RHODES UNIVERSITY RESEARCH REPORT 2006
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PREFACE

Rhodes University defines as one of its three core activities the production of knowledge through stimulating imaginative and rigorous research of all kinds (fundamental, applied, policy-oriented, etc.), and in all disciplines and fields.

Though a small university with less than 6 000 students, the student profile and research output (publications, Master’s and Doctoral graduates) of Rhodes ensures that it occupies a distinctive place in the overall South African higher education landscape.

For one, almost 25% of Rhodes’ students are postgraduates. Coming from a diversity of countries, these postgraduates ensure that Rhodes is a cosmopolitan and fertile environment of thinking and ideas.

For another, Rhodes has the best research output of all South African universities, a testimony to the dedication and passion of its academics for research and the commitment of the University to nurture and cultivate knowledge production of all kinds. During 2006, Rhodes academics published 113 books and book chapters, 312 articles, and contributed 636 papers to conferences. One hundred and seventy students graduated with Master’s degrees and 47 with Doctorates.

In a number of areas Rhodes’ academics are at the cutting-edge of research, pushing the frontiers knowledge production. The award of a Department of Science and Technology sponsored Research Chair in Chemistry to Professor Nyokong is one indicator of national recognition of this reality. Rhodes researchers are at the forefront of a number of national projects, and also continue to attract research funding from a variety of international and national research agencies and industry.

Rhodes possesses an admirable research culture, and provides the intellectual space for the flourishing and debate of ideas, as evidenced by the number and diversity of seminars, public lectures, and the quality of local and international academics that visit Rhodes. A number of Rhodes academics also make important contributions to national public debate, enhancing the visibility of Rhodes in the intellectual life of South Africa.

Rhodes University is committed to maintain and, in the years to come, to enhance its research output, to broaden its research base, to bring on steam new generations of researchers (who are also increasing women and black), and to continue being a distinctive South African university in the domain of knowledge production.

DR SALEEM BADAT
VICE-CHANCELLOR
INTRODUCTION

The past year has again been a very successful and rewarding one for Rhodes research both in terms of the quality and quantity of research activities and outputs. There have been many highlights which are described in the next section including the award of one of the first Research Chairs as part of the exciting SA Research Chairs Initiative.

In 2005 research outputs in the form of articles in accredited journals increased significantly (16%) over the previous year as did the number of accredited books, chapters and conference proceedings. While the 2006 outputs are still to be audited, it is likely that journal units will again increase by 8% (248.5 units) and that there will be a considerable increase in book, chapter and conference proceeding accreditations. Added to this is the fact that there were 47 PhD graduates compared to 31 the previous year. This is very encouraging and is likely to keep Rhodes in the top three if not the leading University in the country in terms research outputs in relation to its size. I would like to stress that this increased productivity has not been at the cost of quality of research at Rhodes as can be seen from the achievements and recognition of staff and students highlighted in the next section.

I would also like to acknowledge the efforts and products by staff and students in those disciplines whose outputs are not formally recognised by the Department of Education’s subsidy system. By this I mean those in the visual and performing arts and in those disciplines whose research activities may result in such products as texts for teaching, newspaper and magazine articles, policy documents, internet articles and contract reports. While these do not derive direct subsidy for the University they do enhance the research profile of the institution in both an academic and public sense. I would therefore like to encourage staff and students in these disciplines to continue with their research efforts and to strive for excellence in this research.

In this regard I would, however, like to stress that wherever possible research products should be turned into subsidy earning outputs since this is the most direct way in which the University can increase its unencumbered research income and therefore improve the funding of all research activities. To further emphasise this I would like to point out that in 2006, as has been highlighted in this report, that there were 51 journal articles by Rhodes staff and students in non-accredited journals. This represents 17% of the total number of journal units and therefore a substantial loss of revenue. All staff and students are urged to publish journal articles in accredited journals whenever possible.

One of the major outputs of University research is the graduation of Masters and Doctoral students and for Rhodes University represents almost 50% of the research output subsidy. I would like to acknowledge and thank both the students and supervisors for the tremendous amount of effort and time they have put into the attainment of these higher degrees and in order to recognise this the 2006 Research Report for the first time lists the Masters and Doctoral graduates and their supervisors by Department. One of vital “cogs-in-the-wheel” and keys to the success of our postgraduate students is the supportive role played by the Postgraduate Liaison Committee. They have once again done an excellent
job in assisting our postgrads and in representing their interests on all key University committees and forums. My sincere thanks to them.

Finally my thanks and appreciation to Dr Saleem Badat, our Vice-Chancellor, for his support and encouragement of research at Rhodes. It is no secret that success requires leadership from the top and Dr Badat has provided that in terms of our research efforts.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH
RESEARCH HIGHLIGHTS

The past year has been a very productive one for research at Rhodes University and an exciting one for research in the Higher Education Sector as a whole with the launch of the National Research Foundation/Department of Science and Technology Research Chairs initiative, the establishment of national Research Niche Areas by the NRF and a very welcome injection of over R25 million into the National Equipment Programme. As will be highlighted below Rhodes did extremely well in all of these initiatives, certainly outperforming ourselves relative to our size and researcher numbers.

The SA Research Chairs Initiative, funded by government through the Department of Science and Technology and administered by the NRF, aims to establish 210 dedicated Research Chairs in South Africa. The objective of these Chairs is to significantly increase the capacity and productivity of research in South Africa over the next two decades and to enhance the research skills base in the country by producing significant numbers of PhD and Master’s graduates.

The results of the first call in Round 1 were recently announced by the Minister of Science and Technology and Rhodes is very proud to have been the recipient of one of these first 20 Chairs through the award of a Chair in Medicinal Chemistry and Nanotechnology to Professor Tebello Nyokong in our Department of Chemistry. Our heartiest congratulations to Professor Nyokong for this very well deserved accolade which is the result of many years of outstanding contribution by Professor Nyokong and her team in the field of Medicinal Chemistry and Electrochemistry. The value of the Chair is R2.5 million per annum for five years renewable for up to a further two five-year periods.

In the second call of Round 1 of the Research Chairs initiative, Rhodes was equally successful with seven out of nine proposals going forward for further consideration for awards to be announced early in 2007.

The NRF Research Niche Area programme was initiated in 2006 to enhance the research capacity and establishment of focused areas of research excellence in the country. Rhodes was awarded a Research Niche Area in “Biomolecular Interactions”, led by Professor Greg Blatch and will provide funding to a group of eight independent research groups in this field of research.

Rhodes University has done particularly well in the past two years in terms of funding from the National Equipment Programme administered by the NRF. In 2006 a 600MHz NMR and a Quartz Microbalance, together worth over R4.8 million, were commissioned and the University was awarded a further R2,2 million for a Confocal Microscope and an Atomic Force Microscope which will both be in use early in 2007. These instruments will significantly enhance the research capabilities of Rhodes staff and students and will allow the University to retain its position at the cutting edge of research in the chemical, biological and pharmaceutical disciplines.

Rhodes now boasts 10 major items of research equipment funded by National Equipment programme. It should be added that the University contributes 30% of the cost of this equipment, making this one of the largest commitments by the University to the research activities at Rhodes. Congratulations to Professors Kaye, Nyokong, Dorrington and Dr Limson who were responsible for the applications for the most recent awards of equipment.

This injection of major research funding will undoubtedly reap its rewards in terms of research outputs and research subsidy earnings for the University. In this regard, Rhodes once again had a
very successful year with a 15% increase in publications and an 8% increase in total research units earned allowing the University to remain one of the top research institutions in the country, particularly in relation to its size. Members of staff and postgraduate students remain dedicated not only to the production of research outputs but also to the quality of research carried out at Rhodes and they are to be very warmly congratulated for their research efforts.

Other notable research achievements during 2006 have been:

■ Vice-Chancellor Research Awards went to Professor Greg Blatch (Biochemistry, Microbiology and Biotechnology), VC’s Senior Research Award; Dr Makaiko Chithambo (Physics), VC’s Research Award and Professor Paul Maylam (History), VC’s Book Award.
■ Professor Justin Jonas, Head of Physics, led the South African scientific team which has successfully bid for now being one of only two countries (together with Australia) to be the site for the Square Kilometre Array (SKA). If awarded to South Africa it will be largest scientific project in the country costing over one billion euros for what will be the largest telescope ever built.
■ Professor Peter Rose, Head of the Environmental Biotechnology Research Unit, received an Excellence in Research award and was the prestigious Stander Lecturer at the 2006 Water Institute of SA Conference.
■ Rhodes students who were recipients of prestigious postgraduate scholarships were Ms Jobson (Flanagan Scholarship), Ms Millward (Abe Bailey Travel Bursary), Ms Jobson and Mr Wilhelm-Solomon (Rhodes Scholarships to study at Oxford), Mr Chigwamba and Mr Zuma (Mandela Rhodes Scholarships) and a further four students were awarded Commonwealth Scholarships.

Research at Rhodes continues to attract considerable funding from National Funding Councils and government agencies (R20 million in 2006), as well as from private and industry sources (R16 million). This represents an increase of over R8 million compared to 2005. Postgraduate funding for scholarships from outside funders and the University’s own funds also increased significantly with some R11 million being awarded to over 600 Honours, Master’s, Doctoral and postdoctoral scholars.

Postgraduate research has again been very ably supported by the Postgraduate Liaison Committee chaired by Dan Parker, a PhD student in Zoology. He and his committee are to be congratulated for organizing numerous workshops, discussions, information evenings and social events for postgraduates throughout the year. This committee provides an invaluable service and forum for postgraduate students and facilitates their representation on all major committees in the University.

Finally, I would like to thank our new Vice-Chancellor for the very positive and supportive manner in which he has approached research at Rhodes and for his personal dedication and contribution to ensuring that research will go from strength to strength at the University.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH
ACADEMIC DEVELOPMENT CENTRE

ADC research interests lay in the field of Higher Education and range from a direct interest in issues related to teaching and learning to interests in higher education policy. Much departmental research activity is related to the supervision of postgraduate students. In 2006, eleven doctoral candidates were registered with the ADC. Three of these, including ADC staff member Lynn Quinn, submitted theses at the end of the year and one candidate, Les Mitchell, succeeded in attaining a sole authored publication in an accredited journal. In addition to work at doctoral level, ADC staff members provided supervision to six master’s students. A total of ten students had also completed honours level work by the end of the year. Since the majority of candidates working at honours and master’s levels are Rhodes University staff members, one priority area is to convert work done for degree purposes into subsidy earning publications. To this end, ADC has planned a Writing Retreat to be held early in 2007 which will enable staff members to be mentored into translating their work into article format.

In the course of 2006, Markus Mostert and Cheryl Hodgkinson-Williams of the Department of Education completed a major piece of research into access to and usage of ICTs in teaching and learning on the Rhodes campus. This work was presented at a workshop held at the end of the year and is expected to inform technology planning into the future.

PROFESSOR C. BOUGHEY
DIRECTOR

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Mitchell, L

Sayigh, E

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

i. Local Conferences (Within South Africa)

Vongo, M

ii. International Conferences (Outside South Africa)

Boughey, C.

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.


JOURNAL SUBSIDY UNITS

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<td>Sayigh, E. &quot;Refining lecturers' assessment practices through formal professional development at Rhodes University&quot;. South African Journal of Higher Education. 2006. 20(1), 157-169.</td>
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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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The Department of Accounting continued to develop its postgraduate research in 2006. The course in research methodology and design as well as the research based Postgraduate diploma in Taxation program have proved to be successful additions to the department’s postgraduate offerings.

The following is a list of highlights for 2006:

1. Staff achievements

   ▪ Lilla Stack continues to serve 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.
   ▪ Mark Bunting is currently working on the research component of his Master’s in Financial Markets. Mark also successfully published the 2006 edition of his textbook on financial reporting in South Africa. The book is gaining in popularity and is also being bought by certain audit firms.
   ▪ Matthew Lester continues to lecture 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 presents the annual income tax update offered by the South African Institute of Chartered Accountants.
   ▪ Candice Mullins continued to work on her master’s research into the administration of a land tax in South Africa. Sadly, Candice has resigned from Rhodes to start up a tax practice in Grahamstown.
   ▪ Richard Poole is presently working on his Master’s thesis looking at taxation issues in mining in South Africa.
   ▪ Lilla Stack, Kevin Maree, Jonathan Lancaster and Candice Mullins all presented papers at the South African Accounting Association biennial conference held at Sun City from 28 to 30 June 2006.
   ▪ The Department successfully hosted the 2006 SAAA mini-conference for the East Cape region.
   ▪ Lilla Stack, Mark Bunting, Kevin Maree, Jonathan Lancaster and John Williams all continue to serve on the East Cape regional committee of the SAAA.
   ▪ Kevin Maree is currently doing research in the area of professional ethics.

2. Postgraduate students

   ▪ Registrations for 2007 include:
     - PhD 1
     - Master’s in Taxation 18

   ▪ Postgraduate students graduating in 2008 include:
     - Master’s in Taxation 2
     - Postgraduate Diploma in Accounting 32
     - Postgraduate Diploma in Taxation 10
     - BCom Honours in Financial Accounting 2

PROFESSOR K. MAREE
HEAD OF DEPARTMENT
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Lancaster, JCS

Maree, KW

Mullins, CJ

Poole, R
_Poole, R._ "The Deductibility of Interest: Capital or Revenue". _Southern African Accounting Association Biennial Mini Conference._ Rhodes University, Grahamstown, January 2006.

Stack, EM

JOURNAL SUBSIDY UNITS

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ANTHROPOLOGY

Last year Robin Palmer reported that a chapter for a book and two papers had been commissioned as a result of a sabbatical visit to the universities of Saint Norbert and Wisconsin-Green Bay, where he presenting a paper at *Whose Land is it?*, UW-GB’s third International Social Justice Symposium. Work proceeds slowly on these and they have not been published yet. A co-written paper has been meanwhile accepted by *Agrekon* and is due in March. Otherwise, Palmer was mainly involved in planning meetings (in Atlanta, USA, and Accra, Ghana) for a major international research project involving Rhodes, UW, Spelman University and several others in South Africa, Ghana and Uganda; but he also gave papers at two international conferences in the Western Cape -- *Land, Memory, Reconstruction and Justice: Perspectives on Land Restitution In South Africa* (HSRC / PLAAS) and *Transcending Postcolonial Conditions: Towards Alternative Modernities* (International Union of Anthropological and Ethnological Studies / Pan-African Anthropological Association / Anthropology Southern Africa).

Chris de Wet edited a volume linked to his research in development-induced resettlement with international participants and publisher and contributed three chapters of his own. He also gave papers at *Land, Memory, Reconstruction and Justice and Transcending Postcolonial Conditions*.

Rose Boswell’s book based on her doctoral thesis was published by Berghahn (Oxford) and launched at *Transcending Postcolonial Conditions* at which she also read a paper. She spent time in Zanzibar furthering her two year post-doctoral project funded by NOW/WOTRO (Netherlands) on ‘intangible heritage’ on the Indian Ocean littoral and islands. At home, she launched a seminar series (*Current Anthropology Research Seminars*) and gave the inaugural paper.

Penny Bernard read a paper at conference *Exploring Religion, Nature and Culture* at the University of Florida and otherwise proceeded with her doctoral research into water spirits and the initiation of Zulu diviners.

Joy Owen, our other staff doctoral student, also continued with her research on Congolese immigrants, but found time to produce a monograph on her research for OSSREA; present papers at *Transcending Postcolonial Conditions* and mounted an exhibition of student work.

For 2007 we have four doctoral students (one from 2006 is likely to graduate, if the corrections are made in time), and six Master’s students, two of whom will be graduating, one definitely and one probably *cum laude* 1.

PROFESSOR R. PALMER
HEAD OF DEPARTMENT

1 One examiner’s report is outstanding but imminent.

BOOKS/CHAPTERS/MONOGRAPHS

Boswell, MJR

de Wet, CJ


Owen, JN

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Boskovic, A

Boswell, MJR

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

Boswell, MJR

de Wet, CJ


Owen, JN

Palmer, RCG

Palmer, RCG. "Why has the racial division in South African Anthropological research persisted since 1994? What can be done to increase the range of research topics essayed by Black South African Anthropology Students?". *Transcending Postcolonial Conditions: Towards Alternative Modernities*. University of Cape Town, Cape Town. December 2006. 197.

*NOT AN ACCREDITED JOURNAL*
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS AND ATTENDANCE)

ii. International Conferences (Outside South Africa)

Bernard, PS

Palmer, RCG

Palmer, RCG. "Participation from the Eastern Cape, South Africa". Science and Social Transformation Planning Conference. Spelman University, Atlanta, Georgia. USA. March 2006.

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Boswell, M. JR

de Wet, C. J

Owen, J. N

OVERSEAS RESEARCH OR FURTHER STUDY

Boswell, M. JR

Palmer, RCG

Palmer, RCG. University of Ghana, University of Cape Coast, Legon, Cape Coast, Ghana. Research Planning for Science and Social Transformation Project. 29 July - 2 August 2006.

DISTINGUISHED VISITORS

Professor A J Dubey. Jawaharlal Nehru University, Delhi, India. Academic liaison. March 2006.
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<td>Boskovic,A. &quot;Balkan Ghosts Revisited: Racism, Serbian Style&quot;. <em>Anthropos</em>. 2006. 101(2),559-564.</td>
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### POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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The research activity of the department in 2006 resulted in a crop of 21 peer-reviewed articles in journals and 27 conference proceedings, from a total of over 70 research outputs, including two patents. The department will be graduating 9 MScs and PhDs in April and registering 5 new MScs and 2 new PhDs in 2007.

Dr Brett Pletschke was on sabbatical leave from July to December as a visiting scholar at the Section of Molecular and Cellular Biology at the University of California where he conducted work with collaborator Professor Roy Doi. Dr Pletschke also visited the CNRS institute in Marseille, France in September, where he visited collaborator Professor Henri-Pierre Fierobe. Professor Greg Blatch continued to make good use of his Wellcome Trust International Senior Research Fellowship and made visits to the University of the Saarland, Homburg, Germany and the University of Liverpool. However, they were not the only rovers from the department; Professor Chris Whiteley travelled to Japan to attend a conference and was selected as one of the South African Representatives at the 19th International Union Biochemistry & Molecular Biology General Assembly. Dr Caroline Knox won a SA-UK networks award from the NRF and Royal Society for travel to the University of East Anglia, UK for one-one meetings to further her collaborative research on viruses. Other staff and postgraduate students represented the department at conferences and symposia in Chile, China, Germany, the USA and Mexico. Closer to home, the BMB made a splash at the 20th South African Society for Biochemistry and Molecular Biology (SASBMB) conference with eleven paper and poster presentations, and four presentations at the 14th Biennial Congress of the South African Society of Microbiology, among other national events. Dr Gwynneth Matcher was awarded a Claude Leon Post Doctoral Fellowship to join the University of Stellenbosch.

Traffic the other way – into rather than out of the department – came in the form of new equipment as Professor Rosie Dorrington successfully lead an application to the NRF National Equipment Fund for the establishment of a regional confocal microscopy facility at Rhodes during 2007. During 2006 the Quartz Crystal Microbalance with Dissipation, obtained in 2005, was formally launched in a joint event with the new NMR in the Department of Chemistry. In addition, Dr Patricia Murray visited from the University of Liverpool (UK) to pursue research and present a department-wide seminar.

PROFESSOR R. DORRINGTON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Whiteley,CG

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barbosa,VL, Atkins,SD and Burgess,JE
Barbosa,VL, Atkins,SD, Pereira Barbosa,V, Burgess,JE and Stuetz,RM. "Characterisation of Thiothrix thioparus isolated from an activated sludge bioreactor used for hydrogen sulphide treatment". Journal of Applied Microbiology. 2006. 101,1269-1281.

Blatch,GL
Brand, JM

Burgess, JE

Dames, JF
Muerrle, TM, Neumann, P, Dames, JF, Hepburn, HR and Hill, MP. "Susceptibility of adult Aethinia tunida (Coleoptera:Nitidulidae) to entomopathogenic fungi". Journal of Economic Entomology. 2006. 99(1),1-6.

Dorrington, RA and Blatch, GL

Duncan, JR and Burgess, JE

Ehlers, GA and Rose, PD

Leukes, WD

Limson, JL
Brimecombe, RD, Fogel, RD and Limson, JL. "Electrochemical monitoring of the biodegradation of 2,4-dimethylaniline". Journal of Agricultural and Food Chemistry. 2006. 54,8799-8803.


Nicoll, WS, Boshoff, A and Blatch, GL

Pletschke, BI


Watson, SD and Pletschke, BI. "The effect of sulfide on α-glucosidases: Implications for starch degradation in anaerobic bioreactors". Chemosphere. 2006. 65(1),159-164.
Roman, HJ, Burgess, JE and Pletschke, BI

Whiteley, CG
Whiteley, CG. "Recovery of rhodium (III) from solutions and industrial wastewaters by a sulphate reducing bacterial consortium". Biotechnology Progress. 2006. 22(6),1604-1611.


Whittington-Jones, KJ and Rose, PD

Wilhelmi, BS and Pletschke, BI
Wilhelmi, BS and Pletschke, BI. "Cellulases (CMCases) and polyphenol oxidases from thermophilic Bacillus spp. isolated from compost ". Soil Biology and Biochemistry. 2006. 38(9),2963-2966.

OTHER PUBLICATIONS

Blatch, GL

Burgess, JE

Longshaw, VM, Nicoll, WS, Stephens, LL and Blatch, GL

Pletschke, BI

Whiteley, CG

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

i. Local Conferences (Within South Africa)

Blatch, GL

Blatch, GL and Bradley, G.


