

**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.

A handwritten signature in black ink, appearing to read 'S. Badat', with a circular flourish at the bottom.

**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**

*Mitchell,L.* "Animals and the discourse of farming in Southern Africa". *Society and Animals*. 2006. 14(1),39-60.

**Sayigh,E**

*Sayigh,E.* "Refining lecturers' assessment practices through formal professional development at Rhodes University". *South African Journal of Higher Education*. 2006. 20(1),157-169.

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

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

**Vongo,M**

*Vongo,M.* "Changing campuses, stagnant curricula?: Communication courses at the former technikons". *Higher Education Learning and Teaching Association of Southern Africa Annual Conference*. St Georges Conference Centre, Pretoria. December 2006.

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

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

**Boughey,CM**

*Boughey,CM.* "Peers assessing peers: A case study of institutional change". *6th International Conference on Knowledge, Culture and Change in Organisations*. Monash University, Prato. Italy. July 2006.

*Boughey,CM.* "Texts, practices and student learning: A view from the South". *Higher Education Close-Up 4*. University of Lancaster, Lancaster. United Kingdom. August 2006.



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

*Hodgkinson-Williams,CA and Mostert,M. Workshop. "Preliminary Data Report: Staff and Students". ICT Strategic Planning at Rhodes Workshop. Rhodes University. Grahamstown. November 2006.*

*Hodgkinson-Williams,CA and Mostert,M. Workshop. "Preliminary Data Report: Pilot Study Students". ICT Strategic Planning at Rhodes Workshop. Rhodes University. Grahamstown. December 2006.*

*Hodgkinson-Williams,CA and Mostert,M. Workshop leader. "ICT Strategic Planning at Rhodes". ICT Strategic Planning at Rhodes Workshop. Union Conference Centre. Grahamstown. 4 December 2006.*

**JOURNAL SUBSIDY UNITS**

<b>ACADEMIC DEVELOPMENT CENTRE</b>		<b>UNITS</b>
<b>Mitchell,L</b>		
<i>Mitchell,L. "Animals and the discourse of farming in Southern Africa". <i>Society and Animals</i>. 2006. 14(1),39-60.</i>		1.00
<b>Sayigh,E</b>		
<i>Sayigh,E. "Refining lecturers' assessment practices through formal professional development at Rhodes University". <i>South African Journal of Higher Education</i>. 2006. 20(1),157-169.</i>		1.00
<b>TOTAL FOR ACADEMIC DEVELOPMENT CENTRE</b>		<b>2.00</b>

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

<b>ACADEMIC DEVELOPMENT CENTRE</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Sutherland	Quinn	M	0.50
Vongo	Boughey	M	0.50
Blunt	Boughey	D	3.00
Williams	Boughey/Dowse	D	3.00
<b>TOTAL</b>			<b>7.00</b>

## ACCOUNTING

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 text book 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**

*Lancaster,JCS. "Open Book Assessment in a South African Context : A Work in Progress". Southern African Accounting Association Biennial Conference. Sun City , June 2006.*

**Maree,KW**

*Maree,KW and Radloff,SE. "Factors affecting ethical judgement: The South African evidence". Southern African Accounting Association Biennial National Conference. Sun City, June 2006.*

**Mullins,CJ**

*Mullins,CJ. "An investigation into the implementation of the Municipal Property Rates Act (No. 6 of 2004) in the Eastern Cape". Southern African Accounting Association Biennial Conference. Sun City, June 2006.*

**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**

*Stack,EM and Gunn,R. "The Deductibility of Interest". Southern African Accounting Association Biennial Conference. Sun City, June 2006.*

**JOURNAL SUBSIDY UNITS**

<b>ACCOUNTING</b>	<b>UNITS</b>
TOTAL FOR ACCOUNTING	0.00

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

<b>ACCOUNTING</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Barnes	Stack	M	0.50
Kamlana	Stack	M	0.50
Naidoo	Stack	M	1.00
Woodbridge	Stack	M	0.50
<b>TOTAL</b>			2.50

## 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*)<sup>1</sup>.

PROFESSOR R. PALMER  
HEAD OF DEPARTMENT

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<sup>1</sup> One examiner's report is outstanding but imminent.

## BOOKS/CHAPTERS/MONOGRAPHS

### **Boswell, MJR**

*Boswell, MJR*. Le Malaise Creole: Ethnic Identity in Mauritius. Berghahn Books. Oxford. 2006. 26, 213 pp. ISBN:1-84545-075-2.

### **de Wet, CJ**

*de Wet, CJ*. Development-Induced Displacement: Problems, Policies and People. de Wet, CJ (eds) Berghahn. Oxford. 2006. 218 pp. ISBN:1-84545-096-5.

*de Wet, CJ*. "Introducing the Issues". In: de Wet, CJ (eds) Development-Induced Displacement: Problems, Policies and People. Berghahn. Oxford. 2006. 18, 1-12. ISBN:1-84545-096-5.

de Wet,CJ. "Policy Recommendations and Suggestions For Further Research". In: de Wet, CJ (eds) Development-Induced Displacement: Problems, Policies and People. Berghahn. Oxford. 2006. 18, 203-212. ISBN: 1-84545-096-5.

de Wet,CJ. "Risk, Complexity and Local Initiative in Forced Resettlement Outcomes". In: de Wet, CJ (eds) Development-Induced Displacement: Problems, Policies and People. Berghahn. Oxford. 2006. 18, 180-202. ISBN: 1-84545-096-5.

**Owen,JN**

Owen,JN. In: South Africa - Africa's America: An Oasis for African Educational Migrants?. Ossa. Ethiopia. 2006. 1-65.

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

**Boskovic,A**

Boskovic,A. "Balkan Ghosts Revisited: Racism, Serbian Style". *Anthropos*. 2006. 101(2),559-564.

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**Boswell,MJR**

Boswell,MJR. "Say What You Like: Identity and Heritage in Zanzibar". *International Journal of Heritage Studies*. 2006. 12(5),440-457.

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

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

**Boswell,MJR**

Boswell,MJR. "Our Gift From the Past: Heritage Politics in the Indian Ocean World". *Transcending Postcolonial Conditions: Towards Alternative Modernities*. University of Cape Town, Cape Town. December 2006. 1-20.

**de Wet,CJ**

de Wet,CJ. "When Rights Go Wrong: The Dynamics of a Successful Land Claim in a Rural Eastern Cape Settlement". *Land Restitution Conference*. Houw Hoek, September 2006.

de Wet,CJ. "When Rights Go Wrong: The Dynamics of a Successful Land Claim in a Rural Eastern Cape Settlement". *Transcending Postcolonial Conditions: Towards Alternative Modernities*. University of Cape Town, Cape Town. December 2006.

**Owen,JN**

Owen,JN. "Teaching the Elite: Critical Pedagogy in Action". *Transcending Postcolonial Conditions: Towards Alternative Modernities*. University of Cape Town, Cape Town. December 2006. 195.

**Palmer,RCG**

Palmer,RCG. "The Post-Settlement at Dwesa-Cwebe: Forging Indigenous-to-Indigenous transnational Linkages To Promote Local Development". *Land, Memory, Reconstruction and Justice: Perspectives on Land Restitution in South Africa*. Houw Hoek Inn, NR Cape Town. September 2006.

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**

*Bernard,PS.* "Experiencing Divinity in Nature from an African Perspective: The Conversion of a Researcher's Worldview". *Exploring Religion, Nature and Culture*. University of Florida, Gainesville Florida. USA. April 2006.

**Palmer,RCG**

*Palmer,RCG.* *Science and Social Transformation Planning Conference*. Novotel, Accra. Ghana. June/July 2006.

*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,MJR**

*Boswell,MJR.* Presented paper. "*Scents of Identity; Fragrance and Heritage in Zanzibar*". Current Anthropology Research Series. Kaif B Rhodes University. Grahamstown. 20 September 2006.

**de Wet,CJ**

*de Wet,CJ.* Presented paper. "*Does Development Displace Ethics? The Dilemma of Forced Displacement*". Current Anthropology Research Series. Kaif B, Rhodes University. Grahamstown. October 2006.

**Owen,JN**

*Owen,JN.* Exhibition. "*Merging Heart and Mind: Critical Reflection on Power and Wealth*". Current Anthropology Research Series. Kaif B and Anthropology Museum, Rhodes University. Grahamstown. 17 November - 18 December 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY**

**Boswell,MJR**

*Boswell,MJR.* Stone town Zanzibar, Tanzania. Ethnographic Research. 5 - 20 July 2006.

**Palmer,RCG**

*Palmer,RCG.* Spelman College, Atlanta, USA. Research Planning for Science and Social Transformation Project. 24 - 27 March 2006.

*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.

**JOURNAL SUBSIDY UNITS**

<b>ANTHROPOLOGY</b>		<b>UNITS</b>
<b>Boskovic,A</b>		
<i>Boskovic,A.</i> "Balkan Ghosts Revisited: Racism, Serbian Style". <i>Anthropos</i> . 2006. 101(2),559-564.		1.00
TOTAL FOR ANTHROPOLOGY		1.00

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

<b>ANTHROPOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Griffin	Boswell	M	1.00
Hartnack	De Wet	M	1.00
TOTAL			2.00

## BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY

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

Whiteley,CG and Lee,DJ. "Enzymology of sludge-floc degradation using confocal laser scanning microscopy: an enzyme-floc model". In: Hearn, EC (eds) Focus on Biotechnology Research. Nova Science Publishers. New York. 2006. 213-233.

## 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 *Thiobacillus thioparus* isolated from an activated sludge bioreactor used for hydrogen sulphide treatment". *Journal of Applied Microbiology*. 2006. 101,1269-1281.

### Blatch,GL

Sinclair,BJ, Terblanche,JS, Scott,MB, Blatch,GL, Klok,J and Chown,SL. "Environmental physiology of three species of collembola at Cape Hallett, North Victoria Land, Antarctica". *Journal of Insect Physiology*. 2006. 52,29-50.



**Brand,JM**

Mabinya,LV, Mafunga,T and Brand,JM. "Determination of ferulic acid and related compounds by thin layer chromatography". *African Journal of Biotechnology*. 2006. 5(13),1271-1273.

**Burgess,JE**

Barbosa,VL, Hobbs,P, Sneath,R, Burgess,JE, Callan,JE and Stuetz,RM. "Investigating the capacity of an activated sludge process to reduce VOCS and odour emissions". *Water Environment Research*. 2006. 78(8),842-851.

**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**

Modisakeng,KW, Amemiya,CT, Dorrington,RA and Blatch,GL. "Molecular Biology studies on the coelacanth: a review". *South African Journal of Science*. 2006. 102,479-485.

**Duncan,JR and Burgess,JE**

Umali,LJ, Duncan,JR and Burgess,JE. "Performance of dead *Azolla filiculoides* biomass for biosorption of Au from wastewater". *Biotechnology Letters*. 2006. 28(1),45-49.

**Ehlers,GA and Rose,PD**

Ehlers,GA and Rose,PD. "An integrated anaerobic/aerobic bioprocess for the remediation of chlorinated phenol-contaminated soil and groundwater". *Water Environment Research*. 2006. 78(4),701-709.

**Leukes,WD**

Vine,NG, Leukes,WD and Kaiser,H. "Probiotics in marine larviculture". *FEMS Microbiology Reviews*. 2006. 30,404-427.

**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.

Brimecombe,RD and Limson,JL. "Electrochemical investigation of the effect of pH and solvent on amitraz stability". *Journal of Agricultural and Food Chemistry*. 2006. 54,8139-8143.

**Nicoll,WS, Boshoff,A and Blatch,GL**

Nicoll,WS, Boshoff,A, Ludewig,MH, Hennessy,F, Jung,M and Blatch,GL. "Approaches to the isolation and characterization of molecular chaperones". *Protein Expression and Purification*. 2006. 46,1-15.

**Pletschke,BI**

Beukes,N and Pletschke,BI. "Effect of sulfur-containing compounds on *Bacillus* cellulosome-associated 'CMCase' and 'Avicelase' activities". *FEMS Microbiology Letters*. 2006. 264(2),226-231.

Oyekola,O and Pletschke,BI. "ATP-sulphurylase: An enzymatic marker for biological sulphate reduction?". *Soil Biology and Biochemistry*. 2006. 38(12),3511-3515.

Togo,CA, Wutor,VC and Pletschke,BI. "Properties of in situ *Escherichia coli*  $\beta$ -D-glucuronidase (GUS): Evaluation of chemical interference on the direct enzyme assay for faecal pollution detection in water". *African Journal of Biotechnology*. 2006. 5(22),2338-2344.

Watson,SD and Pletschke,BI. "The effect of sulfide on  $\alpha$ -glucosidases: Implications for starch degradation in anaerobic bioreactors". *Chemosphere*. 2006. 65(1),159-164.

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

*Roman,HJ, Burgess,JE and Pletschke,BI.* "Enzyme treatment to decrease solids and improve digestion of primary sewage sludge". *African Journal of Biotechnology*. 2006. 5(10),963-967.

**Whiteley,CG**

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

*Riddin,TL, Gericke,M and Whiteley,CG.* "Analysis of the inter- and extracellular formation of platinum nanoparticles by *Fusarium oxysporum* f. sp *lycopersici* using response surface methodology". *Nanotechnology*. 2006. 17,3482-3489.

*Whiteley,CG and Lee,DJ.* "Enzyme technology and biological remediation: Review". *Enzyme and Microbial Technology*. 2006. 38,291-316.

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

*Whittington-Jones,KJ, Molwantwa,JB and Rose,PD.* "Enhanced hydrolysis of carbohydrates in primary sludge under biosulfidogenic conditions". *Water Research*. 2006. 40,1577-1582.

**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.

**OTHER PUBLICATIONS****Blatch,GL**

*Blatch,GL.* Blatch, GL (eds) Protein Expression and Purification. Elsevier. Amsterdam, Netherlands. 2006.

**Burgess,JE**

*Burgess,JE.* "Water cure". New Scientist. Reed Business Information Ltd. Sutton, Surrey, England. 2006. 191(2560), 65.

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

*Longshaw,VM, Nicoll,WS, Botha,M, Ludewig,MH, Shonhai,A, Stephens,LL and Blatch,GL.* "Getting practical with molecular chaperones". Biotechnology International. Brussels, Belgium. 2006. 24-27.

**Pletschke,BI**

*Pletschke,BI, Togo,CA and Wutor,VC.* "On-Line Real-Time Enzyme Diagnostic System For The Detection and Monitoring of Faecal Contamination of Water Intended for Drinking Purposes". WRC Report No: 1446/1/06. Water Research Commission. Pretoria. 2006. 1-100. ISBN:1-77005-463-4.

**Whiteley,CG**

*Whiteley,CG.* Whiteley, CG (eds) Enzyme Inhibition & Medicinal Chemistry. Informa Healthcare. United Kingdom. 2006.

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

*Blatch,GL.* "Hsp40-Hsp70 chaperone machinery: evidence for certain conserved ancient features". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference*. University of KwaZulu-Natal, Pietermaritzburg. 2006.

McNamara,C and Blatch,GL. "Characterisation of human Hsj1a: a molecular chaperone similar to malarial Pfj4". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference*. University of KwaZulu-Natal, Pietermaritzburg. July 2006.

**Blatch,GL and Bradley,G**

Gxoyiya,B, Molefe,D, Rashamuse,TJ, Rose,N, Salisu,S, Blatch,GL, Bradley,G, Kenyon,C, Klein,RA and Kaye,PT. "Novel Heterocyclic Systems as Potential HIV-1 Protease and Glutamine Synthetase Inhibitors". *SACI National Convention Lecture*. University of KwaZulu-Natal, Durban. December 2006.

Molefe,D, Ganto,M, Blatch,GL, Bradley,G, Beukes,E, Kaye,PT, Nchinda,AT and Prasad Vijajan,PR. "Towards the development of novel HIV-1 protease inhibitors". *Frank Warren Conference*. UCT, Cape Town. January 2006.

Molefe,D, Ganto,M, Blatch,GL, Bradley,G, Beukes,E, Kaye,PT, Nchinda,AT and Prasad Vijajan,PR. "Towards the Development of Novel HIV-1 Protease Inhibitors". *First African Structural Biology Conference*. Wilderness. November 2006.

**Dames,JF**

Dames,JF. "Mycorroot - the long road to commercialisation". *Bio2Biz Conference*. ICC, Durban. September 2006.

Dames,JF. "Mycorrhizas and micronutrients". *16th Annual Soil Borne Disease Symposium*. ARC-PPRI, Stellenbosch. September 2006. 68-81.

Adeleke,RA and Dames,JF. "Isolation and detection of *Terfezia pfeilii*". *14th Biennial Congress of the South African Society of Microbiology*. CSIR Conference Centre, Pretoria. April 2006.

Hawley,GL and Dames,JF. "Morphological and molecular identification of ectomycorrhizal fungi in *Pinus* plantations". *14th Biennial Congress of the South African Society of Microbiology*. CSIR Conference Centre, Pretoria. April 2006.

Ike-Izundu,N and Dames,JF. "Population status of soil micro-organisms and arbuscular mycorrhizal fungi in overburden soil from kaolin mining". *14th Biennial Congress of the South African Society of Microbiology*. CSIR Conference Centre, Pretoria. April 2006.

Mukasa-Mugerwa,T and Dames,JF. "Biocontrol potential of arbuscular mycorrhizal fungi against *Fusarium*". *14th Biennial Congress of the South African Society of Microbiology*. CSIR Conference Centre, Pretoria. April 2006.

**Dames,JF and Whiteley,CG**

Govender,Y, Dames,JF and Whiteley,CG. "Enzymatic mechanism for the formation of platinum nanoparticles by *Fusarium oxysporum*". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference*. University of KwaZulu-Natal, Pietermaritzburg. July 2006. 169.

**Nicoll,WS and Blatch,GL**

Botha,M, Nicoll,WS and Blatch,GL. "Molecular characterisation of the major type I Hsp40 proteins from *Plasmodium falciparum*". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference*. University of KwaZulu-Natal, Pietermaritzburg. July 2006.

**Pesce,E and Blatch,GL**

Pesce,E, Hoppe,H and Blatch,GL. "Localization and function of Pfj4, a malaria Hsp40 chaperone". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference*. University of KwaZulu-Natal, Pietermaritzburg. July 2006.

**Pletschke,BI**

*Pletschke,BI.* "The effect of key metabolites in anaerobic digestion on 'cellulase' activities of cellulosomes". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006.

*Beukes,N, Clarke,A and Pletschke,BI.* "Effect of sulphate on *Bacillus* sp. cellulosome-associated cellulase activity". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006. 190.

*Mayende,L and Pletschke,BI.* "The isolation of a Clostridial cellulosome and the effect of sulphide on the RLS (rate-limiting step) in anaerobic digestion". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006. 154.

**Stephens,LL and Blatch,GL**

*Stephens,LL and Blatch,GL.* "Biochemical characterization of the ATPase activity and oligomerization of DnaK from *Agrobacterium tumefaciens*". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006.

**Whiteley,CG**

*Nemukula,A and Whiteley,CG.* "Isolation, purification and partial purification of a fructosyltransferase from *Aspergillus niger*". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006. 168.

*Simpson,C, Jordaan,J, Gardiner,NS and Whiteley,CG.* "Isolation, purification and characterization of a novel glucose oxidase from *Penicillium canescens* Strain Tt42 optimally active at neutral pH". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006. 173.

**Wilhelmi,BS and Whiteley,CG**

*Mutanda,TL, Wilhelmi,BS and Whiteley,CG.* "Enzymatic synthesis of short chain fructooligosaccharides (scFOS) using response surface methodology (RSM)". *20th South African Society for Biochemistry and Molecular Biology (SASBMB) Conference.* University of KwaZulu-Natal, Pietermaritzburg. July 2006. 155.

**Wilhelmi,BS, Duncan,JR and Burgess,JE**

*Mack,CL, Wilhelmi,BS, Duncan,JR and Burgess,JE.* "Waste yeast for cost reduction of precious metal recovery from aqueous wastewaters". *Material, Minerals, & Metal Ecology 06.* Mount Nelson Hotel, Cape Town. November 2006.

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

**ii. International Conferences (Outside South Africa)****Blatch,GL**

*Blatch,GL.* "Characterization of the Hsp40-Hsp70 chaperone machinery of *Plasmodium falciparum*". *5th FASBMB Congress.* Sheraton Hotel, Abuja. Nigeria. 2006.

*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**

*Strong,PJ and 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**

*Dairam,A and Limson,JL. "An investigation into the antioxidant and metal-binding properties of curcumin, s-allyl cysteine and capsaicin, by electrochemical methods". 210th Electrochemistry Society Meeting. Moon Palace Resort, Cancun. Mexico. November 2006.*

**Hodgson,V, Hendry,D and Dorrington,RA**

*Walter,C, Tomasicchio,M, Hodgson,V, Hendry,D, Hill,MP and Dorrington,RA. "Isolation and characterization of tetraviruses from a wild population of Nudaurelia capensis". FASEB Summer Conference on Virus Assembly. Vermont Academy, Saxton's River, Vermont. USA. June 2006. 178.*

**Knox,CM and Dorrington,RA**

*Short,JS, Knox,CM and Dorrington,RA. "Identification of a membrane targeting signal on the Helicoverpa armigera stunt virus replicase". FASEB Summer Conference on Virus Assembly. Vermont Academy, Saxton's River, Vermont. USA. June 2006. 117.*

**Limson,JL**

*Fogel,RD, Mashazi,PN, Nyokong,T and Limson,JL. "The use of the Quartz Crystal Microbalance with Dissipation for the design of improved metallophthalocyanine-glucose oxidase composite electrodes for glucose detection". 210th Electrochemistry Society Meeting. Moon Palace Resort, Cancun. Mexico. November 2006.*

**Longshaw,VM, Bradley,G and Blatch,GL**

*Daniel,S, Longshaw,VM, Söti,C, Csermely,P, Bradley,G and Blatch,GL. "The Hsp70/Hsp90 Organising Protein: is there a link between the mechanism of localization of Hop and its interaction with Hsp90?". 3rd International Hsp90 Conference. Seon Monastery, Seon. Germany. October 2006.*

**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**

*Whiteley,CG and Mutanda,TL. "Optimisation of enzymatic synthesis of fructooligosaccharides". 20th IUBMB and 11th FAOBMB Conference on Biochemistry & Molecular Biology. Kyoto Convention Centre, Kyoto. Japan. June 2006. 1P-A-235. 118.*

*Whiteley,CG and Riddin,TL. "Inter and extracellular production of platinum nanoparticles by Fusarium oxysporum". 20th IUBMB and 11th FAOBMB Conference on Biochemistry & Molecular Biology. Kyoto Convention Centre, Kyoto. Japan. June 2006. 2P-B-166. 332.*

**PATENTS****Limson,JL and Pletschke,BI**

*Togo,CA, Wutor,VC, Limson,JL and Pletschke,BI. Biosensor. South Africa. 2006. 2006/04442.*

**Whiteley,CG, Pletschke,BI and Burgess,JE**

*Whiteley,CG, Pletschke,BI, Burgess,JE and Leukes,WD. Method of producing an enzyme mixture. South Africa. 2006. 2006/00906.*

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

*Blatch,GL. Invited Lecture. "Sequencing chemistry". Rhodes University DNA Sequencing and Bioinformatics Workshop. CEC. Grahamstown. 2 May 2006.*

*Blatch, GL.* Invited Seminar. *"Harnessing chaperone power in the cytosol and the nucleus: nuclear localization of Hop could be regulated by its interaction with chaperones"*. University of the Saarland Summer Seminar Series. University of the Saarland. Homburg, Germany. 26 September 2006.

*Blatch, GL.* Invited Respondent to talk by Professor Richerson. *"Not by genes alone: how culture transformed human evolution"*. Rhodes University Humanities Interdisciplinary Seminar Series. Randell House Faculty of Humanities. Grahamstown. 20 October 2006.

*Blatch, GL.* Invited Seminar. *"Harnessing chaperone power in the cytosol and the nucleus: localization and function of the Hsp70/90 Organizing Protein (Hop)"*. University of Liverpool. Department of Biochemistry Seminar Series. Liverpool, UK. 24 October 2006.

#### **Brimecombe, RD**

*Brimecombe, RD.* Invited Seminar. *"Electrochemical methods for monitoring biodegradation : A case study of the pesticide amitraz"*. The Eastern Province Section of SACI, in Conjunction with ElectrochemSA. CEC. Grahamstown. 7 June 2006.

#### **Limson, JL**

*Limson, JL.* Workshop coordinator. *"Regional Quartz Crystal Microbalance with Dissipation Workshop"*. NRF/Rhodes University QCMD Regional Facility Training Workshop. CEC. Grahamstown. 27 February - 3 March 2006.

*Limson, JL.* Invited Seminar. *"Scope of the electrochemical quartz crystal microbalance with dissipation"*. The Eastern Province Section of SACI, In Conjunction with ElectrochemSA. CEC. Grahamstown. 7 June 2006.

#### **Whiteley, CG**

*Whiteley, CG.* Invited Workshop lecturer. *"Enzyme Technology in a Sustainable Environment"*. International training and research program for clean environment. International Convention Hotel. Taipei, Taiwan. 24 September - 2 October 2006.

### **OVERSEAS RESEARCH OR FURTHER STUDY**

#### **Blatch, GL**

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

#### **Burgess, JE**

*Burgess, JE.* International Water Association, Beijing, China. South African representative in Young Water Professional Communications Division. 8 - 14 September 2006.

#### **Knox, CM**

*Knox, CM.* University of East Anglia, Norwich, England. Research: Picornavirus-host interactions. 26 June - 7 July 2006.

#### **Pletschke, BI**

*Pletschke, BI.* University of California Davis, Davis, USA. Visiting Scholar. August - September 2006.

*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.

## JOURNAL SUBSIDY UNITS

BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY	UNITS
<b>Barbosa,VL, Atkins,SD and Burgess,JE</b>	
<i>Barbosa,VL, Atkins,SD, Pereira Barbosa,V, Burgess,JE and Stuetz,RM. "Characterisation of Thiobacillus thioparus isolated from an activated sludge bioreactor used for hydrogen sulphide treatment". Journal of Applied Microbiology. 2006. 101,1269-1281.</i>	0.60
<b>Blatch,GL</b>	
<i>Sinclair,BJ, Terblanche,JS, Scott,MB, Blatch,GL, Klok,J and Chown,SL. "Environmental physiology of three species of collembola at Cape Hallett, North Victoria Land, Antarctica". Journal of Insect Physiology. 2006. 52,29-50.</i>	0.17
<b>Brand,JM</b>	
<i>Mabinya,LV, Mafunga,T and Brand,JM. "Determination of ferulic acid and related compounds by thin layer chromatography". African Journal of Biotechnology. 2006. 5(13),1271-1273.</i>	0.34
<b>Burgess,JE</b>	
<i>Barbosa,VL, Hobbs,P, Sneath,R, Burgess,JE, Callan,JE and Stuetz,RM. "Investigating the capacity of an activated sludge process to reduce VOCS and odour emissions". Water Environment Research. 2006. 78(8),842-851.</i>	0.17
<b>Dames,JF</b>	
<i>Muerrie,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.</i>	0.20
<b>Dorrington,RA and Blatch,GL</b>	
<i>Modisakeng,KW, Amemiya,CT, Dorrington,RA and Blatch,GL. "Molecular Biology studies on the coelacanth: a review". South African Journal of Science. 2006. 102,479-485.</i>	0.75
<b>Duncan,JR and Burgess,JE</b>	
<i>Umali,LJ, Duncan,JR and Burgess,JE. "Performance of dead Azolla filiculoides biomass for biosorption of Au from wastewater". Biotechnology Letters. 2006. 28(1),45-49.</i>	1.00
<b>Ehlers,GA and Rose,PD</b>	
<i>Ehlers,GA and Rose,PD. "An integrated anaerobic/aerobic bioprocess for the remediation of chlorinated phenol-contaminated soil and groundwater". Water Environment Research. 2006. 78(4),701-709.</i>	1.00
<b>Leukes,WD</b>	
<i>Vine,NG, Leukes,WD and Kaiser,H. "Probiotics in marine larviculture". FEMS Microbiology Reviews. 2006. 30,404-427.</i>	0.33
<b>Limson,JL</b>	
<i>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.</i>	1.00
<i>Brimecombe,RD and Limson,JL. "Electrochemical investigation of the effect of pH and solvent on amitraz stability". Journal of Agricultural and Food Chemistry. 2006. 54,8139-8143.</i>	1.00
<b>Nicoll,WS, Boshoff,A and Blatch,GL</b>	
<i>Nicoll,WS, Boshoff,A, Ludewig,MH, Hennessy,F, Jung,M and Blatch,GL. "Approaches to the isolation and characterization of molecular chaperones". Protein Expression and Purification. 2006. 46,1-15.</i>	0.83
<b>Pletschke,BI</b>	
<i>Beukes,N and Pletschke,BI. "Effect of sulfur-containing compounds on Bacillus cellulosome-associated 'CMCase' and 'Avicelase' activities ". FEMS Microbiology Letters. 2006. 264(2),226-231.</i>	1.00
<i>Oyekola,O and Pletschke,BI. "ATP-sulphurylase: An enzymatic marker for biological sulphate reduction? ". Soil Biology and Biochemistry. 2006. 38(12),3511-3515.</i>	1.00
<i>Togo,CA, Wutor,VC and Pletschke,BI. "Properties of in situ Escherichia coli <math>\beta</math>-D-glucuronidase (GUS): Evaluation of chemical interference on the direct enzyme assay for faecal pollution detection in water ". African Journal of Biotechnology. 2006. 5(22),2338-2344.</i>	1.00
<i>Watson,SD and Pletschke,BI. "The effect of sulfide on <math>\alpha</math>-glucosidases: Implications for starch</i>	1.00

degradation in anaerobic bioreactors ". <i>Chemosphere</i> . 2006. 65(1),159-164.	
<b>Roman,HJ, Burgess,JE and Pletschke,BI</b>	
<i>Roman,HJ, Burgess,JE and Pletschke,BI</i> . "Enzyme treatment to decrease solids and improve digestion of primary sewage sludge". <i>African Journal of Biotechnology</i> . 2006. 5(10),963-967.	1.00
<b>Whiteley,CG</b>	
<i>Ngwenya,N and Whiteley,CG</i> . "Recovery of rhodium (III) from solutions and industrial wastewaters by a sulphate reducing bacterial consortium". <i>Biotechnology Progress</i> . 2006. 22(6),1604-1611.	1.00
<i>Riddin,TL, Gericke,M and Whiteley,CG</i> . "Analysis of the inter- and extracellular formation of platinum nanoparticles by <i>Fusarium oxysporum f. sp lycopersici</i> using response surface methodology". <i>Nanotechnology</i> . 2006. 17,3482-3489.	0.67
<i>Whiteley,CG and Lee,DJ</i> . "Enzyme technology and biological remediation: Review". <i>Enzyme and Microbial Technology</i> . 2006. 38,291-316.	0.50
<b>Whittington-Jones,KJ and Rose,PD</b>	
<i>Whittington-Jones,KJ, Molwantwa,JB and Rose,PD</i> . "Enhanced hydrolysis of carbohydrates in primary sludge under biosulfidogenic conditions". <i>Water Research</i> . 2006. 40,1577-1582.	1.00
<b>Wilhelmi,BS and Pletschke,BI</b>	
<i>Mayende,L, Wilhelmi,BS and Pletschke,BI</i> . "Cellulases (CMCases) and polyphenol oxidases from thermophilic <i>Bacillus</i> spp. isolated from compost ". <i>Soil Biology and Biochemistry</i> . 2006. 38(9),2963-2966.	1.00
<b>TOTAL FOR BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY</b>	<b>16.56</b>

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

<b>BIOCHEMISTRY, MICROBIOLOGY &amp; BIOTECHNOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Branston	Whittington-Jones	M	0.50
Brimecombe	Limson	M	1.00
Simpson	Whiteley	M	1.00
<b>TOTAL</b>			<b>2.50</b>



## 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<sub>2</sub> 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<sub>4</sub> 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 4<sup>th</sup> 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 6<sup>th</sup> 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**

Wiersum,KF, Cocks,ML, Dold,AP and Husselman,ML. "Cultivation of Medicinal Plants as a Tool for Biodiversity Conservation and Poverty Alleviation in the Amatola Region South Africa". In: Bogers,RJ, Craker,LE and Lange , D (eds) Medicinal and Aromatic Plants. Springer. Netherlands. 2006. 17(Chapter 3), 43-57. ISBN:978-1-4020-5447-1.

