Music took place at the School of Music, University of Free State in August where four of the papers were delivered by three of our personnel. Assoc Prof Diane Thram also presented at The World Library and Information Congress (International Federation of Library Associations) in Durban.

Three articles were published in accredited journals. MMus student, Ms Boudina McConnachie successfully published a review article in African Music.

The members of the practical staff have been extremely active with Concerts and performances, plus workshops, adjudications and examining students. They have not only thoroughly taught and groomed their respective students but have been able to maintain their own public performances both nationally and internationally. Ms Catherine Foxcroft is to be congratulated on producing a number of prominent piano students. Within the space of five years she has been able to bring two students to Masters’ level, the first being Ms Carol Shutte who completes her MMus in a third recital involving a public performance of Beethoven’s Piano Concerto no 1 in February 2008. Mr Terence Marias will complete his recitals later in 2008. Terence has not only won numerous performance prizes and scholarships but has attended two three-week specialist master-classes in Tel-Hai, Israel for the past two years. This last visit brought him in contact with the famous teacher Peter Takacs, Professor at Oberlin Conservatory of Music in Ohio. At the end of 2008 he will study in Hanover for a year and hopefully meet up with the piano maestro Arie Vardy. Another student, David Wanchi Huang who gave an honours piano recital in November, was chosen to attend a 10-day summer symposium in July at the Golansky Institute at Princeton University studying the Taubman piano technique. Mr Juan Munoz has been the most active performer. He also assisted numerous local choirs and conductors with their competition programmes. This is part of our ongoing outreach programme to assist whenever possible those teachers and conductors who have had no formal tuition or grounding in music. Dr Jeff Brukman has also assisted in a number of these activities. Mr John Edwards is also most active in the performing arena as in his academic programme.

DR TIM RADLOFF
ACTING HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Brukman,JJ
Brukman,JJ. “Karpati’s "mistuning" theory re-considered in the context of Bartok's "supradiatonicism" and Friedrich Hartmann's fully-chromaticized scales”. Ex Tempore. 2007. XIII/2,36-68.

McConnachie,B

Radloff,TEK
Thram, DJ

**OTHER PUBLICATIONS**

Edwards, J


**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)**

i. Local Conferences (Within South Africa)

*Brukman, JJ*


*Edwards, J*

*Heunis, D*

*McConnachie, B*

*Radloff, TEK*
Thram, DJ

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Still-Drewett, FJ

Thram, DJ

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Edwards, J


Foxcroft, C J


Heunis,D

Munoz,JL


INTERNATIONAL VISIT

Munoz,JL
Munoz,JL. St Scholastica's College of Music/Manila/Philippines, Manila, Philippines. Conducted Masterclasses at St. Scholastica's College of Music. 22 November 2007.


DISTINGUISHED VISITORS

**Foxcroft, CJ**

**Lea-Cox, G**

**Rollin, R**
Professor R Rollin. Dana School of Music, Youngstown State University, Youngstown, USA. Visiting Lecturer and Keynote Speaker at SASMT conference. Apr 2007.

### JOURNAL SUBSIDY UNITS

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**TOTAL FOR MUSIC AND MUSICOLOGY** 2.00

### POSTGRADUATE SUBSIDY UNITS *

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
PHARMACY

Research activities in the Faculty of Pharmacy have continued to grow over the last few years with the result that the research outputs have had an impact both nationally and internationally. Staff and postgraduate students published 19 journal articles amongst several other research outputs indicating that the Faculty of Pharmacy research efforts are thriving and that 2007 was a productive year.

Large delegations of staff and postgraduate students in the Faculty continue to attend the South African Association of Hospital and Institutional Pharmacists and the South African Academy of Pharmaceutical Sciences Annual Conferences during which no less than 30 oral and poster presentations were made. In addition several members of staff as well as some postgraduate students participated in several international conferences where the results of their research were presented.

The Faculty of Pharmacy held its 7th Annual Research Day at which twenty three Masters, Doctoral and Doctor of Pharmacy postgraduates in the Faculty presented their research data in addition to three final year students who presented their project work.

Research in the area of Pharmacy Practice continues to grow and take on an international profile and Professor Dowse was invited by a colleague at CFAR (Center for AIDS Research), at the University of San Diego, to collaborate on a project on promoting knowledge of and adherence to anti-retrovirals in HIV/AIDS and a successful proposal resulted in an International Pilot Project Grant of $30 000 dollars being awarded for a project to be conducted locally. In addition Professor Dowse designed and supervised a research project with a colleague from the USA with a background in public health who was conducting research in Gujarat, India. Furthermore Professor Srinivas has secured funding to establish a Medicines Information Centre at the University as part of her research programme.

Professor Daya spent six months on sabbatical, a portion of which was spent in Austin, Texas with a Neurosciences Research Group. He was awarded a research medal by that group for his contributions to the field of Neurosciences and associated research.

Ms Maryssa Mann an MSC student in Pharmaceutical Chemistry was adjudged runner up in the competition for Young Scientists at the Academy of Pharmaceutical Sciences Conference in 2007.

Professor Kanfer co-edited and wrote a number of chapters in a book entitled “Generic Drug Product Development: Bioequivalence issues” to which Professors Walker and Verbeeck also contributed. Professor Kanfer’s research efforts in the Pharmaceutical Sciences during his tenure at Rhodes University culminated with the long overdue award of the Vice-Chancellor’s Distinguished Research Award that will be presented at the 2008 Graduation ceremony. The Faculty of Pharmacy is extremely proud of this achievement.

The Faculty of Pharmacy hosted two research associates, Dr Sewram from the Medical Research Council and Dr Mills from the University of British Columbia. Other visitors to the Faculty of Pharmacy included Dr Patterson from North Dakota State University at Fargo, Professors Brown and Hindmarsh and Dr Kertland from the University of Toronto and St Michaels Hospital in Toronto, respectively, Dr Toverud from the University of Oslo and Professor Benfeldt from the University of Copenhagen.

PROFESSOR IZZY KANFER
DEAN AND HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Kanfer,I


Walker,RB, Verbeeck,R and Kanfer,I

**PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER**

*Chaibva,FA and Walker,RB*


*Dairam,A, Muller,A and Daya,S*

*Dairam,A, Muller,A and Daya,S.* “Non-steroidal anti-inflammatory agents, tolmelin and sulindac attenuate quinolinic acid (QA)-induced oxidative stress in primary hippocampal neurons and reduce QA-induced spatial reference memory deficits in male Wistar rats”. *Life Sciences.* 2007. 80(10),918-925.