Dames, J F


Dames, J F and Whiteley, C G.


Nicoll, W S and Blatch, G L.


Pesce, E and Blatch, G L.

Pletschke, BI


Stephens, LL and Blatch, GL


Whiteley, CG


Wilhelmi, BS and Whiteley, CG


Wilhelmi, BS, Duncan, JR and Burgess, JE


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

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

Blatch, GL


Blatch, GL. "Hop networks molecular chaperone machinery in the cytosol and the nucleus". Wellcome Trust Fellows Meeting. Wellcome Trust Centre, London. UK. October 2006.

Burgess, JE

"Bioremediation of a distillery wastewater using white rot fungi and the subsequent production of laccase". IV International Specialized Conference on Sustainable Viticulture. Casino de Viña del Mare, Viña del Mare. Chile. November 2006.
Dairam,A and Limson,JL  

Hodgson,V, Hendry,D and Dorrington,RA  

Knox,CM and Dorrington,RA  

Limson, JL  

Longshaw,VM, Bradley,G and Blatch, GL  

Tandlich,R and Burgess,JE  
Melamane, XL, Tandlich,R and Burgess,JE. "Treatment of wine distillery wastewater by high rate anaerobic digestion”. IV International Specialized Conference on Sustainable Viticulture. Casino de Viña del Mare, Viña del Mare. Chile. November 2006.

Whiteley,CG  


PATENTS  
Limson, JL and Pletschke, BI  

Whiteley,CG, Pletschke, BI and Burgess,JE  

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.  
Blatch, GL  


Brimecombe, RD

Limson, JL


Whiteley, CG

OVERSEAS RESEARCH OR FURTHER STUDY

Blatch, GL
University of the Saarland, Homburg, Germany. Visiting Professor research visit. 21 August - 6 October 2006.

Burgess, JE

Knox, CM

Pletschke, BI

Pletschke, BI. CNRS, Marseilles, France. Sabbatical visit. 2 - 6 September 2006.

DISTINGUISHED VISITORS

Dr PA Murray. University of Liverpool, Liverpool, UK. Research visit and seminar presentations. March 2006.
<table>
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<td><strong>Barbosa, VL, Atkins, SD and Burgess, JE</strong></td>
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<td><em>Barbosa, VL, Atkins, SD, Pereira Barbosa, V, Burgess, JE</em> and Stuetz, RM. &quot;Characterisation of <em>Thiobacillus thioparus</em> isolated from an activated sludge bioreactor used for hydrogen sulphide treatment&quot;. <em>Journal of Applied Microbiology</em>. 2006. 101,1269-1281.</td>
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<td><strong>Limson, JL</strong></td>
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<td>*Brimecombe, RD, Fogel, RD and Limson, JL. &quot;Electrochemical monitoring of the biodegradation of 2,4-dimethylaniline&quot;. <em>Journal of Agricultural and Food Chemistry</em>. 2006. 54,8799-8803.</td>
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<td><strong>Nicoll, WS, Boshoff, A and Blatch, GL</strong></td>
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<td><strong>Watson, SD and Pletschke, BI</strong></td>
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<td><em>Watson, SD and Pletschke, BI. &quot;The effect of sulfide on α-glucosidases: Implications for starch metabolism&quot;</em>. 2006. 28(1),45-49.</td>
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degradation in anaerobic bioreactors”. *Chemosphere*. 2006. 65(1),159-164.

**Roman, HJ, Burgess, JE and Pletschke, BI**


**Whiteley, CG**


**Whittington-Jones, KJ and Rose, PD**


**Wilhelmi, BS and Pletschke, BI**

*Mayende, L, Wilhelmi, BS* and *Pletschke, BI*. “Cellulases (CMCases) and polyphenol oxidases from thermophilic *Bacillus* spp. isolated from compost”. *Soil Biology and Biochemistry*. 2006. 38(9),2963-2966.

TOTAL FOR BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY 16.56

POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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24
BOTANY

In 2006 staff and students published 21 journal papers, 11 popular articles and one book chapter. Staff and students presented 17 papers at international and 17 papers at local conferences, and presented an exhibition on indigenous plant use. Two staff proceeded overseas on sabbatical or to conduct research and the department received several international visitors. Four staff members made successful funding applications to the NRF and international funding organisations. In 2006, the staff hosted three postdoctoral fellows and supervised 7 PhD, 6 MSc, and 2 honours students. Three MSc and a PhD student will graduate with Botany degrees in April 2007.

Individual staff member’s achievements include:

Professor BS Ripley: Brad took a 6-month sabbatical and funded by a Conviron fellowship proceeded to Sheffield University to conduct research using a state of the art sub-atmospheric CO$_2$ facility. During his visit in the UK he and a PhD student presented research at a meeting of the British Ecological Society. Brad and his students continued with research on the evolution and competitive advantage of C$_4$ photosynthesis with colleagues from Sheffield University. NRF and NERC funding has allowed for the development of a new multi-species comparative experiment that will further explore this topic.

Professor CEJ Botha: Ted travelled to Pitlochry in Scotland to deliver papers at the 6th International Plasmodesmatal Biology conference, which was held between July 30 and August 4th and gave a keynote address on the unique plasmodesmata in the Cape honeysuckle. He also visited Blackwell’s in Oxford to finalize the Plant Anatomy Textbook that he is co-authoring, for publication in 2007. His strong collaboration with Swedish and Australian colleagues continues to yield exciting results.

Professor NP Barker: Nigel has two research thrusts: Studies into the phylogeography of coastal and marine organisms, and the systematics and biogeography of the southern African flora. He presented a synthesis of current research on the biogeography of African daisy groups at The International Compositae Alliance conference in Barcelona, Spain, in July. He also co-authored four other papers at this meeting. His post-grad students presented their work at the 6th Conference of the South African Society of Systematic Biologists held in the Kruger National Park in July, and Dr Teske, his post-doc, presented aspects of their work at the SASSAqS / PSSA joint conference held in Maputo, Mozambique in June.

Dr S Vetter: Susi, her postgraduate students and colleagues from Edinburgh University, UCT and SANParks completed the first year of an NRF funded project on the role of key resources in the Richtersveld National Park and their influence on livestock population dynamics and biodiversity conservation. Other students under her supervision continued work on conservation rangeland ecology.

Mr CI Peter: Besides his continuing research on evolutionary and ecological aspects of the pollination biology of the orchid genus *Eulophia*, Craig and his students have investigated aspects such moth pollination in orchids, pollinator driven speciation in *Pelargonium reniforme* and the unique case of *Strelitzia reginae* rewarding its weaverbird pollinators with pollen. These studies, together with new projects looking at the pollination of milkweeds, are part of a broader program examining the degree of generalization or specialization in the South African flora. He has published both popular and peer reviewed articles resulting from this research.

Mr AP Dold: Tony formally described a third new species of *Drimia* and together with Michelle Cocks from the ISER published three papers on their collaborative research into bio-cultural diversity. Tony and Michelle presented their exhibition entitled Imithi yesiXhosa - Plants for Health, Life and Spirit in Africa at Wageningen Public Library in the Netherlands with funding and support from Wageningen University.

Professor RA Lubke: Roy travelled to Madagascar and met up with Peter Phillipson (previously of the Botany Department) and studied the vegetation and restoration prospects in the SW of the country where proposed dune mining is to take place. He made presentations on the areas visited in Namibia and Madagascar to the Botanical Society and Wildlife Society. With favourable rains falling in the SW Cape
he was able to make an extensive field excursion to Namaqualand and parts of the Eastern Cape in the spring.

PROFESSOR B.S. RIPLEY
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Dold, AP

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barker, NP
Robertson, MP and Barker, NP. "A technique for evaluating species richness maps generated from collections data". South African Journal of Science. 2006. 102,77-84.


Botha, CEJ


Dold, AP

Cocks, ML, Bangay, L, Wiersum, KF and Dold, AP. "Seeing the wood for the trees: The role of woody resources for the construction of gender specific household cultural artefacts in non-traditional communities in the Eastern Cape, South Africa". Environment, Development and Sustainability. 2006. 8,519-533.


*NOT AN ACCREDITED JOURNAL
Dold, AP and Brink, E. "Hyacinthaceae, Drimia montana (Urgineoideae) a new species from Eastern Cape South Africa". Bothalia. 2006. 36(1),64-66.


Lubke, R

McKenzie, RJ and Barker, NP
McKenzie, RJ, Herman, PPJ and Barker, NP. "Arctotis Decurrens (Arctotideae), The correct name for A. Merxmuelleri and A. Scullyi". Bothalia. 2006. 36(2),171-173.


Peter, CI


Phillipson, P

Ripley, BS
Ripley, BS, Muller, E, Behenna, M, Whittington-Jones, GM and Hill, MP. "Biomass and photosynthetic productivity of water hyacinth (Eichhornia crassipes) as affected by nutrient supply and mirid (Eccritotarus catarinensis) biocontrol". Biological Control. 2006. 39,392-400.

Teske, PR

Teske, PR and Barker, NP
Teske, PR, McQuaid, CD, Froneman, PW and Barker, NP. "Impacts of marine biogeographic boundaries on phylogeographic patterns of three South African estuarine crustaceans". Marine Ecology Progress Series. 2006. 314,283-293.

Vetter, S
Campbell, BM, Gordon, IJ, Luckert, MK, Petheram, L and Vetter, S. "In search of optimal stocking regimes in semi-arid grazing lands: one size does not fit all". Ecological Economics. 2006. 60,75-85.

OTHER PUBLICATIONS

Barker,NP

Barker, NP and Peter, CI

Dold, AP


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

i. Local Conferences (Within South Africa)

Barker, NP

Barker, NP and Peter, CI
de Wet, LR, Barker, NP and Peter, CI. "Pollinator-mediated selection of Pelargonium reniforme as described by inter-simple sequence repeat markers". South African Association of Botanists. NMMU, Port Elizabeth. January 2006.
Botha, CEJ
Botha, CEJ, Aoki, N, Schofield, GN, Furbank, RT and White, RT. "Illuminating the xylem to phloem retrieval pathway in Oryza sativa". South African Association of Botanists. NMMU, Port Elizabeth. January 2006.

Saheed, SA and Botha, CEJ. "Differences in structural damage caused by Russian wheat aphid (Diuraphis noxia) in susceptible and resistant wheat cultivars". South African Association of Botanists. NMMU, Port Elizabeth. January 2006.


Botha, CEJ and Liu, L

Dold, AP
Cimi, P, Ngcoza, KM and Dold, AP. "Indigenous Ways of Knowing: Wild Food Plants (imifino)". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel-Wilderness, George. November/December 2006.

Cocks, ML and Dold, AP. "The significance of plant diversity to rural households in Eastern Cape Province of South Africa". 2004 Thicket Forum. 2006. 54. 35-42.


Donald, G and Ripley, BS

Peter, CI


Ripley, BS


White, A, Davies-Coleman, MT and Ripley, BS. "Quantifying stress induced bioactive umckalin content in wild harvested and greenhouse cultivated Pelargonium sidoides and evaluating tuber re-growth subsequent to harvest". South African Association of Botanists. NMMU, Port Elizabeth. January 2006.
Teske, PR and Barker, NP

Vetter, S


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

ii. International Conferences (Outside South Africa)

Barker, NP


Barker, NP and McKenzie, RJ

Barker, NP, McKenzie, RJ and Devos, N

Devos, N and Barker, NP
Donald, G and Ripley, BS

McKenzie, RJ and Barker, NP


Ripley, BS


Teske, PR and Barker, NP


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Dold, AP


OVERSEAS RESEARCH OR FURTHER STUDY

Botha,CEJ
Botha,CEJ. Pitlochry, UK. International Plasmodesmata Congress. 30 July - 4 August 2006.

Ripley,BS
Ripley,BS. University of Sheffield, Sheffield, UK. Sabbatical. 6 September - 31 October 2006.

DISTINGUISHED VISITORS

Professor HP Linder. Institute for Systematic Botany, Zurich, Switzerland. Lecture & Workshop. October 2006.


JOURNAL SUBSIDY UNITS

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<td>Barker,NP</td>
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<td>Robertson,MP and Barker,NP. &quot;A technique for evaluating species richness maps generated from collections data&quot;. South African Journal of Science. 2006. 102,77-84.</td>
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<tr>
<td>Verboom,GA, Ntoshi,R and Barker,NP. &quot;Molecular phylogeny of African Rytidosperma-affiliated Danthonioid grasses reveals generic polyphyly and convergent in spikelet morphology&quot;. Taxon. 2006. 55(2),337-348.</td>
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<tr>
<td>Dold,AP</td>
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<td>Dold,AP. &quot;Ceropegia macmasteri (Apocynaceae Asclepiadoideae Ceropegieae) a new species from Eastern Cape South Africa&quot;. South African Journal of Botany. 2006. 72,144-146.</td>
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<tr>
<td>Cocks,ML, Bangay,L, Wiersum,KF and Dold,AP. &quot;Seeing the wood for the trees: The role of woody resources for the construction of gender specific household cultural artefacts in non-traditional communities in the Eastern Cape, South Africa&quot;. Environment, Development and Sustainability. 2006. 8,519-533.</td>
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<tr>
<td>Cocks,ML and Dold,AP. &quot;Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa&quot;. Journal of Ethnobiology. 2006. 26(1),60-81.</td>
<td>0.50</td>
</tr>
<tr>
<td>Dold,AP and Brink,E. &quot;Hyacinthaceae. Drimia montana (Urgineoideae) a new species from Eastern Cape South Africa&quot;. Bothalia. 2006. 36(1),64-66.</td>
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</tr>
<tr>
<td>Venter,HJT, Dold,AP, Verhoeven,RL and Ionta,G. &quot;Kappia lobulata (Apocynaceae Periplocoideae) a new genus from South Africa&quot;. South African Journal of Botany. 2006. 72(4),529-533.</td>
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<td>Lubke,R</td>
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<td>Pete,J, Shackleton,CM, Cocks,ML and Lubke,R. &quot;Fuelwood harvesting and selection in Valley Thicket, South Africa&quot;. Journal of Arid Environments. 2006. 67,270-287.</td>
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<tr>
<td>McKenzie,RJ and Barker,NP</td>
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<td>McKenzie,RJ, Herman,PPJ and Barker,NP. &quot;Arctotis Decurrens (Arctotideae), The correct name for A. Merxmulleri and A. Scullyi&quot;. Bothalia. 2006. 36(2),171-173.</td>
<td>0.67</td>
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<tr>
<td>McKenzie,RJ, Mitchell,SD and Barker,NP. &quot;A new Species of Arctotis (Compositae, Arctotideae) from kommetjie grassland in Eastern Cape Province, South Africa&quot;. Botanical Journal of the Linnean Society. 2006. 151,581-588.</td>
<td>1.00</td>
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<tr>
<td>McKenzie,RJ, Muller,EM, Skinner,A, Karis,PO and Barker,NP. &quot;Phylogenetic relationships and generic delimitation in subtribe Arctotidinae (Asteraceae: Arctotideae) inferred by DNA sequence data from ITS and five chloroplast regions&quot;. American Journal of Botany. 2006. 93(8),1222-1235.</td>
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Ripley, BS. Muller, E. Behenna, M, Whittington-Jones, GM and Hill, MP. "Biomass and photosynthetic productivity of water hyacinth (Eichhornia crassipes) as affected by nutrient supply and mirid (Eccritotaros catarinensis) biocontrol". Biological Control. 2006. 39,392-400.


Teske, PR and Barker, NP. "Impacts of marine biogeographic boundaries on phylogeographic patterns of three South African estuarine crustaceans". Marine Ecology Progress Series. 2006. 314,283-293.

Vetter, S. Campbell, BM, Gordon, IJ, Luckert, MK, Petheram, L and Vetter, S. "In search of optimal stocking regimes in semi-arid grazing lands: one size does not fit all". Ecological Economics. 2006. 60,75-85.


TOTAL FOR BOTANY 9.16

POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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CHEMISTRY

Highlights for the Department of Chemistry in 2006 have included:- the appointment of Professor Tebello Nyokong to an NRF Research Chair in Medicinal Chemistry and Nanotechnology – one of only twenty such appointments countrywide thus far; the commissioning of the new 600 MHz NMR spectrometer as an East Cape Regional Facility (R6.3 million) and an ICP spectrophotometer (R0.5 million); and the visit of Professor Mike Cook from the University of East Anglia, (Norwich, UK), as the 2006 Barker Lecturer. Other prestigious visitors have included Professor N Kobayashi (Tohoku University, Japan) and Dr Fethi Bedioui (CNRS, France)

Postgraduate students and one postdoctoral fellow, both South African and international (from Lesotho, Zimbabwe, Mauritius, Namibia, Nigeria and Turkey), have continued to participate in various departmental research programmes in electrochemistry, photochemistry, inorganic and organic synthesis, thermal analysis and theoretical and marine natural products chemistry. Staff and postgraduate students have attended and contributed to the proceedings at numerous national and international conferences and co-authored no fewer than 31 papers in peer-reviewed journals.

PROFESSOR P.T. KAYE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Davies-Coleman, MT


Nyokong, T


Ozoemena, KI and Nyokong, T


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

English, RB, Kaye, PT and Sewry, JD


Familioni, OB and Kaye, PT


Galwey, AK

Galwey, AK. "What theoretical and/or chemical significance is to be attached to the magnitude of an activation energy determined for a solid-state decomposition?". Journal of Thermal Analysis and Calorimetry. 2006. 86(1),267-286.


Kaye, PT


Keyzers, RA and Davies-Coleman, MT

Keyzers, RA, Gray, CA and Davies-Coleman, MT

Klein, RA and Davies-Coleman, MT

Lamprecht, E, Watkins, GM and Brown, ME

Nyokong, T


Mashazi, PN, Ozoemen, KI and Nyokong, T. "Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H₂O₂ and fabrication of glucose biosensor". *Electrochimica Acta*. 2006. 52,177-186.


Tau,P and Nyokong,T. "Synthesis and electrochemical and photophysical properties of phthalocyaninato oxotitanium(IV) complexes tetra-substituted at the α- and β-positions with arylthio groups". *Dalton Transactions*. 2006. 4482-4490.


Siswana, M, Ozoemena, KI and Nyokong, T. "Electrocatalytic behaviour of carbon paste electrode modified with iron (II) phthalocyanine (FePc) nanoparticles towards the detection of amitrole". *Talanta*. 2006. 69, 1136-1142.

Ozoemena, KI, Maree, DM and Nyokong, T

Ozoemena, KI, Zhao, Z and Nyokong, T

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

**i. Local Conferences (Within South Africa)**

Beukes, E and Kaye, PT

Davies-Coleman, MT
White, A, Davies-Coleman, MT and Ripley, BS. "Quantifying stress induced bioactive umckalin content in wild harvested and greenhouse cultivated *Pelargonium sidoides* and evaluating tuber re-growth subsequent to harvest". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

Durmus, M and Nyokong, T

Kaye, PT


Klein, RA and Kaye, PT
Nyokong, T


Watkins, GM

Watkins, GM, Brown, ME and Lamprecht, E

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

ii. International Conferences (Outside South Africa)

Nyokong, T


Ozoemena, KI and Nyokong, T

Mashazi, PN, Ozoemena, KI, Westbrook, P and Nyokong, T. "Tetra carboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for \( \text{H}_2\text{O}_2 \) and fabrication of glucose biosensor". *11th International Meeting on Electroanalytical Chemistry (ESEAC 2006)*. Bordeaux, France. June 2006.


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

Nyokong, T

**DISTINGUISHED VISITORS**


Professor N Kobayashi. Tohoku University, Tokyo, Japan. Lecture. August 2006.

**JOURNAL SUBSIDY UNITS**

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<td>Galwey,AK and Mortimer,M.</td>
<td>&quot;Compensation effects and compensation defects in kinetic and mechanistic interpretations of heterogeneous chemical reactions&quot;.</td>
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<td>Keyzers,RA and Davies-Coleman,MT</td>
<td>Keyzers,RA, Northcote,PL and Davies-Coleman,MT. &quot;Spongian Diterpenes from Marine Sponges&quot;.</td>
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<td>Klein,RA and Davies-Coleman,MT</td>
<td>Scheepers,BA, Klein,RA and Davies-Coleman,MT. &quot;The synthesis of prenylated tolquinoines and toluydroquinones from a marine derived Penicillium fungus&quot;.</td>
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<td>Lamprecht,E, Watkins,GM and Brown,ME</td>
<td>Lamprecht,E, Watkins,GM and Brown,ME. &quot;The thermal decomposition of copper(II) oxalate revisited&quot;.</td>
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<tr>
<td>Agboola,BO, Ozoemena,KI and Nyokong,T.</td>
<td>&quot;Electrochemical properties of benzylmercapto and dodecylmercapto tetra substituted nickel phthalocyanine complexes: Electrocatalytic oxidation of nitrite&quot;.</td>
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<td>Bedioui,F and Nyokong,T.</td>
<td>&quot;Self-assembled monolayers and electropolymerized thin films of phthalocyanines as molecular materials for electroanalysis&quot;.</td>
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<td>Mashazi,PN, Ozoemena,KI and Nyokong,T.</td>
<td>&quot;Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H₂O₂ and fabrication of glucose biosensor&quot;.</td>
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<tr>
<td>Sehlotho,N and Nyokong,T.</td>
<td>&quot;Electrocatalytic oxidation of thiocyanate, L-cysteine and 2-mercaptoethanol by self-assembled monolayer of cobalt tetraethoxy thiophene phthalocyanine&quot;.</td>
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<td>Sehlotho,N and Nyokong,T.</td>
<td>&quot;Effects of ring substituents on electrocatalytic activity of manganese phthalocyanines towards the reduction of molecular oxygen&quot;.</td>
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<td>Sehlotho,N, Nyokong,T, Zagal,JH and Bedioui,F.</td>
<td>&quot;Electrocatalysis of oxidation of 2-mercaptoethanol, L-cysteine and reduced glutathione by adsorbed and electrodeposited cobalt tetra phenoxy pyrrole and tetra ethoxythiophene substituted phthalocyanines&quot;.</td>
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<td>Seotsanyana-Mokhosi,I, Kresfelder,T, Abrahamse,H and Nyokong,T.</td>
<td>&quot;The effect of Ge, Si and Sn phthalocyanine photosensitizers on cell proliferation and viability of human oesophageal...&quot;</td>
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TOTAL FOR CHEMISTRY 26.52

**POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS**

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COMPUTER SCIENCE

The research umbrella activity in Computer Science is the Centre of Excellence in Distributed Multimedia, funded by Telkom, Business Connexion, Converse, Verso Technologies, Storage Technology Services, Tellabs, and THRIP. Additional SMME partnerships were sought during 2006, and Amatole Telecommunication Services, Mars Technologies, and Bright Ideas Projects 39 will become active project collaborators from the start of the 2007 academic year. Additional funded research awards were received in 2006 from Yamaha Corporation in Japan, and from the NRF’s Focus Area Programme. Funds were pledged by some supporting industrial partners specifically to expand the physical infrastructure which houses research students in Computer Science. The work of the centre is focussed upon networked multimedia and related technologies.