#### 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.

Verboom,GA, Ntoshi,R and Barker,NP. "Molecular phylogeny of African *Rytidosperma*-affiliated Danthonioid grasses reveals generic polyphyly and convergent in spikelet morphology". *Taxon*. 2006. 55(2),337-348.

- \* Weston,PH and Barker,NP. "A new suprageneric classification of the Proteaceae, with an annotated checklist of genera". *Telopea*. 2006. 11(3),314-344.

##### **Botha,CEJ**

- \* Ade-ademilua,OE and Botha,CEJ. "What does the movement of the phloem-mobile symplasmic tracer, 5,6-carboxyfluorescein in shoots of *Pisum sativum* L. indicate-the existence of a symplasmic transport system? - A bid to Answer Some Puzzling Questions". *American Journal of Plant Physiology*. 2006. 1(2),127-131.
- \* Ade-Ademilua,OE and Botha,CEJ. "A molecular supply and load-balancing mechanism is a prerequisite for export in compound leaves of pea plants". *American Journal of Plant Physiology*. 2006. 1(2),160-168.
- \* Ade-Ademilua,OE and Botha,CEJ. "Elevated CO<sub>2</sub> coupled with Mineral N Supply Enhanced Lateral Branch Development in Common Pea". *Pakistan Journal of Biological Sciences*. 2006. 9(15),2831-2836.

##### **Dold,AP**

Dold,AP. "*Ceropegia macmasteri* (Apocynaceae Asclepiadoideae Ceropegieae) a new species from Eastern Cape South Africa". *South African Journal of Botany*. 2006. 72,144-146.

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.

Cocks,ML and Dold,AP. "Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". *Journal of Ethnobiology*. 2006. 26(1),60-81.

\*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.

Venter,HJT, Dold,AP, Verhoeven,RL and Ionta,G. "*Kappia lobulata* (Apocynaceae Periplocoideae) a new genus from South Africa". *South African Journal of Botany*. 2006. 72(4),529-533.

#### **Lubke,R**

Pote,J, Shackleton,CM, Cocks,ML and Lubke,R. "Fuelwood harvesting and selection in Valley Thicket, South Africa". *Journal of Arid Environments*. 2006. 67,270-287.

#### **McKenzie,RJ and Barker,NP**

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

McKenzie,RJ, Mitchell,SD and Barker,NP. "A new Species of *Arctotis* (Compositae, Arctotideae) from kommetjie grassland in Eastern Cape Province, South Africa". *Botanical Journal of the Linnean Society*. 2006. 151,581-588.

McKenzie,RJ, Muller,EM, Skinner,A, Karis,PO and Barker,NP. "Phylogenetic relationships and generic delimitation in subtribe Arctotidinae (Asteraceae: Arctotideae) inferred by DNA sequence data from ITS and five chloroplast regions". *American Journal of Botany*. 2006. 93(8),1222-1235.

#### **Peter,CI**

Peter,CI and Johnson,SD. "Anther Cap Retention Prevents Self-pollination by Elaterid Beetles in the South African Orchid *Eulophia foliosa*". *Annals of Botany*. 2006. 97(doi:10.1093/aob/mcj041),345-355.

Peter,CI and Johnson,SD. "Doing the twist: a test of Darwin's cross-pollination hypothesis for pollinarium reconfiguration". *Biology Letters*. 2006. 2(doi: 10.1098/rsbl.2005.0385),65-68.

#### **Phillipson,P**

Addi,A, Phillipson,P and Hepburn,HR. "Floral resources of *Apis mellifera capensis* in the fynbos biome in the Eastern Cape Province, South Africa". *African Entomology*. 2006. 14(1),153-159.

#### **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**

Lockyear,JF, Hecht,T, Kaiser,H and Teske,PR. "The distribution and abundance of the endangered Knysna seahorse, *Hippocampus capensis* (Pisces: Syngnathidae) in South African estuaries". *African Journal of Aquatic Science*. 2006. 31(2),275-283.

#### **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.

Vetter,S, Goqwana,WM, Bond,WJ and Trollope,WSW. "Effects of land tenure geology and topography on vegetation and soils of two grassland types in South Africa". *African Journal of Range and Forage Science*. 2006. 23(1),13-27.

## OTHER PUBLICATIONS

### **Barker,NP**

Clark,VR and Barker,NP. "The Flora of the Sneeu Berg. Fulfilling Carl Thunberg's desire to visit the 'Sneeuberg'". Voget, C (eds) Veld & Flora. Botanical Society of South Africa. Cape Town. 2006. 202-206.

### **Barker,NP and Peter,CI**

de Wet,LR, Barker,NP and Peter,CI. "Beetles and *Bobartia*: An interesting herbivore-plant relationship". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. September, 150-151.

### **Dold,AP**

Dold,AP. "More on umMemezi – *Cassipourea flanaganii* in the Eastern Cape". Grobbelaar, E (eds) Dendron. Denrological Society of South Africa. Pretoria. 2006. 38, 25-26.

Berrington,W and Dold,AP. "The Van Stadens Wildflower Reserve". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. 92(3), 206-208.

Dold,AP and Cocks,ML. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa – a retrospective". Styles, D (eds) Plantlife. Botanical Society of South Africa. Durban. 2006. 32, 27-28.

Dold,AP and Cocks,ML. "Ikhubalo likaMlanjeni – Mlanjeni's war charms". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. 92(1), 26-27.

Dold,AP and Cocks,ML. "Izaci namaqhalo esiXhosa—Xhosa idioms and proverbs referring to plants". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. 92(2), 86-88.

Dold,AP and Trinder Smith,T. "Albany's rarest Buchu – *Agathosma bicornuta* – rediscovered and assessed". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. 92(1), 28-29.

Marais,B and Dold,AP. "*Pelargonium ochroleucum* – the bicoloured geranium from Eastern Cape". Voget, C (eds) Veld and Flora. Botanical Society of South Africa. Cape Town. 2006. 92(3), 209.

McMaster,C and Dold,AP. "A newly described species *Ceropegia macmasteri* from Eastern Cape South Africa". Steffans, F (eds) Aloe. Succulent Society of South Africa. Hatfield. 2006. 43(2 & 3), 59-60.

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

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

#### **Barker,NP**

Price,BW, Villet,MH and Barker,NP. "Molecular phylogeny of the *Platypleura stridula* L species complex (Hemiptera: Cicadidae)". 6th Conference of the Southern African Society for Systematic Biology. Berg en Dal Camp, Skukuza Kruger National Park. July 2006. 44.

#### **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.

*Saheed,SA and Botha,CEJ.* "Comparison of structural damage caused by the Russian wheat aphid *Diuraphis noxia* and the Bird cherry-oat aphid *Rhopalosiphum padi* in a susceptible barley cultivar, *Hordeum vulgare* cv Clipper". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

**Botha,CEJ and Liu,L**

*Botha,CEJ, Aoki,N, Schofield,GN, Furbank,RT and Liu,L.* "A case for leakage and retrieval of solutes via the xylem to the phloem in monocotyledons". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

**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.

*Cocks,ML and Dold,AP.* "Cultural significance of biodiversity The role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". *7th Conference of the International Society for Quality-of-Life Studies (ISQOLS)*. Rhodes University, Grahamstown. July 2006.

**Donald,G and Ripley,BS**

*Donald,G and Ripley,BS.* "Fire stimulated carbon allocation during re-growth of C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

**Peter,CI**

*Peter,CI and Johnson,SD.* "Anther cap retention prevents self-pollination in *Eulophia foliosa*". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

*Peter,CI and Johnson,SD.* "Doing the twist: a test of Darwin's cross-pollination hypothesis for pollinarium reconfiguration". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

**Ripley,BS**

*Abraham,T, Osborne,CP and Ripley,BS.* "Nutrient response of C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

*Frole,K and Ripley,BS.* "Hydraulic differences and associated anatomical traits in C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

*Gilbert,ME, Ripley,BS and Pammenter,NW.* "A quantitative analysis of plant-growth strategies enabling survival of burial in a low-nutrient beach environment". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

*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**

Teske,PR, Matthee,CA, Hamilton,H and Barker,NP. "Signatures of seaway closure and long-distance dispersal in the phylogeny of a circumglobally distributed seahorse lineage". *The Southern African Society of Systematic Biologists*. Kruger National Park, July 2006.

**Vetter,S**

Vetter,S. *Arid Zone Ecology Forum*. Succulent Karoo Knowledge Centre, Kamieskroon. August 2006.

Swart,C and Vetter,S. "Population structure and distribution of *Oldenburgia grandis* (Asteraceae) in the Eastern Cape". *South African Association of Botanists*. NMMU, Port Elizabeth. January 2006.

Vetter,S, Nolic,D and Palmer,J. "How productive are blesbok grazing patches and what contribution do they make to blesbok diets?". *41st Annual Congress of the Grassland Society of Southern Africa*. ATKV Klein Kariba, Bela Bela. July 2006.

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

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

**Barker,NP**

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.

McQuaid,CD, Zardi,GI, Teske,PR and Barker,NP. "Adaptive genetic diversity in the intertidal mussel *Perna perna* on the Southern African coast". *41st European Marine Biological Symposium*. University College Cork, Cork. Ireland. September 2006. 31.

Netnou-Nkoana,N, Barker,NP and Mucina,L. "A scanning electron microscopy study of cypselae in *Berkheya* and some related genera in the subtribe Gorteriinae (Arctoteae, Asteraceae)". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

Nordenstam,B, Källersjö,M, Barker,NP, Eldenäs,P and Wood,A. "Generic revisions in the tribe Calenduleae". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

Ramdhani,S, Barker,NP and Baijnath,S. "Phylogenetics of the genus *Kniphofia* Moench (Asphodelaceae)". *AETFAT Conference*. Addis Ababa. Ethiopia. August 2006. 559-573.

**Barker,NP and McKenzie,RJ**

Howis,S, Barker,NP and McKenzie,RJ. "Can phylogeographic analysis of ITS data reveal causes of speciation in the South African Asteraceae? Three examples". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

**Barker,NP, McKenzie,RJ and Devos,N**

Barker,NP, McKenzie,RJ, Devos,N, Mucina,L, Bellstedt,D, Swelankomo,N, Källersjö,M and Nordenstam,B. "Is there a common biogeographic pattern of diversification in multiple lineages of southern African Asteraceae?". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

**Devos,N and Barker,NP**

Devos,N, Mucina,L and Barker,NP. "Molecular phylogeny of the subtribe Othonininae (Senecionaeae)". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

**Donald,G and Ripley,BS**

Donald,G and Ripley,BS. "Adaptation of C<sub>4</sub> grass species to fires evidenced by the contrasting regrowth to burning of C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *British Ecological Society*. Oxford. UK. September 2006.

**McKenzie,RJ and Barker,NP**

Karis,P-O, Funk,VA, McKenzie,RJ and Barker,NP. "Arctotideae; clades, grades and whereabouts". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

McKenzie,RJ, Barker,NP, Muller,EM and Mitchell,SD. "Evolution and radiation of subtribe Arctotidinae (Arctotideae) as inferred by multiple molecular data sets and morphology". *The International Compositae Alliance Meeting (TICA)*. Barcelona. Spain. July 2006.

**Ripley,BS**

Gilbert,ME, Ripley,BS and Pammenter,NW. "Adaptation of C<sub>4</sub> grass species to fires evidenced by the contrasting regrowth to burning of C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *British Ecological Society*. Oxford. UK. September 2006.

Ibrahim,DG, Osborne,CP, Burke,TA, Gilbert,ME, Ripley,BS and Schwarzacher,T. "The origin and consequences of C<sub>4</sub> photosynthesis in *Alloteropsis semialata*". *American Society of Plant Biologists*. Boston. USA. August 2006.

Ibrahim,DG, Osborne,CP, Burke,TA, Gilbert,ME, Ripley,BS and Schwarzacher,T. "The origin and consequences of C<sub>4</sub> photosynthesis in *Alloteropsis semialata*". *British Ecological Society*. London. UK. September 2006.

Ibrahim,DG, Osborne,CP, Gilbert,ME and Ripley,BS. "Plant-climate interactions in C<sub>3</sub> and C<sub>4</sub> subspecies of *Alloteropsis semialata*". *Comparative Biochemistry and Physiology*. 2006. Part A, 143. 180.

Osborne,CP, Ibrahim,DG, Wythe,E, Alimon,H and Ripley,BS. "Low temperature limitation of C<sub>4</sub> plants: inherent cost or evolutionary legacy?". *American Society of Plant Biologists*. Boston. USA. August 2006.

**Teske,PR and Barker,NP**

Papadopoulos,I, Teske,PR, Newman,B, Wooldridge,TH and Barker,NP. "Conflicting data on the crown crab, *Hymenosoma orgiculare*: is there more than meets the eye?". *SASSAQ/PSA Joint Conference*. Maputo. Mozambique. June 2006.

Teske,PR, Papadopoulos,I, Newman,B, McQuaid,CD and Barker,NP. "Cryptic speciation along the southern African coast have we underestimated marine biodiversity?". *SASSAQ/PSA Joint Conference*. Maputo. Mozambique. June 2006.

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

Cocks,ML and Dold,AP. Designer. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa". Bayworld Port Elizabeth Museum Complex. Port Elizabeth. January - June 2006.

Cocks,ML and Dold,AP. Designer. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa". Albany Museum. Grahamstown. June - December 2006.

Cocks,ML and Dold,AP. Designer. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa". Wageningen Public Library. Wageningen, Netherlands. 10 - 15 October 2006.

## 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.

Dr PH Weston. Royal Botanic Gardens, Sydney, Australia. Visiting lecturer for undergraduate course. February-April 2006.

## JOURNAL SUBSIDY UNITS

BOTANY	UNITS
<b>Barker,NP</b>	
Robertson,MP and Barker,NP. "A technique for evaluating species richness maps generated from collections data". <i>South African Journal of Science</i> . 2006. 102,77-84.	0.50
Verboom,GA, Ntoshi,R and Barker,NP. "Molecular phylogeny of African <i>Rytidosperma</i> -affiliated Danthonioid grasses reveals generic polyphyly and convergent in spikelet morphology". <i>Taxon</i> . 2006. 55(2),337-348.	0.34
<b>Dold,AP</b>	
Dold,AP. " <i>Ceropegia macmasteri</i> (Apocynaceae Asclepiadoideae Ceropegieae) a new species from Eastern Cape South Africa". <i>South African Journal of Botany</i> . 2006. 72,144-146.	1.00
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". <i>Environment, Development and Sustainability</i> . 2006. 8,519-533.	0.25
Cocks,ML and Dold,AP. "Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". <i>Journal of Ethnobiology</i> . 2006. 26(1),60-81.	0.50
Dold,AP and Brink,E. "Hyacinthaceae. <i>Drimia montana</i> (Urgineoideae) a new species from Eastern Cape South Africa". <i>Bothalia</i> . 2006. 36(1),64-66.	0.50
Venter,HJT, Dold,AP, Verhoeven,RL and Ionta,G. " <i>Kappia lobulata</i> (Apocynaceae Periplocoideae) a new genus from South Africa". <i>South African Journal of Botany</i> . 2006. 72(4),529-533.	0.25
<b>Lubke,R</b>	
Pote,J, Shackleton,CM, Cocks,ML and Lubke,R. "Fuelwood harvesting and selection in Valley Thicket, South Africa". <i>Journal of Arid Environments</i> . 2006. 67,270-287.	0.50
<b>McKenzie,RJ and Barker,NP</b>	
McKenzie,RJ, Herman,PPJ and Barker,NP. " <i>Arctotis Decurrens</i> (Arctotideae), The correct name for <i>A. Merxmülleri</i> and <i>A. Scullyi</i> ". <i>Bothalia</i> . 2006. 36(2),171-173.	0.67
McKenzie,RJ, Mitchell,SD and Barker,NP. "A new Species of <i>Arctotis</i> (Compositae, Arctotideae) from kommetjie grassland in Eastern Cape Province, South Africa". <i>Botanical Journal of the Linnean Society</i> . 2006. 151,581-588.	1.00
McKenzie,RJ, Muller,EM, Skinner,A, Karis,PO and Barker,NP. "Phylogenetic relationships and generic delimitation in subtribe Arctotidinae (Asteraceae: Arctotideae) inferred by DNA sequence data from ITS and five chloroplast regions". <i>American Journal of Botany</i> . 2006. 93(8),1222-1235.	0.80
<b>Peter,CI</b>	



<i>Peter, CI and Johnson, SD. "Anther Cap Retention Prevents Self-pollination by Elaterid Beetles in the South African Orchid Eulophia foliosa". Annals of Botany. 2006. 97(doi:10.1093/aob/mcj041),345-355.</i>	0.25
<i>Peter, CI and Johnson, SD. "Doing the twist: a test of Darwin's cross-pollination hypothesis for pollinarium reconfiguration". Biology Letters. 2006. 2(doi: 10.1098/rsbl.2005.0385),65-68.</i>	0.25
<b>Phillipson, P</b>	
<i>Addi, A, Phillipson, P and Hepburn, HR. "Floral resources of Apis mellifera capensis in the fynbos biome in the Eastern Cape Province, South Africa". African Entomology. 2006. 14(1),153-159.</i>	0.67
<b>Ripley, BS</b>	
<i>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.</i>	0.60
<b>Teske, PR</b>	
<i>Lockyear, JF, Hecht, T, Kaiser, H and Teske, PR. "The distribution and abundance of the endangered Knysna seahorse, Hippocampus capensis (Pisces: Syngnathidae) in South African estuaries". African Journal of Aquatic Science. 2006. 31(2),275-283.</i>	0.25
<b>Teske, PR and Barker, NP</b>	
<i>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.</i>	0.38
<b>Vetter, S</b>	
<i>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.</i>	0.20
<i>Vetter, S, Goqwana, WM, Bond, WJ and Trollope, WSW. "Effects of land tenure geology and topography on vegetation and soils of two grassland types in South Africa". African Journal of Range and Forage Science. 2006. 23(1),13-27.</i>	0.25
<b>TOTAL FOR BOTANY</b>	<b>9.16</b>

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

<b>BOTANY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Mannheimer	Barker	M	1.00
Skinner	Botha	M	1.00
Ade-Ademilua	Botha	D	3.00
<b>TOTAL</b>			<b>5.00</b>

## 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 Bediou (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

*Davies-Coleman,MT*. "Secondary Metabolites from the Marine Gastropod Molluscs of Antarctica, Southern Africa and South America". In: Cimino,G and Gavagnin, M (eds) Molluscs. From Chemo-ecological Study to Biotechnological Application [subseries Muller WEG Berlin(ed.) Marine Molecular Biotechnology]. Springer Berlin. Heidelberg: Germany. 2006. 43, 133-158. ISBN:3-540-30879-2.

### Nyokong,T

*Nyokong,T*. "Electrodes modified with Monomeric M-N4 Catalysts for the Detection of Environmentally Important Molecules". In: Zagal,JH, Bediou,F and Dodelet, J-P (eds) N4-macrocyclic metal complexes: electrocatalysis, electrophotochemistry, and biomimetic electrocatalysis. Springer. New York. 2006. (7), 315-362. ISBN:0-387-28429-X.

### Ozoemena,KI and Nyokong,T

*Ozoemena,KI and Nyokong,T*. "Electrochemical Sensors Based on Phthalocyanine and Related Complexes". In: Grimes,CA, Dickey,EC and Mishko, MV (eds) Encyclopaedia of Sensors. American Scientific Publishers. California. 2006. 157-200.

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

### English,RB, Kaye,PT and Sewry,JD

*English,RB, Gelebe,AC, Kaye,PT and Sewry,JD*. "Benzodiazepine Analogues. Part 22. Conformational Analysis of Benzodioxepine and Benzoxathiepine Derivatives". *Journal of Chemical Research*. 2006. 8(22),512-514.

### Familoni,OB and Kaye,PT

*Familoni,OB, Klaas,PJ, Lobb,KA, Pakade,VE and Kaye,PT*. "The Baylis-Hillman Approach to Quinoline Derivatives". *Organic and Biomolecular Chemistry*. 2006. 4,3960-3965.

### 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.

Galwey,AK. "A view and a review of melting of alkali metal halide crystals. Part 3. Melting of solids: theories and mechanisms of fusion". *Journal of Thermal Analysis and Calorimetry*. 2006. 86(2),561-579.

Galwey,AK and Mortimer,M. "Compensation effects and compensation defects in kinetic and mechanistic interpretations of heterogeneous chemical reactions". *International Journal of Chemical Kinetics*. 2006. 38(7),464-473.

**Kaye,PT**

Duggan,AR, Kaye,PT and Cairn,MR. "Synthesis of Phenyl 2-Acryloyloxybornane-10-sulfonate Diastereomers". *Journal of Chemical Research*. 2006. 11,744-747.

Sabbagh,IT and Kaye,PT. "A Computational Study of Grubbs-type Catalysts: Structure and Application in the Degenerate Metathesis of Ethylene". *Journal of Molecular Structure-Theochem*. 2006. 763,37-42.

**Keyzers,RA and Davies-Coleman,MT**

Keyzers,RA, Northcote,PL and Davies-Coleman,MT. "Spongian Diterpenes from Marine Sponges". *Natural Product Reports*. 2006. 23,321-334.

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

Keyzers,RA, Gray,CA, Schleyer,MH, Whibley,CE, Hendricks,DT and Davies-Coleman,MT. "Malonganones A-C, novel tetraprenylated alkaloids from the Mozambique gorgonian *Leptogorgia gilchristi*". *Tetrahedron*. 2006. 62,2200-2206.

**Klein,RA and Davies-Coleman,MT**

Scheepers,BA, Klein,RA and Davies-Coleman,MT. "The synthesis of prenylated toluquinones and toluhydroquinones from a marine derived *Penicillium* fungus". *Tetrahedron Letters*. 2006. 47(47),8243-8246.

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

Lamprecht,E, Watkins,GM and Brown,ME. "The thermal decomposition of copper(II) oxalate revisited". *Thermochimica Acta*. 2006. 446,91-100.

**Nyokong,T**

Agboola,BO, Ozoemena,KI and Nyokong,T. "Electrochemical properties of benzylmercapto and dodecylmercapto tetra substituted nickel phthalocyanine complexes: Electrocatalytic oxidation of nitrite". *Electrochimica Acta*. 2006. 51,6470-6478.

Bedioui,F and Nyokong,T. "Self-assembled monolayers and electropolymerized thin films of phthalocyanines as molecular materials for electroanalysis". *Journal of Porphyrins and Phthalocyanines*. 2006. 9,1101-1115.

Mashazi,PN, Ozoemena,KI and Nyokong,T. "Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H<sub>2</sub>O<sub>2</sub> and fabrication of glucose biosensor". *Electrochimica Acta*. 2006. 52,177-186.

Nyokong,T, Ogunsipe,AO and Seotsanyana-Mokhosi,I. "Spectroscopic studies of the interaction between bovine serum albumin and non-transition metal phthalocyanines". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,356.

Obirai,JC, Hamadi,S, Ithurbide,A, Wartelle,C, Nyokong,T, Zagal,JC, Top,S and Bedioui,F. "UV-visible and Electrochemical Monitoring of Carbon Monoxide Release by Donor Complexes to Myoglobin Solutions and to Electrodes Modified with Films Containing Hemin". *Electroanalysis*. 2006. 18(17),1689-1697.

Ozoemena,KI, Pillay,J and Nyokong,T. "Preferential electrosorption of cobalt (II) tetra-aminophthalocyanine at single-wall carbon nanotubes immobilised on a basal plane pyrolytic graphite electrode". *Electrochemistry Communications*. 2006. 8,1391-1396.

Sehlotho,N and Nyokong,T. "Electrocatalytic oxidation of thiocyanate, L-cysteine and 2- mercaptoethanol by self-assembled monolayer of cobalt tetraethoxy thiophene phthalocyanine". *Electrochimica Acta*. 2006. 51,4463-4470.

Sehlotho,N and Nyokong,T. "Effects of ring substituents on electrocatalytic activity of manganese phthalocyanines towards the reduction of molecular oxygen". *Journal of Electroanalytical Chemistry*. 2006. 595,161-167.

Sehlotho,N, Nyokong,T, Zagal,JH and Bedioui,F. "Electrocatalysis of oxidation of 2-mercaptoethanol, L-cysteine and reduced glutathione by adsorbed and electrodeposited cobalt tetra phenoxypyrrole and tetra ethoxythiophene substituted phthalocyanines". *Electrochimica Acta*. 2006. 51,5125-5130.

Seotsanyana-Mokhosi,I, Kresfelder,T, Abrahamse,H and Nyokong,T. "The effect of Ge, Si and Sn phthalocyanine photosensitizers on cell proliferation and viability of human oesophageal carcinoma cells". *Journal of Photochemistry and Photobiology B-Biology*. 2006. 83,55-82.

Tau,P, Cook,MJ, Cammidge,AN and Nyokong,T. "Synthesis and electrochemical characterization of  $\alpha$ - and  $\beta$ -octasubstituted oxo(phthalocyaninato) titanium (IV) complexes". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,511.

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

Tau,P and Nyokong,T. "Synthesis and photophysical properties of octa-substituted phthalocyaninato oxotitanium(IV) derivatives". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,1040-1048.

Tau,P and Nyokong,T. "Unique electrochemical behaviour of tantalum(V) phthalocyanine". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,69-75.

Tau,P and Nyokong,T. "Synthesis and electrochemical characterisation of  $\alpha$ - and  $\beta$ - tetrasubstituted oxo(phthalocyaninato) titanium (IV) complexes". *Polyhedron*. 2006. 25,1802-1810.

Vilakazi,S and Nyokong,T. "A comparative study of some MPc complexes towards the detection of nitric oxide". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,912.

#### **Nyokong,T and Zhao,Z**

Nyokong,T, Zhao,Z and Ogunsipe,AO. "Design of phthalocyanine ligands for use in photosensitizers". *Journal of Porphyrins and Phthalocyanines*. 2006. 10,799.

#### **Ozoemena,KI and Nyokong,T**

Agboola,B, Ozoemena,KI and Nyokong,T. "Synthesis and electrochemical characterisation of benzylmercapto and dodecylmercapto tetra substituted cobalt, iron, and zinc phthalocyanines complexes". *Electrochimica Acta*. 2006. 51,4379-4387.

Agboola,BO, Ozoemena,KI and Nyokong,T. "Comparative efficiency of immobilized non-transition metal phthalocyanine photosensitisers for the visible light transformation of chlorophenols". *Journal of Molecular Catalysis A-Chemical*. 2006. 248,84-92.

Ozoemena,KI and Nyokong,T. "Comparative electrochemical and electrocatalytic studies of cobalt, iron and manganese phthalocyanine complexes axially". *Electrochimica Acta*. 2006. 51,2669-2677.

Ozoemena, KI and Nyokong, T. "Novel amperometric glucose biosensor based on an ether-linked cobalt(II) phthalocyanine-cobalt(II) porphyrin pentamer as novel redox mediator". *Electrochimica Acta*. 2006. 51,5131-5136.

Siswana, M, Ozoemena, KI and Nyokong, T. "Electrocatalysis of asulum on cobalt phthalocyanine modified multi-walled carbon nanotubes immobilized on a basal plane pyrolytic graphite electrode". *Electrochimica Acta*. 2006. 51,114-122.

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**

Mashazi, PN, Ozoemena, KI, Maree, DM and Nyokong, T. "Self-Assembled Monolayers (SAMs) of CoPc covalently attached onto a preformed Mercaptoethanol SAM: A Novel Method". *Electrochimica Acta*. 2006. 51,3489-3494.

**Ozoemena, KI, Zhao, Z and Nyokong, T**

Ozoemena, KI, Zhao, Z and Nyokong, T. "Electropolymerizable dicyanophenoxy cobalt (II) and iron (III) tetraphenylporphyrin complexes: Potential electrocatalysts". *Inorganic Chemistry Communications*. 2006. 9,223-227.

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

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

**Beukes, E and Kaye, PT**

Molefe, D, Ganto, M, Blatch, GL, Bradley, G, Beukes, E, Kaye, PT, Nchinda, AT and Prasad Vijajan, PR. "Towards the Development of Novel HIV-1 Protease Inhibitors". *First African Structural Biology Conference*. Wilderness. November 2006.

**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**

Durmus, M and Nyokong, T. "Synthesis and photodynamic activirt of tetra-substituted phthalocyanines". *37th International Conference on Coordination Chemistry (ICCC)*. Cape Town. August 2006.

**Kaye, PT**

Kaye, PT. "Mechanistic Perspectives on Application of Baylis-Hillman Methodology". *SACI National Convention Lecture*. University of KwaZulu-Natal, Durban. December 2006.

Lobb, KA and Kaye, PT. "Spiroterpenoids Scaffolds for the Construction of Novel Chiral Reagents". *Frank Warren Organic Chemistry Conference*. Cape Town. January 2006.

Molefe, D, Ganto, M, Blatch, GL, Bradley, G, Beukes, E, Kaye, PT, Nchinda, AT and Prasad Vijajan, PR. "Towards the development of novel HIV-1 protease inhibitors". *Frank Warren Conference*. UCT, Cape Town. January 2006.

**Klein, RA and Kaye, PT**

Ganto, M, Nyoni, D, Klein, RA and Kaye, PT. "Novel Approaches to Poly-Heterocyclic Systems Using Baylis-Hillman Methodology". *SACI National Convention Lecture*. University of KwaZulu-Natal, Durban. December 2006.

Gxoyiya,B, Molefe,D, Rashamuse,TJ, Rose,N, Salisu,S, Blatch,GL, Bradley,G, Kenyon,C, Klein,RA and Kaye,PT. "Novel Heterocyclic Systems as Potential HIV-1 Protease and Glutamine Synthetase Inhibitors". *SACI National Convention Lecture*. University of KwaZulu-Natal, Durban. December 2006.