*Daya,S*


*Futter,WT and Oltmann,C*


*Hill,P and Dowse,R*

*Hill,P and Dowse,R.* “Cognitive pharmaceutical services and the community pharmacist: are South African patients receiving them and are they willing to pay?”. *International Journal of Pharmacy Practice.* 2007. 15,201-208.

*Karekezi,CW, Wrench,WM and Srinivas,SC*


*Khamanga,SMM and Walker,RB*


*Maharaj,DS and Daya,S*


*Mann,MGA, Mkwananzi,HB, Antunes,EM and Beukes,DR*


*Mansoor,LE and Dowse,R*


Mills,EJ and Kanfer,I


Mills,EJ and Nachega,JB


Mills,EJ and Singh,S


Müller,AC and Daya,S

Müller,AC, Dairam,A, Limson,JI and Daya,S. “Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid”. *Life Sciences*. 2007. 80(10),918-925.

Mwingira,B and Dowse,R


Nair,VDP and Kanfer,I


Nair,VDP, Dairam,A and Kanfer,I


Nair,VDP, Mills,EJ and Kanfer,I


Shiri,C, Srinivas,SC and Futter,WT


Srinivas,SC and Daya,S


Walker,RB

OTHER PUBLICATIONS

Dowse,R

Futter,WT


Kanfer,I

Walker,RB

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Afolayan,AF and Beukes,DR

Au,WL, Skinner,MF and Kanfer,I

Chaibva,FA and Walker,RB

Dowse,R

Khamanga,SMM, Haidula,H and Walker,RB

Khamanga,SMM, Parfitt,N, Nyamuzihwa,T and Walker,RB

Mann,MGA and Beukes,DR

Mogatle,S and Kanfer,I

Ogwal,S and Walker,RB

Patnala,S and Kanfer,I

Ramela,T, Mandimika,C, Bandason,N, Hlala,L, Kafuka,J, Srinivas,S and Dowse,R

Srinivas,SC

Tettey-Amlalo,R and Kanfer,I

Wa Kasongo,K and Walker,RB

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)
Afolayan, AF and Beukes, DR


Daya, S

Futter, WT

Khamanga, SMM, Mandimika, C and Walker, RB


Oltmann, C

Patnala, S and Kanfer, I


Walker, RB


Walker, RB and Chaiiba, FA

Walker, RB and Khamanga, SMM
Walker, RB and Wa Kasongo, K

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Futter, WT


INTERNATIONAL VISIT

Daya, S

DISTINGUISHED VISITORS

Benfeldt, E

Brown, T

Hindmarsh, W

Kertlend, H

Mills, E

Miot, J

Patterson, B

Salie, F

Sewram, V

Smith, P
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**Müller, AC and Daya, S.** Müller, AC, Dairam, A, Limson, JL and Daya, S. “Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid”. *Life Sciences*. 2007. 80(10), 918-925.

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
PHILOSOPHY


Dr Tabensky was awarded a contract with Palgrave Macmillan for an edited collection provisionally entitled *The Positive Function of Evil*. Professor Ward Jones and Dr Vice signed a contract for an edited collection, *Ethics of Film*, with Oxford University Press. Dr. Vice, in collaboration with Nafsika Athanassoulis (The University of Leeds, UK), will edit *The Moral Life: Essays in Honour of John Cottingham*, for Palgrave Macmillan. Several members participated in local and international conferences. Dr Veli Mitova, post-doctoral fellow, was invited to be a discussant of a keynote paper at a conference on *Normative Concepts* (University of Zurich, Switzerland, July). Dr. Vice read an invited paper, ‘Moral Purity and Moral Demandingness’, at a conference at The University of Reading (November). Two of our MA students, Kelly Hamilton and Jonathan Hawkes, presented papers at the South African Postgraduate Philosophy Conference (University of the Northwest, Potchefstroom, June).

Professor Jones spent the first half of 2007 in the US, accepting an invitation to teach two courses at Bennington College (Vermont). Riana Oelofsen, a Ph.D. student, did research on her thesis at the Glencree Centre for Peace and Reconciliation (Ireland) and at the Centre for Applied Philosophy and Public Ethics (The Australian National University, Canberra). We organized a very successful and enjoyable Graduate Student Day, during which Honours and MA students read short papers, with Dr Lucy Allais of the Wits Department of Philosophy serving as external assessor (September). We received the following eminent visitors: Professor Paul C. Taylor Temple University, USA), Professor David Theo Goldberg (University of California, USA) and Professor Hanjo Glock (University of Zurich, Switzerland).

PROFESSOR MARIUS VERMAAK
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Tabensky,P

OTHER PUBLICATIONS

Vice,S

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Jones,W


Kumar, C


Mitova, V

Tabensky, P


Vice, S

Williamson, F

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Jones, W


Kumar, C


Mitova, V

Vice, S
CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Jones, W

Vice, S


Williamson, F


INTERNATIONAL VISIT

Jones, W
Jones, W. Bennington College, Bennington, Vermont, USA. Visiting Lectureship. 1 February - 30 June 2007.

Mitova, V

DISTINGUISHED VISITORS

Allais, L

Du Toit, A

Friedrich, A

Goldberg, D T

Macdonald, C

McKaiser, E

Taylor, P
### JOURNAL SUBSIDY UNITS

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**TOTAL FOR PHILOSOPHY**: 1.00

### BOOK SUBMITTED FOR POSSIBLE SUBSIDY

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<td>Iris Murdoch: A reassessment</td>
<td>The ethics of self-concern</td>
<td>Vice, S</td>
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PHYSICS AND ELECTRONICS

IONOSPHERIC RESEARCH
The ionospheric research group has been actively involved with the National Astrophysics and Space Science Program (NASSP) during 2007 with lectures and supervision being given at the postgraduate level. Three MSc students from this program completed their degrees through Rhodes in 2007 and will graduate in April 2008. A further four have registered with Rhodes and are set to complete in 2008. The group has been expanding their modelling capabilities, and 2007 saw the integration of the first of their neural network models into the International Reference Ionosphere (IRI) model. Currently a global maximum electron density (foF2) model is being developed for integration into IRI in August 2008. Through this work the group were represented at a number of international conferences and meetings in 2007. An exciting development is the installation of the new ionosonde in Hermanus, which began in earnest in August 2007 and will be completed with its commissioning in March 2008. In the first collaboration visit between South Africa and Nigeria Dr Elijah Oyeyemi visited at the end of November to work on the global foF2 model with Dr Lee-Anne McKinnell.