Eight PhD students, seventeen Master’s students, and twenty-two honours students worked on research projects in the department in 2006. The numbers of students expected to graduate in April 2007 are: one PhD, six Master’s, and twenty honours. One Master’s student was upgraded to the PhD level as a consequence of exceptional progress.

Student and staff work was presented at a number of local and foreign forums during 2006. Special mention should be made of the softswitch management interface which was released as public domain software. Other noteworthy highlights were the completion of several security features which contribute to the softswitch architecture, and the integration of several additional features to the MLAN effort. A programming team comprising postgraduate Computer Science students produced one of the leading project designs in the international Simagine Competition during in 2006, and will compete as one of the few teams chosen from across the world in the final round of this competition in Barcelona in 2007.

From a funding point of view, 2006 turned out to be an extremely disrupted year, in which one of the primary funding sources, the DTI’s THRIP programme, first delayed the announcement of funding results until well into the year, and then altered the funding criteria to scope most of the projects at Rhodes out of consideration. Following substantial representations from many sources, THRIP issued a revised result for projects in good standing, in which a flat rate of 25% of eligible funding was awarded. Despite the substantially reduced funding from THRIP, the Computer Science project evaluation score card returned by the THRIP evaluation panel remained very positive.

Two full time researchers and one post-doctoral fellow were supported in the department with external funds. As a consequence of this momentum, the university provided funds for an additional post-doctoral candidate in the department in 2007.

A number of international visitors spent time the department during 2006, including Dr. Denis Riordan from Dalhousie University, Canada, Professor Erkki Sutinen of Joensuu University in Finland, Dr Lauri Kuukasjarvi and Mr Aki Enkenberg, Manager and national co-ordinator of COFISA, and Mr Robert Alfonsi of the University of Pisa, Italy.

Two Swiss postgraduate students, Ms Barbara Mueller and Mr Loic Schule, of EPFL, Switzerland (the Swiss Federal Institute of Technology), interned within the department for 6 months while undertaking projects in Multimedia Systems.

Several aspects of research undertaken in the Department of Computer Science resulted in active spin-offs or field trials in the local community. Rhodes Computer Science has launched a rural communications field trial in the remote Dwesa and Cwebe villages of the Eastern Cape, in collaboration with postgraduate students at the University of Fort Hare. Members of the department have been very actively involved in supporting IT and Network infrastructures at a number of previously disadvantaged schools in the Grahamstown area, and at the Centre for Social Development’s Raglan Road Multipurpose Centre, all of which form part of an experimental field trial of network infrastructure under development. A special-purpose small building was constructed with funds from the RB Hagart Trust to prototype the BingBee touchless kiosk concept developed by Professor Wentworth within the community.
PROFESSOR G. WELLS
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Terzoli,A

Wells,GC

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

i. Local Conferences (Within South Africa)

Bangay,S


Bangay,S and Foster,G

Biko,C and Terzoli,A

Brandt,IG
Clayton, P and Terzoli, A

Forrester, JI

Forrester, JI and Irwin, BVW


Foster, G and Foss, R

Irwin, BVW


Irwin, BVW and Slay, H

Irwin, BVW and Terzoli, A

Irwin, BVW and Wright, MK


Slay, H

Slay, H and Wentworth, EP

Slay, H, Terzoli, A and Clayton, P

Terzoli, A


Kos, S, Sam, M, Dalvit, L, Terzoli, A and Thinyane, M. "Creating a multimedia web-based glossary to promote multilingualism in education". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

Mapi, T, Dalvit, L and Terzoli, A. "Adoption of information communication technologies and computer education in a rural area in South Africa". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.


Terzoli, A and Clayton, P


Terzoli, A and Irwin, BVW


Wells, GC and Terzoli, A


Wentworth, EP


Wright, MK

Wright, MK. "An examination of the value of AJAX as a Web 2.0 technology". 8th Annual Conference on WWW Applications. Bloemfontein. 2006. 3-16.

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

ii. International Conferences (Outside South Africa)

Clayton, P, Wells, GC and Terzoli, A


Foss, R


Irwin, BVW


Terzoli, A

Brandt, IG, Terzoli, A and Hodgkinson-Williams, CA. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering and Advances. IEEE, University of Bridgeport, USA. December 2006.


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

**Brandt, I.G.**


**Brandt, I.G. and Slay, H.**


**Slay, H. and Brandt, I.G.**


**OVERSEAS RESEARCH OR FURTHER STUDY**

**Clayton, P.**

*Clayton, P.* Utah State University, Logan, USA. Sabbatical visit - adjunct research professor. 6 January - 1 May 2006.

**DISTINGUISHED VISITORS**


Ms B Clemmons. NASA, Texas, USA. Research Discussion. 2006.

Mr A Enkenberg. COFISA, Helsinki, Finland. Workshop and Data Collection. November 2006.


Dr L Kuukasjarvi. COFISA, Helsinki, Finland. Workshop and Data Collection. November 2006.


JOURNAL SUBSIDY UNITS

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<td>Wells,GC. “New and Improved: Linda in Java”. Science of Computer Programming. 2006. 59,82-96.</td>
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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Pienaar, L.


JOURNAL SUBSIDY UNITS

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<td>&quot;The Heart of the Matter - methodological challenges in developing a contemporary reading programme for monolingual lexicography&quot;. <em>Lexikos</em>. 2006. 16,257-269.</td>
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The staff continues to excel in professional outputs, producing diverse, original South African work.

A Greek translation of Professor Reza de Wet’s plays, Missing, Crossing, and Miracle, was launched in Athens, alongside a Greek production of Missing. The Brothers won the Aardklop Festival’s Best New Text, and the play was published by London’s Oberon Press.

Professor Andrew Buckland performed in Truth in Translation, an international collaboration. It premiered in Butare, Rwanda, also playing at the Market Theatre. Its 2007 schedule includes Cape Town, the Balkans, Northern Ireland and the USA. Professor Buckland also performed in Pinter’s Betrayal at the Baxter.

Professor Gary Gordon’s re-construction of Bessie’s Head toured nationally and to Botswana. With Heike Gehring as director, Professor Gordon choreographed Vrypas, receiving a Kanna nomination for Best Dance Production at the KKNK Festival.

At the National Arts Festival, students and staff featured in 14 productions. Juanita Finestone-Praeg choreographed 16 kinds of emptiness. Ms Gehring directed Expeditions to the Baobab Tree and Vrypas. Commissioned by the Festival, Alex Sutherland (in association with Eluxolweni Shelter) directed Sho’t Cut Corner, which toured to Britain.

Efforts at advancing academic research have produced results. Six papers were presented at the Dramatic Learning Spaces conference at UKZN. Ms Sutherland served on the executive committee for the national practice-as-research initiative supported by the NRF, and Ms Finestone-Praeg and Acty Tang produced pilot projects. The restructured Master’s coursework has seen growth; ten Master’s students are registering for 2007.

Ms Finestone-Praeg was promoted to Senior Lecturer. Ms Sutherland graduated with distinction for a MEd. Ms Gehring won the Rhodes University Women of the Year Award for outstanding achievement in Dramatic Arts. Mr Tang won the Standard Bank Young Artist Award for Dance.

Visiting director, Dion van Niekerk, returned from Tulane University, New Orleans and directed an American play Big Love. Mr Tang collaborated with capoeira artist Msindisi Mva in Hamburg, Eastern Cape, for television documentary programme Head Wrap.

The associated projects again made significant impact on the industry and development work. Ubom! Drama Company toured to all nine provinces and Botswana, reaching over 45,000 people. A second company travelled to disadvantaged areas of the Eastern Cape, performing to over 22,000 people.

First Physical Theatre Company highlights included 11 new theatre works, international touring and workshops, residencies, a dance film, the Skills Development course for VW Community Trust, the First Physical Youth Company and the launch of the First Physical Student Company.

MS. J. PRAEG
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

De Wet,R

Sutherland, AEM

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

**(PROCEEDINGS, BOOKLETS and ATTENDANCE)**

**i. Local Conferences (Within South Africa)**

**Gehring, H**

**Gordon, GE**

**Jordaan, M**

**Praeg, J**
*Praeg, J.* "Practice as research pilot project". *National practice as research pilot project.* University of Cape Town, Cape Town. July 2006.

*Praeg, J.* "Reflective (a)musings on 16 kinds of emptiness...a personal response to re-framing research for practice". *Dramatic Learning Spaces: A National Research Conference.* University of KwaZulu-Natal, Pietermaritzburg. September 2006.

**Sutherland, AEM**
*Sutherland, AEM.* "Writing and performing change - reflexivity and supercomplexity in Drama Studies". *Dramatic Learning Spaces: A National Research Conference.* University of KwaZulu-Natal, Pietermaritzburg. September 2006. 41.

**Tang, CWA**
*Tang, CWA.* "Practice as research pilot project". *National practice as research pilot project.* University of Cape Town, Cape Town. March 2006.


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

**Buckland, AF**


Buckland, JM


De Wet, R


Elliott, N

Gehring, H


Gordon, G.E.


**Sutherland, AEM.** Director. "Digging up the Past". Amathole Heritage Plays tour. 22 venues in the Amathole district. Various. 3 April - 15 May 2006.


**Tang, CWA.** Facilitator. UCT Drama Department. Cape Town. 28 August 2006.


**Tang, CWA.** Archivist/Editor. "Bessie’s Head". October 2006.
Tlholo, T

DISTINGUISHED VISITORS

Professor J Hanson. Gettysburg College, Gettysburg PA, USA. Academic exchange. February 2006.


Mr D van Niekerk. Tulane University, New Orleans, USA. Academic exchange. February-October 2006.

Mr D van Niekerk. Tulane University, New Orleans, USA. Director. February-April 2006.

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ECONOMICS AND ECONOMIC HISTORY

Dr Peter Van Der Hoek from the Vrije Universiteit in Amsterdam was awarded the Hobart Houghton Research Fellowship for 2006. He subsequently published an article in the Journal of European Economy.

Dr Ken Willis, a former Hobart Houghton Fellow, published two joint papers in Cultural Economics, using choice experiment methodology: one in Leisure Studies and one in the South African Journal of Economics.

Dr Jen Snowball graduated in April (PhD) and won the Economics Society of South Africa award for the best PhD thesis of 2005. She was also appointed to the editorial board of the South African Journal of Economics. Dr Snowball also presented a paper by herself and Professor Arthur Webb in Vienna at the Association for Cultural Economics International conference and was appointed book review editor for the association journal, the Journal of Cultural Economics. In a further partnership, Dr Snowball and Dr Tsitsi Mutambara presented papers at the South Eastern Workshop of Southern Africa (SEWSA) held at Rhodes in June.

Cyril Mbatha presented two papers at local and international conferences, and both were submitted to accredited journals.

David Fryer had a paper published in African Development Review. He also presented a paper at a conference “Poverty Alleviation and Job Creation Strategies for Local Economic Development” and completed a NRF research project titled: “Poverty and Job Search: South Africa”.

Interdepartmental cooperation produced a number of papers, some of which were presented at conferences. Magda Wilson presented a teaching and learning paper by herself and Dr Snowball at a conference in Cancun, Mexico. The paper won “Best Paper of the Conference” and has since been published in the Journal of College Teaching and Learning.

James Juana presented a paper at the Conference of the International Association of Agricultural Economists, Gold Coast, Australia. He also published a paper in an accredited academic journal.

Meshach Aziakpono delivered conference papers at the Annual Meeting of the Academy of Economics and Finance (Houston, Texas), and at the Annual Conference of the African Econometric Society (Dakar, Senegal). He also published two papers in accredited academic journals.

Professor Geoff Antrobus and Dr Jen Snowball collaborated and conducted another visitor survey at the National Arts Festival in July. They further published an investigation of the economic impact of foreign students on the Grahamstown economy in the South African Journal of Higher Education.

The Rhodes University/Economic Society of South Africa postgraduate research conference, run in September, was again a success, with Andrew Donaldson of the South African Treasury as the invited speaker.

Dr Xolile Guma, Deputy Governor of the South African Reserve Bank and Visiting Professor in Economics spent a few days at Rhodes during his annual lecturing visit in October. He also participated in the annual postgraduate conference.

Five students from the Public Finance class made the top 20 finals in the Nedcor/Old Mutual National Budget Speech competition in the undergraduate category.
PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Aziakpono,MJ


Faure,AP

Fryer,DCA and Vencatchellum,D

Juana,JS

Mentz,J

* Snowball,JD

Snowball,JD and Antrobus,GG
Snowball,JD and Antrobus,GG. "Is economic impact a good way to justify the inclusion of foreign students at local universities?". South African Journal of Higher Education. 2006. 20(3),168-181.

Snowball,JD and Willis,KG

* Snowball,JD and Wilson, MK

* Van Der Hoek,MP
Van Der Hoek,MP. "Romania and the European Union enlargement". Journal of European Economy. 2006. 5(3),278-289.

OTHER PUBLICATIONS

Cattaneo,N

*NOT AN ACCREDITED JOURNAL
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Aziakpono, MJ

Fryer, DCA
Fryer, DCA. "Linking (ASGI) with different theories from academic research to achieve government's goal of job creation and poverty alleviation by 2014". Poverty Alleviation & Job Creation Strategies for Local Economic Development. Southern Sun, Johannesburg. June 2006.

Mbatha, CN and Antrobus, GG

Snowball, JD

ii. International Conferences (Outside South Africa)

Aziakpono, MJ


Juana, JS


Mbatha, CN and Antrobus, GG
Snowball, JD and Webb, ACM

JOURNAL SUBSIDY UNITS

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<td>Aziakpono, MJ</td>
<td>Aziakpono, MJ</td>
<td>&quot;Financial Integration amongst the SACU Countries: Evidence from Interest Rate Pass-Through Analysis&quot;. Studies in Economics and Econometrics. 2006. 30(2),1-23.</td>
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<td>Fryer, DCA and Vencatchellum, D</td>
<td>Fryer, DCA and Vencatchellum, D</td>
<td>&quot;Returns to Education in South Africa: Evidence form the Machibisa Township&quot;. African Development Review. 2005. 17(3),335-591.</td>
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<td>Juana, JS</td>
<td>Juana, JS</td>
<td>&quot;A quantitative analysis of Zimbabwe's land reform policy: An application of Zimbabwe SAM multipliers&quot;. Agrekon. 2006. 45(3),294-318.</td>
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<td>Snowball, JD and Antrobus, GG</td>
<td>Snowball, JD and Antrobus, GG</td>
<td>&quot;Is economic impact a good way to justify the inclusion of foreign students at local universities?&quot;. South African Journal of Higher Education. 2006. 20(3),168-181.</td>
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<td>Snowball, JD and Willis, KG</td>
<td>Snowball, JD and Willis, KG</td>
<td>&quot;Building cultural capital: transforming the South African National Arts Festival&quot;. South African Journal of Economics. 2006. 74(1),1-14.</td>
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TOTAL FOR ECONOMICS AND ECONOMIC HISTORY 6.31

POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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TOTAL 9.00
EDUCATION

Our return for 2006 once again reveals a healthy and pleasing picture. The research re-orientation drive that the Department embarked on in 2005 is bearing fruit and we are happy with our integrated research culture. It is not always an easy task to balance our research work with other expectations in the tumultuous field of education.

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 multitude of conference presentations (over 40) is testament to a Department that is very active in the education terrain both nationally and internationally. The overall return gives the sense of an energetic and robust research climate in the department.

There is a good spread of contributions from all members of the Department and we are delighted at the international recognition of our work, particularly that emanating from the EESU. This research is internationally cutting edge, and deserves to be commended.

The Department’s research profile reflected in this report needs to be contextualised against a broader backdrop of an extensive post-graduate supervision programme. We supervise 150 Master’s students and have embarked on a doctoral programme that is structured around three PhD weeks per year and involves 30 PhD scholars. The productive and strategic integration of our students’ post-graduate work with that of our own writing remains a challenge. Two accredited journals are edited by staff of the Education Department.

The lack of support for broad based dissemination of research findings continues to be an issue for us and we are constantly seeking ways of strengthening the external impact of our research.

DR. M. SCHÄFER
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Brown, B and Schäfer, M


Ketlhoeilwe, MJ

Lotz-Sisitka, H


Lotz-Sisitka, H and O'Donoghue, R

Lotz-Sisitka, H, Shudel, I, O'Donoghue, R and Irwin, P

Stevens, A W

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Brown, B and Schäfer, M

Euvrard, G J

Irwin, P

Lotz-Sisitka, H

Murray, S

Nhamo, G

Nsibungu, Y

O'Donoghue, R
O'Donoghue, R. "Locating the environmental in environmental education research: A review of research on nature’s nature, its inscription in language and recent memory work on relating to the natural world". Environmental Education Research Journal. 2006. 12(3), 345-358.

*NOT AN ACCREDITED JOURNAL

O'Donoghue, R and Lotz-Sisitka, H


Olvitt, L.L.


Price, L.L.


Raven, G


Schudel, I.J.


Van Der Mescht, H


OTHER PUBLICATIONS

Lotz-Sisitka, H


Schäfer, M


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

i. Local Conferences (Within South Africa)

Brown, B


*NOT AN ACCREDITED JOURNAL*

Kos,S, Sam,M, Dalvit,L, Terzoli,A and Thinyane,M. "Creating a multimedia web-based glossary to promote multilingualism in education". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

Mapi,T, Dalvit,L and Terzoli,A. "Adoption of information communication technologies and computer education in a rural area in South Africa". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

Hodgkinson-Williams,CA

Hodgkinson-Williams,CA and Brown,B

Lotz-Sisitka,H

Murray,S


Ooshuizen,E, Mhoney,K, Svendsen,P and Murray,S. "Facilitating the professional development process: A case study from the Free State Department of Education". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

Murray,S and Ngozoa,KM
Gray,W, Murray,S, Ngozoa,KM and Adendorff,R. "Moving beyond the boundaries that define the traditional science classroom". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

Ngozoa,KM
Ngozoa,KM. "CHAT as a theoretical lens for the illumination of teachers’ professional development". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel-Wilderness, George. November/December 2006.

Ngozoa,KM and Bennett,M. "The role of practical work in photosynthesis". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel-Wilderness, George. November/December 2006.
Cimi,P, Ngcoza,KM and Dold,AP. "Indigenous Ways of Knowing: Wild Food Plants (imifino)". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel-Wilderness, George. November/December 2006.

Gama,V and Ngcoza,KM. "Mobilising and integrating learners' prior knowledge on acids and bases". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel-Wilderness, George. November/December 2006.

Schudel, IJ
Schudel, IJ. "Researching applied competence in teacher professional development". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Hotel, Wilderness. November/December 2006.

Smith, C
Blake,M and Smith, C. "Student leadership in primary school: What are we trying to achieve?". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Protea Wilderness Hotel, Wilderness. November 2006.

Stevens, AW

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

ii. International Conferences (Outside South Africa)

Dalvit, L

Davies, S

Hodgkinson-Williams, CA
Hodgkinson-Williams, CA. "Revisiting the concept of ICTs as 'tools': Exploring the epistemological and ontological underpinnings of a conceptual framework". Invited guest-of-the-month presentation to ITFORUM (2200 members online). University of Georgia, Athens. USA. March 2006.

Brandt, IG, Terzoli, A and Hodgkinson-Williams, CA. "Wi-Fi as a last mile access technology and The Tragedy of the Commons". International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering and Advances. IEEE, University of Bridgeport, USA. December 2006.

Irwin, P

Jolly, R
Kethoelwe,MJ  

Lotz-Sisitka,H  


Lupele,J and Urenje,S  

Lupele,J, Mwingi,M, Kinuna,F, Kimani,J and Kisamba,C  

Nsybungu,Y  

O'Donoghue,R and Lotz-Sisitka,H  

Olvitt,LL  

Olvitt,LL. "A Meaty Issue: early experiments in engaging others around how we might live better in the world". Annual Conference of the North American Association of Environmental Education. Riverfront Hotel, St Paul, Minnesota. USA. October 2006.


Schäfer,M  
Shava, S

Stevens, A.W.