**Nyokong,T**

Nyokong,T. "Design of phthalocyanine ligands for use in catalysis". *37th International Conference on Coordination Chemistry (ICCC)*. Cape Town. August 2006.

Chidawanyika,WJU and Nyokong,T. "Synthesis and photochemical properties of novel cadmium and mercury phthalocyanine complexes". *38th SACI Convention*. University of KwaZulu-Natal, Durban. December 2006.

Idowu,M and Nyokong,T. "Spectroscopic, photochemical and photophysical properties on non-transition metal phthalocyanines attached to magnetic fluid". *38th SACI Convention*. University of KwaZulu-Natal, Durban. December 2006.

Marais,E and Nyokong,T. "Degradation of 4-nitrophenol using redox active phthalocyanines". *38th SACI Convention*. University of KwaZulu-Natal, Durban. December 2006.

Matemadombo,F, Westbroek,P and Nyokong,T. "Novel modification of a glassy carbon electrode using aryl radicals and cobalt tetracarboxy phthalocyanine". *38th SACI Convention*. University of KwaZulu-Natal, Durban. December 2006.

Ozoemena,KI, Siswana,M, Pillay,J, Nyokong,T, Fernandes,I and Cook,MJ. "Rational co-ordination and electrocatalytic properties of metallophthalocyanine-carbon nanotube (MOC-CNT) complexes". *7th International Conference on Coordination Chemistry (ICCC)*. Cape Town. August 2006.

**Watkins,GM**

Watkins,GM. "Investigation of some metal organic framework compounds". *38th Convention of the South African Chemical Institute*. Durban. December 2006.

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

Watkins,GM, Bourne,SA, Brown,ME and Lamprecht,E. "A study of metal organic framework compounds involving copper(II) salts and 1, 2, 4, 5 - Benzenetetracarboxylic acid". *37th International Conference of Coordination Chemistry*. Cape Town. August 2006.

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

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

**Nyokong,T**

Nyokong,T. "Spectroscopic studies of the interaction between bovine serum albumin and non-transition metal phthalocyanines". *4th International Conference on Porphyrins and Phthalocyanines (ICPP-4)*. Rome. Italy. July 2006.

Abrahamse,H, Kresfelder,T, Horne,T, Cronje,M and Nyokong,T. "Apoptotic inducing ability of a novel photosensitizing agent, Ge sulfophthalocyanine, on oesophageal and breast cancer cell lines". *Proceedings of SPIE-The International Society for Optical Engineering (Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy XV)*. 2006. 6139.

Fogel,RD, Mashazi,PN, Nyokong,T and Limson,JL. "The use of the Quartz Crystal Microbalance with Dissipation for the design of improved metallophthalocyanine-glucose oxidase composite electrodes for glucose detection". *210th Electrochemistry Society Meeting*. Moon Palace Resort, Cancun. Mexico. November 2006.

Sehlotho,N, Griveau,S, Bedioui,F and Nyokong,T. "Cobalt phthalocyanine molecular electrode for the electrochemical investigation of the release of glutathione upon copper-catalysed decomposition of S-nitrosoglutathione". *Madica 2006 Electrochemistry Conference*. Tunisia. November 2006.

Sehlotho,N, Griveau,S, Ruillé,N, Boutjita,M, Nyokong,T and Bedioui,F. "Cobalt phthalocyanine-containing screen printed graphite electrodes for the electrocatalysis of oxidation of 2-mercaptoethanol and reduced glutathione: correlation between structure & properties". *Madica 2006 Electrochemistry Conference*. Tunisia. November 2006.

#### **Ozoemena,KI and Nyokong,T**

Agboola,B, Ozoemena,KI, Westbroek,P and Nyokong,T. "Synthesis and electrochemical characterisation of benzyl mercapto and dodecylthiol tetra substituted cobalt, iron, and zinc phthalocyanines complexes". *11th International Meeting on Electroanalytical Chemistry (ESEAC 2006)*. Bordeaux. France. June 2006.

Mashazi,PN, Ozoemena,KI, Westbroek,P and Nyokong,T. "Tetra carboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H<sub>2</sub>O<sub>2</sub> and fabrication of glucose biosensor". *11th International Meeting on Electroanalytical Chemistry (ESEAC 2006)*. Bordeaux. France. June 2006.

Mashazi,PN, Ozoemena,KI, Westbroek,P and Nyokong,T. "Potential applications of metallophthalocyanines (MPc) self-assembled monolayer on gold as an amperometric sensor for hydrogen peroxide and fabrication of a glucose oxidase". *Gold 2006 Conference*. University of Limerick, Limerick. Ireland. September 2006.

Mashazi,PN, Ozoemena,KI, Westbroek,P and Nyokong,T. "Self-assembled monolayer (SAM) of metal tetracarboxylic acid chloride phthalocyanine covalently attached onto a pre-formed 2-mercaptoethanol SAM: A novel method". *Gold 2006 Conference*. University of Limerick, Limerick. Ireland. September 2006.

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

##### **Nyokong,T**

Nyokong,T. Organized symposium. "Electronic spectroscopy as a probe for inter- and/or intramolecular interactions involving phthalocyanines or related macrocycles". *4th International Conference on Porphyrins and Phthalocyanines (ICPP-4)*. Rome, Italy. July 2006.

#### **DISTINGUISHED VISITORS**

Professor M Cook. University of East Anglia, Norwich, United Kingdom. Lectures. August 2006.

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

#### **JOURNAL SUBSIDY UNITS**

<b>CHEMISTRY</b>	<b>UNITS</b>
<b>English,RB, Kaye,PT and Sewry,JD</b>	
English,RB, Gelebe,AC, Kaye,PT and Sewry,JD. "Benzodiazepine Analogues. Part 22. Conformational Analysis of Benzodioxepine and Benzoxathiepine Derivatives". <i>Journal of Chemical Research</i> . 2006. 8(22),512-514.	0.75
<b>Familoni,OB and Kaye,PT</b>	
Familoni,OB, Klaas,PJ, Lobb,KA, Pakade,VE and Kaye,PT. "The Baylis-Hillman Approach to Quinoline Derivatives". <i>Organic and Biomolecular Chemistry</i> . 2006. 4,3960-3965.	1.00
<b>Galwey,AK</b>	
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?". <i>Journal of Thermal Analysis and Calorimetry</i> . 2006. 86(1),267-286.	1.00

<i>Galwey,AK. "A view and a review of melting of alkali metal halide crystals. Part 3. Melting of solids: theories and mechanisms of fusion". Journal of Thermal Analysis and Calorimetry. 2006. 86(2),561-579.</i>	1.00
<i>Galwey,AK and Mortimer,M. "Compensation effects and compensation defects in kinetic and mechanistic interpretations of heterogeneous chemical reactions". International Journal of Chemical Kinetics. 2006. 38(7),464-473.</i>	0.50
<b>Kaye,PT</b>	
<i>Duggan,AR, Kaye,PT and Caira,MR. "Synthesis of Phenyl 2-Acryloyloxybornane-10-sulfonate Diastereomers". Journal of Chemical Research. 2006. 11,744-747.</i>	0.67
<i>Sabbagh,IT and Kaye,PT. "A Computational Study of Grubbs-type Catalysts: Structure and Application in the Degenerate Metathesis of Ethylene". Journal of Molecular Structure-Theochem. 2006. 763,37-42.</i>	1.00
<b>Keyzers,RA and Davies-Coleman,MT</b>	
<i>Keyzers,RA, Northcote,PL and Davies-Coleman,MT. "Spongian Diterpenes from Marine Sponges". Natural Product Reports. 2006. 23,321-334.</i>	0.67
<b>Keyzers,RA, Gray,CA and Davies-Coleman,MT</b>	
<i>Keyzers,RA, Gray,CA, Schleyer,MH, Whibley,CE, Hendricks,DT and Davies-Coleman,MT. "Malonganenones A-C, novel tetraprenylated alkaloids from the Mozambique gorgonian Leptogorgia gilchristi". Tetrahedron. 2006. 62,2200-2206.</i>	0.50
<b>Klein,RA and Davies-Coleman,MT</b>	
<i>Scheepers,BA, Klein,RA and Davies-Coleman,MT. "The synthesis of prenylated toluquinones and toluhydroquinones from a marine derived Penicillium fungus". Tetrahedron Letters. 2006. 47(47),8243-8246.</i>	1.00
<b>Lamprecht,E, Watkins,GM and Brown,ME</b>	
<i>Lamprecht,E, Watkins,GM and Brown,ME. "The thermal decomposition of copper(II) oxalate revisited". Thermochimica Acta. 2006. 446,91-100.</i>	1.00
<b>Nyokong,T</b>	
<i>Agboola,BO, Ozoemena,KI and Nyokong,T. "Electrochemical properties of benzylmercapto and dodecylmercapto tetra substituted nickel phthalocyanine complexes: Electrocatalytic oxidation of nitrite". Electrochimica Acta. 2006. 51,6470-6478.</i>	0.67
<i>Bedioui,F and Nyokong,T. "Self-assembled monolayers and electropolymerized thin films of phthalocyanines as molecular materials for electroanalysis". Journal of Porphyrins and Phthalocyanines. 2006. 9,1101-1115.</i>	0.50
<i>Mashazi,PN, Ozoemena,KI and Nyokong,T. "Tetracarboxylic acid cobalt phthalocyanine SAM on gold: Potential applications as amperometric sensor for H<sub>2</sub>O<sub>2</sub> and fabrication of glucose biosensor". Electrochimica Acta. 2006. 52,177-186.</i>	0.67
<i>Obirai,JC, Hamadi,S, Ithurbide,A, Wartelle,C, Nyokong,T, Zagal,JC, Top,S and Bedioui,F. "UV-visible and Electrochemical Monitoring of Carbon Monoxide Release by Donor Complexes to Myoglobin Solutions and to Electrodes Modified with Films Containing Hemin". Electroanalysis. 2006. 18(17),1689-1697.</i>	0.25
<i>Ozoemena,KI, Pillay,J and Nyokong,T. "Preferential electrosorption of cobalt (II) tetra-aminophthalocyanine at single-wall carbon nanotubes immobilised on a basal plane pyrolytic graphite electrode". Electrochemistry Communications. 2006. 8,1391-1396.</i>	0.34
<i>Sehlotho,N and Nyokong,T. "Electrocatalytic oxidation of thiocyanate, L-cysteine and 2-mercaptoethanol by self-assembled monolayer of cobalt tetraethoxy thiophene phthalocyanine". Electrochimica Acta. 2006. 51,4463-4470.</i>	1.00
<i>Sehlotho,N and Nyokong,T. "Effects of ring substituents on electrocatalytic activity of manganese phthalocyanines towards the reduction of molecular oxygen". Journal of Electroanalytical Chemistry. 2006. 595,161-167.</i>	1.00
<i>Sehlotho,N, Nyokong,T, Zagal,JH and Bedioui,F. "Electrocatalysis of oxidation of 2-mercaptoethanol, L-cysteine and reduced glutathione by adsorbed and electrodeposited cobalt tetra phenoxypyrrole and tetra ethoxythiophene substituted phthalocyanines". Electrochimica Acta. 2006. 51,5125-5130.</i>	0.50
<i>Seotsanyana-Mokhosi,I, Kresfelder,T, Abrahamse,H and Nyokong,T. "The effect of Ge, Si and Sn phthalocyanine photosensitizers on cell proliferation and viability of human oesophageal</i>	0.50



carcinoma cells". <i>Journal of Photochemistry and Photobiology B-Biology</i> . 2006. 83,55-82.	
<i>Tau,P and Nyokong,T.</i> "Synthesis and electrochemical and photophysical properties of phthalocyaninato oxotitanium(IV) complexes tetra-substituted at the $\alpha$ - and $\beta$ -positions with arylthio groups". <i>Dalton Transactions</i> . 2006. 4482-4490.	1.00
<i>Tau,P and Nyokong,T.</i> "Synthesis and photophysical properties of octa-substituted phthalocyaninato oxotitanium(IV) derivatives". <i>Journal of Porphyrins and Phthalocyanines</i> . 2006. 10,1040-1048.	1.00
<i>Tau,P and Nyokong,T.</i> "Unique electrochemical behaviour of tantalum(V) phthalocyanine". <i>Journal of Porphyrins and Phthalocyanines</i> . 2006. 10,69-75.	1.00
<i>Tau,P and Nyokong,T.</i> "Synthesis and electrochemical characterisation of $\alpha$ - and $\beta$ -tetrasubstituted oxo(phthalocyaninato) titanium (IV) complexes". <i>Polyhedron</i> . 2006. 25,1802-1810.	1.00
<b>Ozoemena,KI and Nyokong,T</b>	
<i>Agboola,B, Ozoemena,KI and Nyokong,T.</i> "Synthesis and electrochemical characterisation of benzylmercapto and dodecylmercapto tetra substituted cobalt, iron, and zinc phthalocyanines complexes". <i>Electrochimica Acta</i> . 2006. 51,4379-4387.	1.00
<i>Agboola,BO, Ozoemena,KI and Nyokong,T.</i> "Comparative efficiency of immobilized non-transition metal phthalocyanine photosensitisers for the visible light transformation of chlorophenols". <i>Journal of Molecular Catalysis A-Chemical</i> . 2006. 248,84-92.	1.00
<i>Ozoemena,KI and Nyokong,T.</i> "Comparative electrochemical and electrocatalytic studies of cobalt, iron and manganese phthalocyanine complexes axially". <i>Electrochimica Acta</i> . 2006. 51,2669-2677.	1.00
<i>Ozoemena,KI and Nyokong,T.</i> "Novel amperometric glucose biosensor based on an ether-linked cobalt(II) phthalocyanine-cobalt(II) porphyrin pentamer as novel redox mediator". <i>Electrochimica Acta</i> . 2006. 51,5131-5136.	1.00
<i>Siswana,M, Ozoemena,KI and Nyokong,T.</i> "Electrocatalysis of asulum on cobalt phthalocyanine modified multi-walled carbon nanotubes immobilized on a basal plane pyrolytic graphite electrode". <i>Electrochimica Acta</i> . 2006. 51,114-122.	1.00
<i>Siswana,M, Ozoemena,KI and Nyokong,T.</i> "Electrocatalytic behaviour of carbon paste electrode modified with iron (II) phthalocyanine (FePc) nanoparticles towards the detection of amitrole". <i>Talanta</i> . 2006. 69,1136-1142.	1.00
<b>Ozoemena,KI, Maree,DM and Nyokong,T</b>	
<i>Mashazi,PN, Ozoemena,KI, Maree,DM and Nyokong,T.</i> "Self-Assembled Monolayers (SAMs) of CoPc covalently attached onto a preformed Mercaptoethanol SAM: A Novel Method". <i>Electrochimica Acta</i> . 2006. 51,3489-3494.	1.00
<b>Ozoemena,KI, Zhao,Z and Nyokong,T</b>	
<i>Ozoemena,KI, Zhao,Z and Nyokong,T.</i> "Electropolymerizable dicyanophenoxy cobalt (II) and iron (III) tetraphenylporphyrin complexes: Potential electrocatalysts". <i>Inorganic Chemistry Communications</i> . 2006. 9,223-227.	1.00
TOTAL FOR CHEMISTRY	26.52

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

<b>CHEMISTRY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Matemadombo	Nyokong	M	1.00
Pakade	Kaye/Davies-Coleman	M	1.00
Guthrie-Strachan	Watkins	D	3.00
Sabbach	Kaye	D	3.00
TOTAL			8.00

## COMPUTER SCIENCE

The research umbrella activity in Computer Science is the Centre of Excellence in Distributed Multimedia, funded by Telkom, Business Connexion, Comverse, 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 proto-type 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**

*Terzoli,A, Dalvit,L, Murray,S, Mini,B and Zhao,XG. "Producing and sharing ICT-Based Knowledge through English and African Languages at a South African University". South African Journal of Higher Education. 2006. 19,1486-1498.*

##### **Wells,GC**

*Wells,GC. "New and Improved: Linda in Java". Science of Computer Programming. 2006. 59,82-96.*

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

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

##### **Bangay,S**

*Bangay,S and Morkel,C. "Graph matching with subdivision surfaces for texture synthesis on surfaces". 4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. January 2006. 65-74.*

*Glass,KR and Bangay,S. "Hierarchical Rule Induction for Speaker Identification in Fiction Books". Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT). Cape Winelands, Cape Town. October 2006. 31-40.*

*Glass,KR, Morkel,C and Bangay,S. "Duplicating road patterns in south african informal settlements using procedural techniques". 4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. January 2006. 161-169.*

*Marsh,M, Bangay,S and Lobb,A. "Implementing the 'GrabCut' segmentation technique as a plugin for the GIMP". 4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. January 2006. 171-175.*

*Morkel,C and Bangay,S. "Procedural modeling facilities for hierarchical object generation". 4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. January 2006. 145-154.*

##### **Bangay,S and Foster,G**

*Moyo,T, Bangay,S and Foster,G. "The identification of mammalian species through the classification of hair patterns using image pattern recognition". 4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. January 2006. 177-181.*

##### **Biko,C and Terzoli,A**

*Dalvit,L, Alfonsi,R, Biko,C, Terzoli,A and Thinyane,M. "Ubuntu in action: a new approach to teacher training in information and communication technology (ICT)". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.*

##### **Brandt,IG**

*Hodgkinson-Williams,CA and Brandt,IG. "Collaborative learning: Building a virtual community of practice to enable ICT take-up in schools in the Grahamstown District". e/merge 2006 (<http://emerge2006.net>). UCT, Cape Town. July 2006.*

**Clayton,P and Terzoli,A**

Duff,K, Clayton,P and Terzoli,A. "Synchronization for IP-Layer TDM on Ad-Hoc Wireless Mesh Networks". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 21-26.

**Forrester,JI**

Forrester,JI. "Implementation of an ICT Research Portal for Academic Departments". *8th Annual South African Conference on World Wide Web Applications*. Bloemfontein. September 2006. 3-13.

**Forrester,JI and Irwin,BVW**

Forrester,JI and Irwin,BVW. "Forensic Tools in Academic Support". *36th Annual Conference of the Southern African Computer Lecturers Association (SACLA)*. Lord Charles Hotel, Somerset West. June 2006. 59-68.

Forrester,JI and Irwin,BVW. "A Digital Forensic Investigative Model for Commercial Organisations". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 36.

**Foster,G and Foss,R**

Sibanda,P, Foster,G and Foss,R. "Connection Management and User Interface Design for the Audio Industry". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 527-528.

**Irwin,BVW**

Janse van Rensburg,HJ and Irwin,BVW. "A discussion of Wireless Security Technologies". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 37.

Janse van Rensburg,HJ, Irwin,BVW and Zhao,XG. "Design considerations for a reliable and secure wireless network". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 43-48.

Miles,S and Irwin,BVW. "An Investigation into De-Perimeterisation". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 495-496.

Van Riel,J-P and Irwin,BVW. "InetVis, a Visual Tool for Network Telescope traffic Analysis". *4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa*. Cape Town. January 2006. 85-89.

Van Riel,J-P and Irwin,BVW. "Identifying and Investigating Intrusive Scanning Patterns by Visualizing Network Telescope Traffic in a 3-D Scatter-plot". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 1-12.

Van Riel,J-P and Irwin,BVW. "Toward Visualised Network Intrusion Detection". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 543-544.

White,DSD and Irwin,BVW. "Monthly Patch Release Schedules: Do the Benefits Outweigh the Risks?". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 1-18.

**Irwin,BVW and Slay,H**

Otten,FJ, Irwin,BVW and Slay,H. "The Need for Centralised, Cross Platform Information Aggregation". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 1-12.

Otten,FJ, Irwin,BVW and Slay,H. "Centralised, cross platform monitoring in a distributed softswitch environment". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 519-520.

**Irwin,BVW and Terzoli,A**

Clayton,B, Irwin,BVW and Terzoli,A. "Integrating secure RTP into the open source VOIP PBX Asterisk". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 1-12.

**Irwin,BVW and Wright,MK**

Moyo,T, Irwin,BVW and Wright,MK. "Towards central vulnerability management by mobile phone operators". *6th Annual Information Security South Africa*. Balalaika Hotel, Sandton. July 2006. 43.

Moyo,T, Irwin,BVW and Wright,MK. "Securing Mobile Commerce interactions through secure mobile web service". *8th Annual South African Conference on World Wide Web Applications*. Bloemfontein. September 2006. 3-14.

Moyo,T, Irwin,BVW and Wright,MK. "Towards a Secure Service Oriented Architecture for Mobile Computing". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 501-502.

**Slay,H**

Slay,H and Thomas,B. "Interaction and Visualisation across Multiple Displays in Ubiquitous Computing Environments". *4th International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa*. Cape Town. January 2006. 75-84.

**Slay,H and Wentworth,EP**

Slay,H, Locke,J and Wentworth,EP. "BingBee, an Information Kiosk for Social Enablement in Marginalized Communities". *Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists (SAICSIT)*. Cape Town. October 2006. 107-116.

**Slay,H, Terzoli,A and Clayton,P**

Thinyane,M, Slay,H, Terzoli,A and Clayton,P. "A Preliminary Investigation into the Implementation of ICTs in Marginalized Communities". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 113-118.

**Terzoli,A**

Dalvit,L, Alfonsi,R, Mini,B, Murray,S and Terzoli,A. "Localisation of iLanga, a next generation PBX". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 471-472.

Dalvit,L, Murray,S, Mini,B and Terzoli,A. "Presence and performance of African students in the field of computer science at Rhodes University: A statistical approach". *Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA)*. Wilderness. November 2006.

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.

Nkomo,PT, Terzoli,A and Muyingi,HN. "An Open Smart Card Infrastructure for South African e-Services". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 167-173.

Whittington,B and Terzoli,A. "Presence is Beautiful: Integrating Legacy and IP Enabled Voice and Video Devices into a Presence Platform". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 143-146.

**Terzoli,A and Clayton,P**

King,A, Terzoli,A and Clayton,P. "Creating a low cost VoiceXML Gateway to replace IVR systems for rapid deployment of voice applications". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 131-136.

**Terzoli,A and Irwin,BVW**

Clayton,B, Terzoli,A and Irwin,BVW. "DRAPA -a flexible framework for evaluating the quality of VoIP components". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 121-124.

**Wells,GC and Terzoli,A**

Tsietsi,MJ, Wells,GC and Terzoli,A. "Investigating Interoperation Issues in the Peer to Peer SIP". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 539-540.

**Wentworth,EP**

Wentworth,EP. "The BingBee Community Project". *Microsoft Academic Days 2005/6*. Durban. February 2006.

**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**

Zhao,XG, Clayton,P, Wells,GC, Terzoli,A and Janse van Rensburg,HJ. "Peer-to-peer and Large-Scale Distributed Computing, Communication and Control Systems". *7th Asia-Pacific Conference on Control & Measurement*. Tibet. China. August 2006. 365-371.

**Foss,R**

Foss,R and Foulkes,P. "The Representation of, and Control over Mixing Desks via a Software-Based Matrix". *121st Audio Engineering Society Convention*. San Francisco. October 2006.

Foss,R, Fujimori,J, Chigwamba,N, Klinkrad,B and Okai-Tettey,H. "Networking for Hotels and Convention Centres". *120th Audio Engineering Society Convention*. Paris. June 2006.

**Irwin,BVW**

Janse van Rensburg,HJ, Irwin,BVW and Zhao,XG. "Wireless Network Visualization". *7th Asia-Pacific Conference on Control and Measurement*. Tibet. China. August 2006. 263-369.

**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.

Dalvit,L, Isabirye,N, Terzoli,A and Thinyane,M. "A case study on the teaching of computer training in a rural area in South Africa". *22nd CESE (Comparative Education Society of Europe)*. Granada Conference Palace, Granada. Spain. July 2006.

Whittington,B and Terzoli,A. "A low cost, IP-based access loop for consumer telephony in". *ICTe Africa*. Nairobi. May 2006.

**Wells,GC**

Wells,GC. "A Tuple Space Web Service for Distributed Programming". *International Conference on Parallel and Distributed Processing Techniques and Applications*. Las Vegas. June 2006. 1. 444-450.

**Wright,MK**

Wright,MK. "Web Services: yesterday's hype or tomorrow's promise". *Twelfth Australasian World Wide Web Conference*. Southern Cross University, Queensland. Australia. July 2006. 268-274.

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

**Brandt,IG**

Hodgkinson-Williams,CA, van der Merwe,A, Mardon,L and Brandt,IG. Workshop leader. *"Laptop Training for Education Development Officers"*. Rhodes University, Education Department. Grahamstown. 15 - 18 August 2006.

**Brandt,IG and Slay,H**

Hodgkinson-Williams,CA, Brandt,IG, Slay,H and Whittington,B. Workshop leader. *"ICTs for Education in the Eastern Cape Province"*. Seminar for Eastern Cape Education Department Head Office. East London. 23 August 2006.

**Slay,H and Brandt,IG**

Slay,H, Brandt,IG and Hodgkinson-Williams,CA. Workshop. *"eBeam User Study Report"*. Eastern Cape Education Department. East London. December 2006.

**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**

Mr R Alfonsi. University of Pisa, Pisa, Italy. Research. May-December 2006.

Mr B Booy. COO: Amatole Telecommunications. Research Collaboration Agreement. November 2006.

Mr D Browne. Manager: Centres of Excellence, Telkom. Research Collaboration Agreement. November 2006.

Mr I Carty. Business Connexion. Research Collaboration. November 2006.

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

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

Mr S Jans. Director: Comverse SA Pty Ltd. Research Collaboration. March 2006.

Mr B Khohliso. Managing Director; Mars Technologies. Research Collaboration Agreement. November 2006.

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

Mr K Mistelli. Director: Tellabs SA. Research Collaboration. March 2006.

Dr D Riordan. Dalhousie University, Halifax, Canada. Sabbatical Visit, Joint Research & Postgraduate Seminars. February-April 2006.

Mr T Sanderson. Director: Verso Technologies. Research Collaboration. March 2006.

Professor E Sutinen. Joensuu University, Joensuu, Finland. Sabbatical Visit, Joint Research & Workshop. March 2006.

Mr C van der Walt. Sensepost. Research Collaboration. November 2006.

Mr J van Graan. Sensepost. Research Collaboration. November 2006.

Mr Z von Plato. Director: Storage Technology Services. Research Collaboration. March 2006.

Mr A Woodhead. TTY, Netherlands. Seminar. March 2006.

#### JOURNAL SUBSIDY UNITS

COMPUTER SCIENCE	UNITS
<b>Terzoli,A</b>	
<i>Terzoli,A, Dalvit,L, Murray,S, Mini,B and Zhao,XG. "Producing and sharing ICT-Based Knowledge through English and African Languages at a South African University". South African Journal of Higher Education. 2006. 19,1486-1498.</i>	0.60
<b>Wells,GC</b>	
<i>Wells,GC. "New and Improved: Linda in Java". Science of Computer Programming. 2006. 59,82-96.</i>	1.00
TOTAL FOR COMPUTER SCIENCE	1.60

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

COMPUTER SCIENCE			
STUDENT	SUPERVISOR/S	M/D	UNITS
Black	Foss/Klinkrad	M	1.00
Brandt	Terzoli/Hodgkinson-Williams	M	1.00
Hitchcock	Clayton/Terzoli	M	1.00
Kwinana	Terzoli/Wentworth	M	1.00
Morkel	Bangay/Clayton	M	0.50
Motara	Irwin	M	1.00
Thinyane	Clayton/Foster	M	1.00
West	Clayton/Foster	M	1.00
Wright	Clayton	M	1.00
Okia-Tettey	Foss	D	3.00
TOTAL			11.50



## DICTIONARY UNIT

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

#### Pienaar,L

*Pienaar,L.* "The Heart of the Matter - methodological challenges in developing a contemporary reading programme for monolingual lexicography". *Lexikos*. 2006. 16,257-269.

### JOURNAL SUBSIDY UNITS

DICTIONARY UNIT	UNITS
<b>Pienaar,L</b>	
<i>Pienaar,L.</i> "The Heart of the Matter - methodological challenges in developing a contemporary reading programme for monolingual lexicography". <i>Lexikos</i> . 2006. 16,257-269.	1.00
TOTAL FOR DICTIONARY UNIT	1.00

## **DRAMA**

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**

*De Wet,R*. Missing & Crossing. Iridanos Publication (eds) Iridanos Publications. Athens. 2006.

*De Wet,R*. The Brothers. Oberon Books Ltd. London. 2006. 84 pp.

**Sutherland,AEM**

*Sutherland,AEM.* "Making visible the invisible: Drama as voice for youth at risk in a South African context". In: McCammom,L and O'Toole, J (eds) *The Universal Mosaic of drama and theatre: The IDEA* 2004. IDEA publications. Vancouver. 2006.

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

*Gehring,H.* "Vrypas: Breaking Boundaries Between Acting and Dance". *Dramatic Learning Spaces*. University of Pietermaritzburg, Pietermaritzburg. September 2006.

**Gordon,GE**

*Gordon,GE.* "Re-configuring the theatrical presence of Bessie Head in First Physical's Bessie's Head". *Dramatic Learning Spaces: A National Research Conference*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

**Jordaan,M**

*Jordaan,M.* "Ballancing the scales : authorship/ownership in collaboration". *Dramatic Learning Spaces: A National Research Conference*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

**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.

*Tang,CWA.* "Corporeal knowledge and pleasure in theatre research: The case of looking at theatre photographs". *Dramatic Learning Spaces: A National Research Conference*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

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

*Buckland,AF.* Performer. *"Between The Teeth"*. Western Cape Schools Festival. Artscape Theatre. Cape Town. 14 - 15 March 2006.

*Buckland,AF.* Adaptor and Director. *"Jack Slater Monster Investigator"*. Rhodes University. Rhodes University Theatre. Grahamstown. 23 - 29 March 2006.

*Buckland,AF.* Writer. *"Amathole Heritage Plays"*. Amathole Heritage Tour. Various venues (21). 3 April - 15 May 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. Arts Theatre. East London. 5 - 6 April 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. North West Schools' Festival. International School. Mafikeng. 20 - 21 April 2006.

*Buckland,AF.* Performer. *"Between The Teeth"*. St Stithian's College. Johannesburg. 3 May 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. St Andrew's School. Johannesburg. 12 May 2006.

*Buckland,AF.* Workshop Leader. *"Physical theatre"*. Sacred Heart College. Johannesburg. 15 May 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. St Stithian's College. Johannesburg. 16 May 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. Cornwill Hill High School. Johannesburg. 17 May 2006.

*Buckland,AF.* Performer. *"The Ugly Noo Noo"*. St. Mary's School. Johannesburg. 18 May 2006.

*Buckland,AF.* Workshop Leader. *"Physical theatre"*. St. Mary's School. Johannesburg. 19 May 2006.

*Buckland,AF.* Performer. *"Footskating 101"*. Feature Film. Location. Johannesburg. 24 May - 24 July 2006.