RADIO ASTRONOMY
The work of the Radio Astronomy Research Group is focussed on the requirements of three major new radio telescopes: the Square Kilometre Array, the MeerKAT and the C-BASS. Prof Justin Jonas continues to sit on the International SKA Steering Committee (ISSC) and its various scientific and technical subcommittees and working groups. In the latter half of 2007 he was selected as a member of a ten person “Tiger Team” that was tasked with defining the specifications of the SKA, which will be the world’s largest radio telescope costing in excess of 1.5 billion euros.

Prof Jonas is also Chief Project Scientists and Project Engineer for the MeerKAT project, which is an R800 million project to build an SKA prototype telescope in South Africa. This project has attracted very significant international interest, and collaboration partners include the Universities of Cambridge, Oxford and Manchester in the UK, and Berkeley, Cornell, Caltech, Wisconsin and Illinois in the USA. The MeerKAT will be the premier instrument for centimetre wavelength radio astronomy until the advent of the SKA.

The C-BASS telescope is a collaborative project to measure the properties of the magnetic field permeating the Milky Way. The C-BASS consortium includes the Universities of Oxford and Manchester, Caltech, Rhodes and HartRAO.

Postgraduate students in the research group are working closely with the international partners involved in these three projects, and make research visits to the partner institutions abroad. Oliver King, who graduated from Rhodes with an MSc in 2007 is now reading for a PhD at Oxford, and is primarily responsible for designing and building the specialized receiver for the C-BASS telescope.

LUMINESCENCE RESEARCH
The following were the main activities of the Luminescence Research Group in 2007
1. A two-year world-wide project on properties of time-resolved luminescence of quartz initiated and led by Dr M L Chithambo was completed. The research team consisted of members from Kangwon National University in South Korea, The University of Ibadan in Nigeria, The University of Washington, Seattle, USA, and Rhodes University, South Africa. A number of papers from this work are to be published.
2. Dr M L Chithambo and Dr F Preusser of The University of Bern, Switzerland jointly organised an International Symposium on Luminescence. The meeting took place at Bern in July 2007. The seminar was held under the auspices of financial support from the National Research Foundation (NRF) and the Swiss National Science Foundation.
3. Dr M L Chithambo went to the University of Nottingham, UK, on a research visit for two months from November to December 2007. The visit was sponsored by the Royal Society (UK) and the NRF (South Africa).

Other developments included Dr M L Chithambo serving as a member of the Assessment Panel for Institutional Capacity Development Grants at the NRF; awarded the Vice Chancellor’s Distinguished Research medal at the Science graduation ceremony in April 2007; received a C2 research rating from the NRF; and served as reviewer for several international journals.
THEORETICAL NUCLEAR PHYSICS
The year saw several highlights in research in theoretical nuclear physics. First, the joint South Africa-CERN Consortium was announced, making South Africa a member state of CERN. Physics & Electronics is part of the Consortium and the Theory Group played a part in its development. We are now a member of the Steering Committee overseeing CERN-directed research in South Africa, for which Rhodes University will become involved in theoretical aspects of various projects, both nuclear and particle, at CERN.

Research highlights included the continuation of development of a model for low-energy nucleon scattering from nuclei, as well as predictions of electron and intermediate energy nucleon scattering involving exotic nuclei. The work was presented at three International Conferences/Workshops: in Nice, France; Crete, Greece; and RIKEN, Japan. The work on scattering from exotic nuclei has led to the creation of a long-term collaboration between Rhodes University and RIKEN and Osaka University in Japan. The research has been published, or is in the process thereof, in international journals. Also, Mr Paul Fraser, of the University of Melbourne, Australia, came to visit for a month to continue his PhD research in low-energy scattering.

RICHARD GRANT
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

**Chithambo, ML**


**Habarulema, JB and McKinnell, LA**


**Karataglidis, S**


McKinnell, LA


McKinnell, LA and Poole, AWV

Moeketsi, DM and McKinnell, LA

Ogundare, FO and Chithambo, ML


Opperman, BDL, McKinnell, LA and Haggard, R

Oyeyemi, E.O, McKinnell, LA and Poole, AWV

Poole, LMG

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Chimidza, O and McKinnell, LA

Habarulema, JB and McKinnell, LA

Karataglidis, S


Katamzi,K and McKinnell,LA

McKinnell,LA

Moeketsi,DM and McKinnell,LA

Paradza,M, McKinnell,LA and Opperman,B

Sibanda,P and McKinnell,LA

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Chimidza,O and McKinnell,LA

Chithambo,ML


Habarulema,J and McKinnell,LA

170

Karataglidis, S


McKinnell, LA


Sibanda, P and McKinnell, LA

INTERNATIONAL VISIT

Chithambo, ML
Chithambo, ML. University of Nottingham, Nottingham, UK. Linear Modulation of Luminescence From Quartz. 29 October - 28 December 2007.

Karataglidis, S

Karataglidis, S. University of Melbourne, Melbourne, Australia. Scattering theory. 4 - 26 June 2007.

Karataglidis, S. Institute of Nuclear Physics, Demokritos, Athens, Greece. Scattering theory. 24 - 25 September 2007.

McKinnell, LA
McKinnell, LA. University of Massachusetts, Lowell Center for Atmospheric Research, Lowell, Boston, USA. XIth International Digisonde Training Forum. 30 April - 5 May 2007.

McKinnell, LA. National Oceanic and Atmospheric Administration (NOAA), Boulder, USA. Visiting scientist to 4 sections within NOAA namely the National Geophysical Data Center (NOAA), the Space
Environment Center (SEC), the Solar Terrestrial Physics Division (STPD) and the Cooperative Institute for Research in Environmental Sciences (CIRES). 7 - 11 May 2007.