Wilmot, P.D.
"Towards a vantage point for understanding a dynamic and social process of knowledge recontextualisation that took place in a case study on policy implementation at two South African schools". Proceedings of the Fourth International Basil Bernstein Symposium. Rutgers University-Newark, Newark, New Jersey. USA. July 2006. 414-459.

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Hodgkinson-Williams, C.A.


Hodgkinson-Williams, C.A and Irwin, P.
Hodgkinson-Williams, CA, van der Merwe, A and Mardon, L

Irwin, P

Lotz-Sisitka, H


Shava, S

DISTINGUISHED VISITORS


Professor B Jensen. Danish Pedagogical University, Copenhagen, Denmark. Contribution to RU/SADC Research project. April 2006.

Professor B Jickling. Lakehead University, Thunderbay, Canada. Lecturing to MEd students. May 2006.

Dr D Woods. University of Madison Wisconsin, Madison, USA. To run a workshop on Transanna, a data management and analysis programme. October 2006.

**JOURNAL SUBSIDY UNITS**

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EMUNIT

The main objective of the EM Unit is to support the research of academic staff and students. This was achieved in 2006, with researchers from a number of departments and research institutes using the facilities. In addition to users from Rhodes, researchers from Nelson Mandela Metropolitan University and Bayworld made regular use of the facilities. During the year a new scanning electron microscope (Tescan Vega) was purchased and since its installation, the instrument has been in constant demand. In September Ms Pinchuck, the Principal Technical Officer in the unit, travelled to Japan to present findings from her research on the structure of gastropod defensive glands at the 16th International Congress on Electron Microscopy. Staff of the unit also attended the local microscopy congress in Port Elizabeth in November, where they participated in technical workshops.

PROFESSOR A.N. HODGSON
HEAD OF UNIT

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

i. Local Conferences (Within South Africa)

Pinchuck, S and Randall, M

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

ii. International Conferences (Outside South Africa)

Pinchuck, S and Hodgson, AN

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Pinchuck, S and Randall, M


OVERSEAS RESEARCH OR FURTHER STUDY

Pinchuck, S

JOURNAL SUBSIDY UNITS

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ENGLISH

Highlighting another productive year for the Department was the publication of books by Dan Wylie and Don MacLennan. Dr Wylie’s *Myth of Iron* is the first serious attempt at a biography of the great Zulu king Shaka. The text combines historical and archival sleuthing with sophisticated narrative analysis and imaginative historical re-creation, and is destined, according to one of the publisher’s readers, to “become a landmark text in the study of Shaka and Zulu history”.

Don MacLennan’s *Selected Poems* are gleaned from no fewer than fourteen slim volumes of verse published over a period of thirty years. Launching the book in Grahamstown in October, Professor Cornwell hailed Don MacLennan as the finest living South African poet and expressed the hope that the new book would serve to introduce his work to a wider audience.

PROFESSOR G. CORNWELL
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

MacLennan, D

Marais, M


Walters, P

Wylie, D

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cornwell, G

Everitt, M
*Everitt, M. "On Humans as Animals: Sparring with the Beast in Douglas Livingstone's Poem 'Descent from the Tower". *Current Writing*. 2006. 18(1), 90-102.*


*NOT AN ACCREDITED JOURNAL
Glover, J

Gouws, JS

Jacobson, WS

Maclellan, D

Marais, M

Marais, M.

Walters, P

Wylie, D

OTHER PUBLICATIONS

Wylie, D


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

ii. International Conferences (Outside South Africa)

Cornwell, G

Gouws, JS

*NOT AN ACCREDITED JOURNAL*


**OVERSEAS RESEARCH OR FURTHER STUDY**

Beard, M

*British Library, London, United Kingdom. Ongoing research on eighteenth-century women's writing. 1 April - 31 May 2006.*

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<td>Everitt, M. 'Jack Sprat and His Wife: Symbiosis in Douglas Livingstone's <em>A Littoral Zone</em>. English in Africa*. 2005. 32(2),53-68.</td>
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<td>Glover, J.</td>
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<td>Glover, J. &quot;The Metaphor of the Horse in Doris Lessing's <em>The Marriages between Zones Three, Four and Five: An Ecofeminist Question?</em>. <em>Current Writing</em>. 2006. 18(1),119-132.</td>
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<td>Marais, M. &quot;Accommodating the Other: Derek Attridge on Literature, Ethics, and the Work of J.M. Coetzee&quot;. <em>Current Writing</em>. 2005. 17(2),87-101.</td>
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**POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS**

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ENGLISH LANGUAGE AND LINGUISTICS

Staff have been highly productive with a total of 12 publications in prestigious peer-reviewed journals or books. Five specialist papers were presented at conferences nationally and five, plus a poster, internationally (Seoul, Oslo, Helsinki, Oxford, Louisiana and Albuquerque). In addition Mr Bekker is making good progress with his PhD on South African English accent. Also of note, Kiran Pienaar published an article (along with Mr Bekker) based on her Master’s research and presented at an international conference.

2 PhD students submitted and will graduate, while 2 others continue working on theirs. One Master’s student, submitted her MA thesis, 4 others are working on theirs and 2 students’ Master’s proposals were accepted by the Higher Degrees Committee.

The Department’s strategy of consolidating its strong post-graduate tradition by (a) embarking on a corpus study in collaboration with an acoustic engineer from Stellenbosch University focusing on the accent of educated mother-tongue English speakers and (b) requiring 3rd-year research projects to focus on specified topics, has already yielded one publication. The strategy has also produced student research reports that identify a number of productive research possibilities.

Dr de Vos secured substantial SANPAD funding for a project entitled *Morphosyntactic variation in varieties of Afrikaans*. In conjunction with partners at Stellenbosch University and the Meertens Institute in Amsterdam, it will explore rural, marginalized and non-standard varieties of Afrikaans. Efforts are also underway to strengthen ties with the Computer Science Department to facilitate the development of a post-graduate programme in Computational Linguistics, a new and exciting linguistic field.

Professor Adendorff delivered his inaugural lecture titled: “Pidgins, creoles … and Fanakalo?” synthesizing many years of interest in Fanakalo and problematising yet further the nature and circumstances of origin of this language. Earlier he attended the Pidgin and Creole conference in Albuquerque where he co-presented with Professor Myers-Scotton, a noted sociolinguist. The year ended with the publication of Professor de Klerk’s book *Corpus Linguistics and World Englishes: An Analysis of Xhosa English*. The book represents the results of four years of focussed research.

Professor de Klerk continued as the Ministerial representative on The South African Geographical Names Council, and as treasurer of the Academy of Science of South Africa, and the English National Language Body. Professor Adendorff and Dr Simango are members of the Academy of Science of South Africa, and Dr Simango a board member of the Linguistic Society of Southern Africa. Dr Simango is also a member of the editorial committee for the journal *Southern African Linguistics and Applied Language Studies*. He continued his participation in the CASAS project on harmonization and standardization of African Languages. Ms Hunt continued to serve on the Board of the Southern African Applied Linguistics Association.

PROFESSOR R. ADENDORFF
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

*de Klerk,V*


De Vos, MA  

Simango, SR  

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Adendorff, R and de Klerk, V  

Bekker, I  

de Klerk, V  


de Klerk, V and Barkhuizen, G  

de Klerk, V, Adendorff, R, De Vos, MA, Hunt, S and Simango, SR  

Simango, SR  

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

i. Local Conferences (Within South Africa)

Adendorff, R  
Gray, W, Murray, S, Ngcoza, KM and Adendorff, R. "Moving beyond the boundaries that define the traditional science classroom". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.

*NOT AN ACCREDITED JOURNAL
Bekker, I

De Vos, MA

Pienaar, KM


Simango, S

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

ii. International Conferences (Outside South Africa)

Adendorff, R

de Klerk, V

De Vos, MA

Hunt, S

Pienaar, KM
Pienaar, KM. "Body talk: the discursive construction of the ideal female body". Associated Colleges of the South (ACS) Gender Studies Conference. Centenary College of Louisiana, Shreveport, Louisiana, USA. March 2006.

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Simango, S.R  
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TOTAL FOR ENGLISH LANGUAGE AND LINGUISTICS  
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ENVIRONMENTAL SCIENCE

Once again the Department of Environmental Science had a productive year in terms of research completed and outputs, spanning ten papers in refereed journals, one book chapter, and nine conference presentations. This is slightly down on previous years, partly due to the sabbatical leave periods of two staff members. Nonetheless, 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 over half the journal papers and two-thirds of the conference presentations. Postgraduate numbers remain healthy for 2007 (11 Honours, 16 Master’s and five PhD) and we are currently constrained by lack of space from taking on any more postgraduates.

Both Professors Fabricius and Shackleton spent time away on sabbatical during 2006. Each travelled overseas and had a productive period writing up past research as well as establishing new research networks. The benefits of these will be seen in the years to come.

Unfortunately a number of postgraduates missed the submission deadline and so will only be graduating in a year’s time. But in common with the last two years, we anticipate that four Master’s students will be graduating in April 2007, namely, Tracey Cumming, Juliana Keirungi, Henning de Klerk and Fiona Paumgarten.

PROFESSOR C.M. SHACKLETON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Fabricius,C

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Paumgarten,F
Paumgarten,F. "The role on non-timber forest products as safety-nets: A review of evidence with a focus on South Africa". Geojournal. 2006. 64,189-197.

Shackleton,CM


*NOT AN ACCREDITED JOURNAL

79

Shackleton, CM and Gambiza, J

Shackleton, CM and Shackleton, SE


OTHER PUBLICATIONS

Shackleton, SE


RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES

i. Local Conferences (Within South Africa)

Cundill, G

Fourie, S

Shackleton, CM


Shackleton, SE
Steele, M

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

ii. International Conferences (Outside South Africa)

Fabricius, C

Pereira, T

Shackleton, CM

OVERSEAS RESEARCH OR FURTHER STUDY

Shackleton, CM

DISTINGUISHED VISITORS


Mr PR Bhat. Centre for Ecological Sciences field station, Indian Institute of Science, University of Bangalore, Sirsi, Karnataka, India. Experience and discuss approaches to natural resource management in South Africa and to share insights and experiences from India. May 2006.

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<td>Paumgarten,F. &quot;The role on non-timber forest products as safety-nets: A review of evidence with a focus on South Africa&quot;. Geojournal. 2006. 64,189-197.</td>
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<td>Shackleton,CM</td>
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<td>Dovie,DBK, Shackleton,CM and Witkowski,ETF. &quot;Valuation of communal area livestock benefits, rural livelihoods and related policy issues&quot;. Land Use Policy. 2006. 23,260-271.</td>
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<td>Guthrie,G and Shackleton,CM. &quot;Urban-rural contrasts in Arbor Week in South Africa&quot;. South African Journal of Science. 2006. 102,14-18.</td>
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<td>Madubansi,M and Shackleton,CM. &quot;Changing energy profiles and consumption patterns following electrification in five rural villages, South Africa&quot;. Energy Policy. 2006. 34,4081-4092.</td>
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<td>Pote, J, Shackleton,CM, Cocks, ML and Lubke, R. &quot;Fuelwood harvesting and selection in Valley Thicket, South Africa&quot;. Journal of Arid Environments. 2006. 67,270-287.</td>
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**Shackleton,CM and Gambiza,J**


Shackleton, CM and Shackleton SE.


**TOTAL FOR ENVIRONMENTAL SCIENCE**

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**POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS**

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FINE ART

The Fine Art Department has produced a balance of published research and exhibitions.

Professor Brenda Schmahmann, on research leave in the first half of the year, wrote *Mapula: Embroidery and Empowerment in the Winterveld* during this period as well as a journal article accepted by the United Kingdom journal, *Textile: The Journal of Cloth and Culture* for publication in 2007. Ruth Simbao published two articles in accredited journals, one of which is the top United States-based journal *African Arts*. Professor Brenda Schmahmann published a conference paper in the United Kingdom journal *Interpreting Ceramics*. Michael Herbst, Ruth Simbao and Professor Dominic Thorburn published exhibition and book reviews.

Notable amongst the art exhibited by members of the Department is Maureen de Jager’s one-person show at the National Arts Festival and Brent Meistre’s contribution to the Nelson Mandela Metropolitan Biennial Award Exhibition which resulted in his winning of that award. Professor Dominic Thorburn contributed to two international exhibitions. Mark Hipper, on leave during the first half of the year, spent two months as guest at the University of Newcastle in Australia and initiated a new body of work that he plans to exhibit in 2007. Christine Dixie has been busy on a one-person exhibition that will be on the main programme of the National Arts Festival as well as the Standard Bank Art Gallery in Johannesburg in 2007.

One Master of Fine Art, Natascha Spargo, graduated in April 2006, as did Master of Art History candidate, Carol Brown. Three Master of Fine Art students – Genevieve Bateman, Monique Pelser and Jordan Tryon – are expected to graduate in April 2007.

The Fine Art Department hosted three guests. A lecture by Professor Kemp of the Royal College of Art was held under the auspices of the Department, Professor Elizabeth Rankin of the University of Auckland delivered three Art History & Visual Culture lectures as well as a public lecture, and Diane Victor taught undergraduate drawing for a period of three weeks.

PROFESSOR B. SCHMAHMANN
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

*Schmahmann*,B


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

*Schmahmann*,B


*Schoeman*,G


*Simbao*,R


*NOT AN ACCREDITED JOURNAL*

**OTHER PUBLICATIONS**

Herbst, M

*Herbst, M. "Book on Sandile Zulu by Colin Richards (Johannesburg: David Krut Publishing)". De Arte. 2006. 73, 66-69.*

Simbao, R

Thoburn, D

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

i. Local Conferences (Within South Africa)

Herbst, M

Schmahmann, B

Simbao, R

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

ii. International Conferences (Outside South Africa)

Simbao, R

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

De Jager, M
Meistre, B


Thorburn, D


OVERSEAS RESEARCH OR FURTHER STUDY

Hipper, M
Hipper, M. University of Newcastle, Newcastle, Australia. Guest artist. 15 February - 15 April 2006.

DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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GEOGRAPHY

In 2006, Professor Etienne Nel continued his research work in the area of local development in Southern Africa. His key research involvement was with a major World Bank / Development Bank study of Local Economic Development in South Africa. He attended two conferences, one in New Zealand and the second in the United Kingdom and he continued his involvement with government policy processes. He continues to collaborate with Professor Binns from Dunedin University, New Zealand, who visited the department on the Distinguished Lecturer programme.

Ms Gillian McGregor presented a poster paper at the Thicket Forum in July. She was elected president of the forum for the next two years. The department has agreed to host the annual meeting of the forum in 2007.

Professor Roddy Fox spent his sabbatical leave between South Africa, Sweden, Finland and Ethiopia. In Sweden and Finland he continued his pedagogical research into game playing and attended the 2006 Summer School and Conference at the Finland Futures Academy (Turku, Finland). He and Professor Rowntree ran their role playing African Catchment Game with summer school participants. This marked the establishment of a continuing collaborative venture with academics from the Finland Futures Academy. Professors Fox and Rowntree presented a paper at the Highland2006 conference in Mekele, Ethiopia, where they enjoyed a number of field excursions into the local countryside.

Professor Rowntree delivered a paper at the conference on Forest Management, Land Degradation and Poverty organised in February by the International Geographical Union’s Commission on Land Degradation at Vinh University, Vietnam. Field visits gave delegates the opportunity to meet local people and to see some of the problems of land degradation in this rapidly developing country. Professor Rowntree was also invited to present a paper at a workshop on Governance, Technology and Reform Policies in Water Management at Wageningen University preceding the formal defense of PhD students.

The department has continued its active involvement in fluvial geomorphology and water related research in collaboration with the Institute of Water Research. The Water Research Commission continues to be a key funder. These projects have attracted international students from the Universities of Wisconsin, Ghent, Wageningen and Sheffield who undertook their research projects under our guidance. Professor Foster from the University of Coventry, Visiting Professor at Rhodes University, is making a significant contribution to consolidating geomorphological research in the department.

The department had begun to develop an area of expertise in climate disaster management through the activities of Mr Pyle, a PhD student. He had established active local and international contacts and was engaged in proposals to set up a research centre in the department. Unfortunately the necessary resources were not forthcoming to retain him in the department after he completed his thesis at the end of the year.

Graduation 2007: MSc - Benedict Cobben; PhD - Desmond Mark Pyle

PROFESSOR K.M. ROWNTREE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Foster,IDL


Lewis, C


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Foster, IDL


Nel, EL


Hill, T, Nel, EL and Trotter, D. "Nature based Tourism As a Pro-Poor Development intervention: Case Studies from KwaZulu-Natal, South Africa". Singapore Journal of Tropical Geography. 2006. 27, 163-175.


Rowntree, KM
Rowntree, KM. "Integrating Catchment Management through landcare in the Kat Valley, Eastern Cape Province, South Africa". Physical Geography. 2006. 27(5), 435-446.


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

i. Local Conferences (Within South Africa)

Fox, RC

*NOT AN ACCREDITED JOURNAL
Mcgregor, G

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

ii. International Conferences (Outside South Africa)

Nel, EL

Nel, EL and Gibb, M

Rowntree, KM

Rowntree, KM and Fox, RC


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Rowntree, KM

Rowntree, KM and Fox, RC

OVERSEAS RESEARCH OR FURTHER STUDY

Fox, RC

DISTINGUISHED VISITORS


Dr A Dixon. University of Otago, Dunedin, New Zealand. 2006.


Mr O Heitenan. Finland Futures Academy, Turku, Finland. 2006.


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<td><em>Kakembo,V, Palmer,AR</em> and <em>Rowntree,KM</em>. &quot;The Use of High Resolution Digital Camera Imagery to Characterise the Distribution of Pteronia Incana Invader Species in Ngqushwa (Formerly Peddie) District, Eastern Cape, South Africa&quot;*. <em>International Journal of Remote Sensing</em>. 2006. 27(13),2735-2752.</td>
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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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GEOLOGY

The department’s research activities were strengthened by the appointment of the Xstrata Research Fellow in Economic Geology, Dr Alex Cabral. Xstrata, one of the world’s major mining companies, made a donation to the department to fund the fellowship in perpetuity and Dr Cabral is the first incumbent. Collectively academic staff and associates of the department published 6 papers and their research work was the subject of 13 presentations at international conferences and 4 presentations at local conferences. Three department members successfully applied for an NRF research rating, bringing the number of rated scientists in the department to four. Department members continue to be involved in research administration activities: Professor JS Marsh served as convenor of the NRF Assessment Panel for the Earth Sciences; Dr EM Bordy served as an associate editor for the international journal Palaeo; Dr Rose Prevec is an Associate editor of the journal Palaeontologia Electronica and also edits Palnews, the newsletter of the Palaeontological Society of South Africa.

A feature of the department’s research is its strong international links. The Science Academy of Finland is funding a collaborative programme involving Dr Steve Prevec of Rhodes University and colleagues at the University of Helsinki. The programme funds two MSc students enrolled at Rhodes University. Dr Emese Bordy is a principal investigator on a joint South-African-Hungarian Science and Technology Co-operation Programme involving Rhodes University and the Eötvös Lorand University in the comparative study of ancient and modern fluvial systems. Professor JS Marsh is collaborating with two groups working on Karoo Igneous activity. The one, based at the University of Oslo, is investigating emplacement mechanisms of Karoo intrusions. The other, from Institut de Physique du Globe de Paris is doing detailed volcanological and palaeomagnetic work on the Karoo lava sequence of Lesotho in order to better constrain the duration of volcanism and its implications for climate change and mass extinctions.

PROFESSOR JS. MARSH
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cabral, AR
_Cabral, AR, Lehmann, B, Galbiatti, HF and Rocha Filho, OG_. "Evidence for metre-scale variations in hematite composition within the Palaeoproterozoic Itabira Iron Formation, Minas Gerais, Brazil". _Mineralogical Magazine_. 2006. 70,591-602.

Moore, JM
_Hammond, NQ_ and _Moore, JM_. "Archaean lode gold mineralisation in banded iron formation at the Kalahari Goldrige deposit, Kraaipan Greenstone Belt, South Africa". _Mineralium Deposita_. 2006. 41,483-503.


Moore, JM and Tsikos, H

OTHER PUBLICATIONS

Prevec, R

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

i. Local Conferences (Within South Africa)

Bordy, EM


ii. International Conferences (Outside South Africa)

Bordy, EM

Bordy, EM and Prevec, R

Buttner, SH

Marsh, JS


Moore, JM

Moore, JM, Bordy, EM and Marsh, JS

Prevec, R


Prevec, SA

Skinner, EMW and Marsh, JS


DISTINGUISHED VISITORS


**JOURNAL SUBSIDY UNITS**

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<td>Hammond,NQ and Moore,JM. &quot;Archaean lode gold mineralisation in banded iron formation at the Kalahari Goldridge deposit, Kraaipan Greenstone Belt, South Africa&quot;. <em>Mineralium Deposita</em>. 2006. 41,483-503.</td>
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HISTORY


Julie Wells continued her research on Makana. This is nearing completion with a book likely to appear in 2007. At the same time she has carried on and further developed her work in the heritage and tourism sector, working closely with members of local communities.

Felistus Kinyanjui successfully completed her Ph.D thesis on the Thika District of Kenya and will graduate in April 2007, as will Linda Schwartz, for her MA thesis on generational change among African women in Grahamstown.

PROFESSOR P. MAYLAM
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Baines,G

Kirkaldy,A
Kirkaldy,A. "Events that shaped our world; Conflicts that shaped our world; Does capitalism mean freedom or not?". In: Kirkaldy,A, De Vries,I, Dryer,J, Van Der Merwe,R and Van Deventer, W (eds) Bateleur Panel, Step Ahead, Social Sciences, Learner's Book Grade 8 - Department of Education prescribed textbook. Bateleur Books. Cape Town. 2006.