*Buckland,AF.* Adaptor and Director. *"Jack Slater Monster Investigator"*. National Arts Festival Fringe. DSG. Grahamstown. 29 June - 8 July 2006.

*Buckland,AF.* Writer. *"Kiss My Boot"*. National Arts Festival Fringe. Grahamstown. 29 June - 8 July 2006.

*Buckland,AF.* Writer. *"Kiss My Boot"*. Eastern Cape Schools Tour. Various venues and towns (29). 24 July - 1 September 2006.

*Buckland,AF.* Performer. *"Truth in Translation"*. Pan African Festival of Dance. French Cultural Institute. Kigali, Rwanda. 1 - 13 August 2006.

*Buckland,AF.* Writer. *"Kiss My Boot"*. Rhodes University. Rhodes University Theatre. Grahamstown. 12 August 2006.

*Buckland,AF.* Writer. *"Kiss My Boot"*. Nelson Mandela University. Nelson Mandela University Theatre. Port Elizabeth. 17 August 2006.

*Buckland,AF.* Performer. *"Truth in Translation"*. Market Theatre. Johannesburg. 1 - 24 September 2006.

*Buckland,AF.* Performer. *"Street Theatre Festival"*. Sandton Business District Street Theatre Festival. Sandton Business District. Johannesburg. 14 - 23 September 2006.

*Buckland,AF.* Adaptor and Director. *"Jack Slater Monster Investigator"*. Hilton Arts Festival. Hilton College Theatre. Hilton. 16 - 17 September 2006.

*Buckland,AF.* Performer. *"Betrayal"*. Baxter Theatre. Baxter Studio Theatre. Cape Town. 1 November - 2 December 2006.

**Buckland,JM**

*Buckland,JM.* Director/Choreographer. *"The Triplets of Tanti"*. East London Arts Theatre Club. East London. 10 - 11 February 2006.

*Buckland,JM.* Director. *"Amathole heritage Plays"*. Amathole Heritage Eastern Cape Tour. Various venues (21). 3 April - 15 May 2006.

*Buckland, JM.* Director. *"Kiss My Boot"*. National Arts Festival Fringe. Grahamstown. 29 June - 8 July 2006.

*Buckland, JM.* Director/Choreographer. *"The Triplets of Tanti"*. National Arts Festival Fringe. Grahamstown. 1 - 5 July 2006.

*Buckland, JM.* Director/Choreographer. *"The Triplets of Tanti"*. National Schools Festival. Grahamstown. 14 July 2006.

*Buckland, JM.* Director. *"Kiss My Boot"*. Eastern Cape Tour. Various venues (29). 24 July - 1 September 2006.

*Buckland, JM.* Director. *"Kiss My Boot"*. Rhodes University. Rhodes University Theatre. Grahamstown. 12 August 2006.

*Buckland, JM.* Director. *"Kiss My Boot"*. Nelson Mandela University. Nelson Mandela University Theatre. Port Elizabeth. 17 August 2006.

*Buckland, JM.* Director/Choreographer. *"The Triplets of Tanti"*. Hilton Festival. Hilton College Theatre. Hilton. 16 - 17 September 2006.

#### **De Wet, R**

*De Wet, R.* Playwright & translator. *"The Brothers"*. Aardklop Festival. University Theatre Potchefstroom. Potchefstroom. 26 - 28 September 2006.

*De Wet, R.* Playwright. *"Missing"*. Theatre 29. Parnithos 29 Kipseli. Athens, Greece. 2006.

#### **Elliott, N**

*Elliott, N.* Choreographer. *"Shades"*. New Voices. St Andrews Hall. Grahamstown. 28 June - 8 July 2006.

#### **Gehring, H**

*Gehring, H.* Creator/Director. *"Vrypas"*. Klein Karoo Nasionale Kunstefees. Laerskool Van Rheede. Oudtshoorn. 2 - 6 April 2006.

*Gehring, H.* Research production manager. *"Mrs Kaplan and the witch doctor"*. Setkani International Student Theatre Festival. Martha Theatre. Brno, Czech Republic. 8 - 13 April 2006.

*Gehring, H.* Creator/Director. *"Vrypas"*. National Arts Festival. PJ's. Grahamstown. 1 - 8 July 2006.

*Gehring, H.* Creator/Director. *"Expeditions to the Baobab Tree"*. National Arts Festival Main Programme. Botanical Gardens. Grahamstown. 1 - 8 July 2006.

*Gehring, H.* Performer. *"Iron Love"*. National Arts Festival. Drill Hall. Grahamstown. 1 - 8 July 2006.

*Gehring, H.* Creator/Director. *"Mina Nawe"*. National Schools Festivals. Various venues and towns nationally. 9 August - 30 November 2006.

#### **Gordon, GE**

*Gordon, GE.* Choreographer. *"Bessie's Head"*. Cape Town International Festival. Artscape Theatre. Cape Town. 24 - 25 March 2006.

*Gordon, GE.* Choreographer. *"Vrypas"*. KKNK Festival. Hill & Dale Kollegesaal. Oudtshoorn. 1 - 4 April 2006.

*Gordon, GE.* Choreographer. *"Bessie's Head"*. Maitisong Festival. Maru-A- Pula School Theatre. Gaborone, Botswana. 7 April 2006.

*Gordon,GE.* Choreographer. *"Bessie's Head"*. Eastern Cape Schools' Festival. Guy Butler Theatre. Grahamstown. 12 May 2006.

*Gordon,GE.* Artistic Director. *"New Voices 2006"*. 2006 National Arts Festival. St Andrews Hall. Grahamstown. 29 June - 8 July 2006.

*Gordon,GE.* Choreographer. *"Vrypas"*. 2006 National Arts Festival. PJ Olivier Theatre. Grahamstown. 29 June - 8 July 2006.

*Gordon,GE.* Performer. *"16 Kinds of Emptiness"*. 2006 National Arts Festival. The Nun's Chapel. Grahamstown. 29 June - 8 July 2006.

*Gordon,GE.* Choreographer. *"Bessie's Head"*. National Schools' Festival. Guy Butler Theatre. Grahamstown. 11 July 2006.

*Gordon,GE.* Choreographer. *"Bessie's Head"*. Institute for Chartered Accountants. Savoy Theatre. Port Elizabeth. 12 July 2006.

### **Jordaan,M**

*Jordaan,M.* Performer/creator. *"Stillie Water"*. Manley Flats Quarry. Grahamstown. March 2006.

*Jordaan,M.* Director. *"Love in the time of malaria"*. National Arts Student Festival. VG Gymnasium. Grahamstown. 29 June - 2 July 2006.

*Jordaan,M.* Director. *"Love in the time of malaria"*. National Arts Festival fringe. Masonic two. Grahamstown. 4 - 8 July 2006.

*Jordaan,M.* Performer/creator. *"Naartjiedreams of a Ballerina girl"*. Theatre in Motion. The Box Theatre. Grahamstown. 25 - 28 October 2006.

### **King,T**

*King,T.* Choreographer. *"Gray Dam One Morning"*. New Voices. St Andrews Hall. Grahamstown. 29 June - 8 July 2006.

### **Majola,S**

*Majola,S.* Choreographer. *"Exit"*. New Voices. St Andrews Theatre. Grahamstown. 29 June - 8 July 2006.

### **Parker,A**

*Parker,A.* Choreographer. *"Details of unfinished journey"*. Hilton Residency. St Annes. Hilton. 30 January - 3 February 2006.

*Parker,A.* Choreographer. *"Attic Stories"*. New Voices. St Andrews Hall. Grahamstown. 29 June - 8 July 2006.

*Parker,A.* Choreographer. *"The colourful lives of dead people"*. Theatre in Motion. RU Theatre. Grahamstown. October 2006.

### **Praeg,J**

*Praeg,J.* Facilitator Assistant Artistic Director. *"New Voices"*. New Voices. Selected Venues in Grahamstown. Grahamstown. 29 June - 8 July 2006.

*Praeg,J.* Choreographer. *"16 kinds of emptiness"*. 2006 National Arts Festival. Old Nun's Chapel. Grahamstown. 29 June - 8 July 2006.

*Praeg, J.* Choreographer. *"Stage(d) Directions"*. Theatre in Motion. The Rhodes University Theatre. Grahamstown. 25 - 28 October 2006.

**Snyman, B**

*Snyman, B.* Choreographer & Producer. *"Falling"*. The Black Tie Club. Roxbury Theatre. Grahamstown. 5 June 2006.

**Sutherland, AEM**

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

*Sutherland, AEM.* Director. *"Shot Cut Corner"*. School Tour. Victoria Girls High. Grahamstown. 22 June 2006.

*Sutherland, AEM.* Director. *"Shot Cut Corner"*. SEWSA Conference. Rhodes University. Grahamstown. 27 June 2006.

*Sutherland, AEM.* Director. *"Shot Cut Corner"*. National Arts Festival. Drostdy Lawn & Nombulelo High. Grahamstown. 1 - 5 July 2006.

*Sutherland, AEM.* Director. *"Shot Cut Corner"*. Contacting the World Festival. Contact Theatre. Manchester, UK. 15 - 16 July 2006.

*Sutherland, AEM.* Workshop Leader. *"Food Health, Nutrition and Art – using art to communicate science"*. British Council Food Health and Nutrition seminar series. 1820 Settlers Monument. Grahamstown. 15 August 2006.

*Sutherland, AEM.* Director. *"Understanding Hospice"*. Grahamstown Hospice education programme. Archie Mbolekwa Secondary School. Grahamstown. 3 - 4 October 2006.

*Sutherland, AEM.* Director. *"Understanding Hospice"*. Grahamstown Hospice education programme. CM Vellum Secondary School. Grahamstown. 5 October 2006.

*Sutherland, AEM.* Director. *"Understanding Hospice"*. Grahamstown Hospice education programme. Ntaba Maria Secondary School. Grahamstown. 6 October 2006.

**Tang, CWA**

*Tang, CWA.* Facilitator-choreographer. *"The Autobiography of Our Bodies"*. St. Anne's Diocesan College. Hilton. 30 January - 3 February 2006.

*Tang, CWA.* Facilitator. *"Painting with Movement"*. Eastern Cape Schools' Festival. Guy Butler Theatre. Grahamstown. 12 May 2006.

*Tang, CWA.* Performer. *"16 Kinds of Emptiness"*. National Arts Festival. Old Nun's Chapel. Grahamstown. 30 June - 8 July 2006.

*Tang, CWA.* Choreographer-performer. *"The Silent Wail of Melisande"*. National Arts Festival. Eden Grove. Grahamstown. 1 - 8 July 2006.

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

*Tang, CWA.* Choreographer-performer. Head Wrap, SABC1. Town Hall. Hamburg. 2 - 3 September 2006.

*Tang, CWA.* Archivist/Editor. *"Bessie's Head"*. October 2006.

**Tlholoe,T**

*Tlholoe,T.* Choreographer. *"Wrapt"*. New Voices. St Andrews Hall. Grahamstown. 29 June - 8 July 2006.

**DISTINGUISHED VISITORS**

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

Mr F le Roux. Ha! Productions, Johannesburg. To present postgraduate workshops. March 2006.

Ms C Micalleff. National Theatre, London, UK. Education officer : Running theatre workshops with Art of the Street project. April 2006.

Mr F Theron. Independent performer & theatre maker, Stellenbosch. Performer & Collaborator. March 2006.

Ms D Thornton. Contact Theatre, Manchester, UK. 2006.

Mr F Toerien. Toerien productions, Stellenbosch. Performer and collaborator. March -June 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.

**JOURNAL SUBSIDY UNITS**

<b>DRAMA</b>	<b>UNITS</b>
TOTAL FOR DRAMA	0.00

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

<b>DRAMA</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Edlman	Gordon/Sutherland	M	1.00
Tang	Gordon/Finestone-Praeg	M	1.00
<b>TOTAL</b>			2.00



## **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.

**PROFESSOR H. NEL**  
**HEAD OF DEPARTMENT**

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

### **Aziakpono,MJ**

*Aziakpono,MJ.* "Financial Integration amongst the SACU Countries: Evidence from Interest Rate Pass-Through Analysis". *Studies in Economics and Econometrics*. 2006. 30(2),1-23.

Takaendesa,P, *Tsheole,T* and *Aziakpono,MJ.* "Real Exchange Rate Volatility and its Effect on Trade Flows: New Evidence from South Africa". *Studies in Economics and Econometrics*. 2006. 30(3),79-97.

### **Faure,AP**

*Faure,AP.* "Fair value pricing of agricultural futures in South Africa". *South African Journal of Economics*. 2006. 74(2),261-265.

### **Fryer,DCA and Vencatachellum,D**

*Fryer,DCA* and *Vencatachellum,D.* "Returns to Education in South Africa: Evidence form the Machibisa Township". *African Development Review*. 2005. 17(3),335-591.

### **Juana,JS**

*Juana,JS.* "A quantitative analysis of Zimbabwe's land reform policy: An application of Zimbabwe SAM multipliers". *Agrekon*. 2006. 45(3),294-318.

### **Mentz,J**

*Shackleton,CM, McConnachie,M, Chauke,MI, Mentz,J, Sutherland,F, Gambiza,J* and *Jones,R.* "Urban fuelwood demand and markets in a small town in South Africa: Livelihood vulnerability and alien plant control". *International Journal of Sustainable Development and World Ecology*. 2006. 13,481-491.

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### **Snowball,JD**

*Snowball,JD* and *Willis,KG.* "Estimating the Marginal Utility of Different Sections of an Arts Festival: The Case of Visitors to the South African National Arts Festival". *Leisure Studies*. 2006. 25(1),43-56.

### **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 *Willis,KG.* "Building cultural capital: transforming the South African National Arts Festival". *South African Journal of Economics*. 2006. 74(1),1-14.

\*

### **Snowball,JD and Wilson,MK**

*Snowball,JD* and *Wilson,MK.* "What Matters in Economics Teaching and Learning? A Case Study of an Introductory Macroeconomics Course in South Africa". *Journal of College Teaching and Learning*. 2006. 3(11),59-70.

\*

### **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**

*Cattaneo,N* and *Dodd,S.* "Theoretical approaches to the analysis of trade and poverty and a review of related literature on South Africa". Trade and Poverty Project. SALDRU UCT. Cape Town. 2006. 1-28.

\*NOT AN ACCREDITED JOURNAL

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

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

**Aziakpono,MJ**

*Aziakpono,MJ.* "Implementation of new assessment methods in Financial Econometrics: Description, evaluation and reflection". *Conference on Assessment Method*. Academic Development Centre, Rhodes University, Grahamstown. September 2006.

**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**

*Mbatha,CN and Antrobus,GG.* "Geographical location and disempowerment: an historical study of the Kat River Basin, Eastern Cape province". *Agricultural Economics of South Africa: 44th Annual Conference 'The Changing Face of Agriculture'*. Settler's Monument, Grahamstown. September 2006.

**Snowball,JD**

*Snowball,JD.* "Breaking into the conversation: cultural value and the role of the South African National Arts Festival from apartheid to democracy". *South Eastern Workshop on Southern Africa*. Rhodes University, Grahamstown. June 2006.

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

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

**Aziakpono,MJ**

*Aziakpono,MJ.* "Financial Integration among the SACU Countries: An Exploration of the Depth and Its Effects". *33rd Annual Meeting of Academy of Economics and Finance*. Houston. USA. February 2006.

*Aziakpono,MJ and Khomo,MM.* "Forecasting Recession in South Africa: A Comparison of the Yield Curve and other Economic Indicators". *11th Annual Conference of the African Econometric Society*. Dakar. Senegal. July 2006.

*Aziakpono,MJ and Takaendesa,P.* "An Empirical Analysis of the Determinants of Real Exchange Rate Behaviour in South Africa". *11th Annual Conference of the African Econometric Society*. Dakar. Senegal. July 2006.

**Juana,JS**

*Juana,JS, Kirsten,JF and Strzepek,KM.* "Inter-sectoral water use in South Africa: efficiency versus equity". *26th International Association of Agricultural Economist Conference*. Gold Coast. Australia. August 2006. 1-16.

*Strzepek,KM, Juana,JS and Kirsten,JF.* "Marginal productivity analysis of global inter-sectoral water demand". *26th International Association of Agricultural Economist Conference*. Gold Coast. Australia. August 2006. 1-11.

**Mbatha,CN and Antrobus,GG**

*Mbatha,CN and Antrobus,GG.* "Economic institutions: An historical review of the policy formulation process in South Africa's agricultural sector". *62nd International Atlantic Economic Conference*. Philadelphia. USA. October 2006.

**Snowball,JD and Webb,ACM**

*Snowball,JD and Webb,ACM. "Breaking into the conversation: cultural value and the role of the South African National Arts Festival from apartheid to democracy". Association of Cultural Economics International: 14th International Conference. Vienna. Austria. July 2006.*

**JOURNAL SUBSIDY UNITS**

<b>ECONOMICS AND ECONOMIC HISTORY</b>	<b>UNITS</b>
<b>Aziakpono,MJ</b>	
<i>Aziakpono,MJ. "Financial Integration amongst the SACU Countries: Evidence from Interest Rate Pass-Through Analysis". Studies in Economics and Econometrics. 2006. 30(2),1-23.</i>	1.00
<i>Takaendesa,P, Tsheole,T and Aziakpono,MJ. "Real Exchange Rate Volatility and its Effect on Trade Flows: New Evidence from South Africa". Studies in Economics and Econometrics. 2006. 30(3),79-97.</i>	0.67
<b>Faure,AP</b>	
<i>Faure,AP. "Fair value pricing of agricultural futures in South Africa". South African Journal of Economics. 2006. 74(2),261-265.</i>	0.50
<b>Fryer,DCA and Vencatachellum,D</b>	
<i>Fryer,DCA and Vencatachellum,D. "Returns to Education in South Africa: Evidence form the Machibisa Township". African Development Review. 2005. 17(3),335-591.</i>	1.00
<b>Juana,JS</b>	
<i>Juana,JS. "A quantitative analysis of Zimbabwe's land reform policy: An application of Zimbabwe SAM multipliers". Agrekon. 2006. 45(3),294-318.</i>	1.00
<b>Mentz,J</b>	
<i>Shackleton,CM, McConnachie,M, Chauke,MI, Mentz,J, Sutherland,F, Gambiza,J and Jones,R. "Urban fuelwood demand and markets in a small town in South Africa: Livelihood vulnerability and alien plant control". International Journal of Sustainable Development and World Ecology. 2006. 13,481-491.</i>	0.14
<b>Snowball,JD and Antrobus,GG</b>	
<i>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.</i>	1.00
<b>Snowball,JD and Willis,KG</b>	
<i>Snowball,JD and Willis,KG. "Building cultural capital: transforming the South African National Arts Festival". South African Journal of Economics. 2006. 74(1),1-14.</i>	1.00
<b>TOTAL FOR ECONOMICS AND ECONOMIC HISTORY</b>	<b>6.31</b>

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

<b>ECONOMICS AND ECONOMIC HISTORY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Ali	Cattaneo/Fryer	M	1.00
Duff	Fryer	M	1.00
Khomo	Aziakpono	M	0.50
Lehobo	Aziakpono/Faure	M	0.50
Munene	Mather	M	0.50
Nonxuba	Nel	M	1.00
Schechter	Fruer	M	1.00
Turner	Mather	M	0.50
Snowball	Webb	D	3.00
<b>TOTAL</b>			<b>9.00</b>

## 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**

*RUMEP, Brown,B and Schäfer,M.* Maths for Life: Mathematical Literacy Teachers Guide for grade 11. Juta Gariep. Lansdowne. 2006.

*RUMEP, Brown,B, Schäfer,M and Jacot-Guillarmod,P.* Maths for Life: Mathematical Literacy Learners book for grade 11. Juta Gariep. Lansdowne. 2006.

### **Ketlhoelwe,MJ**

*Ketlhoelwe,MJ.* Course evaluation: A sourcebook for environmental and sustainability education in southern Africa. Share-Net. Howick. 2006. 82 pp.

### **Lotz-Sisitka,H**

*Lotz-Sisitka,H.* "Enabling environmental and sustainability education in South Africa's national curriculum: Context, culture and learner aspirations for agency". In: Chi-Kin Lee, J (eds) Environmental and Geographic Education for Sustainability: Cultural Contexts. NOVA. New York. 2006. 321-334.

*Lotz-Sisitka,H.* "Engaging ambivalence: Environment in South Africa's new national curriculum statement". In: Filho, W (eds) Innovative Approaches to Education for Sustainable Development. Peter Lang. Frankfurt. 2006. 25, 147-152.

*Lotz-Sisitka,H and Lupele,J.* "Curriculum Transformation in Higher Education Institutions: Some perspectives from Africa". In: Holmberg,J and Samuelson, B (eds) Drivers and Barriers for Implementing Sustainable Development in Higher Education. UNESCO. Paris. 2006. 49-54.

**Lotz-Sisitka,H and O'Donoghue,R**

Jickling,B, *Lotz-Sisitka,H, O'Donoghue,R* and Ogbuigwe,A. Environmental Education, Ethics and Action: A workbook to get started. United Nations Environment Programme. Nairobi. 2006. 48 pp.

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

*Lotz-Sisitka,H, Shudel,I, O'Donoghue,R* and *Irwin,P.* "Schools and sustainability in South Africa: Piloting a reflexive model for accredited in-service teacher education". In: McKeown, R (eds) Good Practices in Education for Sustainable Development. Unesco. Paris. 2005. (1), 1.

**Stevens,AW**

*Stevens,AW.* "Technology Teacher Education in South Africa". In: Williams, PJ (eds) International Technology Teacher Education. McGraw Hill Glencoe. Peoria, USA. 2006. 189-213.

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

**Brown,B and Schäfer,M**

*Brown,B* and *Schäfer,M.* "Teacher education for mathematical literacy — a modelling approach". *Pythagoras*. 2006. 64,45-51.

**Euvrard,G J**

*Euvrard,G J.* "The Values Manifesto Project". *Educational Leadership*. 2006. 63(8),43-46.

**Irwin,P**

*Ndaruga,A* and *Irwin,P.* "Teacher-community co-operation to promote sustainability of wetlands in Kenya". *Southern African Journal of Environmental Education*. 2006. 23,78-91.

**Lotz-Sisitka,H**

*Lotz-Sisitka,H.* "Participating in the UN Decade of Education for Sustainability: Voices in a southern African consultation process". *Southern African Journal of Environmental Education*. 2006. 23,10-33.

**Murray,S**

*Terzoli,A, Dalvit,L, Murray,S, Mini,B* and *Zhao,XG.* "Producing and sharing ICT-Based Knowledge through English and African Languages at a South African University". *South African Journal of Higher Education*. 2006. 19,1486-1498.

**Nhamo,G**

*Nhamo,G.* "Actor/actant-network theory as emerging methodology for environmental education research in southern Africa". *Southern African Journal of Environmental Education*. 2006. 23,34-48.

**Nsubungu,Y**

*Nsubungu,Y.* "Viewpoint: An exploration of how Natural Resource Management (NRM) discourse is integrated into key pedagogic texts". *Southern African Journal of Environmental Education*. 2006. 23,163-170.

**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

- \* Shallcross,T, Loubser,C, Le Roux,C, O'Donoghue,R and Lupele,J. "Promoting sustainable development through whole school approaches: An international, intercultural teacher education research and development project". *Journal of Education for Teaching*. 2006. 32(3),283-301.

#### **O'Donoghue,R and Lotz-Sisitka,H**

- \* O'Donoghue,R and Lotz-Sisitka,H. "Situating environmental learning in southern Africa at the start of the UN Decade of Education for Sustainable Development". *Australian Journal of Environmental Education*. 2006. 22(1),105-113.

#### **Olvitt,LL**

Olvitt,LL and Hamaamba,T. "Identifying needs and opportunities for local government environmental education and training in South Africa". *Southern African Journal of Environmental Education*. 2006. 23,122-137.

#### **Price,LL**

Price,LL. "Viewpoint Paper. Joking around in Zimbabwe, undoing and redoing participation". *Southern African Journal of Environmental Education*. 2006. 23,157-162.

#### **Raven,G**

- \* Raven,G. "Methodological reflexivity: towards evolving methodological frameworks through critical and reflexive deliberations". *Environmental Education Research Journal*. 2006. 12(3),559-570.

#### **Schudel,IJ**

- \* Parkin,F, Shackleton,CM and Schudel,IJ. "The effectiveness of schools-based National Arbor Week activities in greening of urban homesteads: A case study of Grahamstown, South Africa". *Urban Forestry and Urban Greening*. 2006. 5,177-187.

#### **Van Der Mescht,H**

Robinson,DA, Robinson,P, Van Der Mescht,H and Court,P. "How entrepreneurs deal with ethical challenges - an application of the business ethics energy star technique". *Journal of Business Ethics*. 2006. 1-13.

### **OTHER PUBLICATIONS**

#### **Lotz-Sisitka,H**

Lotz-Sisitka,H. Lotz-Sisitka,H, H (eds) Southern African Journal of Environmental Education. EEASA. Grahamstown. 2006. 23, 1-189.

#### **Schäfer,M**

Schäfer,M. Schäfer, M (eds) Pythagoras. 2006.

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

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

#### **Brown,B**

Brown,B. "Making sense in mathematics". *Joint International Conference of the Education Association of South Africa and the Kenton Education Association: Education Beyond Boundaries*. Protea Hotel, Wilderness. November/December 2006.

\*NOT AN ACCREDITED JOURNAL

**Dalvit,L**

*Dalvit,L, Alfonsi,R, Biko,C, Terzoli,A and Thinyane,M. "Ubuntu in action: a new approach to teacher training in information and communication technology (ICT)". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.*

*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 Brandt,IG. "Collaborative learning: Building a virtual community of practice to enable ICT take-up in schools in the Grahamstown District". e/merge 2006 (<http://emerge2006.net>). UCT, Cape Town. July 2006.*

**Hodgkinson-Williams,CA and Brown,B**

*Hodgkinson-Williams,CA and Brown,B. "Conversations about assessment of current competence". The Assessment Event. Rhodes University, Grahamstown. September 2006.*

**Lotz-Sisitka,H**

*Lotz-Sisitka,H. "Women and the 'new tide' of environmentalism in South Africa". 2006.*

**Murray,S**

*Dalvit,L, Alfonsi,R, Mini,B, Murray,S and Terzoli,A. "Localisation of iLanga, a next generation PBX". 9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC). Spier Estate, Stellenbosch. September 2006. 471-472.*

*Dalvit,L, Murray,S, Mini,B and Terzoli,A. "Presence and performance of African students in the field of computer science at Rhodes University: A statistical approach". Joint International Conference of the Education Association of South Africa (EASA) and the Kenton Education Association (KEA). Wilderness. November 2006.*

*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 Ngcoza,KM**

*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.*

**Ngcoza,KM**

*Ngcoza,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.*

*Bennett,M and Ngcoza,KM. "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**

Stevens,AW. "The state of technology education in South Africa". *Annual Conference of the Technology Association of South Africa*. University of KwaZulu-Natal, Durban. September 2006. 46-56.

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

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

**Dalvit,L**

Dalvit,L, Isabirye,N, Terzoli,A and Thinyane,M. "A case study on the teaching of computer training in a rural area in South Africa". *22nd CESE (Comparative Education Society of Europe)*. Granada Conference Palace, Granada. Spain. July 2006.

**Davies,S**

Davies,S. "Exploring the context and experience of rural coastal marine harvesters to inform the development of environmental education processes". *Environmental Education Association of Southern Africa Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**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**

Irwin,P. "Education for sustainable development in South Africa". *Unesco Workshop on Sustainable Development*. Unesco Head Office, Paris. France. February 2006.

**Jolly,R**

Jolly,R. "Exploring Co-Engaged Processes of Learning". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**Ketlhoelwe,MJ**

*Ketlhoelwe,MJ.* "Engaging with environmental education policy research in Southern Africa: processes and issues". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**Lotz-Sisitka,H**

*Lotz-Sisitka,H.* "Towards implementation of a regional strategy for the UN Decade of Education for Sustainable Development: What is the role of research?". *Biennale of Education in Africa*. Libreville. Gabon. March 2006.

*Lotz-Sisitka,H.* "Education for Sustainable Development in a context of risk and vulnerability". *North American Association of Environmental Education Conference*. Riverfront Hotel, St Paul, Minnesota. USA. October 2006.

*Lotz-Sisitka,H.* "Experiments with Environmental Ethics: A journey opening up new teaching and research possibilities in southern African environmental education work". *North American Association of Environmental Education Research Symposium*. Riverfront Hotel, St Paul, Minnesota. USA. October 2006.

**Lupele,J and Urenje,S**

*Lupele,J and Urenje,S.* "SADC Course Development Network: The Course developers' toolkit workshop". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

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

*Lupele,J, Mwingi,M, Kinuna,F, Kimani,J and Kisamba,C.* "Researching in African's social contextual realities". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**Nsybungu,Y**

*Nsybungu,Y.* "An exploration of how Natural Resource Management (NRM) discourse is integrated into key pedagogic texts". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**O'Donoghue,R and Lotz-Sisitka,H**

*O'Donoghue,R and Lotz-Sisitka,H.* "New Possibilities for Mediation in Society: How is environmental education research responding?". *American Education Research Association Conference*. San Francisco. USA. April 2006.

**Olvitt,LL**

*Olvitt,LL.* "Learning through deliberation: environmental ethics, agency and professional development in southern Africa". *Annual Conference of the Environmental Education Association of Southern Africa*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

*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.

Gumede,M, *Olvitt,LL* and Pesanayi,T. "Participating in the UN Decade of Education for Sustainable Development. Feedback on a southern African consultation process". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**Schäfer,M**

*Schäfer,M.* "Does 'African' mathematics facilitate access to mathematics? Towards an ongoing critical analysis of ethnomathematics in a South African context". *Third International Conference on Ethnomathematics*. University of Auckland, Auckland. New Zealand. February 2006.

**Shava,S**

Shava,S. "An analysis of the Representation of Indigenous Knowledge in Selected Publications on Plants in Southern Africa". *Environmental Education Association of Southern Africa's Annual Conference*. Belvedere Teachers College, Harare. Zimbabwe. August 2006.

**Stevens,AW**

Stevens,AW. "Technology Education in South Africa". *Proceedings of the 15th International PATT Conference*. Van der Valk Motel, Haarlem-Zuid. The Netherlands. April 2005. 505-514.

**Wilmot,PD**

Wilmot,PD. "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,CA**

Hodgkinson-Williams,CA. Workshop leader. "Constructing an Argument". PharmD Workshop. Pharmacy Faculty, Rhodes University. Grahamstown. 2 February 2006.

Hodgkinson-Williams,CA. Workshop leader. "Assessment Workshop". Thornhill Primary School. Gaborone, Botswana. 8 - 9 May 2006.

Hodgkinson-Williams,CA. Workshop leader. "Formative assessment in Higher Education: Does it make a difference?". Centre for Educational Technology Seminar. University of Cape Town. Cape Town. 20 October 2006.

Hodgkinson-Williams,CA. Workshop leader. "Critical realism, social realism and ICTs in Education (six seminars)". Centre for Educational Technology Seminar Series. University of Cape Town. Cape Town. 20 October - 3 November 2006.