DISTINGUISHED VISITORS

Oyeyemi,E and McKinnell,LA

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<td>Karataglidis,S, Kim,YJ and Amos,K. “Nucleon-nucleus scattering as a test of shell structure of some light mass exotic nuclei”. <em>Nuclear Physics A</em>. 2007. A793, (Online).</td>
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<td>Oyeyemi, EO, McKinnell, LA and Poole, AWV. “Neural network based prediction techniques for global modeling of M(3000)F2 ionospheric parameter” (doi:10.1016/j.asr.2006.09.038). Advances in Space Research. 2007. 39,643-650.</td>
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<td>Ogundare, FO and Chithambo, ML</td>
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<td>Opperman, BDL, McKinnell, LA and Haggard, R</td>
<td>Opperman, BDL, Cilliers, PJ, McKinnell, LA and Haggard, R. “Development of a regional GPS-based ionospheric TEC model for South Africa”. Advances in Space Research. 2007. 39,808-815.</td>
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<td>Oyeyemi, EO, McKinnell, LA and Poole, AWV</td>
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<td>Poole, LMG</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.*
POLITICAL AND INTERNATIONAL STUDIES

The Department of Political and International Studies in 2007 looks back on the following:

Research Publications included fifteen books, chapters in books or entries in encyclopaedias; six journal articles; and sixteen ‘other publications’ including book reviews and newspaper articles. Members of staff also attended or made presentations at fifteen conferences.

The department in collaboration with Prof Robert Brand mounted its annual Politics Teach-in on “Is the Washington Consensus Dead? The Changing Nature of Economic Thought.” Eleven outside visitors spent time at the department, contributing to the department’s weekly Friday lunch-time seminar series, giving guest lectures as well as teaching on our postgraduate programmes, notably in Honours and the Diploma in African Diplomacy and Peacekeeping.

Professor Peter Vale, Nelson Mandela Professor of Politics represented the South African Academy of Sciences on a visit to Sri Lanka. Prof P. Vale was appointed to the Editorial Board of the Cambridge Studies of IR and that of the ‘Contemporary Politics’ Journal. A seminar on the occasion of Prof Vale’s 60th birthday was held at the University of Pretoria in September in recognition of his contribution to the study of IR.

PROFESSOR PAUL BISCHOFF
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Matthews,SJ

Praeg,L

Vale,PCJ


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bischoff, PH

Matthews, SJ

Vale, PCJ


OTHER PUBLICATIONS

Bischoff, PH


Hoeane, T


Hoeane, T. ”Tarnishing Mandela's Name”. In: Mail and Guardian Online. Hafejjee, F (Ed) M&G. South Africa. 2007.


**Vale, PCJ**


**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES**

**(PROCEEDINGS, BOOKLETS and ATTENDANCE)**

i. Local Conferences (Within South Africa)

**Fluxman, AP**


**Hoeane, T**


**Kumar, C**


**Vincent, LD**


ii. International Conferences (Outside South Africa)

**Fluxman, AP**

**Kumar, C**


**Matthews, SJ**

**Vale, PCJ**


**Vincent, LD**

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS**

**Vale, P**

**Vale, PCJ**


**INTERNATIONAL VISIT**

**Praeg, L**
Vale, PCJ

DISTINGUISHED VISITORS

Du Toit, A

Fioramonti, L

Friedman, S


Glaser, D

Leibbrandt, M

Mboweni, T

Naidoo, S

Rupiya, M

Simkins, C
Professor C Simkins. WITS, Johannesburg, South Africa. Teach-in. Sep 2007.

Taylor, P C

Zhang, Z

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<td><strong>Matthews, SJ.</strong> &quot;Responding to Poverty in the Light of the Post-Development Debate: Some insights from the NGO Enda Graf Sahel&quot;. <em>Africa Development</em>. 2006. XXXI(1&amp;2),52-72.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

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<td>Challenges of Conflict and Development in Africa.</td>
<td>'Security' and 'democracy': Some comparative and critical reflections</td>
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PSYCHOLOGY

In 2007 staff published twelve papers in national and international journals, conference proceedings and books. These covered a wide range of topics including:

- The association of racial attitudes and spiritual beliefs;
- Memory-based imagery;
- Systematic Case Studies in the Development of Evidence-Based Practice in Psychotherapy;
- A critique of masculinities studies;
- Constructions of self in contemporary neuroscience;
- The analyst’s emotional surrender;
- Sexually motivated serial killers and the psychology of aggression and ‘evil’;
- Communication of Psycho-educational assessment results;
- A neuropsychological perspective on the cerebrally hazardous contact sports;

In addition a workshop was presented, and nine papers were delivered at international conferences and one at a local conference.

Three staff members, Prof Dave Edwards, Prof Ann Edwards and Prof Catriona Macleod received NRF funding, and Prof Catriona Macleod funding from the Johan Jacobs Foundation. Two staff members, Prof Dave Edwards and Prof Catriona Macleod, are rated social scientists with the National Research Foundation (C category). Prof Chris Stones continues as editor of the Indo-Pacific Journal of Phenomenology.

Prof Tom Dowd from the Department of Psychology at Kent State University was a visiting professor in the department for two months. In this time he delivered a number of research papers, worked with our Masters in Clinical and Counselling Psychology students, and mentored a number of staff and students regarding their research. In addition, Prof Swartz from the Department of Psychology at the University of Stellenbosch conducted workshops with students and staff regarding research skills and getting published.

Our postgraduate graduation and registration rate is looking healthy. Students are responding positively to the series of workshops on research skills which we implemented for the first time in 2007.

PROFESSOR CATRIONA MACLEOD
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Appalsamy,P

van Ommen,CH

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Edwards,DJA


Knight,ZG
Knight,ZG. “Sexually motivated serial killers and the psychology of aggression and ‘evil’ within a contemporary psychoanalytic perspective”. Journal of Sexual Aggression. 2006. 13(1),21-35.

Knoetze,JJ and Vermoter,C-L

Macleod,C

Shuttleworth-Edwards,AB and Whitefield,VJ


Stones,CR


**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)**

i. Local Conferences (Within South Africa)

Payne,C and Edwards,DJA

**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)**

ii. International Conferences (Outside South Africa)

Bohmke,WR

Davidow,AS and Edwards,DJA

Edwards,DJA


Knight,ZG
Macleod, C and Marx, J

Stones, CR

van Ommen, CH

Whitefield, V and Shuttleworth-Edwards, AB

Whitefield, V and Shuttleworth-Edwards, AB

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS**

Appalsamy, P

**DISTINGUISHED VISITORS**

Dowd, ET

Naidoo, S

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TOTAL FOR PSYCHOLOGY 7.00

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
RHODES UNIVERSITY MATHS EDUCATION PROGRAMME (RUMEP)

It has been another fruitful year for RUMEP. Most staff members managed to present research papers and conduct workshops at academic conferences at Provincial and National level. In addition a number of external evaluations of projects took place initiated by our funders.