Mkhize,N

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Baines,G
Baines,G. "Coming to terms with the past: Soweto, June 16th, 1976". History Today. 2006. 56(6),18-20.
Kirkaldy, A


Mkhize, N


Msindo, E


OTHER PUBLICATIONS

Maylam, P.R


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

i. Local Conferences (Within South Africa)

Baines, G


Greyling, S


Kirkaldy, A


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

ii. International Conferences (Outside South Africa)

Tsampiras, C


*NOT AN ACCREDITED JOURNAL
CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Maylam, PR

Wells, J


Wells, J and Mkhize, N

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HUMAN KINETICS AND ERGONOMICS

Our outputs for 2006 focused broadly on the conceptual area of ergonomics system and design theory and on the laboratory and field study of manual material handling, with an emphasis on IDC-specific requirements. Three papers were published in international journals, one paper in a national journal, and 18 papers were presented in 2006 at national and international conferences.

In the manual material handling research Mattison (formerly Renz) and Scott published a paper in the International Journal of Applied Ergonomics entitled "A combined field and laboratory investigation for the effective application of ergonomics in situ". This paper summarises the findings of Miriam Mattison’s Master’s thesis about a method to redesign packaging tasks in poorly industrialised domains by a combined field (analysis), laboratory (analysis and synthesis) and again field (application and evaluation) approach. This approach proves to be very effective in areas where no extensive ergonomics studies may be applied in the field. It thus enables the introduction of ergonomics for many poorly industrialised tasks which represent a huge part of all work performed, not only in Industrially Developing Countries but in all countries around the world. Further, it contributes to face the ongoing challenge of joining laboratory and field studies.

During the 2006 conference of the International Ergonomics Association (IEA) in Maastricht (Netherlands) Miriam Mattison received the KU Smith Student Paper Award, recognising her Master’s thesis as one of two internationally outstanding contributions of junior researchers.

Some more conceptual papers dealt with a general systems analysis and design approach for ergonomics, aiming to join the huge variety of different concepts and methods into one consistent model frame. An application of this highly appreciated, and still to be advanced, concept is shown in an invited journal contribution by Goebel, Zschenack and Yoo for the design of inspection tasks. Other conference papers present details of this concept and apply it for ergonomics work design in the hospital domain and for products for elderly persons.

Important detailed research was further performed on research and analysis methods, such as the accuracy of predicting the energy cost of lifting tasks (Brune), physiological and biomechanical considerations for assessing manual materials handling tasks (Christie and Todd), application of regression equations to predict oxygen consumption and energy expenditure (Hutching), applicability of a sub-maximal cycling protocol as a predictor of energy expenditure to manual materials handling tasks (Elliot), the implication of task and human operators in manual materials handling (Todd and Christie) and cost benefit analysis in ergonomics (Todd and Cripwell).

Complementary research was performed to gather information about occupational risk and optimisation of working conditions, such as work demands placed on chainsaw operators during forestry work (Christie, Scott and James), pushing tasks with different handle heights (Cripwell, Cohen and Skelton), computer operator responses to personalised adjustments (James and Scott), kinematic, physiological and perceptual analyses in automotive industry (James and Scott), slip, trip and fall implications of pushing and pulling tasks (James and Todd) and strain relevance of tasks and working conditions in the operating room as well as the effect of monitor position during minimal-invasive surgery on muscular strain (Zschenack and Goebel).

Many of the latter mentioned contributions were supported or directly reflect postgraduate student research.

Thatcher and Todd compiled a special edition of the International Journal of Industrial Ergonomics summing up the major contributions of the virtual CybErg 2005 conference. This issue is devoted to underline the holistic approach of Ergonomics by seeking to join very different approaches, from the analysis of human gait to the research of different information seeking behaviour in the World Wide Web, into one systemic ergonomics context.

Further, Candice Christie graduated with her PhD in 2006.
For 2007, there will be 3 PhD and 7 (4 first year and 3 second year) MSc students registered in the department.

PROFESSOR M. GOEBEL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Goebel, M and Zschernack, S


Scott, PA

James, G and Scott, PA. "Analysis of computer operator responses to personalised adjustments made to standard computer workstations". *Ergonomics SA*. 2006. 18(1), 33-56.

Scott, PA and Renz, MC. "A combined field and laboratory investigation for the effective application of ergonomics in situ". *Applied Ergonomics*. 2006. 37(6), 785-792.

OTHER PUBLICATIONS

Todd, A


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

i. Local Conferences (Within South Africa)

Brune, C


Christie, CJ


Cripwell, A, Cowen, K and Skelton, S


Elliott, A


*NOT AN ACCREDITED JOURNAL
Hutchings, J

Scott, PA

Todd, AI

Todd, AI and Christie, CJ

Zschernack, S and Goebel, M

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

ii. International Conferences (Outside South Africa)

Christie, CJ and Scott, PA

Goebel, M

Goebel, M and Zschernack, S

Mattison, MC

Scott, PA


Todd, AI

Zschernack, S and Goebel, M


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

Goebel, M


**DISTINGUISHED VISITORS**


Dr L Schmidt. Society for research in applied Sciences (FGAN), Wachtberg-Werthoven, Germany. Lecture, cooperation in research. May 2006.

**JOURNAL SUBSIDY UNITS**

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James, G and Scott, PA. "Analysis of computer operator responses to personalised adjustments made to standard computer workstations". Ergonomics SA. 2006. 18(1), 33-56. 1.00

Scott, PA and Renz, MC. "A combined field and laboratory investigation for the effective application of ergonomics in situ". Applied Ergonomics. 2006. 37(6), 785-792. 1.00

TOTAL FOR HUMAN KINETICS AND ERGONOMICS 2.00
POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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Ichthyology and Fisheries Science

Aquaculture research on kob, abalone an integrated species culture within the Department of Aquaculture and Fisheries Science (DIFS) received a boost with the Frontier Mariculture Programme, funded by Department of Science and Technology and Marine and Coastal Management, supporting five projects worth R2.4 million rand. This resulted in the refurbishment of the DIFS Port Alfred laboratory and the placement of a number of graduate students on commercial farms to research aspects of aquaculture technology. The DIFS’ Rural Fisheries Programme under management of Qurban Rouhani led a Water Research Commission participative action research project in collaboration with the National Department of Agriculture to develop strategic plans for freshwater aquaculture in the provinces. Research at Bird Island to support the management of the marine component of the newly proclaimed Addo National Park is being led by Professor Warwick Sauer in collaboration with SANParks and the newly established marine node of the South African Environmental Observation Network (SAEON), Professor Britz with PhD student Serge Raemaekers led an assessment of the illegal abalone fishery in the Eastern Cape for Marine and Coastal Management which revealed that the illegal trade is worth over R200 million per year and is depleting the resource. A collaboration between Professor Horst Kaiser and specialist pathologist Dr Wimpie Vermeulen (affiliated to Nelson Mandela Metropolitan University) has resulted in novel insights into the origin of blood cells (haematopoesis) as well as on understanding the physiological mechanisms regulating stress in abalone. An assessment of productivity and contribution to livelihoods the Lake Gariep fishery was initiated by Dr Olaf Weyl. Professor Booth has continued his research into the population dynamics of estuarine, freshwater and marine fishes. Emeritus Professor Tom Hecht continued to supervise his team of graduate students developing aquaculture techniques for the white margined sole (which is traditionally caught by means of forks in the wave zone along Eastern Cape beaches).

Professor P. Britz
Head of Department

Books/Chapters/Monographs

Booth, AJ

Publications Research Journals in Abstract and/or Full Paper

Booth, AJ

Booth, AJ and Quinn, TJ. "Maximum likelihood and Bayesian approaches to stock assessment when data are questionable". *Fisheries Research*. 2006. 80, 169-181.

Dicken, ML, Booth, AJ and Smale, MJ. "Preliminary observations of tag shedding, tag reporting, tag wounds and tag biofouling for raggedtooth sharks (*Carcharias taurus*) tagged off the east coast of South Africa". *ICES Journal of Marine Science*. 2006. 63(9), 1640-1648.


Booth, AJ and Sauer, WHH

Booth, AJ, Hecht, T and Andrew, T


Hecht, T

Hecht, T and Kaiser, H

Kaiser, H


Kerwath, SE

Naran, D
Richardson, N

Sauer, WHH


Sauer, WHH and Booth, AJ

Vine, NG and Kaiser, H

Weyl, OLF

OTHER PUBLICATIONS

Britz, PJ

Hecht, T

James, NPE

Rouhani, QA

Vine, NG


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

i. Local Conferences (Within South Africa)

Rouhani, QA and Britz, PJ

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

ii. International Conferences (Outside South Africa)

Britz, PJ


Britz, PJ and Jones, CLW

Hecht, T


Jones, CLW and Britz, PJ

Sauer, WHH

Vine, NG
Weyl, OLF

JOURNAL SUBSIDY UNITS

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<td><strong>Booth, AJ</strong></td>
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<td>Booth, AJ and Potts, WM. &quot;Estimating gill-net selectivity for <em>Labeo umbratus</em> (Pisces: Cyprinidae) and an evaluation of using fyke-nets as a non-destructive sampling gear in small reservoirs&quot;. <em>Fisheries Research</em>. 2006. 79, 202-209.</td>
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<td>Booth, AJ and Quinn, TJ. &quot;Maximum likelihood and Bayesian approaches to stock assessment when data are questionable&quot;. <em>Fisheries Research</em>. 2006. 80, 169-181.</td>
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<td>Dicken, ML, Booth, AJ and Smale, MJ. &quot;Preliminary observations of tag shedding, tag reporting, tag wounds and tag biofouling for ruggedtooth sharks (<em>Carcharias taurus</em>) tagged off the east coast of South Africa&quot;. <em>ICES Journal of Marine Science</em>. 2006. 63(9), 1640-1648.</td>
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<td>Dicken, ML, Smale, MJ and Booth, AJ. &quot;Spatial and seasonal distribution patterns of the ruggedtooth shark (<em>Carcharias taurus</em>) along the coast of South Africa&quot;. <em>African Journal of Marine Science</em>. 2006. 28, 603-616.</td>
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<td>Rutaisire, J and Booth, AJ. &quot;A histological description of ovarian recrudescence in two populations of <em>Labeo victorianus</em> populations&quot;. <em>African Journal of Aquatic Science</em>. 2005. 29, 221-228.</td>
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<td>Kruijswagen, G, Hecht, T, Pratap, HB and Wengelaar-Bonga, SE. &quot;Changes in morphology and growth of the mudskipper <em>Periodiphthalus argentinilineatus</em> associated with coastal pollution&quot;. <em>Marine Biology</em>. 2006. 149(2), 201-211.</td>
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**Kaiser, H**


**Kerwath, SE**


Richardson,N


**Sauer, WHH**


**Sauer, WHH and Booth, AJ**


**Vine, NG and Kaiser, H**


**Wey, OLF**


**TOTAL FOR ICHTHYOLOGY AND FISHERIES SCIENCE**

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**POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS**

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INFORMATION SYSTEMS

A total 27 post-graduate Honours (21), Master’s (4) and Doctoral (2) students engaged in a variety of research projects during the year. Additionally, a student in the Rhodes Investec Business School (RIBS) was supervised by a member of the Department.


Two Master’s students were awarded degrees at the April, 2006 Graduation Ceremony.

Members of staff and students participated in a number of local and international conferences notably: SANGONet (Southern African Non-Governmental Organisation Network), SACLA (South African Computer Lecturers’ Association), SAICSIT (South African Institute of Computer Scientists and Information Technologists), ISMICK (International Symposium on the Management of Industrial and Corporate Knowledge), CITTTE (Conference on Information Technology in Tertiary Education), E-Learn 2006 (World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education).

Ms Caroline Pade was rewarded for her efforts at the SAICSIT Conference with the Best Paper Runner-Up Award.

A paper reporting on an investigation of learning objects and metadata was published in the prestigious Journal of Computer Assisted Learning.

Following successful completion of their Master’s degrees in Service Management and Service Agreements in the Department, Mr Rob Benyon and Mr Rob Johnston concluded an agreement with Van Haren Publishing and the International Information Technology Service Management Forum (itSMF) to write a book on Service Management and Agreements. Months of writing, reviewing of reports and modifications culminated in the publication of a book in September 2006 entitled “Service Agreements”. This is the first book published by members of the Department. Mr Rob Benyon was also invited to present his work at two itSMF Conferences, one in Tokyo, Japan and another in Johannesburg.

The second Eastern Cape ICT (ECICT) “Research Rumble” hosted by NMMU attracted an enormous number post-graduate students and staff from UFH, NMMU and Rhodes. The Rumble is set to become an annual event at which all ICT-based research at Eastern Cape universities will be presented.

The Department hosted the second annual eLearning Research Symposium attended by students and staff from the Computer Science and Information Systems Departments of University of Pisa, Walter Sisulu University, East Cape Technikon, University of Fort Hare (Alice) and Rhodes University. The keynote speaker was Professor John Traxler of the Applied Innovative Digital Technologies Research Group within the School of Computing and IT at the University of Wolverhampton. The theme for the Seminar was ‘mLearning and other ICTs for Rural Development’.

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PROFESSOR D.A. SEWRY
HEAD OF DEPARTMENT
BOOKS/CHAPTERS/MONOGRAPHS

**Benyon,RV and Johnston,RB**

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

**Mallinson,BJ and Sewry,DA**

**Sewry,DA**

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

i. **Local Conferences (Within South Africa)**

**Forrester,JI**

**Mallinson,BJ and Sewry,DA**

**Pade,CI, Mallinson,BJ and Sewry,DA**. "An Exploration of the Categories Associated with ICT Project Sustainability in Rural Areas of Developing Countries: A Case Study of the Dwesa Project". *Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT)*. Erinvale Estate Hotel, Somerset West. October 2006. 100-106.

**Palmer,L and Sewry,DA**

**Sewry,DA**

**Sunassee,NN**
ii. International Conferences (Outside South Africa)

Mallinson, BJ


DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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<td>Krull, GE, Mallinson, BJ and Sewry, DA. &quot;Describing online learning content to facilitate resource discovery and sharing: the development of RU LOM Core&quot;. Journal of Computer Assisted Learning, 2006. 22,172-181.</td>
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<td>Sewry, DA</td>
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<td>Elliott, RM and Sewry, DA. &quot;The influence of organisational factors in small tourism businesses on the success of Internet marketing&quot;. South African Computer Journal, 2006. 37,41-50.</td>
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INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA

The Director, Professor Laurence Wright, led a seminar on the Southern Hemisphere Spread of Shakespeare research and publication programme at the 8th World Shakespeare Congress in Brisbane, Australia, in July, and delivered a paper on ‘Archdeacon Merriman, Caliban and the Xhosa Cattle-killing of 1856-7’ at the same conference. South African articles from the Spread of Shakespeare team members are to appear in a focus issue of the prestigious International Shakespearean Yearbook, to be edited by the Director. He also gave two papers at the University of Western Australia, one for the 14th Perth Mediaeval and Renaissance Symposium, on transcendence in renaissance drama, and another on JM Coetzee for the Western Australian Centre for African Studies. A further piece on JM Coetzee will appear in a volume published by Cambridge University Press.


In language policy research, the Director contributed by invitation a piece on ‘Language Policy and Language Planning: general constraints and pressures’ for a series of policy discussion papers developed by members of the English National Language Body (ENLB) which has been submitted to PanSALB for publication as one outcome of the ENLB deliberations.

Rhodes Professor of Poetry, Chris Mann, delivered his inaugural lecture, ‘Seeing the Cosmos in a Grain of Sand,’ to great acclaim, in the form of a long poem. He also published a collection, Lifelines, with scientific notes by Adrian Craig and illustrations by Julia Sleen, which continues his poetic exploration of the relations between science and the arts. He continues his efforts to expand the South African audience for ‘word art’ by publishing his poetry in an unusually wide range of publications.

Alan Macintosh Research Fellow Margie Probyn pursued her research into the teaching of science at school, publishing ‘Language and learning science in South Africa’ in Language and Education (2006). ‘Smuggling the vernacular into the classroom’ is forthcoming in the International Journal of Bilingual Education and Bilingualism.

Research Officer Monica Hendricks was awarded her doctorate by the University of the Witwatersrand for work on ‘Writing Practices in Additional Languages in Grade 7 Classes in the Eastern Province.’ She published ‘Candid Tour of Eastern Cape Rural Schools’ in the South African Labour Bulletin, and further work based on her doctorate is forthcoming in Southern African Linguistics and Applied Language Studies.

Cossie Rasana, who left the Institute in December to take up a Ford Foundation doctoral fellowship at the University of Wales, Bangor, published ‘The reading preferences of Grade 11 learners from the Eastern Cape’ in Southern African Linguistics and Applied Language Studies.

PROFESSOR L.S. WRIGHT
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Hendricks, MG
**Mann,CM**


**Wright,LS**


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

* Hendricks,MG


*Mann,CM*


* Probyn,MJ


*Rasana,NH*


**Wright,LS**

*Wright,LS.* "The humanities, vocationalism and the public good". *English Academy Review*. 2006. 23(2),127-146.


**OTHER PUBLICATIONS**

*Mann,CM*


*NOT AN ACCREDITED JOURNAL*


Wright, LS


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

Mann, CM

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Mann, CM


Mann, CM. Author and performer. "Lifelines". University of Western Cape. Cape Town. 15 June 2006.


Mann, CM. Author and performer. "Lifelines". St George's Hall. Grahamstown. 27 June 2006.


Mann, CM. Author and interviewee. "Lifelines". SATV. Johannesburg. 20 August 2006.


Mann, CM. Author and performer. "Seeing the Cosmos in a Grain of Sand". English Department, UNISA. Pretoria. 23 August 2006.

Mann, CM. Author and performer. "Lifelines". English Department, UNISA. Pretoria. 23 August 2006.


Mann, CM. Author and performer. "Lifelines". English Department, Pretoria University. Pretoria. 24 August 2006.


OVERSEAS RESEARCH OR FURTHER STUDY

Wright, LS
Wright, LS. University of Western Australia, Perth, Australia. 22 July - 6 August 2006.
**JOURNAL SUBSIDY UNITS**

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<td>&quot;A Meditation at Nongqause's Grave&quot;.</td>
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<td>&quot;The relevance of (South African) renaissance studies&quot;.</td>
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INSTITUTE FOR WATER RESEARCH

During 2006 the Institute staff contributed to 12 papers in international journals, with approximately 5 more in press. More than 15 research or consultancy reports were produced, as well as a number of paper presentations at local and international conferences.

Ecology Group
Dr Nick Rivers-Moore, a post-doctoral fellow left the Institute during 2006 to take up a position in KZN Wildlife. However, he is continuing to work on a WRC project on the impacts of flow variation on water temperature and ecology. Dr Sukhmani Mantel joined the Institute from the University of Hong Kong. She is working on ecological responses to changing flow patterns using the national biomonitoring database.

Hydrology Group
The two resident postgraduates in the hydrology group, who are supported by IWR funds, have made excellent progress during their first years of registration and have both submitted papers to an international conference for 2007. Professor Hughes attended the 5\textsuperscript{th} International FRIEND conference in Havana, Cuba.

Unilever Centre for Environmental Water Quality
UCEWQ continues to attract students, contribute to professional short courses and collaborate with various groups, both within Rhodes as well as with other organisations. Staff and students were well represented at the SASAQS conference in Maputo, Mozambique. Dr Muller attended the WISA conference in Durban, the International Conference on Water in the Environment (Stellenbosch) and the International Conference on pesticide use in Developing Countries (Arusha, Tanzania).

Postgraduate students
The following students are either registered in the IWR, or are supervised or co-supervised by IWR staff.

Graduated in 2006
Marius Claassen: PhD (The development and application of ecological risk assessment in South African water resource management).

Sekhonyana Lerotholi: MSc (The role of salinity as an abiotic driver of ecological condition in a semi-arid agricultural catchment).

Pumza Maseti: MSc (Evaluating the usefulness of three biomonitoring indices in two contrasting catchments of the Eastern Cape).

Registered for 2006
Nosiphiwo Ketse: MSc (Embryonic development of the freshwater shrimp \textit{Caridina nilotica} and the effect after exposure to reference toxicants). First registered in 2004

Irene Naigaga: PhD (co-supervisor) (Use of bioindicators and biomarkers to assess aquatic environmental contamination in selected wetlands receiving urban runoff). First registered in 2003

Andrew Gordon: PhD (Investigating the potential of chemical biomarkers for determining chronic effects of linear alkylbenzene sulphonate (LAS) on an indigenous invertebrate). First registered in 2005

Pearl Gola: PhD (Use of Algae in toxicity testing). First registered in 2006

Tendai Sawunyama: PhD (Uncertainty in hydrological modelling). First registered in 2006

Evison Kapangaziwiri: MSc (Parameter identification in hydrological modelling). First registered in 2006
Mashudu Murovhi: MSc (Development and assessment of a water resource database and appropriate analysis and management tools for the Eastern Cape Province). First registered in 2005

Naomi Richardson: MSc (Biomonitoring of estuarine fish). First registered in 2005

PROFESSOR D.A. HUGHES
DIRECTOR

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Gordon, AK

Hughes, DA
Hughes, DA. "Comparison of satellite rainfall data with observations from gauging station networks". Journal of Hydrology. 2006. 327(3), 399-410.