Hodgkinson-Williams,CA, Brandt,IG, Slay,H and Whittington,B. Workshop leader. "ICTs for education in the Eastern Cape Province". Seminar for Eastern Cape Education Department Head Office. East London. 23 August 2006.

Hodgkinson-Williams,CA and Mostert,M. Workshop. "Preliminary Data Report: Staff and Students". ICT Strategic Planning at Rhodes Workshop. Rhodes University. Grahamstown. November 2006.

Hodgkinson-Williams,CA and Mostert,M. Workshop. "Preliminary Data Report: Pilot Study Students". ICT Strategic Planning at Rhodes Workshop. Rhodes University. Grahamstown. December 2006.

Hodgkinson-Williams,CA and Mostert,M. Workshop leader. "ICT Strategic Planning at Rhodes". ICT Strategic Planning at Rhodes Workshop. Union Conference Centre. Grahamstown. 4 December 2006.

Slay,H, Brandt,IG and Hodgkinson-Williams,CA. Workshop. "eBeam User Study Report". Eastern Cape Education Department. East London. December 2006.

**Hodgkinson-Williams,CA and Irwin,P**

Hodgkinson-Williams,CA and Irwin,P. Workshop leader. "Knowledge and Certainty". Research Design Course. Rhodes University, Education. Grahamstown. 12 September 2006.

**Hodgkinson-Williams,CA, van der Merwe,A and Mardon,L**

*Hodgkinson-Williams,CA, van der Merwe,A, Mardon,L and Brandt,IG.* Workshop leader. *"Laptop Training for Education Development Officers"*. Rhodes University, Education Department. Grahamstown. 15 - 18 August 2006.

**Irwin,P**

*Irwin,P.* Workshop. *"Teacher education for Sustainable Development"*. Unesco Workshop on ESD for teachers. University of Helsinki. Helsinki, Finland. May 2006.

**Lotz-Sisitka,H**

*Lotz-Sisitka,H.* Seminar presentation. *"Participating in the Education for Sustainable Development Innovations Course – for Universities in Africa"*. UNEP Mainstreaming Environment and Sustainability into African Universities University Leaders Seminar. United Nations Convention Centre. Nairobi, Kenya. 9 - 11 May 2006.

*Lotz-Sisitka,H.* Seminar presentation. *"Education for Sustainable Development in a context of risk and vulnerability. Feedback on the SADC environment, health, poverty, education research"*. SADC REEP Network Representatives Meeting. Gaborone Conference Centre. Gaborone, Botswana. 12 July 2006.

*Lotz-Sisitka,H.* Seminar presentation. *"Participating in the UN Decade on Education for Sustainable Development. Feedback from a regional consultation process"*. SADC REEP Network Representatives Meeting. Gaborone Conference Centre. Gaborone, Botswana. 12 July 2006.

*Lotz-Sisitka,H.* Interdisciplinary panel contribution. *"Climate Change & Social Change: What are the implications for education?"*. Department of Politics and International Studies Annual Teach-in: The Challenge of Global Climate Change. Rhodes University. Grahamstown. 22 September 2006.

*Lotz-Sisitka,H.* Public lecture. *"Fairness in a Fragile World? Engaging environmental ethics questions in contexts of poverty, risk and vulnerability"*. Faculty of Education. Lakehead University. Thunderbay, Canada. October 2006.

*Lotz-Sisitka,H.* Public seminar. *"Education for Sustainable development in a context of poverty, risk and vulnerability: What are we learning in Southern Africa?"*. Public Seminar on ESD. SIDA Headquarters. Stockholm, Sweden. 5 December 2006.

*Lotz-Sisitka,H.* Public seminar. *"Education for Sustainable Development in a context of poverty, risk and vulnerability: Methodological innovations"*. Faculty of Education. University of Bath. Bath, UK. 10 December 2006.

*Lotz-Sisitka,H and Jickling,B.* Workshop. *"Environmental Education, Ethics and Action"*. North American Association of Environmental Education Conference. Riverfront Hotel. St Paul, Minnesota, USA. October 2006.

**Shava,S**

*Shava,S.* Contribution to round table. *"Guiding Framework for Community Biodiversity Registers"*. International round table. Mpekwani Sun. Port Alfred. 16 - 18 May 2006.

**DISTINGUISHED VISITORS**

Dr S Ermer. University of Madison, Stephen's Point, USA. Visiting group of American Teachers. August 2006.

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.

Professor B Otaala. University of Namibia, Windhoek, Namibia. Contribution to RU/SADC Research project. April 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

EDUCATION	UNITS
<b>Brown,B and Schäfer,M</b>	
<i>Brown,B and Schäfer,M. "Teacher education for mathematical literacy — a modelling approach". Pythagoras. 2006. 64,45-51.</i>	1.00
<b>Euvrard,G J</b>	
<i>Euvrard,G J. "The Values Manifesto Project". Educational Leadership. 2006. 63(8),43-46.</i>	1.00
<b>Irwin,P</b>	
<i>Ndaruga,A and Irwin,P. "Teacher-community co-operation to promote sustainability of wetlands in Kenya". Southern African Journal of Environmental Education. 2006. 23,78-91.</i>	0.50
<b>Lotz-Sisitka,H</b>	
<i>Lotz-Sisitka,H. "Participating in the UN Decade of Education for Sustainability: Voices in a southern African consultation process". Southern African Journal of Environmental Education. 2006. 23,10-33.</i>	1.00
<b>Murray,S</b>	
<i>Terzoli,A, Dalvit,L, Murray,S, Mini,B and Zhao,XG. "Producing and sharing ICT-Based Knowledge through English and African Languages at a South African University". South African Journal of Higher Education. 2006. 19,1486-1498.</i>	0.40
<b>Nhamo,G</b>	
<i>Nhamo,G. "Actor/actant-network theory as emerging methodology for environmental education research in southern Africa". Southern African Journal of Environmental Education. 2006. 23,34-48.</i>	1.00
<b>Nsubungu,Y</b>	
<i>Nsubungu,Y. "Viewpoint: An exploration of how Natural Resource Management (NRM) discourse is integrated into key pedagogic texts". Southern African Journal of Environmental Education. 2006. 23,163-170.</i>	1.00
<b>Olvitt,LL</b>	
<i>Olvitt,LL and Hamaamba,T. "Identifying needs and opportunities for local government environmental education and training in South Africa". Southern African Journal of Environmental Education. 2006. 23,122-137.</i>	1.00
<b>Price,LL</b>	
<i>Price,LL. "Viewpoint Paper. Joking around in Zimbabwe, undoing and redoing participation". Southern African Journal of Environmental Education. 2006. 23,157-162.</i>	1.00
<b>Van Der Mescht,H</b>	
<i>Robinson,DA, Robinson,P, Van Der Mescht,H and Court,P. "How entrepreneurs deal with ethical challenges - an application of the business ethics energy star technique". Journal of Business Ethics. 2006. 1-13.</i>	0.25
<b>TOTAL FOR EDUCATION</b>	8.15

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

EDUCATION			
STUDENT	SUPERVISOR/S	M/D	UNITS
Balarin	van der Mescht	M	1.00
Beningfield	van der Mescht	M	0.25

Farrington	O'Donoghue	M	0.50
Glover	Irwin	M	0.50
Gyan	Lotz-Sisitka	M	0.50
Hausinku	Smith	M	0.50
Kajinga	Murray	M	0.50
Mathabathe	Lotz-Sisitka	M	0.50
Mdlunga	Lotz-Sisitka	M	0.50
Mogotsi	Irwin	M	0.50
Ngubane	van der Mescht	M	0.50
Praeg	Williams	M	0.50
Ramsarup	Lotz-Sisitka/O'Donoghue	M	0.50
Shaanika	van Harmelen	M	0.25
Stofile	van der Mescht	M	0.50
Thawlay	Smith/van der Mescht	M	0.50
Topnar	Smith/van der Mescht	M	0.50
Wigley	Lotz-Sisitka/O'Donoghue	M	0.50
Wright	Lotz-Sisitka	M	0.50
Galbraith	Euvrard/van Harmelen	D	3.00
Pearse	Smith	D	3.00
Wilmot	Smith/van Harmelen	D	3.00
TOTAL			19.00

## 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 16<sup>th</sup> 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**

*Pinchuck,S and Randall,M. Conference of the Microscopy Society of Southern Africa 2006. Nelson Mandela Metropolitan University Port Elizabeth, November 2006.*

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

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

##### **Pinchuck,S and Hodgson,AN**

*Pinchuck,S and Hodgson,AN. "The ultrastructure of the epidermal glands of marine pulmonate limpets". The 16th International Microscopy Congress. Sapporo. Japan. September 2006. 542.*

### CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

##### **Pinchuck,S and Randall,M**

*Pinchuck,S and Randall,M. Participant. "AnalySIS". Nelson Mandela Metropolitan University. Physics Department. Port Elizabeth. 27 November 2006.*

*Pinchuck,S and Randall,M. Participant. "Preparative techniques for biological specimens". Nelson Mandela Metropolitan University. Port Elizabeth. 28 November 2006.*

### OVERSEAS RESEARCH OR FURTHER STUDY

##### **Pinchuck,S**

*Pinchuck,S. Tescan, Brno, Czech Republic. Tescan Vega training. 26 - 30 June 2006.*

### JOURNAL SUBSIDY UNITS

EMUNIT	UNITS
TOTAL FOR EMUNIT	0.00

## 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

*MacLennan,D.* Selected Poems. Quartz Press and Snail Press. Johannesburg. 2006. 180 pp.

### Marais,M

*Marais,M.* "Death and the Space of the Response to the Other in J.M. Coetzee's *The Master of Petersburg*". In: Poyner, J (eds) J.M. Coetzee and the Idea of the Public Intellectual. Ohio University Press. Athens, Ohio. 2006. 83-99. ISBN:978-0-8214-1686-0.

*Marais,M.* "Race, Reading, and Tolerance in Three Postapartheid Novels". In: Diala, I (eds) *The Responsible Critic: Essays on African Literature in Honour of Professor Ben Obumselu*. Africa World Press. Trenton, NJ. 2006. 253-269.

### Walters,P

*Walters,P* and Fogg,J. Olive Schreiner: Her Reinterment on Buffelskop. Walters,P and Fogg, J (eds) National English Literary Museum. Grahamstown. 2006. 185 pp.

### Wylie,D

*Wylie,D.* Myth of Iron: Shaka in History. University of KwaZulu-Natal Press. Pietermaritzburg. 2006. 521 pp. ISBN:1-86914-047-8.

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

### Cornwell,G

- \* *Cornwell,G.* "On the 'Africanization' of English Studies in South Africa". *Arts and Humanities in Higher Education*. 2006. 5(2),117-126.

### 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.

*Everitt,M.* "Jack Sprat and His Wife: Symbiosis in Douglas Livingstone's *A Littoral Zone*". *English in Africa*. 2005. 32(2),53-68.

\*NOT AN ACCREDITED JOURNAL



**Glover,J**

Glover,J. "The Metaphor of the Horse in Doris Lessing's *The Marriages between Zones Three, Four and Five: An Ecofeminist Question?*". *Current Writing*. 2006. 18(1),119-132.

**Gouws,JS**

Gouws,JS. "Nicholas Oldisworth and the Complex, Multi-Layered Cultures of Seventeenth-Century Gloucestershire". *The Southern African Journal of Medieval & Renaissance Studies*. 2004. 14,911-912.

**Jacobson,WS**

Jacobson,WS. "The Prince of the Marshes: *Hamlet* and *Great Expectations*". *The Dickensian*. 2006. 102(3),197-211.

**MacLennan,D**

MacLennan,D. "The Poetry of Guy Butler". *English in Africa*. 2005. 32(2),39-52.

**Marais,M**

Marais,M. "Accommodating the Other: Derek Attridge on Literature, Ethics, and the Work of J.M. Coetzee". *Current Writing*. 2005. 17(2),87-101.

\*

Marais,M. "J.M. Coetzee's *Disgrace* and the Task of the Imagination". *Journal of Modern Literature*. 2006. 29(2),75-93.

**Walters,P**

Walters,P and Fogg,J. "Olive Schreiner at 150: Some Thoughts on Re-Editing Cronwright's *The Reinterment on Buffelskop*". *English in Africa*. 2006. 33(1),9-21.

**Wylie,D**

Wylie,D. "Why Write a Poem about Elephants?". *Mosaic: A Journal for the Interdisciplinary Study of Literature*. 2006. 39(4),27-46.

**OTHER PUBLICATIONS****Wylie,D**

Wylie,D. "Introduction: Animal Presences, Animal Geographies". *Current Writing*. 2006. 18(1), 1-5.

Wylie,D. "Review of Jeff Opland, *The Dassie and the Hunter: A South African Meeting*". *English in Africa*. 2005. 32(2), 247-251.

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

Cornwell,G. "He and His Man: J M Coetzee's Nobel Lecture". *Commonwealth and Postcolonial Studies Association Annual Conference*. Southern Georgia University, Savannah. United States. February 2006.

**Gouws,JS**

Gouws,JS. "The Cape Colony's Earliest Subscription Library". *Print and Palimpsest and New Word Order: Society for the History of Authorship, Reading and Publishing Conference*. Jadavpur University, India. January/February 2006.

\*NOT AN ACCREDITED JOURNAL

Gouws,JS. "Why 'Text Happens' Won't Do for Fulke Greville (or Anyone Else)". *Textual Scholarship and the History of the Book: Comparative Approaches. European Society of Textual Scholarship Annual Conference*. University of London, London. United Kingdom. November 2006.

Gouws,JS. "Recovering the Site of Literature through Rhetoric: Agency, Conduct, Rhetoric, and Practice". *MLA Annual Convention*. University of Philadelphia, Philadelphia. United States. December 2006.

Gouws,JS. "Putting an End to Textual Exploitation, Discrimination, and Abuse". *MLA Annual Convention*. University of Philadelphia, Philadelphia. United States. December 2006.

## OVERSEAS RESEARCH OR FURTHER STUDY

### Beard,M

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

## JOURNAL SUBSIDY UNITS

ENGLISH	UNITS
<b>Everitt,M</b>	
Everitt,M. "On Humans as Animals: Sparring with the Beast in Douglas Livingstone's Poem 'Descent from the Tower'". <i>Current Writing</i> . 2006. 18(1),90-102.	1.00
Everitt,M. "Jack Sprat and His Wife: Symbiosis in Douglas Livingstone's <i>A Littoral Zone</i> ". <i>English in Africa</i> . 2005. 32(2),53-68.	1.00
<b>Glover,J</b>	
Glover,J. "The Metaphor of the Horse in Doris Lessing's <i>The Marriages between Zones Three, Four and Five: An Ecofeminist Question?</i> ". <i>Current Writing</i> . 2006. 18(1),119-132.	1.00
<b>Gouws,JS</b>	
Gouws,JS. "Nicholas Oldisworth and the Complex, Multi-Layered Cultures of Seventeenth-Century Gloucestershire". <i>The Southern African Journal of Medieval &amp; Renaissance Studies</i> . 2004. 14,911-912.	1.00
<b>Jacobson,WS</b>	
Jacobson,WS. "The Prince of the Marshes: <i>Hamlet</i> and <i>Great Expectations</i> ". <i>The Dickensian</i> . 2006. 102(3),197-211.	1.00
<b>MacLennan,D</b>	
MacLennan,D. "The Poetry of Guy Butler". <i>English in Africa</i> . 2005. 32(2),39-52.	1.00
<b>Marais,M</b>	
Marais,M. "Accommodating the Other: Derek Attridge on Literature, Ethics, and the Work of J.M. Coetzee". <i>Current Writing</i> . 2005. 17(2),87-101.	1.00
<b>Walters,P</b>	
Walters,P and Fogg,J. "Olive Schreiner at 150: Some Thoughts on Re-Editing Cronwright's <i>The Reinterment on Buffelskop</i> ". <i>English in Africa</i> . 2006. 33(1),9-21.	0.50
<b>Wylie,D</b>	
Wylie,D. "Why Write a Poem about Elephants?". <i>Mosaic: A Journal for the Interdisciplinary Study of Literature</i> . 2006. 39(4),27-46.	1.00
TOTAL FOR ENGLISH	8.50

## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

ENGLISH			
STUDENT	SUPERVISOR/S	M/D	UNITS
Davis	Cornwell	M	1.00
Hacksley,HE	Gous/Walters	M	1.00
Hacksley,RG	Gous/van Wyk Smith	D	3.00
TOTAL			5.00

## 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 3<sup>rd</sup>-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 Klerk, V.* Corpus Linguistics and World Englishes: An Analysis of Xhosa English. Continuum. London. 2006. 213 pp. ISBN:0-8264-8841-2.

*de Klerk, V.* "Slang, Sociology of". In: Mesthrie, R (eds) Encyclopedia of Language and Linguistics. Elsevier. Amsterdam. Second Edition. 2006. 11, 407-412.

**De Vos,MA**

De Vos,MA. "Quirky verb-second in Afrikaans: complex predicates and head movement". In: Hartmann, JM and Molnarfi, L (eds) *Comparative Studies in Germanic Syntax: From A(frikaans) to Z(urich German)*. John Benjamins. Amsterdam. 2006. 89-114. ISBN:90 272 3361 6.

**Simango,SR**

Simango,SR. "East Africa/Ostafrika". In: Ammon, U (eds) *Walter de Gruyter*. Berlin. Second Edition. 2006. 3, 1964-1971.

**PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER****Adendorff,R and de Klerk,V**

- \* Adendorff,R and de Klerk,V. "The role of APPRAISAL resources in constructing a community response to AIDS". *Linguistics and the Human Sciences*. 2005. 1(3),489-513.

**Bekker,I**

Pienaar,KM and Bekker,I. "Invoking the feminine physical ideal: bitch-slapping, she-men and butch girls". *Southern African Linguistics and Applied Language Studies*. 2006. 24(4),437-447.

**de Klerk,V**

- \* de Klerk,V. "Codeswitching borrowing and mixing in a corpus of Xhosa English". *International Journal of Bilingual Education and Bilingualism*. 2006. 9(5),597-614.

de Klerk,V. "The features of 'teacher talk' in a corpus-based study of Xhosa English". *Language Matters: Studies in the Languages of Southern Africa*. 2006. 37(2),3-18.

- \* de Klerk,V and Barkhuizen,G. "Imagined identities: preimmigrants' narratives on language and identity". *International Journal of Bilingualism*. 2006. 10(3),277-290.

**de Klerk,V and Barkhuizen,G**

de Klerk,V and Barkhuizen,G. "Anticipating language shift: Afrikaans speakers moving to New Zealand". *Language Matters: Studies in the Languages of Southern Africa*. 2005. 36(2),125-147.

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

de Klerk,V, Adendorff,R, De Vos,MA, Hunt,S, Simango,SR, Todd,L and Niesler,T. "Educated mother-tongue South African English: a corpus approach". *Language Matters: Studies in the Languages of Southern Africa*. 2006. 37(1),85-105.

**Simango,SR**

Simango,SR. "Verb agreement and the syntax of ciNsenga relative clauses". *Southern African Linguistics and Applied Language Studies*. 2006. 24(3),277-290.

**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**

*Bekker,I.* "/s/ in refind White South African English ( RWSAfE)". *LSSA/SAALA*. University of KwaZulu-Natal, Durban. July 2006.

**De Vos,MA**

*De Vos,MA.* "Subject orientated anaphors and agreement". *LSSA/SAALA*. University of KwaZulu-Natal, Durban. July 2006.

**Pienaar,KM**

*Pienaar,KM.* "Invoking the feminine physical ideal: bitch-slapping, she-men and butch girls". *Foundation of Tertiary Institutions of the Northern Metropolis (FOTIM) Gender Studies Conference*. CSIR Convention Centre, Pretoria. January 2006.

*Pienaar,KM.* "Re-shaping the ideal female body: colonizing discourses and the 'disciplined' female body in women's conversations". *South Eastern Workshop on Southern Africa (SEWSA)*. Rhodes University, Grahamstown. July 2006.

**Simango,SR**

*Simango,SR.* "Locative clitics versus locative applicatives". *LSSA/SAALA*. University of KwaZulu-Natal, Durban. July 2006.

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

**ii. International Conferences (Outside South Africa)****Adendorff,R**

*Adendorff,R.* "Cracking the Fanakalo code". *Society for Pidgin and Creole Linguistics*. New Mexico, Albuquerque. USA. January 2006.

**de Klerk,V**

*de Klerk,V.* "Educated mother-tongue South African English: A corpus approach". *ICAME Conference*. Finland, Helsinki. Finland. May 2006.

**De Vos,MA**

*De Vos,MA.* "Subjecthood and phrase structure: evidence from long-distance anaphora". *SICOL 2006*. Seoul National University, Seoul. Korea. July 2006. 219-228.

**Hunt,S**

*Dowse,R, Hunt,S and La Rose,C.* "Inequalities in access to health-related information: Application of a modified health literacy test in an English second-language population". *14th International Social Pharmacy Workshop*. Oxford University, Oxford. United Kingdom. July 2006. 56-57.

**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.

**JOURNAL SUBSIDY UNITS**

ENGLISH LANGUAGE AND LINGUISTICS		UNITS
<b>Bekker,I</b>		
<i>Pienaar,KM and Bekker,I.</i> "Invoking the feminine physical ideal: bitch-slapping, she-men and butch girls". <i>Southern African Linguistics and Applied Language Studies</i> . 2006. 24(4),437-447.		1.00

<b>de Klerk,V</b>	
<i>de Klerk,V. "The features of 'teacher talk' in a corpus-based study of Xhosa English". <i>Language Matters: Studies in the Languages of Southern Africa</i>. 2006. 37(2),3-18.</i>	1.00
<b>de Klerk,V and Barkhuizen,G</b>	
<i>de Klerk,V and Barkhuizen,G. "Anticipating language shift: Afrikaans speakers moving to New Zealand". <i>Language Matters: Studies in the Languages of Southern Africa</i>. 2006. 3605(2),125-147.</i>	1.00
<b>de Klerk,V, Adendorff,R, De Vos,MA, Hunt,S and Simango,SR</b>	
<i>de Klerk,V, Adendorff,R, De Vos,MA, Hunt,S, Simango,SR, Todd,L and Niesler,T. "Educated mother-tongue South African English: a corpus approach". <i>Language Matters: Studies in the Languages of Southern Africa</i>. 2006. 37(1),85-105.</i>	0.86
<b>Simango,SR</b>	
<i>Simango,SR. "Verb agreement and the syntax of ciNsenga relative clauses". <i>Southern African Linguistics and Applied Language Studies</i>. 2006. 24(3),277-290.</i>	1.00
<b>TOTAL FOR ENGLISH LANGUAGE AND LINGUISTICS</b>	<b>4.86</b>

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

<b>ENGLISH LANGUAGE AND LINGUISTICS</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Langonikos	Adendorff	M	1.00
Legge	Hunt	M	1.00
Sutton	De Klerk	M	1.00
<b>TOTAL</b>			<b>3.00</b>

## 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**

*Fabricius,C, Scholes,RJ and Cundill,G. "Mobilising knowledge for ecosystem management". In: Reid,W, Berkes,F, Wilbanks,T and Capistrano, D (eds) Island Press. Washington. 2006. 165-179.*

## 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**

*Shackleton,CM. "Urban forestry - a Cinderella science in South Africa?". *Southern African Forestry Journal*. 2006. 208,1-4.*

*Dovie,DBK, Shackleton,CM and Witkowski,ETF. "Valuation of communal area livestock benefits, rural livelihoods and related policy issues". *Land Use Policy*. 2006. 23,260-271.*

*Guthrie,G and Shackleton,CM. "Urban-rural contrasts in Arbor Week in South Africa". *South African Journal of Science*. 2006. 102,14-18.*

*Madubansi,M and Shackleton,CM. "Changing energy profiles and consumption patterns following electrification in five rural villages, South Africa". *Energy Policy*. 2006. 34,4081-4092.*

- \* *Parkin,F, Shackleton,CM and Schudel,IJ. "The effectiveness of schools-based National Arbor Week activities in greening of urban homesteads: A case study of Grahamstown, South Africa". *Urban Forestry and Urban Greening*. 2006. 5,177-187.*

\*NOT AN ACCREDITED JOURNAL

Pote,J, Shackleton,CM, Cocks,ML and Lubke,R. "Fuelwood harvesting and selection in Valley Thicket, South Africa". *Journal of Arid Environments*. 2006. 67,270-287.

**Shackleton,CM and Gambiza,J**

Shackleton,CM, McConnachie,M, Chauke,MI, Mentz,J, Sutherland,F, Gambiza,J and Jones,R. "Urban fuelwood demand and markets in a small town in South Africa: Livelihood vulnerability and alien plant control". *International Journal of Sustainable Development and World Ecology*. 2006. 13,481-491.

**Shackleton,CM and Shackleton,SE**

Pereira,T, Shackleton,CM and Shackleton,SE. "Trade in reed-based craft products in rural villages in the Eastern Cape, South Africa". *Development Southern Africa*. 2006. 23(4),477-496.

Shackleton,CM and Shackleton,SE. "Household wealth status & natural resource use in the Kat River valley, South Africa". *Ecological Economics*. 2006. 57,306-317.

**OTHER PUBLICATIONS**

**Shackleton,SE**

Shackleton,SE. "Forests as safety nets for mitigating the impacts of HIV/AIDS in southern Africa". Forest Livelihood Briefs, No 4. CIFOR, Bogor. 2006.

Shackleton,SE. "Ameliorating poverty in South Africa through natural resource commercialisation - How can government, private sector & non-government organisations make a difference". Making the Invisible visible. Pretoria. 2006.

Petheram,L, Campbell,B, Marunda,C, Tiveau,D and Shackleton,SE. "The wealth of the dry forests. Can sound forest management contribute to the Millennium Development Goals in sub-saharan Africa?". Forest Livelihood Briefs No 5. CIFOR, Bogor. 2006.

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

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

**Cundill,G**

Cundill,G. "Ecosystem change, local livelihoods and institutional resilience: understanding change in the Thicket Biome". *Thicket Forum*. Stutterheim. July 2006.

**Fourie,S**

Fourie,S. "Rehabilitation in the Albany District". *Thicket Forum*. Stutterheim. July 2006.

**Shackleton,CM**

Cocks,ML, Bangay,L, Shackleton,CM and Wiersum,F. "Rich man poor man': Inter-household and community factors influencing the use of wild plant resources amongst rural households in South Africa". *Thicket Forum*. July 2006.

McConnachie,M, Shackleton,CM and McGregor,G. "A preliminary comparison of the quantity and quality of public green open space within ten towns in the sub-tropical thicket biome, South Africa". *Thicket Forum*. Dohne Agricultural Centre, Stutterheim. July 2006.

**Shackleton,SE**

Shackleton,SE and Campbell,B. "How important is the trade in woodland products for livelihood and poverty alleviation in South Africa: Evidence from four case studies". *Fourth Natural Forests and Savanna Woodlands Symposium: Multiple use management of natural forests and woodlands: Policy refinement and scientific progress*. Port Elizabeth. May 2006.



**Steele,M**

*Steele,M.* "An analysis of the level of disturbance created by harvesting on the Thicket Biome in the Kat River Valley, Eastern Cape". *Thicket Forum*. Stutterheim. July 2006.

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

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

**Fabricius,C**

*Fabricius,C.* "People and protected areas in South Africa". *Global Biodiversity Forum*. Curitiba. Brazil. March 2006.

**Pereira,T**

*Pereira,T.* "Scaling community biodiversity inventories up - why and how?". *Global Biodiversity Forum*. Curitiba. Brazil. March 2006.

**Shackleton,CM**

*Shackleton,CM.* "Use, biodiversity and value of indigenous vegetables in South Africa". *Indigenous vegetables and urban agriculture in Africa*. Dakar. Senegal. July 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY**

**Shackleton,CM**

*Shackleton,CM.* Centre for International Forestry Research, Bogor, Indonesia. Various. 8 September - 12 January 2006.

**DISTINGUISHED VISITORS**

Dr AO Ayotunde. Department of Wildlife & Range Management, University of Agriculture, Makurdi, Nigeria. Sabbatical. January-December 2006.

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.

**JOURNAL SUBSIDY UNITS**

ENVIRONMENTAL SCIENCE	UNITS
<b>Paumgarten,F</b>	
<i>Paumgarten,F.</i> "The role on non-timber forest products as safety-nets: A review of evidence with a focus on South Africa". <i>Geojournal</i> . 2006. 64,189-197.	1.00
<b>Shackleton,CM</b>	
<i>Shackleton,CM.</i> "Urban forestry - a Cinderella science in South Africa?". <i>Southern African Forestry Journal</i> . 2006. 208,1-4.	1.00
Dovie,DBK, <i>Shackleton,CM</i> and Witkowski,ETF. "Valuation of communal area livestock benefits, rural livelihoods and related policy issues". <i>Land Use Policy</i> . 2006. 23,260-271.	0.34
<i>Guthrie,G</i> and <i>Shackleton,CM.</i> "Urban-rural contrasts in Arbor Week in South Africa". <i>South African Journal of Science</i> . 2006. 102,14-18.	1.00
<i>Madubansi,M</i> and <i>Shackleton,CM.</i> "Changing energy profiles and consumption patterns following electrification in five rural villages, South Africa". <i>Energy Policy</i> . 2006. 34,4081-4092.	1.00
<i>Pote,J,</i> <i>Shackleton,CM,</i> <i>Cocks,ML</i> and <i>Lubke,R.</i> "Fuelwood harvesting and selection in Valley Thicket, South Africa". <i>Journal of Arid Environments</i> . 2006. 67,270-287.	0.25

<b>Shackleton,CM and Gambiza,J</b>		
<i>Shackleton,CM, McConnachie,M, Chauke,MI, Mentz,J, Sutherland,F, Gambiza,J and Jones,R.</i> "Urban fuelwood demand and markets in a small town in South Africa: Livelihood vulnerability and alien plant control". <i>International Journal of Sustainable Development and World Ecology</i> . 2006. 13,481-491.		0.86
<b>Shackleton,CM and Shackleton,SE</b>		
<i>Pereira,T, Shackleton,CM and Shackleton,SE.</i> "Trade in reed-based craft products in rural villages in the Eastern Cape, South Africa". <i>Development Southern Africa</i> . 2006. 23(4),477-496.		1.00
<i>Shackleton,CM and Shackleton,SE.</i> "Household wealth status & natural resource use in the Kat River valley, South Africa". <i>Ecological Economics</i> . 2006. 57,306-317.		1.00
<b>TOTAL FOR ENVIRONMENTAL SCIENCE</b>		<b>7.45</b>

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

<b>ENVIRONMENTAL SCIENCE</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Gyan	Shackleton	M	0.50
McDermott	Shackleton	M	1.00
Seebach	Whittington-Jones	M	1.00
Shackleton	Fabricsius/Lotz-Sisistka	D	3.00
<b>TOTAL</b>			<b>5.50</b>

## FINE ART

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

Professor Brenda Schmähmann, 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 Schmähmann 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 Pelsner 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

### Schmähmann, B

*Schmähmann, B.* Mapula: Embroidery and Empowerment in the Winterveld. David Krut Publishing. Johannesburg, 2006. 121 pp. ISBN:978-0-9584975-1-0.