Mr Mark Sainsbury, Mrs Thami Tokwe & Mrs Thami Mahlobo attended the 2007 Kenton conference in Durban from 25 to 28 October. Both Ms T.Tokwe and Dr R.Spanneberg attended the Heltasa 2007 conference in Bloemfontein on 19 to 21 November. Conference Theme- Enhancing learning and teaching through innovation, Scholarship and research.

Two staff members are continuing with their research at Masters level. Ms Tokwe is doing extensive work with practising teachers on a multilingual learning and teaching resource book, “Understanding concepts in Mathematics and Science”. Mr Haywood’s research concerns an exploration of teachers and learners’ understanding of geometry with respect to van Hiele’s theory of geometric thinking.

Ms Tokwe edited a Multilingual Mathematics Dictionary published by Maskew Miller Longman. Mark Sainsbury completed his BCom Honours in Information Technology.

DR ROSE SPANNEBERG
DIRECTOR

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Mahlobo,NL


Penlington,T

Sainsbury,M

Spanneberg,R

Tokwe,NH

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Haywood, T

Penlington, T

DISTINGUISHED VISITORS

Hobden, P

Nel, B

Savage, O

Zulu, G

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SCHOOL OF LANGUAGES

The School of Languages hosted a number of scholars in 2007, including Professor Robert Buranello who presented part of the Modern Fiction course, hosted by Afrikaans and Netherlandic Studies. He gave a public lecture on Italian Renaissance literature at Randall House. Other visitors to the School included Professors David Wardle and Chuck Chandler from UCT who assisted with teaching in Classical Studies; Professor D. Williams from the British Museum who gave a public lecture; Professor Eric Singer from Goucher College in the USA and Professor Axel Fleisch (then Leipzig University) visited the African Language Studies.

A number of SANTED guests were hosted during the course of 2007, including the Norwegian Ambassador and a delegation from the Embassy. They have awarded the School an amount of 3 million rand in order to implement multilingualism programmes at Rhodes University (under the supervision of Trish Gibbon from the DoE). The School was also visited by Dwayne Bailey from translate.org. A translate@thon was organised and the Rhodes email system was translated into isiXhosa. The School hosted a delegation from the People’s Republic of China. This delegation was led by Mr Wei from the Chinese Embassy in Tshwane. The end result of this visit has been the signing of a document in 2007, which allows for the formation of the Rhodes University Chinese Confucius Institute, to be hosted by the School of Languages.

A number of academics attended various conferences in 2007, and Professor Kaschula was a keynote speaker at Cape Town Book Fair. A workshop was also conducted with the University of KwaZulu-Natal which was hosted by the School of Languages. The School has also been very active in terms of improving its publication record both as journals and books. Professor Kaschula invited the School’s Research Associate Andre Mostert, together with elearning4africa, to set up a publish and thrive website. This is proving to be a great help in getting younger academics to publish. A new initiative is therefore to co-publish articles with various authors coming from different backgrounds. The school has increased its number of postgraduate students exponentially, partly due to the SANTED programme.

Dr Mpola obtained her Doctorate Degree at the beginning of the 2007. Professor Kaschula was awarded the International Board of Books for Young People Award for his contribution to youth literature. The School of Languages and Rhodes University also received the PanSALB runner-up award for implementing multilingualism at a South African tertiary institution.

PROFESSOR RUSSELL KASCHULA
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Kaschula,R.H

Maseko,P


Meintjes,W G
Weber, U.S.


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Kaschula, R and Wienand, C

Kaschula, R H


Mwepu, P K

OTHER PUBLICATIONS

Huisamen, T

Maseko, P

Maseko, P and Kaschula, R H

Vorster, A

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Dalvit, L

Dalvit, L and Mbombela, S
**Kaschula, RH**


**Mapi, T**


**Mapi, T and Kaschula, R**


**Mukenge, AN**


**Mwepu, PK**


**Nosilela, B**


**Sam, M and Kaschula, R**


**Weber, U S**


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**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)**

### ii. International Conferences (Outside South Africa)

**Jaques, F**


**Mukenge, AN**


**Mapi, T**


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Dalvit,L, Maseko,P, Mapi,T, Ndumiso,N and Sam,M

Maseko,P


Maseko,P, Kaschula,RH, Dalvit,L, Mapi,T, Sam,M and Nosilela,BB

DISTINGUISHED VISITORS

Bailey,D

JOURNAL SUBSIDY UNITS

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<td>Kaschula,RH</td>
<td>Indigenous languages, globalisation and the media in South Africa</td>
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<td>Kaschula,RH</td>
<td>Identity in the Siyagruva series of novels: toward an intercultural literary discourse</td>
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TOTAL FOR SCHOOL OF LANGUAGES

POSTGRADUATE SUBSIDY UNITS *

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.

BOOKS SUBMITTED FOR POSSIBLE SUBSIDY

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<td>Francois Mauriac: l’oeuvre au noir</td>
<td>Therese Desqueyroux</td>
<td>Jaques, F</td>
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<td>Festschrift für Werner Krueger</td>
<td>ausgewählten Romanen Richard Aldingtons</td>
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<td>Kultur- und Literaturvermittlung.</td>
<td>Geschiedenis en tekst: postmoderne historiografische perpectieven</td>
<td>Meintjes, G</td>
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In spite of a difficult teaching year with Professor Susan Ziehl resigning at the end of 2006, three staff members on study leave and Dr Darlene Miller being seconded to the HSRC, the Sociology Department had a good year as far as research output is concerned. The Department continued to increase its post graduate numbers, especially at Masters and PhD level.

The Department had a busy year attending conferences. These included both national and international conferences. Two of these were inaugural conferences: the 1st Congress of the African Sociological Association organised by Professor Jimi Adesina in Grahamstown in July, 2007, where many staff presented papers, and the Inaugural Conference to launch the Institute for Social and Economic Research (ISEE) in Maputo Mozambique, where Drs Monty Roodt and Darlene Miller presented papers in September 2007. Professor Jimi O. Adesina who was on study leave for the second half of the year, is the Oppenheimer Visiting Research Fellow in the Department of International Development at the University of Oxford in the United Kingdom. The Department also enjoyed a six month visit by Professor Beverly Silver from Johns Hopkins University in Baltimore in the United States of America. Professor Silver, a world renowned industrial and economic sociologist, taught in the Department and presented a number of papers at seminars in the University and at other institutions in the Eastern Cape.