Hughes, DA and Forsyth, DA

Muller, WJ

Rivers-Moore, NA and Birkholz, SA

Sawunyama, T
Sawunyama, T, Senzanje, A and Mhizha, A. "Estimation of small reservoir storage capacities in Limpopo River basin using geographical information systems (GIS) and remotely sensed surface areas: Case study of Mzingwane catchment". Physics and Chemistry of the Earth. 2006. 31, 935-943.
OTHER PUBLICATIONS

Muller, WJ

JOURNAL SUBSIDY UNITS

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INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

In 2006, the ISER consolidated existing research programmes and investigated new directions and partnerships. We expanded our board of management and employed new staff members. We wrote nine book chapters for edited books, published by Routledge, Palgrave, Springer, Transnational Institute and Cambridge University Press. In addition, eight journal articles were produced. ISER held an exhibition during the year called *Imithi YesiXhosa* at Wageningen University. Staff attended conferences in Germany, Netherlands, USA, Tanzania as well as local conferences hosted by various government departments, provincial administrations and civil society groups. Links with eastern Cape scholars were forged in preparation for the production of the book provisionally titled *State of the Eastern Cape*.

We relocated the Municipal Services Project (MSP) to the ISER offices. The MSP is a multi partner research, policy and educational initiative examining the restructuring of municipal services in southern Africa. We continue to assist the production of the on Journal of Contemporary African Studies. In 2006 Volume 24, Numbers 1, 2 and 3 were published.

Professor Møller was made Chair of Quality of Life at the institute towards the end of the year. The ISER has also undergone a transitional phase as the new director, Professor Greg Ruiters, took over at the end of 2006. Dr Michelle Cocks graduated (PhD) from Wageningen University, Netherlands and subsequently published a book titled *Wild resources and cultural practices in rural and urban households in South Africa*.

In 2006, Professor Giovanni Arrighi and Professor Beverly Silver, from Johns Hopkins University, were appointed as research associates. We hosted an International Society for the Quality of Life Studies conference (ISQOLS). We have an student exchange agreement with the Transnational Institute based in Amsterdam.

We have increased our graduate student and intern intake four-fold, we will have 8 post-graduates in the institute in 2007. Two MA (by thesis) students under ISER supervision will graduate in 2007.

PROFESSOR G. RUITERS  
DIRECTOR  

BOOKS/CHAPTERS/MONOGRAPHS

Cocks,ML  

Ruiters,G  


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cocks, ML

*Cocks, ML, Bangay, L, Wiersum, KF and Dold, AP.* "Seeing the wood for the trees: The role of woody resources for the construction of gender specific household cultural artefacts in non-traditional communities in the Eastern Cape, South Africa". *Environment, Development and Sustainability*. 2006. 8,519-533.


Møller, V


OTHER PUBLICATIONS

Cocks, ML


Møller, V and Erstad, I

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

i. Local Conferences (Within South Africa)

Cocks, ML

Cocks, ML and Dold, AP. "The significance of plant diversity to rural households in Eastern Cape Province of South Africa". 2004 Thicket Forum. 2006. 54. 35-42.


Farrington, K

Huschka, D

Møller, V

Møller, V and Erstad, I

Ruiters, G

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

ii. International Conferences (Outside South Africa)

Møller, V

Ruiters, G


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Cocks, ML


Møller, V

JOURNAL SUBSIDY UNITS

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<td><em>Cocks, ML, Bangay, L, Wiersum, KF and Dold, AP.</em> &quot;Seeing the wood for the trees: The role of woody resources for the construction of gender specific household cultural artefacts in non-traditional communities in the Eastern Cape, South Africa&quot;. <em>Environment, Development and Sustainability</em>. 2006. 8, 519-533.</td>
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<td><em>Cocks, ML and Dold, AP.</em> &quot;Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa&quot;. <em>Journal of Ethnobiology</em>. 2006. 26(1), 60-81.</td>
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<td><em>Pote, J, Shackleton, CM, Cocks, ML and Lubke, R.</em> &quot;Fuelwood harvesting and selection in Valley Thicket, South Africa&quot;. <em>Journal of Arid Environments</em>. 2006. 67, 270-287.</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>. 2006. Online, 1-27.</td>
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<td><em>Møller, V.</em> &quot;Quality of life in South Africa: The first ten years of democracy&quot;. <em>Social Indicators Research</em>. 2006. Online, 1-20.</td>
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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

| INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH | |
|------------------------------------------||
| **STUDENT** | **SUPERVISOR/S** | **M** | **UNITS** |
| TOTAL | | | 0.00 |
ILAM’s Director, Professor Diane Thram produced a videographic DVD presentation on ILAM that was used effectively at the ILAM display table at the annual conference of the Society for Ethnomusicology, University of Hawaii, Honolulu in November, 2006. At this conference Professor Thram chaired a panel of four presentations on South African music based on field research in South Africa, which included her paper on her research on coherences between practices of indigenous Xhosa religion and those of the Zion Church.

Professor Thram’s publications in 2006 were:


**PROFESSOR D. THRAM**
**DIRECTOR**

**BOOKS/CHAPTERS/MONOGRAPHS**

*Thram, DJ*

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

*Thram, DJ*


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

ii. International Conferences (Outside South Africa)

*Thram, DJ*


**JOURNAL SUBSIDY UNITS**

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INVESTEC BUSINESS SCHOOL

During 2006, the research activity of the Business School was primarily focused on supervising MBA dissertations and April, witnessed the graduating of six 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 Master’s and PhD candidates in other Departments.

During September, Dr Noel Pearse – who recently joined RIBS from the Department of Management – attended “The Art of Research Supervision” workshop hosted by the South African Business Schools Association. This workshop has provided valuable insights into the supervisory standards and practices of other Business Schools, and as such, has also been a useful benchmarking exercise.

The School has been receiving an increasing number of applications from prospective PhD applicants. Many of these applications have had to be turned away or referred elsewhere, due to limited staff capacity or because of the lack of fit between the research topic and staff members’ areas of specialisation. In 2006 there was one PhD candidate registered in the School and 66 MBA students. Furthermore, staff of the School were involved in supervising two Master’s and four PhD students in other Departments. Looking ahead to 2007, we are anticipating that ten students will graduate and that the first year MBA intake will grow to 30. It is also anticipated that there will be at least an additional two PhD applicants registering.

PROFESSOR G. STAUDE
DIRECTOR

OVERSEAS RESEARCH OR FURTHER STUDY

Pearse,N

DISTINGUISHED VISITORS

Dr T Blecher. CEO of CIDA City Campus, Johannesburg. Lecture. June 2006.
Dr M Davies. Centre for Chinese Studies at Stellenbosch University, Stellenbosch. Lecture. October 2006.
Professor D Kirby. Professor of Entrepreneurship, School of Management, University of Surrey, Surrey, United Kingdom. Lecture. June 2006.

**JOURNAL SUBSIDY UNITS**

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</table>
JOURNALISM AND MEDIA STUDIES

Of the 19 full-time teaching staff employed in the Department of Journalism and Media Studies, 5 were dedicated primarily to the teaching of media theory (which forms the academic component of the degree) and 14 to the teaching of primarily production-based courses (television, radio, print, new media, photojournalism, and design). The research output figures for 2006 indicate that staff teaching media theory were responsible for conference attendance, book chapters and journal publications, while the production teachers were responsible for creative works. This is perhaps best explained by the fact that the majority of our media production teachers are employed by the university for their industry skills rather than their academic qualifications, and as a result, spend their first few years in the department completing higher degrees (usually their MAs) and doing the Assessors Course run by ADC. This, together with the intensive nature of media production teaching, means that these staff have little time (or the academic background), to publish in academic journals or attend conferences. (Attention still needs to be given as to how one assesses and credits the creative outputs of these staff.) Ms Anthea Garman, was the only production teacher to publish in an accredited journal and this flowed out of the work she is currently doing on her PhD. Significantly, for the first time in a number of years, Professor Strelitz had no publications – largely a result of taking on the two posts of HoD as well as Deputy-Dean. What is evident from the list of returns is that staff did publish fairly extensively in newspapers and journals which do not qualify for subsidy.

At the start of 2007 we have 39 MA and 2 PhD students registered in our department. We expect approximately 7 to graduate in April 2007.

Other highlights include:
- The department successfully convened the 10th Highway Africa conference which represents the continent’s largest annual gathering of African media professionals.
- The department organised a colloquium of academics to discuss teaching and curriculum design in the fields of journalism and media studies.
- Cue, the official newspaper of the National Arts Festival, produced 10 editions while 3 editions of the newspaper Open_Source, were produced during the Highway Africa conference.
- CueTV produced 25 inserts for web distribution.
- Cuepix marketed Festival photographs online to local and national media including, Daily Dispatch and Mail & Guardian. A number of photographs were sold internationally.
- In 2006 was the first year of a two-year investigative journalism course sponsored USAID. Seventy-five students will have completed the course by the end of 2007.

PROFESSOR L. STRELITZ
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Berger, GJE


Berger, GJE and Taylor, A

Garman, A

Kyazze, S

Steenveld, L

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Banda, F

Berger, GJE

Brand, R
Brand, R. "Between privilege and subpoena: Protecting confidential sources". Ecquid Novi. 2006. 27(2),111-134.

Garman, A
Garman, A. "Teaching journalism to produce interpretive communities and no just professionals". Ecquid Novi. 2005. 26(2),199-211.

Kanyegirire, A
Kanyegirire, A. "Hybrid journalistic identities? Journalism(s) and NEPAD". Ecquid Novi. 2006. 27(2),157-176.

Ndangam, L
Ndangam, L. "'Gombo': Bribery and the corruption of journalism ethics in Cameroon". Ecquid Novi. 2006. 27(2),177-198.

Strelitz, L and Steenveld, L

OTHER PUBLICATIONS

Banda, F

*NOT AN ACCREDITED JOURNAL


Berger, GJE


Garman, A

Garman, A. "The copier the thief the plagiarist and the dishonest academic". Cue. Grahamstown. 2006.


Prinsloo, J


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

i. Local Conferences (Within South Africa)

Banda, F


Berger, GJE


Garman, A


Prinsloo, J

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

ii. International Conferences (Outside South Africa)

Banda, F

Berger, GJE


Rau,A  

JOURNAL SUBSIDY UNITS

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<td>Berger,GJE. &quot;Fit for purpose' - towards tracking the quality of University education of entry-level journalists&quot;. Ecquid Novi. 2005. 26(2),175-198.</td>
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LAW

In 2006 there were a record number of 20 papers delivered at various Law Conferences by members of staff, as well as 1 book, 8 chapters and 12 articles published, and a number of chapters and articles submitted and accepted for publication in the New Year.

Special mention must be made of Graham Glover who edited the book entitled Essays in Honour of AJ Kerr, had two chapters published and seven articles published in accredited journals. Wandisile Mandlana, one of our research lecturers, delivered a total of 5 papers, one of which was delivered at the African University, held in Uganda.

Rob Midgley was on sabbatical leave during the second half of the year. He delivered a paper in Peyresq, France and later spent 2 months in Utrecht, where he delivered a paper at a Human Rights Study and Information Centre at the Utrecht University.

In July a total number of nine staff attended the Southern Africa Law Teachers Association Conference held at the University of Cape Town. The following delivered papers: Wandisile Mandlana; Wouter De Vos; Sarah Driver; Graham Glover; Helen Keep; Rosaan Krüger; Michael Lehloenywa; Les Roberts and Helena van Coller.

In October three staff and a visiting Professor attended the Law and Transformative Justice in Post-Apartheid South Africa Conference hosted by the Nelson R Mandela School of Law at the University of Fort Hare. The following delivered papers: Michael Lehloenywa; Richman Mqeke; Wandisile Mandlana and the visiting Professor, Judge Clive Plasket.

September 2006 saw the release of the festschrift Essays in Honour of AJ Kerr. This book, which was edited by Dr Graham Glover, Senior Lecturer in the Faculty of Law at Rhodes, and published by LexisNexis Butterworths Publishers, was produced in honour of Professor Alastair Kerr SC’s immense and continuing contribution to the study of law in South Africa. Professor Kerr, a Professor Emeritus, Honorary Fellow and honorary graduate of Rhodes, lectured in the Law Faculty from 1955 to 1990, and in 2005 celebrated 50 years of association with the Faculty in the year that the Faculty itself celebrated its centenary. The book is a compilation of essays on legal topics written by some of the leading legal academics in South Africa, particularly those with a personal connection to Professor Kerr, or who work in Professor Kerr’s fields of research expertise – the law of contract and customary law. Over and above the sixteen academic essays, there is also a collection of tributes to Professor Kerr’s career written by various judges of the High Court and Supreme Court of Appeal, as well as senior officers of the University. The Law Faculty intends launching the book officially early in 2007, at a time close to Professor Kerr’s 85th birthday.

Rob Midgley continues to serve on the National Research Foundation’s Panel of Assessors.

Wandisile Mandlana, elected as the Eastern Cape Representative on the Executive Committee of the Environmental Law Association of South Africa (2005-06), is also a member of the Southern African Law Teachers Association. He was appointed to be the External Examiner of Master of Laws Thesis for North West University at Potchefstroom Campus and had his teaching portfolio assessed and was awarded a Diploma in Higher Education and Training.

PROFESSOR R.B. MQEKE
ACTING DEAN OF LAW

BOOKS/CHAPTERS/MONOGRAPHS

Glover,GB


Kerr, AJ


Midgley, JR


Mqeke, RB


Plasket, CM


Roberts, L


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Glover, GB


Glover, GB. "Methinks he doth protest too much'? Recovering unjustified payments made under duress and protest". Tydskrif Vir Die Suid-Afrikaanse Reg. 2006. 1,135-151.


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*. 2006. 10(2),70-81.

Plasket, CM  


van Coller, EH  


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

i. Local Conferences (Within South Africa)

De Vos, W  

Glover, GB  
*Glover, GB*. "In the shadows or in the spotlight? Tacit terms and the hypothetical bystander". *Congress of the Society of Law Teachers of Southern Africa*. University of Cape Town, Cape Town. July 2006.

Keep, H  

Kruger, R  
*Kruger, R*. "Come back when you are 65 Sir - on the access to social security grants of elderly men". *Third Annual Law Conference of the Universities of the Western & Eastern Cape*. NMMU, Port Elizabeth. January 2006.

Lehloenya, PM


Mqeke, RB
Mqeke, RB. "The Constitutional Courts Pronouncements on land invasions with emphasis on the President of the RSA v Modderklip Boedery (Pty) Ltd 2005 (S) SA 3 (CC)". *Law & Transformative Justice in Post-Apartheid South Africa*. Nelson R Mandela School of Law, University of Fort Hare, East London. October 2006.

Plasket, CM

Roberts, L

Van Coller, EH


wakwa-Mandlana, WM


wakwa-Mandlana, WM. "Jury out to scrap specialist courts: Case made for retaining and expanding the scope for the Environmental Court". *Annual Conference of the International Association for Impact Assessment (IAIA)*. SA Affiliate - KwaMaritane, Pilanesberg. August 2006.

ii. International Conferences (Outside South Africa)

Midgley, JR


wakwa-Mandlana, WM

JOURNAL SUBSIDY UNITS

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### POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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LIBRARY

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Thomas, G


JOURNAL SUBSIDY UNITS

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MANAGEMENT

The Department of Management during 2006 continued to focus on integrating the development of research skills into its teaching through the integration of specific research outcomes into each year from first-year to fourth-year. The Department also introduced a structured research component into the Master’s programme.

Seven Master’s students were registered in the Department during 2006. Four of the Master’s students attended a national management science conference in Stellenbosch and one of the students presented a paper based on her research into leadership values. At the 2007 Graduation, a Master’s student and a PhD student are likely to graduate. In 2007, 11 Master’s students are registered and 4 PhD Students are registered.

The Department welcomed Professor Lynette Louw into the Raymond Ackerman Chair of Business Administration. Professor Louw is an NRF rated academic and has much research experience and output.

On research output, the Department published 3 journal articles and presented eight papers at conferences, six of which were international conferences in Ghana, Russia, the United Kingdom and the Unites States of America.

Other than research publications, a book, “Strategic Management: winning in the Southern African workplace” was published. The main editor of the book was a staff member in the Department and in addition, two of the chapters were authored by staff within the Department.

International links and exchange agreements were established with International Universities such as University of Applied Sciences in Osnabrueck, Germany; Osnabrueck University in Germany; Neurtingen-Geisling University in Germany; Katholische Universitaet Eichstaett-Ingolstadt in Germany; and l’Ecole de Management de Strasbourg, Universite Robert Shuman, Strasbourg in France.

In addition, International research collaboration was established with Neurtingen-Geislingen University in Germany (Project: Intercultural communication and Management styles, practices and systems across Africa) and England-African Partnerships in higher education including Middlesex University, Nelson Mandela Metropolitan University, Stellenbosch University and the University of Botswana (Project: Cross-cultural management and health sector project delivery in Sub-Saharan Africa).

MR T. AMOS
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER


Elliott, RM


*Louw, L.


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

i. Local Conferences (Within South Africa)

Amos, T


Elliott, RM


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

ii. International Conferences (Outside South Africa)

Amos, T


Amos, T and Jere, A


*NOT AN ACCREDITED JOURNAL
Elliott, RM


Louw, L


JOURNAL SUBSIDY UNITS

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PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Murali,V


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

i. Local Conferences (Within South Africa)

Mabizela,S


Matutu,P


Murali,V


Ngcibi,S


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Mabizela,S


Murali,V


*NOT AN ACCREDITED JOURNAL
Ngcibi, S

Talwanga, T

Xotyeni, Z

OVERSEAS RESEARCH OR FURTHER STUDY

Remsing, C C
Remsing, C C. West University of Timisoara, Timisoara, Romania. Collaboration. 3 - 14 September 2006.


JOURNAL SUBSIDY UNITS

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MUSIC AND MUSICOLOGY

The Music Department enjoyed another high-profile year on the performance front, while new staff also made strides towards increasing the department’s academic research and output record.

Professor Scarr spent a 6-month sabbatical in Europe, performing as guest orchestral conductor in some 38 engagements in Vienna, Austria. In addition he was invited to direct the Schoenbrunn Palace Orchestra in Bucharest on the occasion of the establishment of cultural links between Austria and Rumania, in the presence of the Rumanian President.

Ms Foxcroft, Piano Lecturer, was active as recitalist and concerto soloist most notably with the Johannesburg Festival Orchestra at the National Festival of the Arts in Grahamstown, and at the International Piano Symposium in Stellenbosch.

Mr Munoz, Violin Lecturer, was active throughout South Africa as an orchestral concertmaster and chamber musician, performed in his home country of Chile in the July vacation, and presented a number of outreach concerts and masterclasses in the Philippines over the December vacation.

Our two newly appointed staff immediately gave notice of their research inclinations: Dr Brukman, Lecturer in Music Theory, presented a research paper at the annual conference of the Musicological Society of South Africa in Potchefstroom, while Mr John Edwards, Junior Lecturer in Jazz, presented a paper at the Rhodes University Assessment Event Conference in Grahamstown. In addition, Mr Edwards was very active in the practical sphere, giving concerts, masterclasses, and workshops in an around Grahamstown and the Eastern Cape.

Finally, the department enjoyed the rather unusual experience of having our Librarian, Ms Fiona Still-Drewett, present a paper at the 3rd National Oral History Conference in Richard’s Bay, KwaZulu-Natal. Ms Still-Drewett’s paper entitled “Grahamstown Film and Heritage as reflected by His Majesty’s Building” hopefully also helped towards the general profile of Grahamstown as the home of Rhodes University and our department!

The staff have thus been busy on a number of fronts, all of which have doubtless contributed towards a steadily growing national profile for the Department.

PROFESSOR D.J. SCARR
HEAD OF DEPARTMENT

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

i. Local Conferences (Within South Africa)

Brukman, JJ


Edwards, JC


Still-Drewett, F

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

**Brukman, JJ**


**Edwards, JC**


**Foxcroft, CJ**


**Munoz, JL**


Munoz, JL. Concert Tour & Masterclasses. "Violinist". Luce Auditorium. Sliman University, Philippines. 5 December 2006.


Munoz, JL. Recital. "Violinist". Violin & Piano Recital. NMMU. Port Elizabeth. 6 March 2006.


Scarr, DJ


JOURNAL SUBSIDY UNITS

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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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PHARMACY

During 2006 three PhD and three MSc degrees (two with distinction) were awarded to postgraduate students in Pharmaceutics. The Department of Pharmaceutics continues to contribute extensively to the research efforts of the Faculty of Pharmacy having produced eleven international publications in 2006. Amongst these were important contributions to the field of Complementary and Alternative Medicines (CAMS) made by Professor Kanfer’s research group where innovative analytical methods were published in several peer-reviewed journals that describe systems for the assay and quality control of CAMS such as *Ginkgo biloba* and African Potato and their related products.

Professor Kanfer was elected to the Editorial Board of the Journal of Pharmaceutical and Biomedical Analysis and Professor Walker was elected to the Board of Scientific Advisors of the International Controlled Release Society. Staff of the Department attended several International meetings at which they presented plenary lectures. Postgraduate enrolment in Pharmaceutics totalled 9 MSc and PhD students (almost 30% of the Faculty of Pharmacy enrolment).