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

### Schmähmann, B

- \* *Schmähmann, B.* "Ceramic Sculptures by Wilma Cruise: Fragments and Feminist Transgressions". *Interpreting Ceramics*. 2006. 8,1-10.

### Schoeman, G

*Schoeman, G.* "Clouds, veils, and time: Reading blindness or seeing inaccessibility in Gerhard Richter's paintings". *South African Journal of Art History*. 2005. 267-289.

### Simbao, R

*Simbao, R.* "A Crown on the Move: Stylistic Integration of the Luba-Lunda Complex in Lunda-Kazembe Performance". *African Arts*. 2006. 39(3),26-96.

\*NOT AN ACCREDITED JOURNAL

*Simbao,R. "Weighing Masculinity". Art South Africa. 2006. 5(2),38-39.*

## **OTHER PUBLICATIONS**

### **Herbst,M**

*Herbst,M. "Exhibition Review". Art South Africa. Four Solo Shows. 2006. 5(1), 67.*

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

### **Simbao,R**

*Simbao,R. "Exhibition review". Art South Africa. National Arts Festival. 2006. 5(1), 66.*

### **Thoburn,D**

*Thoburn,D. "Drawing Connections. William Kentridge's Prints". Art South Africa. 2006. 4(4), 87.*

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

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

#### **Herbst,M**

*Herbst,M. "Conrad Botes and the Longing for the Enjoyment of Radical Transgression". Annual Conference of South African Visual Arts Historians. Vaal University of Technology, Vanderbijlpark. September 2006.*

#### **Schmahmann,B**

*Schmahmann,B. "Representations of HIV-AIDS by Women in the Mapula Embroidery Project". Annual Conference of South African Visual Arts Historians. Vaal University of Technology, Vanderbijlpark. September 2006.*

#### **Simbao,R**

*Simbao,R. "Commemorating Soweto: The Thirty Year Journey of Sam Nzima's Iconic Photograph". Annual Conference of South African Visual Arts Historians. Vaal University of Technology, Vanderbijlpark. September 2006.*

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

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

#### **Simbao,R**

*Simbao,R. "The Political Surge of Heritage Performed in Zambian Cultural Festivals". African Studies Association. San Francisco. United States of America. November 2006.*

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

### **De Jager,M**

*De Jager,M. Artist. "Leave/Remain". National Arts Exhibition. Rhodes Fine Art Dept. Grahamstown. 29 June - 28 July 2006.*

**Meistre,B**

*Meistre,B.* Artist. "A Stranger Who Came with a Book in the Crook of his Arm (stop frame animation DVD projection)". Nelson Mandela Metropolitan Art Museum Biennial Art Exhibition. Port Elizabeth. 22 June - 17 July 2006.

*Meistre,B.* Artist. "Untitled (Paper Plates)". South African Contemporary Portraiture. HIRE Gallery. Cape Town. 24 June - 30 July 2006.

**Thorburn,D**

*Thorburn,D.* Secondo Piatto. Anniversary Exhibition. Saltgrass Gallery. Salt Lake City, USA. 1 January - 31 March 2006.

*Thorburn,D.* Artist. "A Mammalian Future". The Printmaking Genome Project. University of Wisconsin-Madison. USA. 5 - 30 April 2006.

*Thorburn,D.* Master printmaking for another artist. "Zola Toyi exhibition". Fine Line Press. Grahamstown. 29 June - 28 July 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY****Hipper,M**

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

**DISTINGUISHED VISITORS**

Professor S Kemp. Royal College of Art, London, UK. Lecture. March 2006.

Professor E Rankin. University of Auckland, Auckland, New Zealand. Series of lectures. August 2006.

Ms D Victor. University of Pretoria, Pretoria. Series of drawing classes. April 2006.

**JOURNAL SUBSIDY UNITS**

FINE ART			UNITS
<b>Schoeman,G</b>			
<i>Schoeman,G.</i> "Clouds, veils, and time: Reading blindness or seeing inaccessibility in Gerhard Richter's paintings". <i>South African Journal of Art History</i> . 2005. 267-289.			1.00
<b>Simbao,R</b>			
<i>Simbao,R.</i> "A Crown on the Move: Stylistic Integration of the Luba-Lunda Complex in Lunda-Kazembe Performance". <i>African Arts</i> . 2006. 39(3),26-96.			1.00
<i>Simbao,R.</i> "Weighing Masculinity". <i>Art South Africa</i> . 2006. 5(2),38-39.			1.00
TOTAL FOR FINE ART			3.00

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

FINE ART			
STUDENT	SUPERVISOR/S	M/D	UNITS
Brown	Schmahmann	M	1.00
Spargo	Meistre/Herbst	M	0.50
TOTAL			1.50

## **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**

*Foster,IDL*. "Lakes and Reservoirs in the Sediment Delivery System: Reconstructing Sediment Yields". In: Owens,PN and Collins, AJ (eds) *Soil Erosion and Sediment Redistribution in River Catchments: Measurement, Modelling and Management*. CAB International. 2006. 128-142. ISBN:9-780851990507.

Lawler,DM, *Foster,IDL*, Petts,GE, Harper,S and Morrissey,IP. "Suspended sediment dynamics for June storm events in the urbanized River Tame, UK". In: Rowan,JS, Duck,RW and Werritty, A (eds) *Sediment*

Dynamics and the Hydromorphology of Fluvial Systems. IAHS Press. 2006. 306, 96-103. ISBN:1-901502-68-6.

**Lewis,C**

*Lewis,C.* Look to! My Ringing World. Department of Music Rhodes University. Grahamstown. 2006. 192 pp.

*Lewis,C.* "Recognition and development of the Irish Draught Horse". In: Griffith,I and McGrath, M (eds) The Story of the Irish Draught Horse. Collins Press. Cork. 2006. 146-171.

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

**Foster,IDL**

*Foster,IDL,* Mighall,TM, Proffitt,H, Walling,DE and Owens,PN. "Post-depositional <sup>137</sup>Cs Mobility in the Sediments of Three Shallow Coastal Lagoons, SW England". *Journal of Paleolimnology*. 2006. 35(4),881-895.

- \* Pittam,NJ, Mighal,TM and *Foster,IDL*. "The effect of Sediment Source Changes on Pollen Records in Lake Sediments". *Water, Air and Soil Pollution: Focus*. 2006. 6(5, 6),677-683.

**Nel,EL**

- \* Bek,D, Binns,T, *Nel,EL* and Ellison,B. "Achieving grassroots transformation in post-apartheid South Africa". *International Journal of Development Issues*. 2006. 5(2),65-94.

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.

*Nel,EL,* Rogerson,CM and Marais,L. "Restructuring manufacturing in South Africa's lagging regions: the case of the Free State". *South African Geographical Journal*. 2006. 88(1),48-57.

**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.

Kakembo,V, Palmer,AR and *Rowntree,KM.* "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". *International Journal of Remote Sensing*. 2006. 27(13),2735-2752.

Thornes,J and *Rowntree,KM.* "Integrated catchment management in semi-arid environments in the context of the European water framework directive". *Land Degradation and Development*. 2006. 17,355-364.

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

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

**Fox,RC**

*Fox,RC* and Assmo,PA. "Developing assessment practices in response to the changing educational environment, reflections from Sweden and South Africa". *Assessment Event*. Rhodes University, Grahamstown. September 2006.

\*NOT AN ACCREDITED JOURNAL

**Mcgregor,G**

*McConnachie,M, Shackleton,CM and Mcgregor,G.* "A preliminary comparison of the quantity and quality of public green open space within ten towns in the sub-tropical thicket biome, South Africa". *Thicket Forum*. Dohne Agricultural Centre, Stutterheim. July 2006.

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

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

**Nel,EL**

*Nel,EL.* "Rural Community Responses to Marginalization and Economic Opportunities in Malawi: The Ngolowindo Co-operative". *International Geographical Union Commission Conference on: Globalization, Marginalization and Regional and Local Response*. University of Otago, Dunedin. New Zealand. July 2006.

**Nel,EL and Gibb,M**

*Nel,EL and Gibb,M.* "Private Sector led Poverty Relief and development Interventions: Evidence from South Africa". *UK Development Studies Association*. University of Reading, Reading. England. November 2006.

**Rowntree,KM**

*Rowntree,KM.* "Active Learning for Understanding Land Degradation: African Catchment Game and Riskmap". *The International Geographical Union's Commission on Land Degradation*. Vinh University, Vinh. Vietnam. February 2006.

**Rowntree,KM and Fox,RC**

*Rowntree,KM and Fox,RC.* *Changing foresight Practices in Regional Development — Global Pressures and Regional Possibilities*. Finland Futures Academy, Turku. Finland. June 2006.

*Rowntree,KM and Fox,RC.* "On the Fast Track to Land Degradation? A Case Study of the Impact of the Fast Track Land Reform Programme in Kadoma District, Zimbabwe". *Highland2006: Environmental Change, Geomorphic Processes, Land Degradation and Rehabilitation in Tropical and Subtropical Highlands*. Mekele University, Mekele. Ethiopia. September 2006.

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

**Rowntree,KM**

*Rowntree,KM.* Presenter & discussant. *"New Knowledge and new institutions for water management"*. Governance, Technology and Reform Policies in Water Management. Wageningen University. Wageningen, Netherlands. 18 - 19 December 2006.

**Rowntree,KM and Fox,RC**

*Rowntree,KM and Fox,RC.* Game manager. *"Role playing games: African Development Game, Swamp Fire and African Catchment Game"*. Finland Futures Research Summer School. Finland Futures Research Institute. Turku, Finland. 4 - 13 June 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY**

**Fox,RC**

*Fox,RC.* Högskolan Väst , Uddevalla, Sweden. Pedagogical research on role playing games. 3 May - 3 June 2006.

*Fox,RC.* Högskolan Väst , Uddevalla, Sweden. Pedagogical research on role playing games. 11 August - 16 September 2006.



## DISTINGUISHED VISITORS

Dr P Assmo. Höskolan Väst, Uddevalla, Sweden. Lecture. November-December 2006.

Professor AJ Binns. University of Otago, Dunedin, New Zealand. 2006.

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

Professor IDL Foster. University of Coventry, Coventry, England. 2006.

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

Dr T Mighal. University of Aberdeen, Aberdeen, Scotland. 2006.

## JOURNAL SUBSIDY UNITS

<b>GEOGRAPHY</b>		<b>UNITS</b>
<b>Foster,IDL</b>		
<i>Foster,IDL</i> , Mighall,TM, Proffitt,H, Walling,DE and Owens,PN. "Post-depositional <sup>137</sup> Cs Mobility in the Sediments of Three Shallow Coastal Lagoons, SW England". <i>Journal of Paleolimnology</i> . 2006. 35(4),881-895.		0.20
<b>Nel,EL</b>		
Hill,T, <i>Nel,EL</i> and Trotter,D. "Nature based Tourism As a Pro-Poor Development intervention: Case Studies from KwaZulu-Natal, South Africa". <i>Singapore Journal of Tropical Geography</i> . 2006. 27,163-175.		0.34
<i>Nel,EL</i> , Rogerson,CM and Marais,L. "Restructuring manufacturing in South Africa's lagging regions: the case of the Free State". <i>South African Geographical Journal</i> . 2006. 88(1),48-57.		0.34
<b>Rowntree,KM</b>		
<i>Rowntree,KM</i> . "Integrating Catchment Management through landcare in the Kat Valley, Eastern Cape Province, South Africa". <i>Physical Geography</i> . 2006. 27(5),435-446.		1.00
Kakembo,V, Palmer,AR and <i>Rowntree,KM</i> . "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". <i>International Journal of Remote Sensing</i> . 2006. 27(13),2735-2752.		0.34
Thornes,J and <i>Rowntree,KM</i> . "Integrated catchment management in semi-arid environments in the context of the European water framework directive". <i>Land Degradation and Development</i> . 2006. 17,355-364.		0.50
<b>TOTAL FOR GEOGRAPHY</b>		<b>2.72</b>

## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

<b>GEOGRAPHY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Alebiosu	Nel/McGregor	M	1.00
Chigumira	Fox	M	1.00
Lerotholi	Rowntree	M	1.00
<b>TOTAL</b>			<b>3.00</b>

## 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 Loránd 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 Goldridge deposit, Kraaipan Greenstone Belt, South Africa". *Mineralium Deposita*. 2006. 41,483-503.

*Moore,AE and Moore,JM.* "A glacial ancestry for the Somabula diamond-bearing alluvial deposit, Central Zimbabwe". *South African Journal of Geology*. 2006. 109,471-482.

### **Moore,JM and Tsikos,H**

*Polteau,S, Moore,JM and Tsikos,H.* "The geology and geochemistry of the Palaeoproterozoic Makganyene diamictite". *Precambrian Research*. 2006. 148,257-274.

## OTHER PUBLICATIONS

### **Prevec,R**

*Prevec,R.* "The power of plants: how ancient forests drive SA's economy (<http://scienceinafrica/2006/february/coal.htm>)". *Science in Africa*. 2006. (46).

*Prevec,R and Miller,I.* "Moving Fingers: Palaeobotany in the Digital Age: Unearthing the Future of Taxonomy (<http://paleo-electronica.org/paleo/toc9.2htm>)". *Palaeontologia Electronica*. 2006. 9, 23.

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

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

**Bordy,EM**

*Bordy,EM.* "Ichnological problematica from the Lower Jurassic Clarens Formation Southern Africa". *14th Biennial Conference of the Palaeontological Society of Southern Africa*. Rhodes University, Grahamstown. September 2006. 7.

**Prevec,R**

de Beer,FC, *Prevec,R*, Cisneros,J and Abdala,F. "Palaeontology benefit from neutron and x-ray tomography at NECSA". *2006 Annual South African Institute of Physics Conference SAIP*. University of the Western Cape, Belville. July 2006.

*Prevec,R*, Gastaldo,RA, Neveling,J and Reid,SB. "A remarkable Latest Permian autochthonous flora from Wapadsberg Pass, southern Karoo Basin of South Africa". *14th Biennial Conference of the Palaeontological Society of Southern Africa*. Rhodes University, Grahamstown. September 2006.

*Prevec,R*, Miller,I and Pattison Rumford,JP. "Palaeontology in the digital age: taxonomy and the future of electronic publication". *14th Biennial Conference of the Palaeontological Society of Southern Africa*. Rhodes University, Grahamstown. September 2006.

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

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

**Bordy,EM**

Bumby,A and *Bordy,EM*. "Termite nests and associated architecture in the Lower Jurassic Clarens Formation: Questions regarding their provenance". *9th International Mesozoic Terrestrial Ecosystems and Biota Symposium*. Hulme Hall, Manchester. United Kingdom. June 2006. 5-8.

**Bordy,EM and Prevec,R**

*Bordy,EM*, *Prevec,R* and *Makhwelo,C*. "Late Triassic Norian Palaeoecosystem of the lowermost Elliot Formation (Salpeterberg, Eastern Cape, South Africa)". *A Century of Research at Petrified Forest National Park 1906-2006*. USA. 2006. 62. 169-170.

**Buttner,SH**

Kruhl,JH, Erdmann,S and *Buttner,SH*. "Development of micro shear zones in cordierite under brittle high-T conditions - evidence for significant strain-rate variations during natural deformation". *4th Swiss Geoscience Meeting*. Bern. Switzerland. December 2006.

**Marsh,JS**

Klausen,MB, *Marsh,JS* and Watkeys,MK. "Dyke swarms and associated lava formations in the northern Lebombo monocline, Karoo Large Igneous Province, South Africa". *International Conference on Continental Volcanism*. White Swan Hotel, Guangzhou. China. May 2006. 50.

*Marsh,JS* and *Mitha,VR*. "Supplying lava eruptions in the Karoo Province, South Africa: a geochemical comparison of volcanic sequence with intrusions in the main Karoo basin". *International Conference on Continental Volcanism*. White Swan Hotel, Guangzhou. China. May 2006. 93.

**Moore,JM**

Hammond,NQ and *Moore,JM*. "Controls on mineralisation at the Kalahari Goldridge deposit, Kraaipan Greenstone Belt, South Africa". *21st Colloquium on African Geology*. International Conference Centre Joaquim Chissana, Maputo. Mozambique. July 2006.

Moore, JM and Moore, AE. "Diamond dispersal from pre-Karoo kimberlites by the Dwyka glaciation". *21st Colloquium on African Geology*. International Conference Centre Joaquim Chissana, Maputo. Mozambique. July 2006.

**Moore, JM, Bordy, EM and Marsh, JS**

Hanson, EK, Moore, JM, Robey, JVA, Bordy, EM and Marsh, JS. "Re-estimation of erosion levels in Group I and II kimberlites between Lesotho, Kimberley and Victoria west, South Africa". *8th International Kimberlite Conference: 2006 Kimberlite Emplacement Workshop*. Saskatoon. Canada. September 2006.

**Prevec, R**

de Beer, FC, Prevec, R, Cisneros, J and Abdala, F. "Hidden structure of fossils revealed by neutron and x-ray tomography". *8th World Conference on Neutron Radiography*. National Institute of Standards and Technology (NIST), Gaithersburg. USA. October 2006.

Reid, SB, Gastaldo, RA, Neveling, J and Prevec, R. "Late Permian fluvial facies and Architectures preserving an autochthonous leaf litter, Wapadsberg Pass, Eastern Cape Province, South Africa". *Geological Society of America Annual Meeting and Exposition*. University of Pennsylvania, Philadelphia. USA. October 2006. 144.

**Prevec, SA**

Prevec, SA and Ashwal, LD. "Radiogenic isotopic evidence for mineral disequilibrium associated with mineralized horizons in mafic intrusions". *Geological Association of Canada*. University of Quebec, Montreal. Canada. 2006. 31. 124.

**Skinner, EMW and Marsh, JS**

Skinner, EMW and Marsh, JS. "The emplacement of Class I kimberlites - Part I: evidence of geological features". *2006 Kimberlite Emplacement Workshop*. Saskatoon. Canada. September 2006.

Skinner, EMW and Marsh, JS. "The emplacement of Class I kimberlites – Part 2: petrographic evidence". *2006 Kimberlite Emplacement Workshop*. Saskatoon. Canada. September 2006.

**DISTINGUISHED VISITORS**

Professor MK Bamford. Bernard Price Institute for Palaeontological Research, Johannesburg. Collaboration. September 2006.

Professor N Beukes. University of Johannesburg, Johannesburg. Lecture. September 2006.

Dr F Camisani-Calzolari. Private Consultant, Johannesburg. Lecture. September 2006.

Dr B Corner. Corner Geophysics, Swakopmund, Namibia. Lecture. July 2006.

Dr D Frei. Geological Survey of Greenland, Greenland. Collaboration. November 2006.

Professor RA Gastaldo. Colby College, Waterville, USA. Collaboration. September 2006.

Dr I Glacken. Snowden, Perth, Australia. Lecture. October 2006.

Dr V Goetz. University of Washington, USA. Collaboration. August 2006.

Dr R Harris. Geodatec, Johannesburg. Lecture. June 2006.

Dr F Holzfoerster. University of Wurtzburg, Germany. Lecture. March 2006.

Professor V Lorenz. University of Wurtzburg, Germany. Collaboration. March 2006.

Dr W Maier. University of Quebec, Chicoutimi, Canada. Collaboration. March 2006.

Dr S Master. University of the Witwatersrand, Johannesburg. Lecture. May 2006.

Professor A Matthews. Hebrew University of Jerusalem, Jerusalem, Israel. Collaboration. November 2006.

Dr A Mitchell. Private Consultant, Westville, KZN. Lecture. February 2006.

Mr M Molatana. Gemcom Africa (Pty) Ltd, Johannesburg. Lecture. September 2006.

Dr J Neveling. Council for Geoscience, Pretoria. Collaboration. September 2006.

Professor WU Reimold. Humboldt Museum, Germany. Lecture. July 2006.

Dr JVA Robey. De Beers, Kimberley. Lecture. February 2006.

Professor BS Rubridge. Bernard Price Institute for Palaeontological Research, Johannesburg. Collaboration. September 2006.

Dr J Ward. De Beers, Oranjemund, Namibia. Lecture. April 2006.

Professor MK Watkeys. University of KwaZulu-Natal, Westville. Lecture. July 2006.

#### JOURNAL SUBSIDY UNITS

<b>GEOLOGY</b>	<b>UNITS</b>
<b>Cabral,AR</b>	
<i>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.</i>	0.25
<b>Moore,JM</b>	
<i>Hammond,NQ and Moore,JM. "Archaean lode gold mineralisation in banded iron formation at the Kalahari Goldridge deposit, Kraaipan Greenstone Belt, South Africa". Mineralium Deposita. 2006. 41,483-503.</i>	1.00
<i>Moore,AE and Moore,JM. "A glacial ancestry for the Somabula diamond-bearing alluvial deposit, Central Zimbabwe". South African Journal of Geology. 2006. 109,471-482.</i>	0.50
<b>Moore,JM and Tsikos,H</b>	
<i>Polteau,S, Moore,JM and Tsikos,H. "The geology and geochemistry of the Palaeoproterozoic Makganyene diamictite". Precambrian Research. 2006. 148,257-274.</i>	1.00
<b>TOTAL FOR GEOLOGY</b>	<b>2.75</b>

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

<b>GEOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Chisakulo	Moore	M	0.50
Mitha	Marsh	M	1.00
Mogoysi	Moore	M	0.50
Osman	Moore	M	0.50
<b>TOTAL</b>			<b>2.50</b>

## HISTORY

Members of staff, postgraduate students, and our postdoctoral fellow engaged in a range of research activities in diverse fields during 2006. Gary Baines and Nomalanga Mkhize both had essays published in a book on music and censorship. Gary also had an article appear in the widely read international magazine, *History Today*. Enocent Msindo, a postdoctoral fellow, had an article published in the prestigious *Journal of Southern African Studies*. An important book on witchcraft included an essay by Alan Kirkaldy. Carla Tsampiras gave a paper on HIV/AIDS in the Eastern Cape at the annual conference of the UK African Studies Association.

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

*Baines,G.* "Racist Hate Speech in South Africa's Fragile Democracy: The Case of Ngema's *AmaNdiya*". In: Drewett,M and Cloonan, M (eds) *Popular Music Censorship in Africa*. Ashgate. Aldershot. 2006. 53-70. ISBN:978-0-7546-5291-5.

### 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.

*Kirkaldy,A.* "Numerous sections". In: Kirkaldy,A, De Vries,I, Dryer,J, Van Der Merwe,R and Van Deventer, W (eds) *Bateleur Books*. Cape Town. 2006.

*Kirkaldy,A.* "Vhuloi and Witch-Hunting in Late Nineteenth Century Vendaleland". In: Nicolini, B (eds) *Magical Practices, Witchcraft and Warfare in the African Continent (XIX-XX Century)*. Mellon Press. Lampeter. 2006. 87-111.

### Mkhize,N

*Dylan,C and Mkhize,N.* "Vocal Killers, Silent Killers. Popular media, genocide, and the call for benevolent censorship in Rwanda". In: Drewett,M and Cloonan, M (eds) *Popular Music and Censorship in Africa*. Ashgate. Aldershot. 2006. 39-52. ISBN:978-0-7546-5291-5.

## 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**

- \* *Kirkaldy,A and Kriel,L. "Converts and Conservatives: Berlin Mission Representations of Khosi August Makhahane and Kgosi Matsiokwane Leboho in the Northern Transvaal, c.1870-1900". LFM Social Sciences and Missions. 2006. 18,109-144.*

- \* **Mkhize,N**

*Mkhize,N. "Bones of Contention: Dispute over Grahamstown Human Remains". South African Labour Bulletin. 2006. 30(4),37-39.*

**Msindo,E**

*Msindo,E. "Ethnicity Not Class? The 1929 Bulawayo Faction Fights Reconsidered". Journal of Southern African Studies. 2006. 32(3),429-447.*

**OTHER PUBLICATIONS**

**Maylam,PR**

*Maylam,PR. "White Rising: The 1922 Insurrection and Racial Killing in South Africa (Book Review)". Journal of African History. 2006. 47(2), 341-342.*

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

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

**Baines,G**

*Baines,G. "Sidelining developmental goals? Re-imaging Port Elizabeth for the 2010 Soccer World Cup". 2010 and Life of the City Symposium. University of the Witwatersrand, Johannesburg. September 2006.*

**Greyling,S**

*Greyling,S. "1971: A Year of Unrest at Rhodes University. The Disobedience Campaign and Munnik Commission". South African Historical Association Annual Conference. University of Pretoria, Pretoria. June 2006.*

**Kirkaldy,A**

*Kirkaldy,A. "Beauty and the Beast: Belonging and exclusion in the Berlin Mission Society during the late nineteenth century". South African Historical Association Jubilee Conference. University of Pretoria, Pretoria. June 2006.*

*Kirkaldy,A. "Darkness visible: Berlin missionaries and the landscape of Vendaland c.1870-1900". Toxic Belonging? Identity and Ecology in southern Africa: Literature and Ecology Colloquium. Rhodes University, Grahamstown. October 2006.*

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

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

**Tsampiras,C**

*Tsampiras,C. "This is the new struggle, but how are we to fight it? Two responses to HIV and AIDS in the Eastern Cape, South Africa, 2000-2004". African Studies Association Conference. African Studies Association, UK. September 2006.*

**\*NOT AN ACCREDITED JOURNAL**

## CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

### Maylam,PR

Maylam,PR. Speaker. *"The Cult of Rhodes"*. UCT Centre for Conflict Resolution. UCT. Cape Town. June 2006.

### Wells,J

Wells,J. Facilitator. *"Oral History, Local and Provincial Histories"*. Workshop for GET and School-Based Educators. Eastern Cape Social Science (GET) Office. Port Alfred. 27 - 29 September 2006.

Wells,J. Keynote Speaker. *"From Rhetoric to Action, Taking Gender beyond Talking"*. Department of Social Welfare Learning Network Workshop. Department of Social Welfare. East London. November 2006.

### Wells,J and Mkhize,N

Wells,J, Mkhize,N and Greyling,S. Facilitators. *"Oral History for Educators"*. Eastern Cape Social Sciences Workshop. East London. September 2006.

## JOURNAL SUBSIDY UNITS

HISTORY	UNITS
<b>Baines,G</b>	
Baines,G. "Coming to terms with the past: Soweto, June 16th, 1976". <i>History Today</i> . 2006. 56(6),18-20.	1.00
<b>Msindo,E</b>	
Msindo,E. "Ethnicity Not Class? The 1929 Bulawayo Faction Fights Reconsidered". <i>Journal of Southern African Studies</i> . 2006. 32(3),429-447.	1.00
TOTAL FOR HISTORY	2.00

## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

HISTORY			
STUDENT	SUPERVISOR/S	M/D	UNITS
Gould	Maylam	D	3.00
TOTAL			3.00



## 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, Zschoernack 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 (Zschoernack 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 Zschoernack,S**

- \* *Goebel,M, Zschoernack,S and Yoo,J. "A Conceptual approach for ergonomic design of inspection tasks". *Occupational Ergonomics*. 2006. 6(2),59-73.*

**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,AI**

*Thatcher,A and Todd,AI. "Selected papers from CybErg 2005, the Fourth International Cyberspace Conference on Ergonomics". *International Journal of Industrial Ergonomics*. 2006. 36(12), 1021-1022.*

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

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

**Brune,C**

*Brune,C. "The accuracy of predicting the energy cost of lifting tasks". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 94-105.*

**Christie,CJ**

*Christie,CJ and Todd,AI. "Assessing manual materials handling tasks: physiological and biomechanical considerations". *Congress of the National Institute for Occupation Health and the South African Society of Occupational Medicine*. Johannesburg. August 2006.*

**Cripwell,A, Cowen,K and Skelton,S**

*Cripwell,A, Cowen,K and Skelton,S. "Static vs. dynamic maximal pushing at two common handle heights". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 200-210.*

**Elliott,A**

*Elliott,A. "Applicability of a sub-maximal Cycling protocol as a predictor of energy expenditure to manual materials handling tasks in situ". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 223-232.*

\*NOT AN ACCREDITED JOURNAL

**Hutchings,J**

Hutchings,J. "Application of regression equations to predict VO<sub>2</sub>/EE of lifting using a sub-maximal protocol". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 106-112.

**Scott,PA**

Scott,PA. "The critical role of ergonomics in improving safety, well being and efficiency of South African workers". *Congress of the National Institute for Occupation Health and the South African Society of Occupational Medicine*. Johannesburg. August 2006.

**Todd,AI**

Todd,AI and Cripwell,A. "Cost-Benefit analysis: Lessons to be learnt from environmental economics". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 164-173.

**Todd,AI and Christie,CJ**

Todd,AI and Christie,CJ. "Manual materials handling: The task and the human operators". *Congress of the National Institute for Occupation Health and the South African Society of Occupational Medicine*. Johannesburg. August 2006.

**Zschoernack,S and Goebel,M**

Zschoernack,S and Goebel,M. "Monitor position and muscular strain during minimal-invasive surgery". *Proceedings of ESSA 2006: The 9th Conference of the Ergonomics Society of South Africa*. Pretoria. January 2006. 190-198.

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

Christie,CJ, Scott,PA and James,G. "An analysis of the work demands placed on Chainsaw Operators during forestry work in South Africa". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

**Goebel,M**

Goebel,M and Yoo,JW. "Ergonomic product design for elderly users". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

**Goebel,M and Zschoernack,S**

Goebel,M and Zschoernack,S. "Considerations for an ergonomics design theory". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

**Mattison,MC**

Mattison,MC. "A biomechanical assessment of the effectiveness of a low-cost intervention of off-loading crates". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

**Scott,PA**

Scott,PA. "Ergonomics in industrially developing countries: Past developments and future directions". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

James,JP and Scott,PA. "IDC automotive industry tasks: kinetmatic, physiological and perceptual analyses". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

James,G and Scott,PA. "Computer operator responses to personalised adjustments made to standard computer workstations". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

#### **Todd,AI**

James,JP and Todd,AI. "Male and female pushing and pulling responses: slip, trip and fall implications". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

#### **Zschoernack,S and Goebel,M**

Zschoernack,S, Friesdorf,W and Goebel,M. "Monitor position and muscular strain during minimal-invasive surgery". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

Zschoernack,S, Friesdorf,W and Goebel,M. "Strain relevance of tasks and working conditions in the operating room". *Proceedings of the IEA2006 16th World Congress on Ergonomics*. Maastricht Convention Centre, Maastricht. Netherlands. July 2006.

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

#### **Goebel,M**

Goebel,M. Managers, Group leaders. "*General Motors Ergonomics Workshop*". General Motors. Port Elizabeth. 16 - 19 May 2006.

Goebel,M. Managers, Industrial Engineers. "*Continental Ergonomics Workshop*". Continental. Port Elizabeth. 29 May - 2 June 2006.

### **DISTINGUISHED VISITORS**

Dr D Mackau. Department for Human Factors and Industrial Engineering, RWTH Aachen, Aachen, Germany. Lecture. March 2006.