In addition staff in the Department published a number of articles in journals, books and monographs. The Department continued to forge research links with other African countries. Drs Miller and Roodt are members of a 10 member multidisciplinary, international team working on the Codesria Comparative Research Network/ISEE, Rhodes University “South Africa in Africa Research Initiative” (SAARI) on South African Companies in Africa.

In addition staff in the Department published a number of articles in journals, books and monographs. The Department continued to forge research links with other African countries. Drs Miller and Roodt are members of a 10 member multidisciplinary, international team working on the Codesria Comparative Research Network/ISEE, Rhodes University “South Africa in Africa Research Initiative” (SAARI) on South African Companies in Africa.

DR MONTY ROODT
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Adesina, JOT

Klerck, GG


Miller, D

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Drewett, MD
Drewett, MD. "The eyes of the world are watching now: the political effectiveness of "Biko" by Peter Gabriel". Popular Music and Society. 2007. 30(1),39-51.

Helliker, KD

Klerck, GG
Roodt,MJJ

OTHER PUBLICATIONS

Adesina,JOT


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Adesina,JOT


Chisaka,JK

Drewett,MD

Miller,D


Roodt,MJJ

ii. International Conferences (Outside South Africa)

Adesina, JOT

Coetzee, JK

Drewett, MD


Helliker, KD

Klerck, GG

Miller, D

Roodt, MJJ


Sishuta, HB

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS, EVENTS

Miller, D


INTERNATIONAL VISIT

Adesina, JOT
Adesina, JOT. Department of International Development, Queen Elizabeth House, University of Oxford. Oppenheimer Visiting Research Fellow. 1 October - 10 December 2007.

Roodt, MJJ

DISTINGUISHED VISITORS

Miller, D

Silver, B

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<td>Klerck, GG</td>
<td>&quot;The 'Bite' of a minimum wage: enforcement of and compliance with the sectoral determination for farm workers&quot;.</td>
<td>South African Journal of Labour Relations. 2007. 31(1),25-46.</td>
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<td>Roodt, MJJ</td>
<td>&quot;Security of tenure and livelihood options in South Africa: a case study of a rural community facing eviction under post-apartheid legislation in the Eastern Cape Province&quot;.</td>
<td>Africanus. 2007. 37(No 1),3-12.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
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<tr>
<td>Industrial Relations in Africa</td>
<td>Labour Regulation in Namibia: from 'Colonial Despotism' to 'Flexible Taylorism'</td>
<td>Klerck,GG</td>
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STATISTICS

Members of the Department of Statistics were involved in joint research with the Departments of Zoology and Entomology, Biochemistry, Microbiology and Biotechnology, Accounting, Psychology and the Faculty of Pharmacy. Eight publications emanated from the collaborative research in 2007. Professor Gunther Jäger continued his very interesting research in lattice-valued convergence spaces and another paper entitled ‘Pre-topological and topological lattice-valued convergence spaces’ was published in 2007.

Several papers were presented at local and international conferences throughout the year. Professor Radloff and PhD student, Gary Sharp, co-presented a paper on “Lag length selection for vector error correction models” at the ISI Conference in Lisbon, Portugal and Professor Jäger and two postgraduate students co-presented a paper on “Clustering algorithms and their effect on edge preservation in image compression” and a second paper entitled “A comparison of feed-forward neural networks and support vector machines on a problem of protein secondary structure prediction” at the 50th Annual Conference of the South African Statistical Association held at the Misty Hills Conference Centre, Gauteng in November 2007. A paper entitled “Review of the implementation of codon usage bias in software utilized in the design of functional synthetic protein coding regions” was co-presented by Mr Jeremy Baxter and Professors Jäger and Blatch at the First Southern African Bioinformatics Workshop at the University of the Witwatersrand.

The Department hosted an internationally renowned statistician, Professor Kenneth Bollen, from the University of North Carolina, Chapel Hill, in November 2007.

PROFESSOR SARAH RADLOFF
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jäger,G

Radloff,S


Tan,K, Radloff,SE, Li JJ, Hepburn,HR, Yang,MX, Zhang,LJ and Neumann,P. “Bee-hawking by the wasp, Vespa velutina, on the honeybees Apis cerana and A. mellifera”. Naturwissenschaften. 2007. 94,469-472.
Van Der Hoek, MP and Radloff, SE. "Taxing owner-occupied housing: Comparing the Netherlands to other European Union countries". Public Finance and Management. 2007. 7(4), 393-421.

RESEARCH PAPERS PRESENTED AT ACADEMIC/Scientific Conferences (PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Bangay, L

Baxter, JS

Baxter, JS and Jäger, G

Jäger, G and Tsilo, L

Ndebele, N and Jäger, G

Radloff, SE

ii. International Conferences (Outside South Africa)

Radloff, SE


Sharp, G and Radloff, SE

DISTINGUISHED VISITORS

Bollen, K
Haines, L

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<td><strong>Radloff, S.E.</strong></td>
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<td>Hepburn, H.R., Muerrle, T.M and Radloff, S.E. “The cell bases of honeybee combs”. Apidologie. 2007. 38,268-271.</td>
<td>0.34</td>
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<td>Maree, K.W and Radloff, S.E. “Factors affecting ethical judgement of South African chartered accountants”. Meditari. 2007. 15(1),1-18.</td>
<td>0.50</td>
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<tr>
<td>Shiri, C, Srinivas, S.C, Futter, W.T and Radloff, S.E. “The role of insight into and beliefs about medicines of hypertensive patients”. Cardiovascular Journal of Africa. 2007. 18(6),408-412.</td>
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<td>Tan, K, Radloff, S.E, Li, J.J, Hepburn, H.R, Yang, M.X, Zhang, L.J and Neumann, P. “Bee-hawking by the wasp, Vespa velutina, on the honeybees Apis cerana and A. mellifera”. Naturwissenschaften. 2007. 94,469-472.</td>
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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
ZOOLOGY AND ENTOMOLOGY

In 2007 three staff members received significant accolades. Professor Alan Hodgson was awarded the Gold Medal of the Zoological Society of southern Africa for his outstanding contributions to research on invertebrate reproduction, and to zoology in general. This award was presented to him at the annual ZSSA conference in July. The second major accolade was to Professor Christopher McQuaid who was awarded a National Research Foundation research Professorship, one of only two granted to Rhodes to date. This position will allow him to concentrate on research and develop an even stronger marine biological research team within the department. Finally Professor William Froneman was appointed chairperson of the South African Network for Coastal and Oceanographic Research.