In the Division of Pharmacology, Miss Adrienne Muller carried out a study on the neuroprotective effects of the antiviral agent, Acyclovir, a drug used in the therapy of HIV-AIDS. This study led to the uncovering of new knowledge on the mode of action of this drug in the brain. This resulted in 2 papers in international journals. Her presentation of this work at the National Pharmacology Congress resulted in her scooping the national award for the best young scientist presentation, which will enable her to attend an international congress in neuroscience. In addition to this the other postgraduates also presented their research at this conference. Miss Layla Cassim and Miss A Muller spent two weeks at the University of Maastricht under the supervision of Professor Harry Steinbusch who taught them the technique of Immunohistochemistry which they will use in their research at Rhodes. Mark Scheepers and Georgina Zheve (MSc students) were selected to attend the International Brain Research Organisation (IBRO) neuroscience school held in Cape Town and came back having learnt many techniques etc in neuroscience from the International Instructors. The final year project students carried out projects on conversion of cellulosic waste into usable sugars, addition a new dimension to our research programme. The division produced eight international publications for 2006.

Professor John Haigh attended the 10th biennial Perspectives in Percutaneous Penetration Conference which was held in La Grande Motte, France in 2006. John was invited to give the plenary lecture at this conference and it was very well received. For the first time in the 20 year existence of this conference it was decided to dedicate a session to the scientific input of a researcher in this particular field and John was the chosen academic. In the session, named the John Haigh Testimonial Session, the speakers were John’s MSc and PhD students as well as colleagues from Europe and America with whom he has collaborated.

Drs Beukes and Antunes presented their work on the anticancer and neurotoxic properties of metabolites obtained from marine micro- and macroalgae at the 9th Frank Warren Conference on Organic Chemistry, University of Cape Town, South Africa, 22nd-25th January 2006.

Dr Beukes and MSc students, Anthonia Afolayan and Maryssa Mann attended the 4th ICPPS conference and presented their latest discoveries on the antimalarial potential and analysis of marine algal natural products.

Professor Ros Dowse received the Adcock Ingram award for Best Publication: Pharmacy Practice from the Academy of Pharmaceutical Sciences at the 4th International Conference on Pharmaceutical and Pharmacological Sciences and was invited to write a paper for an international journal Called Adult Learning on her research into visuals as a way to communicate Medicine information to low-literate patients.
There is a steady growth in the numbers of post-graduates in Pharmacy Practice, with two MSc degrees awarded in 2006 and a further four candidates currently registered for MSc & PhD degrees in this area.

PROFESSOR I. KANFER
DEAN OF FACULTY

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Antunes, EM and Daya, S

Daya, S

Dowse, R


Kanfer, I


Nair, VDP and Kanfer, I. "High-Performance liquid chromatographic method for the quantitative determination of hypoxoside in African Potato (Hypoxis hemerocallidea)". *Journal of Agricultural and Food Chemistry*. 2006. 54(8),2816-2821.

Maharaj, D, Maharaj, H and Daya, S


*NOT AN ACCREDITED JOURNAL
Maharaj,H, Maharaj,DS and Daya,S
Maharaj,H, Maharaj,DS and Daya,S. "Acetylsalicylic acid and acetaminophen protect against MPP+-induced mitochondrial damage and superoxide anion generation". *Life Sciences*. 2006. 78(21),2438-2443.

Maharaj,H, Maharaj,DS and Daya,S. "Acetylsalicylic acid and acetaminophen protect against oxidative neurotoxicity". *Metabolic Brain Disease*. 2006. 21,189-199.

Nair,VDP and Kanfer,I

Verbeeck,RK, Kanfer,I and Walker,RB

Walker,RB


Walker,RB, Skinner,MF and Kanfer,I

OTHER PUBLICATIONS

Futter,WT


*NOT AN ACCREDITED JOURNAL
Srinivas, SC  

Walker, RB  

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

i. Local Conferences (Within South Africa)

Antunes, EM and Beukes, DR  


Beukes, DR  


Beukes, E  

Daya, S  
Cassim, L and Daya, S. "Melatonin counteracts the 5-fluorouracil-induced decreases in brain neurotransmitter levels but does not alter the hepatic metabolism of 5-fluorouracil by cytochrome P450". 4th International Conference on Pharmaceutical and Pharmacological Sciences. Riverside Hotel, Vanderbijlpark. September 2006. 43.


Muller, AC, Dairam, A and Daya, S. "Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid". 4th International Conference on Pharmaceutical and Pharmacological Sciences. Riverside Hotel, Vanderbijlpark. September 2006. 56.

Kanfer, I


Maharaj, H, Maharaj, DS and Daya, S

Skinner, M and Kanfer, I

Srinivas, SC


Wendy, W and Srinivas, SC. "Interviewing nursing sisters to assist in the design of patient information leaflet for the correct use of inhalers". 20th Annual Conference/SAAHIP. Wilderness, Wilderness. March 2006. 41.

Walker, RB


Wrench, WM

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

ii. International Conferences (Outside South Africa)

Dowse, R

Haigh, JM


Kanfer, I


Walker, RB


**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

Futter, WT

Kanfer, I

Oltmann, C


Walker, R.B


Wrench, WM and Srinivas, SC


Wrench, WM and Srinivas, SC. Designer. "Do you believe that your pharmacist is a medicine expert and not a pill counter?". Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.


OVERSEAS RESEARCH OR FURTHER STUDY

Walker, RB

DISTINGUISHED VISITORS


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<td><strong>Dairam,A, Antunes,EM, Saravanan,KS and Daya,S.</strong> &quot;Non-steroidal anti-inflammatory agents, tolmetin and sulindac, inhibit liver tryptophan 2,3-dioxygenase activity and alter brain neurotransmitter levels&quot;. <strong>Life Sciences</strong>. 2006. 79(24),2269-2274.</td>
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<td><strong>Dairam,A, Chetty,P and Daya,S.</strong> &quot;Non-steroidal anti-inflammatory agents, tolmetin and sulindac, attenuate oxidative stress in rat brain homogenate and reduce quinolinic acid-induced neurodegeneration in rat hippocampal neurons&quot;. <strong>Metabolic Brain Disease</strong>. 2006. 21,211-223.</td>
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<td><strong>Mwingira,B and Dowse,R.</strong> &quot;Comprehension and acceptability of a patient information leaflet for antiretroviral therapy&quot;. <strong>Health SA Gesondheid</strong>. 2006. 11(3),49-56.</td>
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<td><strong>Dubber,M-J and Kanfer,I.</strong> &quot;Application of reverse-flow micellar electrokinetic chromatography for the simultaneous determination of flavonols and terpene trilactones in Ginkgo biloba dosage forms&quot;. <strong>Journal of Chromatography A</strong>. 2006. 1122,266-274.</td>
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<td><strong>Dubber,M-J and Kanfer,I.</strong> &quot;Determination of terpene trilactones in Ginkgo Biloba solid oral dosage forms using HPLC with evaporative light scattering detection&quot;. <strong>Journal of Pharmaceutical and Biomedical Analysis</strong>. 2006. 41,135-140.</td>
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<td><strong>Nair,VDP and Kanfer,I.</strong> &quot;High-Performance liquid chromatographic method for the quantitative determination of hypoxoside in African Potato (Hypoxis hemerocallidea)&quot;. <strong>Journal of Agricultural and Food Chemistry</strong>. 2006. 54(8),2816-2821.</td>
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<td><strong>Maharaj,DS, Maharaj,H, Daya,S and Glass,B.</strong> &quot;Melatonin and 6-hydroxymelatonin protect against iron-reduced neurotoxicity&quot;. <strong>Journal of Neurochemistry</strong>. 2006. 96,78-81.</td>
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<td><strong>Verbeeck,RK, Kanfer,I and Walker,RB.</strong> &quot;Generic Substitution: The use of medicinal products containing different salts and implications for safety and efficacy&quot;. <strong>European Journal of Pharmaceutical Sciences</strong>. 2006. 28(1 &amp; 2),1-6.</td>
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<td><strong>Khamanga,SMM and Walker,RB.</strong> &quot;Evaluation of rate of swelling and erosion of verapamil (VRP) sustained-release matrix tablets&quot;. <strong>Drug Development and Industrial Pharmacy</strong>. 2006. 32(10),1139-1148.</td>
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<td><strong>Mohammadi,A, Hariran,I, Rezanour,N, Ghiasi,L and Walker,RB.</strong> &quot;A stability-indicating high performance liquid chromatographic assay for the determination of orlistat in capsules&quot;. <strong>Journal</strong></td>
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TOTAL FOR PHARMACY 13.54
PHILOSOPHY

The Department of Philosophy organised and hosted the Annual Conference of the Philosophical Society of Southern Africa in January in Grahamstown. Dr Rebecca Bamford, a Post-Doctoral Fellow in the Department, organised a conference back to back with the PSSA on “Nietzsche, Culture and Society”. Both conferences were well attended, with international participation, and offered papers of high quality. *Judging and Understanding* (Ashgate, 2006), an important collection of papers on the tension between understanding an agent and judging the agent morally, edited by Dr Pedro Tabensky, was published. Professor Ward Jones gave the invited keynote paper, ’Doxastic Goods’, at the conference on “Epistemic Value” in August (Stirling, Scotland). Postgraduate research in the Department flourished in 2006: no less than eight MA students graduated; 7 by course work, and one by thesis; five distinctions were achieved. The Department had a gratifying flow of international visitors (one Fulbright Fellow).

PROFESSOR M. VERMAAK
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

*Jones, W*

*Kumar, C*

*Tabensky, P.A*


*Vice, S*

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

*Jones, W*


OTHER PUBLICATIONS

*Bamford, R*
Jones, W

Kumar, C
Kumar, C. "Zinedine Zidane as Tragic Figure". Grocott's Mail 25 July 2006. 2006.


Tabensky, P A

Vice, S

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

i. Local Conferences (Within South Africa)

Bamford, R


Jones, W


Kumar, C


Martin,T

Tabensky,PA

Vice,S


Williamson,F

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

ii. International Conferences (Outside South Africa)

Bamford,R

Jones,W

Kumar,C

Martin,T

**CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.**

Jones,W

Vice,S


**DISTINGUISHED VISITORS**

Professor J Couture. McGill University, Montreal, Canada. Visiting Scholar. September-October 2006.

Professor D Moellendorf. San Diego State University, San Diego, USA. Guest Lecturer. August-September 2006.

Professor K Nielsen. Concordia University, Quebec, Canada. Visiting Scholar. September-October 2006.

Dr F Spicer. Bristol University, Bristol, UK. Guest Lecturer. February-April 2006.

Professor A Stairs. University of Maryland, USA. Guest Lecturer. October 2006.

**JOURNAL SUBSIDY UNITS**

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<td>&quot;Philosophers, Their Context, and Their Responsibilities&quot;. <em>Metaphilosophy</em>. 2006. 37(5),623-645.</td>
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PHYSICS AND ELECTRONICS

The Square Kilometre Array (SKA) and Karoo Array Telescope (KAT) projects continue to be a major theme in the Department of Physics & Electronics, with Professor Justin Jonas being the Project Scientist for SKA South Africa and the SA representative on the International SKA Steering Committee (ISSC). Together with SKA SA Project Director, Dr Bernie Fanaroff, he presented the South African proposal to host the SKA to the International SKA Site Advisory Committee in Cambridge at the beginning of July. At the end of August the ISSC declared South Africa and Australia to be excellent prospective sites for the SKA, and excluded Argentina and China from the site competition. This short-listing of South Africa to host one of the largest scientific infrastructures ever conceived marks the culmination of years of work by the SKA SA team, which includes a disproportionate number of Rhodes students and graduates.

In his mini-budget speech the Minister of Finance, Trevor Manuel, announced further funding for the Karoo Array Telescope (KAT), which will be a technology and science pathfinder for the SKA. The total committed funding for the KAT, which will be the largest radio telescope in the world until the SKA is built, amounts to one billion rands. This represents the single biggest investment in science ever made in South Africa. Professor Jonas and his students and past graduates are playing key roles in designing the science case and technologies for this massive telescope.

The Thermoluminescence Research Group’s work was rewarded with two honours: Dr Makaiko Chithambo was awarded the Vice Chancellor’s Distinguished Research Award, and Mr Richard Grant was awarded the prize for the best paper presented to the Applied and Industrial Physics Group at the annual South African Institute of Physics Conference. Postdoctoral Fellow Dr Ogundare returned to University of Ibadan, Nigeria at the end of his two-year stint at Rhodes.

Two new staff members have brought a more theoretical Particle and Nuclear Physics research theme to the Department. Dr Jennifer Williams was awarded her PhD by Cambridge University, having conducted complex and compute-intensive computer simulations that provided insight into the structure of elementary particles. Dr Steven Karataglidis’ research has been on the study of the structures of unstable nuclei, as are important in the reactions producing the elements in stars. Since his arrival from Melbourne University, Australia he has been working closely with other South African nuclear physicists, including those at iThemba LABS accelerator centre.

The Rhodes ionospheric research group, in partnership with the Hermanus Magnetic Observatory (HMO), has successfully established a project supporting the International Polar Year (IPY) initiative. In anticipation of the start of IPY in March 2007, geophysical instrumentation has been installed at the SANAE Base in Antarctica. Successful negotiations with the Department of Communications were conducted in 2006 that will result in the fourth South African ionosonde being installed in Hermanus in 2007. Professor Graham Poole, together with Professor J Jones of University of Western Ontario, Canada, completed a study of the way in which planets and other large bodies in the solar system affect the distribution of meteor fluxes in interplanetary space.

PROFESSOR J. JONAS
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Chithambo, ML
Chithambo, ML. "On the correlation between annealing and variabilities in pulsed luminescence from quartz”. Radiation Measurements. 2006. 41,862-865.

Karataglidis, S


McKinnell, L.A


Ogundare, F.O


Ogundare, F.O and Chithambho, M.L.


Oyeyemi, E.O, McKinnell, L.A and Poole, A.W.V

Poole, L.M.G

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

i. Local Conferences (Within South Africa)

Grant, R.P

*NOT AN ACCREDITED JOURNAL
McKinnell,LA


McKinnell,LA and Haggard,R

Ogundare,FO and Chithambo,ML

Oyeyemi,EO, McKinnell,LA and Poole,AWV

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

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

Chithambo,ML

Karatiglidis,S
Karatiglidis,S. "Scattering as a tool to study nuclear structure toward the drip lines". *International Conference on Nuclear Reaction Mechanisms*. Varenna. Italy. 2006.

McKinnell,LA

Blanch,E, Buresova,D, Altadill,D, Arrazola,D, De La Morena,BA and McKinnell,LA. "Advances in testing local model (LM) used to improve the IRI2001-predicted B0, B1 and D1 parameters". *The International Reference Ionosphere Workshop*. Buenos Aires. Argentina. 2006.


McKinnell, LA and Oyeyemi, EO

Ogundare, FO and Chithambo, ML

Oyeyemi, EO and McKinnell, LA

Williams, J

JOURNAL SUBSIDY UNITS

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<td><strong>Chithambo, ML</strong>. &quot;Orthopaedic grade ultra-high molecular weight polyethylene: Some features of the main thermoluminescence glow curve&quot;. Radiation Protection Dosimetry. 2006. 119,157-160.</td>
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<td>Kim, YJ, Amos, K and Karataglidis, S. &quot;Properties of effective interactions and the excitation of 6- states in 28Si&quot;. Nuclear Physics A. 2006. A779,82-98.</td>
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<td>Friedrich, M, Egger, G, McKinnell, LA and Belova, E. &quot;Perturbations in EISCAT electron densities visualised by normalisation&quot;. Advances in Space Research. 2006. 38,2413-2417.</td>
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<td>McKinnell, LA and Friedrich, M. &quot;Results from a new auroral lower ionosphere model&quot;. Advances in Space Research. 2006. 37(5),1045-1050.</td>
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<td>Ogundare, FO, Balogun, FA and Hussain, LA. &quot;Evaluation of kinetic parameters of traps in thermoluminescence phosphors&quot;. Radiation Measurements. 2006. 41(7-8),892-896.</td>
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<td>Ogundare, FO, Mokobia, CE and Balogun, FA. &quot;Kinetic study of the thermoluminescence glow curve of natural dolerite&quot;. Radiation Effects and Defects in Solids. 2006. 161(7),395-400.</td>
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<td>Ogundare, FO, Chithambo, ML and Oniya, E0. &quot;Anomalous behaviour of thermoluminescence from quartz: A case of glow peaks from a Nigerian quartz&quot;. Radiation Measurements. 2006. 41,549-553.</td>
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**Poole, LMG**


TOTAL FOR PHYSICS 7.31

### POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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POLITICAL AND INTERNATIONAL STUDIES

The Department of Political and International Studies in 2006 produced the following in terms of its research publications and hosting on teaching visitors:

I) Five chapters in book publications
II) Ten and a half journal articles
III) Eleven book reviews
IV) Twelve conference papers
V) 15 distinguished visitors, 14 of whom gave seminar or took part in teaching.

PROFESSOR P.H. BISCHOFF
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Bischoff, PH

Kumar, C

Ruiters, G


Vale, PCJ


Vincent, LD

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Friedman, S
Hoeane, T


Praeg, L


Vale, PCJ


Vincent, LD


** OTHER PUBLICATIONS**

Bischoff, PH


Kumar, C

Kumar, C. "Zinedine Zidane as Tragic Figure". Grocott's Mail 25 July 2006. 2006.


*NOT AN ACCREDITED JOURNAL*


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


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

ii. International Conferences (Outside South Africa)

Bischoff, PH

Fluxman, AP

Kumar, C

Praeg, L

Vale, PCJ

Vincent, LD

DISTINGUISHED VISITORS

Dr M Alam. National University of Lesotho, Maseru, Lesotho. Seminar on the UN and the Crisis in the Congo. April 2006.

Dr N Bassil. Macquarie University, Australia. To lecture the Thinking Africa course for 3rd Year class on the Conflicts in Darfur, Sudan. May-June 2006.


Professor D Moellendorf. San Diego State University, San Diego, CA, USA. To give a seminar on Reconciliation as Political Value. September 2006.

Professor K Nielsen. Quebec University, Montreal, Canada. To teach the Postgraduate programme on The Politics of Globalisation. September-November 2006.


**JOURNAL SUBSIDY UNITS**

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PSYCHOLOGY

In 2006 fourteen papers were delivered by staff at conferences, seven of these at international conferences. Five publications in conference proceedings resulted. Two staff members were invited speakers in 2006. Professor Ann Edwards was invited to present at the Psychological Society of South Africa annual conference (on developing specialist training for neuropsychologists), at the South African Clinical Neuropsychology conference (on pitfalls in the practitioner use of the WAIS-II in the South African context), and at the Society of Neurosurgeons of South Africa congress (on the role of computer-based neurocognitive screening in the overall medical management of sports concussion). Professor Catriona Macleod was invited to present a seminar at the Open University in the United Kingdom (on Postcolonialism and Psychology). Departmental publications include seven articles, two in national and five in international journals, and four chapters in books.

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

Professor Ann Edwards had an excellent year research-wise. She was hosted in the early part of the year by the Charlton Athletics Club in New Eltham, London. Setting in motion a prospective study on neurocognitive deficits associated with heading the ball in soccer was the main activity of this visit. Later, she was nominated for and awarded the Amnesty International Rhodes University Woman of the Year 2006 award for her outstanding achievement as a senior researcher. She was also promoted to full professor.

Our postgraduate graduation and registration rate is looking very healthy. We expect sixteen Master’s and one PhD student to graduate this year. In 2007, in addition to the twenty Master’s students who will be registered for the Clinical/Counselling Psychology programme, there are nine Master’s by thesis and ten PhD students. We have introduced an exciting series of workshops on research skills which are compulsory for all Master’s by thesis students and optional for PhD students.

PROFESSOR C. MACLEOD
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Moerdyk,AP


Painter,D


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Edwards,DJA


Knight,ZG


Knight,ZG. "Some thoughts on the psychological roots of the behaviour of serial killers as narcissists: An object relations perspective". Social Behaviour and Personality. 2006. 34(10),1189-1206.

Macleod,C


Painter,D


Robus,D


Smith,I


Stones,CR

Stones,CR. "Antigay prejudice among heterosexual males: Right-wing authoritarianism as a stronger predictor than social dominance orientation and heterosexual identity". Social Behaviour and Personality. 2006. 34(9),1137-1150.

Swingler,D


*NOT AN ACCREDITED JOURNAL
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Appalsamy, P

Edwards, DJA

Moerdyk, AP

Shuttleworth-Edwards, AB


van Ommen, CH

ii. International Conferences (Outside South Africa)

Appalsamy, P

Bohmke, WR

Edwards, DJA
Knight,ZG

Macleod,C


Stones,CR

van Ommen,CH

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Shuttleworth-Edwards,AB


OVERSEAS RESEARCH OR FURTHER STUDY

Shuttleworth-Edwards,AB

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Robus, D and Macleod, C. "White excellence and black failure: The reproduction of racialised higher education in everyday talk". South African Journal of Psychology. 2006. 36(3), 463-480. 0.50


Stones, CR. "Antigay prejudice among heterosexual males: Right-wing authoritarianism as a stronger predictor than social dominance orientation and heterosexual identity". Social Behaviour and Personality. 2006. 34(9), 1137-1150. 1.00


TOTAL FOR PSYCHOLOGY 5.07

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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

TOTAL FOR PSYCHOLOGY 5.07
Although RUMEP has achieved limited success in research output during 2006, research is still regarded as an integral activity of the project. The highlight of 2006 for RUMEP was the HEQC award of Full Accreditation for its ACE (Mathematics Education) course. The extensive participation of senior staff members in the preparation for the HEQC review prevented us from presenting papers at conferences.

The Director, Dr Rose Spanneberg, submitted a chapter for an international book on Effective Tasks in Primary Mathematics Teacher Education. Two members of staff are currently registered at Rhodes University for the M.Ed in Mathematics Teaching.

Mr Tom Penlington, Mesdames Tokwe and Mkhwane presented workshops at an AMESA Conference in Port Elizabeth on Multicultural Mathematics.