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

### **JOURNAL SUBSIDY UNITS**

<b>HUMAN KINETICS AND ERGONOMICS</b>	<b>UNITS</b>
<b>Scott,PA</b>	
James,G and Scott,PA. "Analysis of computer operator responses to personalised adjustments made to standard computer workstations". <i>Ergonomics SA</i> . 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". <i>Applied Ergonomics</i> . 2006. 37(6),785-792.	1.00
<b>TOTAL FOR HUMAN KINETICS AND ERGONOMICS</b>	<b>2.00</b>

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

<b>HUMAN KINETICS AND ERGONOMICS</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Christie	Scott	D	3.00
<b>TOTAL</b>			3.00

## ICHTHYOLOGY AND FISHERIES SCIENCE

Aquaculture research on kob, abalone and 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 (haematopoiesis) 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

Scott,LEP, Skelton,PH, Booth,AJ, Verheust,L, Harris,R and Dooley,J. Atlas of Southern African Freshwater Fishes. Smithiana Monograph. SAIAB. Grahamstown. 2006. 303 pp.

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

### Booth,AJ

Booth,AJ and Potts,WM. "Estimating gill-net selectivity for *Labeo umbratus* (Pisces: Cyprinidae) and an evaluation of using fyke-nets as a non-destructive sampling gear in small reservoirs". *Fisheries Research*. 2006. 79,202-209.

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.

Dicken,ML, Smale,MJ and Booth,AJ. "Shark fishing effort and catch of the raggedtooth shark (*Carcharias taurus*) in the South African competitive shore-angling fishery". *African Journal of Marine Science*. 2006. 28,589-601.

Dicken,ML, Smale,MJ and Booth,AJ. "Spatial and seasonal distribution patterns of the ragged-tooth shark (*Carcharias taurus*) along the coast of South Africa". *African Journal of Marine Science*. 2006. 28,603-616.

Fairweather,TP, van der Lingen,CD, Booth,AJ, Drapeau,L and van der Westhuizen,JJ. "Indicators of sustainable fishing for South African sardine (*Sardinops sagax*) and anchovy (*Engraulis encrasicolus*)". *African Journal of Marine Science*. 2006. 28(3&4),661-680.

Lukey,JR, Booth,AJ and Froneman,PW. "Fish population size and movement patterns in a small intermittently open South African estuary". *Estuarine Coastal and Shelf Science*. 2006. 67,10-20.

Rutaisire,J and Booth,AJ. "A histological description of ovarian recrudescence in two populations of *Labeo victorianus* populations". *African Journal of Aquatic Science*. 2005. 29,221-228.

Rutaisire,J, Muwazi,RT and Booth,AJ. "Ultrastructural description of spermiogenesis and spermatozoa in *Labeo victorianus*, Boulenger, 1901 (Pisces: Cyprinidae)". *African Journal of Ecology*. 2006. 44,102-105.

#### **Booth,AJ and Sauer,WHH**

Fairweather,TP, Booth,AJ, Sauer,WHH and Leslie,RW. "Spatial description of hake-directed fishing activity off the west coast of South Africa". *African Journal of Marine Science*. 2006. 28(1),13-24.

#### **Booth,AJ, Hecht,T and Andrew,T**

Potts,WM, Booth,AJ, Hecht,T and Andrew,T. "Predictor variables for moggel (*Labeo umbratus*) biomass and production in small South African reservoirs". *African Journal of Aquatic Science*. 2006. 31(1),107-118.

Potts,WM, Booth,AJ, Hecht,T and Andrew,T. "The life history and fishery potential of *Labeo umbratus* (Teleostei: Cyprinidae) in five small South African reservoirs". *African Journal of Aquatic Science*. 2006. 31(2),285-295.

#### **Hecht,T**

Kruitwagen,G, Hecht,T, Pratap,HB and Wengelaar-Bonga,SE. "Changes in morphology and growth of the mudskipper *Periodophthalmus argentinilineatus* associated with coastal pollution". *Marine Biology*. 2006. 149(2),201-211.

#### **Hecht,T and Kaiser,H**

Lockyear,JF, Hecht,T, Kaiser,H and Teske,PR. "The distribution and abundance of the endangered Knysna seahorse, *Hippocampus capensis* (Pisces: Syngnathidae) in South African estuaries". *African Journal of Aquatic Science*. 2006. 31(2),275-283.

#### **Kaiser,H**

Kaiser,H, Brill,G, Cahill,J, Collett,P, Czypionka,K, Green,A, Orr,K, Patrick,P, Scheepers,R, Stonier,T, Whitehead,MA and Yearsley,R. "Testing clove oil as an anaesthetic for long-distance transport of live fish: the case of Lake Victoria cichlid *Haplochromis obliquidens*". *Journal of Applied Ichthyology*. 2006. 22,510-514.

Kaiser,H, Gordon,AK and Paulet,G. "Review of the African distribution of the brine shrimp genus *Artemia*". *Water SA*. 2006. 32(4),597-603.

Naigaga,I and Kaiser,H. "A note on copper bioaccumulation in Mozambique tilapia *Oreochromis mossambicus*". *African Journal of Aquatic Science*. 2006. 31(1),119-124.

#### **Kerwath,SE**

Sink,KJ, Boshoff,W, Samaai,T, Timm,PG and Kerwath,SE. "Observations of the habitats and biodiversity of the submarine canyons at Sodwana bay". *South African Journal of Science*. 2006. 102,466-473.

#### **Naran,D**

Naran,D, Skelton,PH and Villet,MH. "Karyology of the redfin minnows genus *Pseudobarbus* Smith 1841 (Teleostei: Cyprinidae): one of the evolutionarily tetraploid lineages of South African barbines". *African Zoology*. 2006. 41(2),178-182.

**Richardson,N**

Richardson,N, Whitfield,AK and Paterson,AK. "The influence of selected environmental parameters on the distribution of the dominant fishes in the Kariega estuary channel, South Africa". *African Zoology*. 2006. 41(1),89-102.

**Sauer,WHH**

Kerwath,SE, Götz,A, Wilke,C, Attwood,CG and Sauer,WHH. "A comparative evaluation of three methods used to tag South African linefish". *African Journal of Marine Science*. 2006. 28(3&4),637-643.

Walmsley,SA, Leslie,RW and Sauer,WHH. "Managing South Africa's trawl bycatch". *ICES Journal of Marine Science*. 2006. 1-8.

**Sauer,WHH and Booth,AJ**

Olyott,LJH, Sauer,WHH and Booth,AJ. "Spatio-temporal patterns in maturation of the chokka squid (*Loligo vulgaris reynaudii*) off the coast of South Africa". *ICES Journal of Marine Science*. 2006. 63,1649-1664.

**Vine,NG and Kaiser,H**

Vine,NG, Leukes,WD and Kaiser,H. "Probiotics in marine larviculture". *FEMS Microbiology Reviews*. 2006. 30,404-427.

**Weyl,OLF**

Weyl,OLF and Lewis,H. "First record of predation by the alien invasive freshwater fish *Micropterus salmoides* L. (Centrarchidae) on migrating estuarine fishes in South Africa". *African Zoology*. 2006. 41(2),294-296.

**OTHER PUBLICATIONS****Britz,PJ**

Britz,PJ. "Development of Responsible Aquaculture Policy for the BCLME Region: Implementation Plan for BCLME Regional Aquaculture Policy Options". Prepared by EnvirofishAfrica (Pty) Ltd. for the Benguela Current Large Marine Ecosystem Programme.

**Hecht,T**

Hecht,T. "Book Review of Urban Aquaculture". Costa-Pierce, B.A (eds) *African Journal of Aquatic Science*. Cabi Publishing. New York. 2006. 31, 163-164.

**James,NPE**

James,NPE. "Guidelines for the operation of Hatcheries". Water Research Commission WRC Project K5/1580/4: Participatory Development of Provincial Aquaculture Programmes for Improved Rural Food Security and Livelihood Alternatives. 2006. 1-42.

**Rouhani,QA**

Rouhani,QA and Hinrichsen,E. "Aquaculture Marketing Guidelines". Water Research Commission WRC Project K5/1580/4: Participatory Development of Provincial Aquaculture Programmes for Improved Rural Food Security and Livelihood Alternatives. 2006. 1-24.

**Vine,NG**

Vine,NG. "Fish Pond Culture in Rural South Africa - A manual for extension". Water Research Commission WRC Project K5/1580/4: Participatory Development of Provincial Aquaculture Programmes for Improved Rural Food Security and Livelihood Alternatives. Water Research Commission. 2006. 1-97.

Vine,NG. "Fish Pond Culture in Rural South Africa - A manual for farmers". Water Research Commission WRC Project K5/1580/4: Participatory Development of Provincial Aquaculture Programmes for Improved Rural Food Security and Livelihood Alternatives. Water Research Commission. 2006. 1-84.



Vine,NG. "A guideline for the production of quality fish in South African rural aquaculture". Water Research Commission WRC Project K5/1580/4: Participatory Development of Provincial Aquaculture Programmes for Improved Rural Food Security and Livelihood Alternatives. 2006. 1-11.

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

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

###### **Rouhani,QA and Britz,PJ**

Rouhani,QA, Hlatwayo,M, Backeberg,G and Britz,PJ. "Defining a new role for South African Universities: Engaging government to assist in achieving national goals". *The 1st All Africa Technology Diffusion Conference 2006*. Birchwood Executive Hotel and Conference Centre, Boksburg. June 2006.

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

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

###### **Britz,PJ**

Britz,PJ. "The outlook for aquaculture development in southern Africa". *Fisheries and Aquaculture in southern Africa, Development and Management*. Windhoek Country Club, Windhoek. Namibia. August 2006.

Raemaekers,R, Godfrey,BP and Britz,PJ. "Assessing fishing effort and behaviour in the illegal abalone fishery of Port Elizabeth, South Africa". *VI International Abalone Symposium*. University de Los Lagos, Puerto Montt. Chile. February 2006.

###### **Britz,PJ and Jones,CLW**

Britz,PJ and Jones,CLW. "Review of Abalone Feeding Options in South Africa". *VI International Abalone Symposium*. University de Los Lagos, Puerto Montt. Chile. February 2006.

###### **Hecht,T**

Hecht,T. "A synopsis of aquaculture in sub Saharan Africa". *FAO/NACA Global Aquaculture Review Workshop*. Guangzhou. China. March 2006.

Hecht,T. "A review of feeds and fertilizers for sustainable aquaculture development in sub-saharan African countries". *FAO Aquafeeds Workshop*. Wuxi. China. March 2006.

Hecht,T and Ende,S. "Osteological development of the feeding apparatus in the white-margined sole, *Synaptura marginata*". *World Aquaculture Society Conference*. Florence. Italy. May 2006.

###### **Jones,CLW and Britz,PJ**

Jones,CLW and Britz,PJ. "Development of a low-protein, water stable kelp diet for the South African abalone culture industry". *VI International Abalone Symposium*. University de Los Lagos, Puerto Montt. Chile. February 2006.

###### **Sauer,WHH**

Sauer,WHH. "The daily spawning cycle of *Loligo vulgaris reynaudii*". *Cephalopod Life Cycles*. Hotel Grand Chancellor, Hobart. Tasmania. February 2006. 63.

###### **Vine,NG**

Vine,NG. "Probiotics in marine fish larviculture". *Australasian Aquaculture*. Adelaide Conference Centre, Adelaide. Australia. August 2006.

**Weyl,OLF**

Weyl,OLF. "The Nile tilapia *Oreochromis niloticus* invasion of Lake Chicamba, Manica Province, Mozambique". *Southern African Society of Aquatic Scientists/ Phycological Society of Southern Africa, Joint Conference – "From Source To Sea"*. Rovuma Polana, Maputo. Mozambique. June 2006.

**JOURNAL SUBSIDY UNITS**

<b>ICHTHYOLOGY AND FISHERIES SCIENCE</b>	<b>UNITS</b>
<b>Booth,AJ</b>	
Booth,AJ and Potts,WM. "Estimating gill-net selectivity for <i>Labeo umbratus</i> (Pisces: Cyprinidae) and an evaluation of using fyke-nets as a non-destructive sampling gear in small reservoirs". <i>Fisheries Research</i> . 2006. 79,202-209.	1.00
Booth,AJ and Quinn,TJ. "Maximum likelihood and Bayesian approaches to stock assessment when data are questionable". <i>Fisheries Research</i> . 2006. 80,169-181.	0.50
Dicken,ML, Booth,AJ and Smale,MJ. "Preliminary observations of tag shedding, tag reporting, tag wounds and tag biofouling for raggedtooth sharks ( <i>Carcharias taurus</i> ) tagged off the east coast of South Africa". <i>ICES Journal of Marine Science</i> . 2006. 63(9),1640-1648.	0.67
Dicken,ML, Smale,MJ and Booth,AJ. "Shark fishing effort and catch of the raggedtooth shark ( <i>Carcharias taurus</i> ) in the South African competitive shore-angling fishery". <i>African Journal of Marine Science</i> . 2006. 28,589-601.	0.67
Dicken,ML, Smale,MJ and Booth,AJ. "Spatial and seasonal distribution patterns of the ragged-tooth shark ( <i>Carcharias taurus</i> ) along the coast of South Africa". <i>African Journal of Marine Science</i> . 2006. 28,603-616.	0.67
Fairweather,TP, van der Lingen,CD, Booth,AJ, Drapeau,L and van der Westhuizen,JJ. "Indicators of sustainable fishing for South African sardine ( <i>Sardinops sagax</i> ) and anchovy ( <i>Engraulis encrasicolus</i> )". <i>African Journal of Marine Science</i> . 2006. 28(3&4),661-680.	0.20
Lukey,JR, Booth,AJ and Froneman,PW. "Fish population size and movement patterns in a small intermittently open South African estuary". <i>Estuarine Coastal and Shelf Science</i> . 2006. 67,10-20.	0.33
Rutaisire,J and Booth,AJ. "A histological description of ovarian recrudescence in two populations of <i>Labeo victorianus</i> populations". <i>African Journal of Aquatic Science</i> . 2005. 29,221-228.	0.50
Rutaisire,J, Muwazi,RT and Booth,AJ. "Ultrastructural description of spermiogenesis and spermatozoa in <i>Labeo victorianus</i> , Boulenger, 1901 (Pisces: Cyprinidae)". <i>African Journal of Ecology</i> . 2006. 44,102-105.	0.34
<b>Booth,AJ and Sauer,WHH</b>	
Fairweather,TP, Booth,AJ, Sauer,WHH and Leslie,RW. "Spatial description of hake-directed fishing activity off the west coast of South Africa". <i>African Journal of Marine Science</i> . 2006. 28(1),13-24.	0.75
<b>Booth,AJ, Hecht,T and Andrew,T</b>	
Potts,WM, Booth,AJ, Hecht,T and Andrew,T. "Predictor variables for moggel ( <i>Labeo umbratus</i> ) biomass and production in small South African reservoirs". <i>African Journal of Aquatic Science</i> . 2006. 31(1),107-118.	1.00
Potts,WM, Booth,AJ, Hecht,T and Andrew,T. "The life history and fishery potential of <i>Labeo umbratus</i> (Teleostei: Cyprinidae) in five small South African reservoirs". <i>African Journal of Aquatic Science</i> . 2006. 31(2),285-295.	1.00
<b>Hecht,T</b>	
Kruitwagen,G, Hecht,T, Pratap,HB and Wengelaar-Bonga,SE. "Changes in morphology and growth of the mudskipper <i>Periodophthalmus argentinilineatus</i> associated with coastal pollution". <i>Marine Biology</i> . 2006. 149(2),201-211.	0.25
<b>Hecht,T and Kaiser,H</b>	
Lockyear,JF, Hecht,T, Kaiser,H and Teske,PR. "The distribution and abundance of the endangered Knysna seahorse, <i>Hippocampus capensis</i> (Pisces: Syngnathidae) in South African estuaries". <i>African Journal of Aquatic Science</i> . 2006. 31(2),275-283.	0.75

<b>Kaiser,H</b>		
<i>Kaiser,H, Brill,G, Cahill,J, Collett,P, Czepionka,K, Green,A, Orr,K, Patrick,P, Scheepers,R, Stonier,T, Whitehead,MA and Yearsley,R.</i> "Testing clove oil as an anaesthetic for long-distance transport of live fish: the case of Lake Victoria cichlid <i>Haplochromis obliquidens</i> ". <i>Journal of Applied Ichthyology</i> . 2006. 22,510-514.		1.00
<i>Kaiser,H, Gordon,AK and Paulet,G.</i> "Review of the African distribution of the brine shrimp genus <i>Artemia</i> ". <i>Water SA</i> . 2006. 32(4),597-603.		0.67
<i>Naigaga,I and Kaiser,H.</i> "A note on copper bioaccumulation in Mozambique tilapia <i>Oreochromis mossambicus</i> ". <i>African Journal of Aquatic Science</i> . 2006. 31(1),119-124.		1.00
<b>Kerwath,SE</b>		
<i>Sink,KJ, Boshoff,W, Samaai,T, Timm,PG and Kerwath,SE.</i> "Observations of the habitats and biodiversity of the submarine canyons at Sodwana bay". <i>South African Journal of Science</i> . 2006. 102,466-473.		0.20
<b>Naran,D</b>		
<i>Naran,D, Skelton,PH and Villet,MH.</i> "Karyology of the redfin minnows genus <i>Pseudobarbus</i> Smith 1841 (Teleostei: Cyprinidae): one of the evolutionarily tetraploid lineages of South African barbines". <i>African Zoology</i> . 2006. 41(2),178-182.		0.34
<b>Richardson,N</b>		
<i>Richardson,N, Whitfield,AK and Paterson,AK.</i> "The influence of selected environmental parameters on the distribution of the dominant fishes in the Kariega estuary channel, South Africa". <i>African Zoology</i> . 2006. 41(1),89-102.		0.34
<b>Sauer,WHH</b>		
<i>Kerwath,SE, Götz,A, Wilke,C, Attwood,CG and Sauer,WHH.</i> "A comparative evaluation of three methods used to tag South African linefish". <i>African Journal of Marine Science</i> . 2006. 28(3&4),637-643.		0.60
<i>Walmsley,SA, Leslie,RW and Sauer,WHH.</i> "Managing South Africa's trawl bycatch". <i>ICES Journal of Marine Science</i> . 2006. 1-8.		0.67
<b>Sauer,WHH and Booth,AJ</b>		
<i>Olyott,LJH, Sauer,WHH and Booth,AJ.</i> "Spatio-temporal patterns in maturation of the chokka squid ( <i>Loligo vulgaris reynaudii</i> ) off the coast of South Africa". <i>ICES Journal of Marine Science</i> . 2006. 63,1649-1664.		0.67
<b>Vine,NG and Kaiser,H</b>		
<i>Vine,NG, Leukes,WD and Kaiser,H.</i> "Probiotics in marine larviculture". <i>FEMS Microbiology Reviews</i> . 2006. 30,404-427.		0.67
<b>Weyl,OLF</b>		
<i>Weyl,OLF and Lewis,H.</i> "First record of predation by the alien invasive freshwater fish <i>Micropterus salmoides</i> L. (Centrarchidae) on migrating estuarine fishes in South Africa". <i>African Zoology</i> . 2006. 41(2),294-296.		1.00
<b>TOTAL FOR ICHTHYOLOGY AND FISHERIES SCIENCE</b>		<b>15.79</b>

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

<b>ICHTHYOLOGY AND FISHERIES SCIENCE</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Childs	Booth	M	1.00
Khumalo	Booth	M	1.00
King	Sauer	M	1.00
Smith	Britz/Sauer	M	1.00
Dicken	Booth	D	3.00
Goetz	Sauer	D	3.00
Kerwath	Sauer	D	3.00
<b>TOTAL</b>			<b>13.00</b>

## 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.

Areas of research included: Information Systems security, website design, e-Marketing, e-Learning, database functionality, customer relationship management, mobile commerce, ICT for sustainable development, alignment of business and IT strategy, ICT Service management, ICT sustainability reporting.

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), CITTE (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'.

<b>Status of Post-Graduate Programme</b>		
<b>Level</b>	<b>Registered (2006)</b>	<b>Expected to Graduate (April, 2007)</b>
Honours (full-time)	19	19
Honours (part-time)	2	0
Master's	4	1
Doctoral	2	1

PROFESSOR D.A. SEWRY  
HEAD OF DEPARTMENT

## BOOKS/CHAPTERS/MONOGRAPHS

### **Benyon,RV and Johnston,RB**

*Benyon,RV and Johnston,RB. Service Agreements – A Management Guide. Van Haren. Zaltbommel-NL. 2006. 90 pp.*

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

### **Mallinson,BJ and Sewry,DA**

*Krull,GE, Mallinson,BJ and Sewry,DA. "Describing online learning content to facilitate resource discovery and sharing: the development of RU LOM Core". *Journal of Computer Assisted Learning*. 2006. 22,172-181.*

### **Sewry,DA**

*Elliott,RM and Sewry,DA. "The influence of organisational factors in small tourism businesses on the success of Internet marketing". *South African Computer Journal*. 2006. 37,41-50.*

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

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

#### **Forrester,JI**

*Illgner,A and Forrester,JI. "Identifying Potential Sources of Evidence for Social Engineering Attacks". *9th Annual Southern African Telecommunication Networks and Applications Conference (SATNAC)*. Spier Estate, Stellenbosch. September 2006. 479-480.*

#### **Mallinson,BJ and Sewry,DA**

*Pade,CI, Mallinson,BJ and Sewry,DA. "An Investigation of ICTs for Rural Development: The Possible Application of ICT Project Management Techniques for Sustainable ICT Projects in Rural Development". *SANGONet Conference*. Indaba Hotel, Johannesburg. March 2006. 1-25.*

*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**

*Palmer,L and Sewry,DA. "The Implementation and Evolution of the Honours Internship Programme in the Department of Information Systems at Rhodes University". *36th Annual Conference of the Southern African Computer Lecturers Association (SACLA)*. Lord Charles Hotel, Somerset West. June 2006. 1-19.*

#### **Sewry,DA**

*Roets,RA and Sewry,DA. "ICT: Irrelevant to transformation in Higher Education Institutions". *Conference on Information Technology in Tertiary Education (CITTE)*. St Georges Hotel, Pretoria. September 2006. 1-17.*

#### **Sunassee,NN**

*Sunassee,NN and Buchanan,JP. "Using personal knowledge networks to enhance intellectual capital in the organisation". *ISMICK 11th International Conference on the Management of Industrial and Corporate Knowledge*. Stellenbosch University, Stellenbosch. August 2006. 1-6.*

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

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

**Mallinson,BJ**

*Mallinson,BJ and Miller,F. "A Theoretical Model for Online Simulation Design and Development". eLearn 2006. Honolulu. Hawaii USA. October 2006. 1680-1687.*

**DISTINGUISHED VISITORS**

Professor M Sainsbury. UTiSUN Couriers, Johannesburg. Lecture and Research. October 2006.

Professor J Traxler. University of Wolverhampton, Wolverhampton, United Kingdom. Workshop and Research. March 2006.

**JOURNAL SUBSIDY UNITS**

<b>INFORMATION SYSTEMS</b>		<b>UNITS</b>
<b>Mallinson,BJ and Sewry,DA</b>		
<i>Krull,GE, Mallinson,BJ and Sewry,DA. "Describing online learning content to facilitate resource discovery and sharing: the development of RU LOM Core". Journal of Computer Assisted Learning. 2006. 22,172-181.</i>		1.00
<b>Sewry,DA</b>		
<i>Elliott,RM and Sewry,DA. "The influence of organisational factors in small tourism businesses on the success of Internet marketing". South African Computer Journal. 2006. 37,41-50.</i>		0.50
<b>TOTAL FOR INFORMATION SYSTEMS</b>		1.50

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

<b>INFORMATION SYSTEMS</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Benyon	Sewry	M	1.00
Charlesworth	Sewry	M	1.00
Johnston	Sewry	M	1.00
<b>TOTAL</b>			3.00

## 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 8<sup>th</sup> 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 14<sup>th</sup> 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.

As part of ongoing research into the place of the humanities in southern Africa, the Director published 'A Research Prospectus for the Humanities' in the collection *Shifting Boundaries of Knowledge* (UKZN Press, 2006) and a companion piece, 'The Humanities, Vocationalism and the Public Good,' is forthcoming in the *English Academy Review* (2006). A paper on 'Schopenhauer, JM Coetzee and who we are in the world', given at the 3<sup>rd</sup> Literature and Ecology Colloquium in Grahamstown in September, is to appear in *Toxic belonging, Identity and ecology in southern Africa*, edited by Dan Wylie and published by the Cambridge Scholar's 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 Skeen, 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

*Hendricks, MG.* "Response: Brown v. Board: With all deliberate speed?". In: Ball, AF (eds) *With More Deliberate Speed: Achieving Equity and Excellence in Education - Realizing the Full Potential of Brown V. Board of Education*. Blackwell Publishing. Malden, Mass. 2006. 1(2), 274-295. ISBN:0077-5762.

**Mann,CM**

*Mann,CM.* "Kariega Metaphors". In: Ferguson, G (eds) *Birds in Words*. Umuzi. Cape Town. 2006. 56.

*Mann,CM.* "Mandela's Cell". In: Bartlett, R (eds) *Halala Madiba*. Aflame Books. Laverstock, Britain. 2006. 279.

*Mann,CM.* "Valley". In: Moffett, H (eds) *Lovely beyond any singing*. Double Storey. Cape Town. 2006. 147-148.

*Mann,CM.* "Where is the freedom for which we died?". In: Bartlett, R (eds) *Halala Madiba*. Aflame Books. Laverstock, Britain. 2006. 201-202.

*Mann,CM, Craig,AJF and Skeen,J.* *Lifelines*. University of KwaZulu-Natal. Maritzburg. 2006. 85 pp.

**Wright,LS**

*Wright,LS.* "A research prospectus for the humanities". In: Marcus, T and Hofmaenner, A (eds) *Shifting Boundaries of Knowledge: A view on social sciences, law and humanities in South Africa*. University of KwaZulu-Natal Press. Pietermaritzburg. 2006. 65-78. ISBN:1-86914-106-7.

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

\*

**Hendricks,MG**

*Hendricks,MG.* "Candid tour of Eastern Cape rural schools". *South African Labour Bulletin*. 2006. 30(3),44-46.

**Mann,CM**

*Mann,CM.* "Electric Ray". *English Academy Review*. 2004. 21,167-168.

*Mann,CM.* "A Meditation at Nongqause's Grave". *English Academy Review*. 2004. 21,169.

**Probyn,MJ**

\*

*Probyn,MJ.* "Language and learning science in South Africa". *Language and Education*. 2006. 20(5),391-414.

**Rasana,NH**

*Rasana,NH.* "The reading preferences of Grade 11 ESL learners in the Eastern Cape, South Africa". *Southern African Linguistics and Applied Language Studies*. 2006. 24,43-58.

**Wright,LS**

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

*Wright,LS.* "The relevance of (South African) renaissance studies". *Shakespeare in Southern Africa*. 2005. 17,19-25.

*Wright,LS.* "Re-positioning renaissance studies in South Africa". *Shakespeare in Southern Africa*. 2006. 18,1-9.

**OTHER PUBLICATIONS****Mann,CM**

*Mann,CM.* "Mandela's Cell". Ancer, J (eds) *Grocott's Mail*. Grahamstown. 2006. (21), 11.

\*NOT AN ACCREDITED JOURNAL



Mann,CM. "Aardvark". Ancer, J (eds) Grocott's Mail. Grahamstown. 2006. (22), 7.

Mann,CM. "How failed brakes became Lifelines (full version of above)". Ancer, J (eds) Grocott's Mail. Grahamstown. 2006. (22), 7.

Mann,CM. "Prodigal Sons". Haffajee, F (eds) Mail and Guardian. Mail and Guardian Newspapers. Johannesburg. 2006. (3), 32.

Mann,CM. "There's much to learn from the absent aardvark". Greig, R (eds) Sunday Independent. Independent Newspapers. Johannesburg. 2006. (20), 11.

Mann,CM. "A Love Poem to the Trinity". Whisson, M (eds) The Spire. Grahamstown Cathedral. Grahamstown. 2006.

#### **Wright,LS**

Wright,LS. "Language Planning and Policy in Africa". Language Policy. 2004. 16, 1-4.

Wright,LS. "Much Ado about Nothing at Mannville, February 2006". Pearce, B (eds) Shakespeare in Southern Africa. Shakespeare Society of Southern Africa. 2006. 18, 63-66.

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

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

#### **Mann,CM**

Mann,CM. "Poinsettia, Sweet-Potatoes and other poems". *National Research Foundation Colloquium: Literary tourism in KwaZulu-Natal*. Rob Roy Hotel, Durban. November 2005. 112-118.

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

#### **Mann,CM**

Mann,CM. Author and performer. "*Seeing the Cosmos in a Grain of Sand*". Rhodes University. Grahamstown. 3 May 2006.

Mann,CM. Author and performer. "*Lifelines*". Herschel School. Cape Town. 15 June 2006.

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

Mann,CM. Author and performer. "*Lifelines*". Diocesan College. Cape Town. 16 June 2006.

Mann,CM. Author and performer. "*Lifelines*". University of Stellenbosch. Stellenbosch. 16 June 2006.

Mann,CM. Author and interviewee. "*Lifelines*". Safm. Johannesburg. 16 June 2006.

Mann,CM. Author and interviewee. "*Lifelines*". Safm. Johannesburg. 17 June 2006.

Mann,CM. Author and performer. "*Lifelines*". Baobab Book Shop. Cape Town. 17 June 2006.

Mann,CM. Author and performer. "*Lifelines*". International Conference Centre. Cape Town. 17 June 2006.

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

Mann,CM. Author and performer. "*Lifelines*". Grahamstown Cathedral. Grahamstown. 30 June 2006.

Mann,CM. Wordfest convenor and interviewee. "*Wordfest*". Safm. Johannesburg. July 2006.

*Mann, CM.* Wordfest convenor and interviewee. *"Wordfest"*. SATV. Johannesburg. 2 July 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Grahamstown Cathedral. Grahamstown. 4 July 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Grahamstown Cathedral. Grahamstown. 6 July 2006.

*Mann, CM.* Author and performer. *"Seeing the Cosmos in a Grain of Sand"*. Rhodes: Royal Society Lecture. Grahamstown. 17 August 2006.

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

*Mann, CM.* Author and interviewee. *"Lifelines"*. Radio 702. Johannesburg. 21 August - 21 July 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. *"Seeing the Cosmos in a Grain of Sand"*. English Department, Pretoria University. Pretoria. 24 August 2006.

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

*Mann, CM.* Author and performer. *"Lifelines"*. Rhodes: Palaeontological Society of SA. Grahamstown. 8 September 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Methodist Men's League. Grahamstown. 18 October 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Rhodes: Ecology Education Unit. Grahamstown. 9 November 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Rhodes: Ecology Education Unit. Grahamstown. 2 December 2006.

*Mann, CM.* Author and performer. *"Lifelines"*. Rhodes: Ecology Education Unit. Grahamstown. 7 December 2006.