The research enthusiasm and drive all departmental staff, research associates and students meant that 2007 was another incredibly productive publication year; 53 full-length papers published in peer-reviewed journals as well as five major reports. Staff and students also attended and presented their work at numerous local and international conferences. The high regard of the research of academic staff is reflected in the numerous invited lectures presented during the year. In January Professor Christopher McQuaid delivered two key note addresses at an international meeting in Hong Kong, and later in the year was invited by the Sultanate of Oman to Oman as an international expert to contribute to their first national research strategy. Prof. Alan Hodgson gave an invited plenary lecture at the zoological society meeting in Potchefstroom, Professor William Froneman was an invited speaker and session chair at a Royal Society of London meeting on Global Climate change, and in September he presented the J.L.B. Smith Memorial Lecture. Finally Professor Martin Hill and Dr Julie Coetzee gave invited lectures at in international biological control symposium in Montpellier, France. In addition to these lectures staff and students presented numerous papers not only at local meetings but also international conferences in Panama, USA, New Zealand, Germany, Belgium, Australia and the UK. The Wildlife and Reserve Management Research Group (WRMRG) co-hosted a Wildlife Management Colloquium with the Royal Society at Rhodes. The wildlife colloquium brought together top scientists reserve managers and farmers for the first ever workshop between these groups in the region. The meeting also provided post-graduate students in the research group with an opportunity to present some of their findings. The event was organised by Professors Ric Bernard (WRMRG) and Mike Davies-Coleman (Royal Society) and was so popular with the participants that it was decided to make it an annual event.

The main broad fields of research within the department continue to be in marine biology, entomology, vertebrate biology and wildlife management. Many of the academic staff travelled widely to pursue their research and continue international and local collaborations. Prof. Hodgson carried out work at the Smithsonian Tropical Research Institute in Panama, and also spent time at the Marine Biological Association in Plymouth completing an invited book chapter. He was also recently appointed as an editor of an international journal. Professor William Froneman spent April onboard the research vessel SA Agulhas as the Chief Scientific Officer, where he led student research on biological processes in the Southern Ocean. In his search for biological control agents of water weeds Professor Martin Hill visited Malawi and the Dominican Republic. Dr Carol Simon spent several weeks in the USA and UK furthering her work on polychaete worms that affect the perlemoen industry. Emeritus Professor Randall Hepburn’s research work on bees took him to Thailand and China, where some of his students are based, and in addition he hosted collaborators from these countries as well as Germany. Other international visitors hosted by the department included Professor Peter McEvoy from the USA, an expert on plant insect relationships, a group from France who are working with Professor Adrian Craig on understanding bird vocalisations, as well as Dr. James Cook (University of Reading), Dr. Steven Orzack (Fresh Pond Research Institute, USA), and Dr Gil Rilov (Oregon State University, USA).

PROFESSOR ALAN HODGSON
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barber-James,HM
Barber-James,HM. “Freshwater invertebrate fauna of the Tristan da Cunha islands (South Atlantic Ocean), with new records for Inaccessible and Nightingale Islands”. Transactions of the Royal Society of South Africa. 2007. 62(1),24-36.

Bernard,ATF, Froneman,PW and Bernard,KS

Bissett,C and Bernard,RTF

Brown,CR and Peinke,DM

Chawanji,AS, Hodgson,AN and Villet,MH

Czypionka,K and Hill,MP

De Moor, FC
Rivers-Moore,NA, De Moor,FC, Morris,C and O’Keeffe,J. “Effect of flow variability modification and hydraulics on invertebrate communities in the Great Fish River (Eastern Cape, South Africa), with particular reference to critical hydraulic thresholds limiting larval densities of Simulium chutteri Lewis (Diptera, Simuliidae)”. River Research and Applications. 2007. 23,201-222.

Froneman,PW

Froneman,PW, Richoux,N, Blake,J, Daly,R, Sterley,J, Mostert,B, Heyns,E and Sheppard,J

Hepburn,HR
De la Rua,P, Radloff,SE, Hepburn,HR and Serrano,J. “Do molecular markers support morphometric and pheromone analyses? A preliminary case study in Apis mellifera populations of Morocco”. Archivos De Zootecnia. 2007. 56(213),33-42.


**Hepburn, HR and Hepburn, C**  

**Hepburn, HR and Muerrele, TM**  

**Hepburn, HR and Neumann, P**  

**Hepburn, S**  

**Hill, M**  

**Hill, MP**  


Wilson, JRU, Ojumu, O, Center, TD, Hill, MP, Julien, MH, Katagira, FF, Neuenschwander, P, Njoka, SW, Ogwang, J, Reeder, RH and Van, T. “The decline of water hyacinth on Lake Victoria was due to biological control by *Neochetina* spp.”. *Aquatic Botany*. 2007. 87, 90-93.

**Hodgson, AN**  
Hulley, P.E and Craig, A.JFK


Kirk-Spriggs, A.H


McQuaid, C.D and Lindsay, T.L

McQuaid, C.D and Lindsay, T.L. “Wave exposure effects on population structure and recruitment in the mussel Perna perna suggest regulation primarily through availability of recruits and food, not space”. Marine Biology. 2007. 151,2123-2131.

Muerrle, T and Hepburn, H.R


Muerrle, T.M and Hepburn, H.R


Neumann, P


Neumann, P and Hepburn, R


Nicastro, K.R, Zardi, G.I and McQuaid, C.D


O’Brien, J


Pal, P


Parker, D.M and Bernard, R.T.F


Porri, F, McQuaid, CD and Froneman, WP. “Spatio-temporal variability of small copepods (especially Oithona plumifera) in shallow nearshore waters off the south coast of South Africa”. Estuarine Coastal and Shelf Science. 2007. 72, 711-720.


Price, BW and Villet, MH. “Patterns and processes underlying evolutionary significant units in the Platypleura striolata L. species complex (Hemiptera: Cicadidae) in the Cape Floristic Region, South Africa”. Molecular Ecology. 2007. 16, 2574-2588.