DR. R. SPANNEBERG
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

RUMEP


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Mkhwane, F

Penlington, T

Tokwe, T

JOURNAL SUBSIDY UNITS

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SCHOOL OF LANGUAGES

The following activities took place in the School of Languages during 2006:

Conference attendance

Dr. Godfrey Meintjes attended an international conference in Pietermaritzburg in March entitled “The Changing Face of African Literature”, and Professor François Jaques participated in a conference in Paris in May, organised by the Association of Friends of François Mauriac, the 20th century novelist.

French Studies hosted the bi-annual conference of the Association for French Studies in Southern Africa from the 11-14th of September 2006. Delegates from South Africa, African countries and Europe attended what was a stimulating and successful conference. Prominent keynote speakers, Professor P. Baudorre of Bordeaux and Dr. Diana Simon from Grenoble were invited to deliver papers.

Postgraduate Students

Six new postgraduate students registered during the year in African Studies (3 PhD’s and 3 Master’s).

There was an increase in the numbers of publications in the school.

PROFESSOR F. JAQUES
HEAD OF SCHOOL

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jaques,F

Kaschula,RH


Weber,U


OTHER PUBLICATIONS

Jaques,F


*NOT AN ACCREDITED JOURNAL
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

i. Local Conferences (Within South Africa)

Cordell, C

Kaschula, R.H


Meintjes, G

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

ii. International Conferences (Outside South Africa)

Jaques, F

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<td>Kaschula, R.H. &quot;Indigenous languages, globalisation and the media in South Africa&quot;. Acta Academica. 2006. 2, 135-153.</td>
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POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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<th>SCHOOL OF LANGUAGES</th>
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SOCIOLOGY AND INDUSTRIAL SOCIOLOGY

The year 2006 was an eventful one for the Department of Sociology. As with most years there were highlights and a few “low” lights. One of the major highlights was the fact that the International Sociology Association (ISA) held its congress in South Africa. The majority of staff members and a large contingent of postgraduate students attended and chaired sessions, presented papers and participated in events in and around the congress. The Department took full advantage of the presence in the country of some of the leading sociologists in world. In conjunction with the Faculty of Humanities and the International Office at Rhodes, the Department hosted a “Celebrating Sociology Seminar Series”, featuring such luminaries as Professors Immanuel Wallerstein, Dennis Smith and Bjorn Beckman. The public lectures and the seminars were well attended and sparked much lively debate.

In addition the Department hosted a number of eminent South African academics who presented papers as part of the Department’s regular seminar program. These included Luli Callinicos, Nomoniso Gasa, Raymond Suttner and Temba Masilela.

On the student front a number of records were broken with 410 first year students registering by the end of the second week of term and 21 honours students participating in the Department’s Development Studies course. The first year numbers represent a massive growth from a mere 190 students in 2001! The Department’s focus has now shifted firmly to increasing its post-graduate numbers, with a number of lecturers using their research funding to involve students in research projects. The department also held a joint pre-project workshop with the University of Fort Hare to prepare a South Africa Netherlands Research Program on Alternatives in Development (SANPAD) funding application for a research project on the social impact of HIVAids involving five master’s students and five staff members from the two institutions.

A number of staff members presented papers at international conferences. The Head of Department, Dr Monty Roodt presented a paper on land tenure at a conference in Montpellier in France and visited the Centre for Development Studies at Bath University in the United Kingdom. Professor Jan K Coetzees participated in the European Sociological Association’s Conference on “Advances in qualitative research” in Cardiff in Wales. Dr Michael Drewett presented two papers at two separate conferences, the one on cultural studies and the other on music censorship in Istanbul in Turkey. Dr Darlene Miller presented papers at the African Studies Association’s 49th Annual meeting in San Francisco in the United States and another at the School of Oriental and African Studies in the United Kingdom.

Dr Miller also addressed the University of Cape Town’s Graduate School Post Graduate Symposium in her capacity as the Women’s Academic Solidarity Association (WASA) Chairperson.

One of the “low” lights of the year was the resignation from the Department of Professor Susan Ziehl after 20 years in the Department.

DR M. ROODT
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Adesina, JOT


Drewett, MD


Hendricks, FT


Klerck, GG


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Adesina, JOT


Coetzee, JK

Coetzee, JK. "The power of words: defining, narrating, policy making". Africanus. 2006. 36(1),23-34.


*NOT AN ACCREDITED JOURNAL
Hendricks, FT

Klerck, GG

Miller, DR


Sishuta, B

OTHER PUBLICATIONS

Adesina, JOT

Miller, DR


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

i. Local Conferences (Within South Africa)

Adesina, JOT

Klerck, GG


*NOT AN ACCREDITED JOURNAL
Miller, DR


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

ii. International Conferences (Outside South Africa)

Coetzee, JK

Drewett, MD


Miller, DR

Miller, DR. JSAS Editorial Board Meeting, Commonwealth Institute. SOAS, United Kingdom. October 2006.


Roodt, JJ

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Miller, DR


JOURNAL SUBSIDY UNITS

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<tr>
<td>Adesina, JOT: &quot;Sociology beyond despair: recovery of nerve, endogeneity, and epistemic intervention&quot;. South African Review of Sociology. 2006. 37(2),241-259.</td>
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<td>Coetzee, JK</td>
<td>Coetzee, JK: &quot;The power of words: defining, narrating, policy making&quot;. Africanus. 2006. 36(1),23-34.</td>
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<tr>
<td>Wood, G and Coetzee, JK: &quot;Negotiated revolutions or evolutionary regime transitions? The Czech Republic, South Africa and Chile&quot;. African Sociological Review. 2006. 10(1),234-243.</td>
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<td>Miller, DR</td>
<td>Miller, DR: &quot;Spaces of Resistance - African workers at Shoprite in Maputo and Lusaka&quot;. Africa Development. 2006. 31(1),27-49.</td>
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<td>Miller, DR: &quot;Regional Solidarity and a New Regional Movement in Post-Apartheid Southern Africa: Retail Workers in Mozambique and Zambia&quot;. Labour, Capital and Society. 2005. 38(1 and 2),95-125.</td>
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TOTAL FOR SOCIOLOGY AND INDUSTRIAL SOCIOLOGY | 8.50 |

POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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STATISTICS

Members of the Department of Statistics were involved in joint research with the Departments of Zoology and Entomology, Accounting and Management, and ISER. Six publications emanated from the collaborative research in 2006. Professor Gunther Jäger continued his very interesting research in lattice-valued convergence spaces. He has several papers published on convergence structures and a convergence structure named after him, the Jäger Convergence. Another paper entitled ‘Lattice-valued continuous convergence is induced by a lattice-valued uniform convergence structure, Fuzzy Sets and Systems’ was published in 2006.

Several papers were presented at local and international conferences throughout the year. Professors Radloff and Szyszkowski and PhD student, Gary Sharp, co-presented a paper on “Information criteria as a tool for lag length selection of vector error correction models” and Professor Jäger and Master’s student, Nothabo Ndebele, presented a paper on “A comparison of different clustering algorithms and their use in image compression” at the 49th Annual Conference of the South African Statistical Association held at Stellenbosch University in November 2006. A paper entitled “Leadership values across gender and culture (WIP)” was co-presented by members of the Management Department and Mr Jeremy Baxter at the Annual Conference of Southern African Institute of Management Scientists in Stellenbosch. Conference papers emanating from Professor Radloff’s collaborative research with the Accounting and Entomology Departments and Pharmacy Faculty were also presented during 2006.

The Department hosted an internationally renowned statistician, Professor Mike Kenward, from the London School of Hygiene and Tropical Medicine in October 2006.

Postgraduate Students in 2007:
MSc: 4; PhD: 2
Graduation April 2007:
MSc: 2; MCom: 1

PROFESSOR S.E. RADLOFF
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bangay,L
Cocks,ML, Bangay,L, Wiersum,KF and Dold,AP. "Seeing the wood for the trees: The role of woody resources for the construction of gender specific household cultural artefacts in non-traditional communities in the Eastern Cape, South Africa”. Environment, Development and Sustainability. 2006. 8,519-533.

Hepburn,C
Hepburn,HR and Hepburn,C. "Bibliography of Apis cerana Fabricius (1793)”. Apidologie. 2006. 37(6),651-652.

Jager,G

Radloff,SE


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

i. Local Conferences (Within South Africa)

Bangay, L


Baxter, JS

Jager, G

Radloff, SE


Radloff, SE and Szyszkowski, I

*NOT AN ACCREDITED JOURNAL
ii. International Conferences (Outside South Africa)

**Radloff, SE**

**DISTINGUISHED VISITORS**

Professor M Kenward. London School of Hygiene and Tropical Medicine, London, UK. Lecture. October 2006.

**JOURNAL SUBSIDY UNITS**

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<td><strong>Jager, G</strong></td>
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<td>Jager, G. &quot;Lattice-valued continuous convergence is induced by a lattice-valued uniform convergence structure&quot;. Fuzzy Sets and Systems. 2006. 157,2715-2724.</td>
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<td><strong>Radloff, SE</strong></td>
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<td>Hepburn, HR and Radloff, SE. &quot;Morphological variation in the pollen collecting apparatus of honeybees&quot;. Journal of Apicultural Research. 2006. 45(1),25-26.</td>
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<tr>
<td>Porri, F, McQuaid, CD and Radloff, SE. &quot;Spatio-temporal variability of larval abundance and settlement of Perna perna: differential delivery of mussels&quot;. Marine Ecology Progress Series. 2006. 315,141-150.</td>
<td>0.34</td>
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<tr>
<td>Tan, K, Hepburn, HR, He, S, Radloff, SE, Neumann, P and Fang, X. &quot;Gigantism in honeybees: Apis cerana queens reared in mixed-species colonies&quot;. Naturwissenschaften. 2006. 93,315-320.</td>
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**POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS**

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2006 was another tremendously productive research year for the staff, research associates and students of the department with 55 full-length papers published in peer reviewed journals. This productivity is not only due to the enthusiasm and drive of staff and students, but also strong local and international links that have been forged by the academic staff. Of note are the links that Emeritus Professor Randall Hepburn has established with German and Chinese counterparts, and he was recently appointed an Honorary Professor of Apiculture at Yunnan Agricultural University in China. Research strengths of the department are in the broad areas of marine biology, wildlife management and entomology. The marine biologists under Professor Christopher McQuaid’s guidance continued, through their work on mussels, to give insights into how indigenous and invasive species interact on our rocky shores. This work has received significant international recognition and in December Professor McQuaid was invited to present a keynote address at the Australasian Malacology congress in Australia. Professors William Froneman and Alan Hodgson and their students advanced our knowledge of the ecology of local estuaries that are currently threatened by uncontrolled development. The wildlife management group of Professor Ric Bernard produced important findings that will help in the conservation and management of game in some Eastern Cape reserves. Professor Martin Hill, who received the vice-chancellor’s research award, travelled widely during the year for his work on insect biocontrol of invasive aquatic weeds. He made visits to South America and the Central African Republic as well as regular trips to the Western Cape and Pretoria where much of his research and a number of his students are based. Another of the Entomology staff, Dr Doug Downie, also travelled into Africa for his research on cycad weevils. He visited Tanzania and Kenya where he re-discovered a weevil species that had not been seen since 1926. Staff and students of the department presented their findings at a number of local and international conferences in the USA, Europe, Australia and Mozambique. Staff were not the only ones to receive recognition for their research efforts. Abraham Chawanji (Ph.D. student) and Ben Price (M.Sc. student) have been studying aspects of cicada reproduction and evolution respectively. Abraham was flown to a conference in England (by JEOL South Africa) after winning a best student paper award at the local microscopy congress. Ben, under the supervision of Professor Martin Villet, received the best student speaker award at a biosystematics meeting. Professor Adrian Craig spent some of his sabbatical leave visiting a number of European museums to gather information for a review of African weavers.

Public awareness of science was not ignored with staff and students publishing popular articles in magazines and Professors Martin Villet and Adrian Craig appeared several times on the SABC 2 programme 50/50.

Postgraduates currently registered; 21 MSc. and 25 PhD.
Postgraduates likely to graduate; 2 MSc. and 3 PhD.

PROFESSOR A.N. HODGSON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Craig, AJF

Froneman, PW

Hepburn, HR
PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bernard,RTF


de Moore,FC


Erlandson,J and McQuaid,CD

"Re-colonisation rate differs between co-existing indigenous and invasive intertidal mussels following major disturbance". Marine Ecology Progress Series. 2006. 320,169-176.


Froneman,PW


Froneman,PW. "The importance of phytoplankton size in mediating trophic interactions within the plankton of a southern African estuary". Estuarine Coastal and Shelf Science. 2006. 70,693-700.


Froneman,PW and Hodgson,AN


Hepburn,HR


Ellis,JD and Hepburn,HR. "An ecological digest of the small hive beetle (Aethina tumida) a symbiont in honey bee colonies (Apis mellifera)". Insectes Sociaux. 2006. 53,8-19.
Hepburn, HR and Hepburn, C. "Bibliography of *Apis cerana* Fabricius (1793)". *Apidologie*. 2006. 37(6),651-652.


Hepburn, HR and Neumann, P

Hill, MP
Ripley, BS, Muller, E, Behenna, M, Whittington-Jones, GM and Hill, MP. "Biomass and photosynthetic productivity of water hyacinth (*Eichhornia crassipes*) as affected by nutrient supply and mirid (*Eccritotarurus cutarinensis*) biocontrol". *Biological Control*. 2006. 39,392-400.

Hill, MP and Villet, MH

Hodgson, AN

Hodgson, AN and Villet, MH

Kaehler, S

Kaehler, S, Pakhomov, EA, Kalin, RM and Davis, S. "Trophic importance of kelp-derived suspended particulate matter in a through-flow sub-Antarctic system". *Marine Ecology Progress Series*. 2006. 316,17-22.


*NOT AN ACCREDITED JOURNAL*

Kaehler, S and McQuaid, CD

McQuaid, CD


McQuaid, CD and Froneman, PW

McQuaid, CD and Kaehler, S
Hill, JM, McQuaid, CD and Kaehler, S. "Biogeographic and nearshore-offshore trends in isotope ratios of intertidal mussels and their food sources around the coast of southern Africa". *Marine Ecology Progress Series*. 2006. 318, 63-73.

McQuaid, CD and Phillips, TE

Neumann, P


Spiewok, S and Neumann, P. "Infestation of commercial bumblebee (Bombus impatiens) field colonies by small hive beetles (Aethina tumida)". *Ecological Entomology*. 2006. 31, 623-628.


Neumann, P and Hepburn, HR


Neumann, P, Hepburn, HR and Hill, MP

Peinke, DM and Brown, CR

Porri, F and McQuaid, CD

Porri, F, McQuaid, CD and Radloff, SE.  "Spatio-temporal variability of larval abundance and settlement of Perna perna; differential delivery of mussels".  Marine Ecology Progress Series. 2006. 315,141-150.

Simon, CA

Villet, MH


Zardi,GI, McQuaid,CD and Porri,F. "Hydrodynamic stress and habitat partitioning between indigenous (Perna perna) and invasive (Mytilus galloprovincialis) mussels: constraints of an evolutionary strategy". Marine Biology. 2006. 150,79-88.

Zardi,GI, Porri,F and CD McQuaid,CD. "Sand stress as a non-determinant habitat segregation of indigenous (Perna perna) and invasive (Mytilus galloprovincialis) mussels in South Africa". Marine Biology. 2006. 148,1031-1038.

OTHER PUBLICATIONS

Bernard,RTF


Bissett,C

Craig,AJF


Downie,DA


Froneman,PW


Simon,CA

Villet,MH
Villet,MH. African Entomology. Entomological Society southern Africa.


Bownes,A, Moore,SD and Villet,MH. "Turning pests into allies for citrus farmers". Limson, J (eds) Science in Africa. Published online. 2006. February.

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

i. Local Conferences (Within South Africa)

**Bernard, RTF**


**Villet, MH**

ii. International Conferences (Outside South Africa)

**Bonnevie, BT and Craig, AJFK**
Bonnevie, BT, Craig, AJFK and Underhill, GD. "Moult in sunbirds and sugarbirds". 24th International Ornithological Congress. Congress Centre Hamburg, Hamburg, Germany. August 2006. 1. 151.

**Craig, AJFK**
Craig, AJFK and Barker, NP. "A preliminary phylogeny for the weavers, family Ploceidae". 24th International Ornithological Congress. Congress Centre Hamburg, Hamburg, Germany. August 2006. 1. 140.

**Downie, DA**

**Hill, MP**

**Hodgson, AN and Villet, MH**

**McQuaid, CD**


McQuaid, CD, Zardi, GI and Teske, PR

Neumann, P

Porri, F, Erlandson, J, Zardi, GI and McQuaid, CD
Porri, F, Erlandson, J, Zardi, GI and McQuaid, CD. "Settlement recruitment and habitat selection in mussels passive attachment and behaviour as mechanisms of final adult zonation". *7th International Larval Biology Symposium*. University of California, Oregon, United States of America. August 2006. 34.

Richoux, NB and Froneman, PW

Villet, MH

**CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.**

Craig, AJFK


Villet, MH


OVERSEAS RESEARCH OR FURTHER STUDY

Craig, AJFK


JOURNAL SUBSIDY UNITS

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<td>Bernard, RTF and Parker, DM. &quot;The use of archaeological and ethnographical information to supplement the historical record of the distribution of large mammalian herbivores in South Africa&quot;. South African Journal of Science. 2006. 102,117-119.</td>
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<td>Jackson, C and Bernard, RTF. &quot;Variation in the timing of reproduction of the four-striped field mouse, Rhabdomys pumilio, in the Eastern Cape Province, South Africa&quot;. African Zoology. 2006. 41(2),301-304.</td>
<td>1.00</td>
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<tr>
<td>Plon, S and Bernard, RTF. &quot;A review of spermatozoan morphology in Cetacea with new data for the genus Kogia&quot;. Journal of Zoology. 2006. 269,466-473.</td>
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<td>de Moore, FC</td>
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<td>Rivers-Moore, NA, de Moore, FC, Birkholz, SA and Palmer, TG. &quot;Estimation of preferred water flow parameters for four species of Simulium (Diptera: Simuliidae) in small clear streams in South Africa&quot;. African Journal of Aquatic Science. 2006. 31(2),261-269.</td>
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<td>Bernard, ATF and Froneman, PW. &quot;Euphausiid population structure and grazing in the Antarctic</td>
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<td>Lukey, JR, Booth, AJ and Froneman, PW</td>
<td>&quot;Fish population size and movement patterns in a small intermittently open South African estuary&quot;. Estuarine Coastal and Shelf Science. 2006. 67,10-20.</td>
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<td>Froneman, PW and Hodgson, AN</td>
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<td>Allan, EL, Froneman, PW and Hodgson, AN</td>
<td>&quot;Effects of temperature and salinity on the standard metabolic rate (SMR) of the caridean shrimp <em>Palaemon peringueyi</em>&quot;. Journal of Experimental Marine Biology and Ecology. 2006. 337,103-108.</td>
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<td>Hepburn, HR</td>
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<td>Addi, A, Phillipson, P and Hepburn, HR</td>
<td>&quot;Floral resources of <em>Apis mellifera capensis</em> in the fynbos biome in the Eastern Cape Province, South Africa&quot;. African Entomology. 2006. 14(1),153-159.</td>
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<td>Ellis, JD and Hepburn, HR</td>
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<td>Wossler, TC, Jones, GE, Allsopp, MH and Hepburn, HR</td>
<td>&quot;Virgin Queen Mandibular Gland Signals of <em>Apis mellifera capensis</em> Change with Age and Affect Honeybee Worker Responses&quot;. Journal of Chemical Ecology. 2006. 32(5),1043-1056.</td>
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<td>Hepburn, HR and Neumann, P</td>
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<td>Jameson, BGM, Hodgson, AN and Spottiswoode, CN</td>
<td>&quot;Ultrastructure of the spermatozoon of <em>Myrmecocichla formicivora</em> (Vieillot 1881) and <em>Philetaurus socius</em> (Latham 1790) (Aves Passeriformes) with new interpretation of the passeridan acrosome&quot;. Acta Zoologica. 2006. 87,297-304.</td>
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<td>Hodgson, AN and Villet, MH</td>
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<td>Chawanji, AS, Hodgson, AN and Villet, MH</td>
<td>&quot;Sperm morphology in five species of cicadettine cicadas (<em>Hemiperra: Cicadomorpha: Cicadidae</em>)&quot;. Tissue and Cell. 2006. 38,373-388.</td>
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<td>Kaehler, S, Pakhomov, EA, Kalin, RM and Davis, S</td>
<td>&quot;Trophiic importance of kelp-derived suspended particulate matter in a through-flow sub-Antarctic system&quot;. Marine Ecology Progress Series. 2006. 316,17-22.</td>
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<td>Pakhomov, EA, Bushula, T, Kaehler, S, Watkins, BP and Leslie, RW</td>
<td>&quot;Structure and distribution of the slope fish community in the vicinity of the sub-Antarctic Prince Edward Archipelago&quot;. Journal of Fish Biology. 2006. 68,1834-1866.</td>
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**TOTAL:** 199
<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
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<tr>
<td>McQuaid, C.D.</td>
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<td>McQuaid, C.D. and Froneman, P.W.</td>
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<td>Neumann, P.</td>
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<td>Neumann, P. and Hepburn, H.R.</td>
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1. **mellifera)**: pollen or jelly as protein source for oogenesis?”. *Journal of Comparative Physiology A.* 2006. 192,761-768.


**TOTAL FOR ZOOLOGY AND ENTOMOLOGY** 38.83
## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

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