Zardi, GI, McQuaid, CD and Nicastro, KR

Zardi, GI, McQuaid, CD and Teske, PR

**OTHER PUBLICATIONS**

De Moor, FC

de *Moor, FC* and Barber-James, HM. A survey of the aquatic macroinvertebrates in the rivers of the Cedarberg. Oral Powerpoint presentation. *At: Workshop on linking conservation of endangered freshwater fish with river conservation, focusing on the Cedarberg. WRC Project K8 592. 6-7. March 2007.*

de *Moor, FC* and Barber-James, HM. A survey of the aquatic macroinvertebrates of selected tributary rivers of the Olifants and Doring Rivers in the Cedarberg, western Cape to help assess conservation planning of the biodiversity of these rivers.. In: WRC Synthesis report, WRC Project K8/592. 17pp. March 2007.


Downie, DA

Froneman, PW


Villet, MH

Vorwerk, P and Froneman, PW
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Allan,EL and Froneman,PW

Bellingan,TA and Villet,MH

Booth,T and Froneman,PW

Bownes,A and Hill,MP

Cockburn,JJ and Villet,MH

Coetzee,JA


Daly,R and Froneman,PW

Froneman,PW


Hill,J and McQuaid,CD

Hodgson,AN

Hodgson,AN, Henninger,TO and Froneman,PW

Jordaan,T, McQuaid,CD and Porri,F

Lukac,D and Hill,MP

Orr,KK and Froneman,PW

Paterson,I, Hill,MP and Downie,D

Richards,CS, Crous,KL and Villet,MH
Richoux,NB

Singh,L and Froneman,PW

Sterley,JA and Froneman,PW

Tweddle,G and Froneman,PW

Villet,MH

von der Meden,CEO, Porri,F and McQuaid,CD

RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

Bernard,RTF and Bissett,C

Bissett,C, Bernard,RTF and Parker,D

Coetze,J,JA
Coetzee,JA and Hill,MP

de Moor,FC
Hill, MP


Hodgson, AN, Henninger, TO and Froneman, PW

McQuaid, CD


Midgley, JM and Villet, MH

Muerle, T, Neumann, P and Hepburn, HR

Nicastro, KR, Zardi, GI and Porri, F

Orr, K and Froneman, PW
Orr, K, Burgess, JE and Froneman, PW. "Concentrations of heavy metals in the sediment and water of selected Eastern Cape (South Africa) estuaries". 5th International Conference on Marine Pollution and Ecotoxicology. City University of Hong Kong, Kowloon. Hong Kong. June 2007.

Orr, K, Burgess, JE and Froneman, PW. "The effects of mouth phase and rainfall on the concentrations of heavy metals in the sediment and water of select Eastern Cape estuaries, South Africa". 5th International

Price,BW and Villet,MH  

Richards,CS, Villet,MH and Patterson,IJ  

Richoux,NB and Froneman, PW  


Zardi,GI, McQuaid,CD, Nicastro,KR and Teske,PR  

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<td>“Bibliography of the giant honeybees, Apis dorsata Fabricius (1793) and Apis laboriosa F. Smith (1871)”. Apidologie. 2007. 38, 219-220.</td>
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<td>Hepburn, HR and Hepburn, C</td>
<td>“Bee-hawking by the wasp, Vespa velutina, on the honeybees Apis cerana and A. mellifera”. Naturwissenschafen. 2007. 94, 469-472.</td>
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<td>Coetzee, JA, Byrne, MJ and Hill, MP</td>
<td>“Impact of nutrients and herbivory by Eccritotarsus catarinensis on the biological control of water hyacinth, Eichhormia crassipes”. Aquatic Botany. 2007. 86, 179-186.</td>
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<td>Coetzee, JA, Byrne, MJ and Hill, MP</td>
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<td>Wilson, JRU, Ajuonu, O, Center, TD, Hill, MP, Julien, MH, Katagira, FF, Neuenschwander, P, Njoka, SW, Owgwang, J, Reeder, RH and Van, T</td>
<td>“The decline of water hyacinth on Lake Victoria was due to biological control by Neochetina spp.”. Aquatic Botany. 2007. 87, 90-93.</td>
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<td>“Wave exposure effects on population structure and recruitment in the mussel Perna perna suggest regulation primarily through availability of recruits and food, not space”.</td>
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<td>“Spatio-temporal variability of small copepods (especially Oithona plumifera) in shallow nearshore waters off the south coast of South Africa”.</td>
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Teske, PR and McQuaid, CD

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Teske, PR, Zardi, GI and McQuaid, CD

Villet, MH


Winch, JJWW and Hodgson, AN

Zardi, GI, McQuaid, CD and Nicastro, KR
Zardi, GI, McQuaid, CD and Nicastro, KR. “Balancing survival and reproduction: seasonality of wave action, attachment strength and reproductive output in indigenous Perna perna and invasive Mytilus galloprovincialis mussels”. Marine Ecology Progress Series. 2007. 334, 155-163.

Zardi, GI, McQuaid, CD and Teske, PR
Zardi, GI, McQuaid, CD, Teske, PR and Barker, NP. “Unexpected genetic structure of mussel populations in South Africa: indigenous Perna perna and invasive Mytilus galloprovincialis”. Marine Ecology Progress Series. 2007. 337, 135-144.

TOTAL FOR ZOOLOGY AND ENTOMOLOGY 29.35

POSTGRADUATE SUBSIDY UNITS *

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* 2007 graduates. The record of 2006 graduates can be found in the Appendix.
APPENDIX: 2006 MASTERS AND DOCTORAL GRADUATES, WITH SUBSIDY UNITS EARNED AND CLAIMED IN 2007

The details for departmental postgraduate outputs and subsidy units earned were first added to the annual Rhodes Research Report from the year 2006, in order to publicly acknowledge the contributions made by the staff concerned. The early production of the Report each year meant audited graduation data were unavailable, and 2004 data were captured in the 2006 Report. The 2007 Report followed suite (2005 data). However for the 2008 report the Research Office has chosen to align the year of research outputs (2007) with the same year’s postgraduate graduations and subsidy units earned. Thus, to correctly acknowledge the staff concerned, we have decided to place all 2006 postgraduate data, not previously reported, into this Report as an Appendix. The 2007 data are captured within the individual departmental reports.

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### MATHEMATICS (PURE AND APPLIED)

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### PHARMACY

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### PHILOSOPHY

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### POLITICAL AND INTERNATIONAL STUDIES

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**SCHOOL OF LANGUAGES**

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**SOCIOLOGY**

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**STATISTICS**

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**ZOOLOGY AND ENTOMOLOGY**

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