## **OVERSEAS RESEARCH OR FURTHER STUDY**

### **Wright, LS**

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

#### JOURNAL SUBSIDY UNITS

INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA		UNITS
<b>Mann,CM</b>		
<i>Mann,CM. "Electric Ray". English Academy Review. 2004. 21,167-168.</i>		1.00
<i>Mann,CM. "A Meditation at Nongqause's Grave". English Academy Review. 2004. 21,169.</i>		1.00
<b>Rasana,NH</b>		
<i>Rasana,NH. "The reading preferences of Grade 11 ESL learners in the Eastern Cape, South Africa". Southern African Linguistics and Applied Language Studies. 2006. 24,43-58.</i>		1.00
<b>Wright,LS</b>		
<i>Wright,LS. "The humanities, vocationalism and the public good". English Academy Review. 2006. 23(2),127-146.</i>		1.00
<i>Wright,LS. "The relevance of (South African) renaissance studies". Shakespeare in Southern Africa. 2005. 17,19-25.</i>		1.00
<i>Wright,LS. "Re-positioning renaissance studies in South Africa". Shakespeare in Southern Africa. 2006. 18,1-9.</i>		1.00
TOTAL FOR INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA		6.00

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

INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA			
STUDENT	SUPERVISOR/S	M/D	UNITS
TOTAL			0.00

## **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<sup>th</sup> 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 *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**

*Kaiser,H, Gordon,AK and Paulet,G.* "Review of the African distribution of the brine shrimp genus *Artemia*". *Water SA*. 2006. 32(4),597-603.

### **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.* "A simple model for assessing utilizable streamflow allocations in the context of the ecological Reserve". *Water SA*. 2006. 32(3),411-417.

*Andersson,L, Wilk,J, Todd,MC, Hughes,DA, Earle,A, Kniveton,DA, Layberry,R and Savenije,HHG.* "Impact of climate change and development scenarios on flow patterns in the Okavango River". *Journal of Hydrology*. 2006. 331,43-57.

*Hughes,DA, Andersson,L, Wilk,J and Savenije,HHG.* "Regional calibration of the Pitman model for the Okavango River". *Journal of Hydrology*. 2006. 331,30-42.

*Smakhtin,VU, Shilpakar,RL and Hughes,DA.* "Hydrology-based assessment of environmental flows: An example from Nepal". *Hydrological Sciences Journal*. 2006. 51(2),207-222.

*Wilk,J, Kniveton,D, Andersson,L, Layberry,R, Todd,MC, Hughes,DA, Ringrose,S and Vanderpost,C.* "Estimating rainfall and water balance over the Okavango River basin for hydrological applications". *Journal of Hydrology*. 2006. 331,18-29.

### **Hughes,DA and Forsyth,DA**

*Hughes,DA and Forsyth,DA.* "A generic database and spatial interface for the application of hydrological and water resource models". *Computers and Geosciences*. 2006. 32,1389-1402.

### **Muller,WJ**

*Villet,MH, MacKenzie,B and Muller,WJ.* "Larval development of the carrion-breeding flesh fly *Sarcophaga (Liosarcophaga) tibialis* Macquart (Diptera: Sarcophagidae) at constant temperatures". *African Entomology*. 2006. 14(2),357-366.

### **Rivers-Moore,NA and Birkholz,SA**

*Rivers-Moore,NA, de Moore,FC, Birkholz,SA and Palmer,TG.* "Estimation of preferred water flow parameters for four species of *Simulium* (Diptera: Simuliidae) in small clear streams in South Africa". *African Journal of Aquatic Science*. 2006. 31(2),261-269.

### **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

Villet,MH and Muller,WJ. "The six-legged flying squad". Lickindorf, E (eds) Quest. Academy of Science South Africa. 2006. 2(4), 24-27.

## JOURNAL SUBSIDY UNITS

INSTITUTE FOR WATER RESEARCH		UNITS
<b>Gordon,AK</b>		
Kaiser,H, Gordon,AK and Paulet,G. "Review of the African distribution of the brine shrimp genus <i>Artemia</i> ". <i>Water SA</i> . 2006. 32(4),597-603.		0.33
<b>Hughes,DA</b>		
Hughes,DA. "Comparison of satellite rainfall data with observations from gauging station networks". <i>Journal of Hydrology</i> . 2006. 327(3),399-410.		1.00
Hughes,DA. "A simple model for assessing utilizable streamflow allocations in the context of the ecological Reserve". <i>Water SA</i> . 2006. 32(3),411-417.		1.00
Andersson,L, Wilk,J, Todd,MC, Hughes,DA, Earle,A, Kniveton,DA, Layberry,R and Savenije,HHG. "Impact of climate change and development scenarios on flow patterns in the Okavango River". <i>Journal of Hydrology</i> . 2006. 331,43-57.		0.13
Hughes,DA, Andersson,L, Wilk,J and Savenije,HHG. "Regional calibration of the Pitman model for the Okavango River". <i>Journal of Hydrology</i> . 2006. 331,30-42.		0.25
Smakhtin,VU, Shilpakar,RL and Hughes,DA. "Hydrology-based assessment of environmental flows: An example from Nepal". <i>Hydrological Sciences Journal</i> . 2006. 51(2),207-222.		0.34
Wilk,J, Kniveton,D, Andersson,L, Layberry,R, Todd,MC, Hughes,DA, Ringrose,S and Vanderpost,C. "Estimating rainfall and water balance over the Okavango River basin for hydrological applications". <i>Journal of Hydrology</i> . 2006. 331,18-29.		0.13
<b>Hughes,DA and Forsyth,DA</b>		
Hughes,DA and Forsyth,DA. "A generic database and spatial interface for the application of hydrological and water resource models". <i>Computers and Geosciences</i> . 2006. 32,1389-1402.		1.00
<b>Muller,WJ</b>		
Villet,MH, MacKenzie,B and Muller,WJ. "Larval development of the carrion-breeding flesh fly <i>Sarcophaga (Liosarcophaga) tibialis</i> Macquart (Diptera: Sarcophagidae) at constant temperatures". <i>African Entomology</i> . 2006. 14(2),357-366.		0.34
<b>Rivers-Moore,NA and Birkholz,SA</b>		
Rivers-Moore,NA, de Moore,FC, Birkholz,SA and Palmer,TG. "Estimation of preferred water flow parameters for four species of <i>Simulium</i> (Diptera: Simuliidae) in small clear streams in South Africa". <i>African Journal of Aquatic Science</i> . 2006. 31(2),261-269.		0.50
<b>Sawunyama,T</b>		
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". <i>Physics and Chemistry of the Earth</i> . 2006. 31,935-943.		0.34
TOTAL FOR INSTITUTE FOR WATER RESEARCH		5.36

## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

INSTITUTE FOR WATER RESEARCH			
STUDENT	SUPERVISOR/S	M/D	UNITS
Maseti	Muller	M	1.00
Claasen	Palmer	D	3.00
TOTAL			4.00

## **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**

Wiersum,KF, *Cocks,ML*, *Dold,AP* and *Husselman,ML*. "Cultivation of Medicinal Plants as a Tool for Biodiversity Conservation and Poverty Alleviation in the Amatola Region South Africa". In: *Bogers,RJ, Craker,LE and Lange , D (eds) Medicinal and Aromatic Plants*. Springer. Netherlands. 2006. 17(Chapter 3), 43-57. ISBN:978-1-4020-5447-1.

### **Ruiters,G**

*Ruiters,G*. "Rethinking Privatisation". In: *Chavez, D (eds) Beyond the market, the future of public services*. Transnational Institute. Amsterdam. 2006. 9-22.

*Ruiters,G*. "Social Control and Social Welfare under Neoliberalism in South African cities: Contradictions in Free Basic Water Services". In: *Murray,MJ and Myers, GA (eds) Cities in Contemporary Africa*. Palgrave Macmillan. New York. 2006. 289-308.

*Ruiters,G*. "South Africa, public services transformation or stasis". In: *Chavez, D (eds) Beyond the market, the future of public services*. Transnational Institute. Amsterdam. 2006. 139-148.

*Smith,L and Ruiters,G*. "The public/private conundrum of urban water". In: *Heynan,N, Kaika,M and Swyngedouw, E (eds) Routledge*. London. 2006. 191-207.

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

### **Cocks,ML**

Cocks,ML. "Biocultural Diversity: Moving beyond the realm of 'Indigenous' and 'Local' People". *Human Ecology*. 2006. 34(2),185-200.

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.

Cocks,ML and Dold,AP. "Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". *Journal of Ethnobiology*. 2006. 26(1),60-81.

Pote,J, Shackleton,CM, Cocks,ML and Lubke,R. "Fuelwood harvesting and selection in Valley Thicket, South Africa". *Journal of Arid Environments*. 2006. 67,270-287.

### **Møller,V**

Møller,V. "Quality of life in South Africa: The first ten years of democracy". *Social Indicators Research*. 2006. Online,1-20.

Møller,V. "Satisfied and dissatisfied South Africans: Results from the General Household Survey in international comparison". *Social Indicators Research*. 2006. Online,1-27.

## **OTHER PUBLICATIONS**

### **Cocks,ML**

Dold,AP and Cocks,ML. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa – a retrospective". Styles, D (eds) *Plantlife*. Botanical Society of South Africa. Durban. 2006. 32, 27-28.

Dold,AP and Cocks,ML. "Ikhubalo likaMlanjeni – Mlanjeni's war charms". Voget, C (eds) *Veld and Flora*. Botanical Society of South Africa. Cape Town. 2006. 92(1), 26-27.

Dold,AP and Cocks,ML. "Izaci namaqhalo esiXhosa—Xhosa idioms and proverbs referring to plants". Voget, C (eds) *Veld and Flora*. Botanical Society of South Africa. Cape Town. 2006. 92(2), 86-88.

### **Møller,V and Erstad,I**

Møller,V and Erstad,I. "TB is Not an Easy Thing': Focused discussions on the stigma related to tuberculosis in the Eastern Cape in a time of HIV/AIDS. Grahamstown. 2006. (1), 77.

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

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

### **Cocks,ML**

Cocks,ML and Bangay,L. "The significance of natural resources to urban households: Implications for bio-cultural diversity in South Africa". *Fourth Natural Forests and Savanna Woodlands Symposium "Multiple Use Management of Natural Forests and Woodlands: Policy Refinement and Scientific Progress*. May 2006.

Cocks,ML, Bangay,L, Shackleton,CM and Wiersum,F. "Rich man poor man': Inter-household and community factors influencing the use of wild plant resources amongst rural households in South Africa". *Thicket Forum*. July 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.

Cocks,ML and Dold,AP. "Cultural significance of biodiversity The role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". *7th Conference of the International Society for Quality-of-Life Studies (ISQOLS)*. Rhodes University, Grahamstown. July 2006.

**Farrington,K**

Farrington,K. "Sense of place in an environment of change". *Literature and Environments Colloquium*. Rhodes University, Grahamstown. October 2006.

**Huschka,D**

Huschka,D. "Prospects for Quality of Life in the New Millennium". *7th Conference of the International Society for Quality-of-Life Studies*. Rhodes University, Grahamstown. July 2006.

**Møller,V**

Møller,V. "What makes for satisfied and dissatisfied South Africans? Results from the General Household Survey in international comparison". *XVI World Congress of Sociology*. International Convention Centre, Durban. July 2006. 172.

**Møller,V and Erstad,I**

Møller,V and Erstad,I. "The good and the bad times of life: Narratives on subjective well-being in the Eastern Cape, South Africa". *7th Conference of the International Society for Quality-of-Life Studies*. Rhodes University, Grahamstown. July 2006. 87.

**Ruiters,G**

Ruiters,G. "Sovereign Customers: The new face of Privatisation". *Rosa Luxemburg Seminar and the CCS's Colloquium on Economy, Society and Nature*. University of KwaZulu-Natal, Durban. March 2006.

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

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

**Møller,V**

Møller,V. "Is race depoliticised in South Africa twelve years on?". *4th Byblos Autumn School on Power Sharing Systems*. Studienheim Wiesneck, Freiburg im Breisgau. Germany. September 2006.

**Ruiters,G**

Ruiters,G. "Customer Charters and Commercialisation in the Health Sector". *Equinet Annual Meeting*. Bagamoyo. Tanzania. August 2006.

Ruiters,G. "Governing water, managing the poor". *2nd Rosa Luxemburg Foundation International Conference on Sustainability and Social Justice*. Berlin. Germany. October 2006.

Ruiters,G. "Knowing your place: Urban services and new modes of governability in South Africa". *African Studies Association Annual Meeting*. San Francisco. USA. November 2006.

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

**Cocks,ML**

Cocks,ML and Dold,AP. Designer. *"Imithi yesiXhosa – Plants for Health Life and Spirit in Africa"*. Bayworld Port Elizabeth Museum Complex. Port Elizabeth. January - June 2006.

Cocks,ML and Dold,AP. Designer. *"Imithi yesiXhosa – Plants for Health Life and Spirit in Africa"*. Albany Museum. Grahamstown. June - December 2006.

Cocks,ML and Dold,AP. Designer. "Imithi yesiXhosa – Plants for Health Life and Spirit in Africa". Wageningen Public Library. Wageningen, Netherlands. 10 - 15 October 2006.

**Møller,V**

Møller,V and Huschka,D. Conference Chair and Co-Chair. Prospects for Quality of Life in the New Millennium. Eden Grove Conference Centre. Grahamstown. 17 - 20 July 2006.

**JOURNAL SUBSIDY UNITS**

<b>INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH</b>		<b>UNITS</b>
<b>Cocks,ML</b>		
Cocks,ML. "Biocultural Diversity: Moving beyond the realm of 'Indigenous' and 'Local' People". <i>Human Ecology</i> . 2006. 34(2),185-200.		1.00
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". <i>Environment, Development and Sustainability</i> . 2006. 8,519-533.		0.25
Cocks,ML and Dold,AP. "Cultural significance of biodiversity the role of medicinal plants in urban African cultural practices in the Eastern Cape South Africa". <i>Journal of Ethnobiology</i> . 2006. 26(1),60-81.		0.50
Pote,J, Shackleton,CM, Cocks,ML and Lubke,R. "Fuelwood harvesting and selection in Valley Thicket, South Africa". <i>Journal of Arid Environments</i> . 2006. 67,270-287.		0.25
<b>Møller,V</b>		
Møller,V. "Satisfied and dissatisfied South Africans: Results from the General Household Survey in international comparison". <i>Social Indicators Research</i> . 2006. Online,1-27.		1.00
Møller,V. "Quality of life in South Africa: The first ten years of democracy". <i>Social Indicators Research</i> . 2006. Online,1-20.		1.00
<b>TOTAL FOR INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH</b>		<b>4.00</b>

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

<b>INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M</b>	<b>UNITS</b>
<b>TOTAL</b>			<b>0.00</b>

## INTERNATIONAL LIBRARY OF AFRICAN MUSIC

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:

Journal Article: "Music and Healing: sites of power in rituals of Xhosa healer/diviners and the Zion Church in South Africa." in *Musike*. (August 2006).

Book Chapter: "Zvakwana – Enough! Media Control and Unofficial Censorship of Music in Zimbabwe" in *Popular Music Censorship in Africa*. M. Drewett and M. Cloonan, eds. London: Ashgate Press. (2006).

PROFESSOR D. THRAM  
DIRECTOR

## BOOKS/CHAPTERS/MONOGRAPHS

**Thram,DJ**

*Thram,DJ*. "Zvakwana!-Enough! Media Control and Unofficial Censorship of Music in Zimbabwe". In: Drewett,M and Cloonan, M (eds) *Popular Music Censorship in Africa*. Ashgate Press. Aldershot. 2006. 71-89. ISBN:978-0-7546-5291-5.

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

**Thram,DJ**

- \* *Thram,DJ*. "Music and Healing: Sites of Power in the Rituals of Xhosa Healers/Diviners and the Zion Church in South Africa". *Musike*. 2006. 1(1),59-70.

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

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

**Thram,DJ**

*Thram,DJ*. "Music and Healing: Sites of Power in Rituals of Xhosa Healers/Diviners and the Zion Church in South Africa". *Annual Conference of the Society for Ethnomusicology*. University of Hawaii, Honolulu. USA. November 2006.

## JOURNAL SUBSIDY UNITS

INTERNATIONAL LIBRARY OF AFRICAN MUSIC		UNITS
TOTAL FOR INTERNATIONAL LIBRARY OF AFRICAN MUSIC		0.00

## POSTGRADUATE (M/D) STUDENT SUBSIDY UNITS

INTERNATIONAL LIBRARY OF AFRICAN MUSIC			
STUDENT	SUPERVISOR/S	M	UNITS
TOTAL			0.00

\*NOT AN ACCREDITED JOURNAL

## **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**

*Pearse,N.* Lagos Business School, Pan African University, Lagos, Nigeria. Teaching the Practice of Management 2. 15 - 20 May 2006.

## **DISTINGUISHED VISITORS**

Dr T Blecher. CEO of CIDA City Campus, Johannesburg. Lecture. June 2006.

Mr D Carstens. First National Bank, Johannesburg. Lecture. October 2006.

Dr C Dalglish. Queensland University of Technology, Queensland, Australia. Lecture. May 2006.

Dr M Davies. Centre for Chinese Studies at Stellenbosch University, Stellenbosch. Lecture. October 2006.

Professor S Friedman. IDASA, Johannesburg. Lecture. September 2006.

Professor D Kirby. Professor of Entrepreneurship, School of Management, University of Surrey, Surrey, United Kingdom. Lecture. June 2006.

Dr E Kituyi. Industrial Ecology Institute, University of Nairobi, Nairobi, Kenya. Lecture. February 2006.

Dr A Leuschner. Goldfields Mining Services Limited, Johannesburg. Lecture. February 2006.

Dr M Logie. BESC, East London. Lecture. February 2006.

Mr G Orsmond. CEO of 1Time Airlines, Johannesburg. Lecture. January 2006.

Mr P Silinga. Coega Development Corporation, Port Elizabeth. Lecture. June 2006.

**JOURNAL SUBSIDY UNITS**

<b>INVESTEC BUSINESS SCHOOL</b>	<b>UNITS</b>
TOTAL FOR INVESTEC BUSINESS SCHOOL	0.00

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

<b>INVESTEC BUSINESS SCHOOL</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Franse	Court	M	0.25
May	Lancaster	M	0.25
Mququ	Jere	M	0.25
Tabeni		M	0.25
Williams	Pearse	M	0.25
TOTAL			1.25

## 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 10<sup>th</sup> Highway Africa conference which represents the continents 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*. From the Margins to the Mainstream: African ICT reporting comes of age. Berger, GJE (eds) Highway Africa. Grahamstown. 2006. 110 pp.

*Berger,GJE*. "Part of the Story: ten years of the SA National Editors Forum". In: Barrat, L (eds) Part of the Story. SANEF. Johannesburg. 2006. 1-66.

*Berger,GJE*. "South Africa Section". In: International Encyclopedia of Communication. Blackwell Publishing. 2006.

*Berger,GJE*. What the Newsroom Knows: Managing knowledge within African newspapers. Berger, GJE (eds) Highway Africa. Grahamstown. 2006. 129 pp.

**Berger,GJE and Taylor,A**

*Berger,GJE and Taylor,A. "Broadcasting in South Africa". In: Mixed Signals. Panos, Lusaka. 2006. 65-96.*

**Garman,A**

*Garman,A. "Reporting non-stop violence in SA: The necessity for adopting a different kind of Journalism". In: Mbaine, A (eds) Media in Situations of Conflict. Fountain Publishers. Kampala. 2006. 20-44. ISBN:9970 02 536 8.*

**Kyazze,S**

*Kyazze,S. "The Triumph of 'Big Brother': Challenging Times for African Media in Conflict Situations". In: Mbaine, A (eds) Media in Situations of Conflict. Fountain Publishers. Kampala. 2006. 45-61. ISBN:9970 02 536 8.*

**Steenveld,L**

*Steenveld,L. "Journalism Education in SA? Context Context Context". In: Olorunnisola, A (eds) Media in SA After apartheid. Edwin Mellen Press. Lewison, New York. 2006. 277-319.*

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

**Banda,F**

- \* *Banda,F. "Negotiating distant influences - globalization and broadcasting policy reforms in Zambia and South Africa". *Canadian Journal of Communication*. 2006. 31(2),459-467.*

**Berger,GJE**

*Berger,GJE. "'Fit for purpose' - towards tracking the quality of University education of entry-level journalists". *Ecquid Novi*. 2005. 26(2),175-198.*

**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**

*Strelitz,L and Steenveld,L. "Thinking about South African tabloid newspapers". *Ecquid Novi*. 2005. 26(2),265-268.*

#### **OTHER PUBLICATIONS**

**Banda,F**

*Banda,F. "Creating international support for the development of the news media in Africa". *Africa Insight*. 2006. 14167, 12-13.*

**\*NOT AN ACCREDITED JOURNAL**

*Banda, F.* "Zambia African Media Development Initiative - AMDI research report". BBC World Service Trust.

*Banda, F.* "A watchdog's guide to investigative reporting: a simple introduction to principles and practice in investigative reporting Derek Forbes: book review". *Ecquid Novi*. 2006. 27(1), 98-100.

*Banda, F.* "Media in the Service of Citizens". Inaugural Press Freedom Day Public Lecture Series. Rhodes University. Grahamstown. 2006.

*Banda, F.* "Alternative media: a viable option for Southern Africa?". *Open Space* 2006. 2006. 1(5), 80-83.

*Banda, F.* "The complexities of media regulation". *Pambazuka News*. Oxford. UK. 2006.

*Banda, F.* "The Post: 15 years of journalism with a conscience". *The Post*. 2006. 3569(20).

**Berger, GJE**

*Berger, GJE.* "Press Freedom Day". *Grocott's Mail*. Grahamstown. 2006. 7(7).

*Berger, GJE.* "Africa's media: Democracy and the Politics of Belonging". Nyamnjoh, F (eds) *Journal of Southern African Studies*. London & New York. 2006. 32(3), 642-644.

*Berger, GJE.* "Professionalism and training for mass communication: challenges and opportunities for Southern Africa". *Open Space* 2006. 2006. 12(16).

**Garman, A**

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

*Garman, A.* "Vloeking Vlok and looking for truth". *Grocott's Mail*. Grahamstown. 2006.

**Prinsloo, J**

*Prinsloo, J.* "Critical media literacy - a design for the future". *Open Space* 2006. 2006. 1, 16-20.

*Prinsloo, J.* "A regional teaching and learning programme for media coverage of the SADC region". *The Southern African Media Diversity Journal*. 2006. 1, 76-79.

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

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

**Banda, F**

*Banda, F.* "Media and cyber-democracy in Africa: an introduction". *1st Academic Seminar of SAB Miller Chair of Media & Democracy*. Rhodes University, Grahamstown. September 2006.

*Banda, F.* "An appraisal of the applicability of development journalism in the context of public service broadcasting :PSB". *News Content Planning: Workshop of SABC*. SABC, Boksburg. October 2006.

**Berger, GJE**

*Berger, GJE.* "Training to strengthen the African Media circuit". *Media Development Consultative Forum for Southern Africa*. Media institute of Southern Africa, Johannesburg. June 2006.

*Berger, GJE.* *African Media Development Initiative :AMDI: Workshop on Strengthening Africa's Private Independent Media*. Johannesburg. June 2006.

*Berger, GJE.* *Brainstorming meeting: Future and options for state-owned newspapers and news agencies*. Magaliesberg, Gauteng. June 2006.



Berger,GJE. "Community engagement: some issues". *Rhodes University Imbizo*. Mpekwani , July 2006.

Berger,GJE. "Media in a multi-cultural society". *FreeVoice*. Johannesburg. July 2006.

Berger,GJE. "Contested media environments in SA: the making of communications policy since 1994". *After Apartheid*. Cape Town. August 2006.

Berger,GJE. *Second workshop on evaluating Journalism & Education and Training at Tertiary Institutions - developing a methodology of SA*. Rhodes University, Grahamstown. September 2006.

Berger,GJE. "Using ICTs Report ICTs". *Highway Africa 10th Anniversary Conference: Celebrations, Reflections and Future Directions*. Rhodes University, Grahamstown. September 2006.

Berger,GJE. "Point of convergence. A law economics and regulation workshop on challenges on convergence: new technologies, policies and regulations under the electronic communications act 2005". *LINK Centre and the Mandela Institute*. Wits University, Johannesburg. October 2006.

Berger,GJE. *SABC-SA National Editors Forum Conference*. Sandton. October 2006.

Berger,GJE. "Point of convergence 2". *LINK Centre and the Mandela Institute*. Wits University, Johannesburg. November 2006.

Berger,GJE. "The bottom line". *SA National Editors Forum*. Johannesburg. November 2006.

Berger,GJE. "Peer review for African Public Broadcasters: Briefing document for Southern African Association of Broadcasters - SABA". *Southern African Association of Broadcasters - SABA*. November 2006.

#### **Garman,A**

Garman,A. "The Mass subject in Krog's Country of my skull". *At the End of the Rainbow: Power politics and identity in post-apartheid South African Media: Conference*. Stellenbosch University, Stellenbosch. July 2006.

Garman,A. "Antjie Krog the TRC and the ethical performance of listening". *Memory Narrative and forgiveness conference*. University of Cape Town, Cape Town. November 2006.

#### **Prinsloo,J**

Prinsloo,J. "Reading the pictures and then reading the frame -thoughts on methodological challenges for interpreting visual texts". *Symposium: Putting people in the picture: Visual methodologies for social change*. University of KwaZulu-Natal, Durban. February 2006.

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

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

#### **Banda,F**

Banda,F. "Key issues in public service broadcasting PSB in Sub-Saharan Africa". Open Society Institute, London. UK. 2006.

#### **Berger,GJE**

Berger,GJE. "The evolution of the media through convergence". *Workshop*. Panos Institute West Africa, Benin. Cotonou. February 2006.

Berger,GJE. "Is self-regulation the answer to the lacunae in regulation?". *AIBD/UNESCO/WRTVC/FES International Seminar*. Kuala Lumpur. Malaysia. May 2006.

Berger,GJE. "Assessing creative pedagogy". *Conference of World Journalism Educators*. Columbia University, New York. USA. May 2006.

Berger,GJE. *Asia Media Summit 2005*. Kuala Lumpur. Malaysia. May 2006.

Berger,GJE. "Thinking about media as a resource for integrity". *International Communications Forum Summer Conference*. Caux. Switzerland. August 2006.

Berger,GJE. *Conference on Broadcasting Reforms, FES-SABA-Misa*. Maputo. August 2006.

Berger,GJE. "Media power and economic justice". *International Communications Forum Summer Conference*. Caux. Switzerland. August 2006.

Berger,GJE. "Characteristics of African media markets: Money matters. How independent Media Manage to Survive". *Forum Media and Development*. Academy Eichholz Castle, Germany. September 2006.

Berger,GJE. *Africa Media Development Initiative - Technical Workshop*. BBC World Service Trust, Nairobi. Kenya. September 2006.

Berger,GJE. "Peer review for African Public Broadcasters: Global media culture and tomorrow's challenges". *Public Broadcasters International*. Maputo. Mozambique. September 2006.

Berger,GJE. "Convergence or Divergence? Which way for Broadcasting in Southern Africa". *Regional Broadcasting Debate Workshop*. Hotel Pestana, Maputo. Mozambique. October 2006.

Berger,GJE. "Research priorities for AfriMAP research into Public Service Broadcasting in Africa - with regard to digitisation". *Afrimap, Open Society Institute*. London. UK. October 2006.

Berger,GJE. "Democracy and the media - a view from South Africa". *Netherlands Institute for Southern Africa (NiZA)*. University of Amsterdam, Amsterdam. Netherlands. November 2006.

Berger,GJE. "Democracy and the media - a view from South Africa". *Netherlands Institute for Southern Africa (NiZA)*. Free University of Amsterdam, Amsterdam. Netherlands. November 2006.

Berger,GJE. "Democracy and the media - a view from South Africa". *Netherlands Institute for Southern Africa (NiZA)*. University of Groningen, Groningen. Netherlands. November 2006.

Berger,GJE. "South Africa: contested media dispensations 1994-2006". *Reuters Institute*. Green College Oxford University, Oxford. UK. November 2006.

#### **Garman,A**

Garman,A. "Rethinking the media-public sphere relationship". *Media Change and Social Theory Conference*. St Hugh' College, Oxford. UK. September 2006.

Garman,A. *Internationalising Media Studies: Imperative and Impediments Conference*. University of Westminster, London. UK. September 2006.

#### **Prinsloo,J**

Prinsloo,J. *Internationalising Media Studies. Imperative and Impediments Conference*. University of Westminster, London. UK. September 2006.

Prinsloo,J. "Using Foucault and Mamdani to theorise news mediations in a Southern African context". *CRESC Media Change and Social Theory*. St Hugh's College, Oxford. UK. September 2006.

**Rau,A**

Coetzee,JK and Rau,A. "Narratives of social suffering". *Conference of the Research Network: Qualitative Methods of the European Sociological Association*. University of Cardiff, Cardiff. United Kingdom. September 2006.

**JOURNAL SUBSIDY UNITS**

<b>JOURNALISM AND MEDIA STUDIES</b>		<b>UNITS</b>
<b>Berger,GJE</b>		
Berger,GJE. "'Fit for purpose' - towards tracking the quality of University education of entry-level journalists". <i>Ecquid Novi</i> . 2005. 26(2),175-198.		1.00
<b>Brand,R</b>		
Brand,R. "Between privilege and subpoena: Protecting confidential sources". <i>Ecquid Novi</i> . 2006. 27(2),111-134.		1.00
<b>Garman,A</b>		
Garman,A. "Teaching journalism to produce interpretive communities and no just professionals". <i>Ecquid Novi</i> . 2005. 26(2),199-211.		1.00
<b>Kanyegirire,A</b>		
Kanyegirire,A. "Hybrid journalistic identities? Journalism(s) and NEPAD". <i>Ecquid Novi</i> . 2006. 27(2),157-176.		1.00
<b>Ndangam,L</b>		
Ndangam,L. "'Gombo': Bribery and the corruption of journalism ethics in Cameroon". <i>Ecquid Novi</i> . 2006. 27(2),177-198.		1.00
<b>Strelitz,L and Steenveld,L</b>		
Strelitz,L and Steenveld,L. "Thinking about South African tabloid newspapers". <i>Ecquid Novi</i> . 2005. 26(2),265-268.		1.00
<b>TOTAL FOR JOURNALISM AND MEDIA STUDIES</b>		<b>6.00</b>

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

<b>JOURNALISM AND MEDIA STUDIES</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Assefa	Streilitz	M	0.50
Boshoff	Streilitz	M	0.50
Da-Wariboko	Streilitz	M	0.50
Jjuuko	Berger	M	1.00
Kabeta	Kyazze	M	0.50
Katembo	Fick	M	0.50
Komakoma	Prince	M	0.50
McCance-Price	Prince/Streilitz	M	0.50
Nzioka	Garman	M	0.50
Waswa	Steenveld/Streilitz	M	0.50
<b>TOTAL</b>			<b>5.50</b>

## **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 Lehloenyia; Les Roberts and Helena van Collier.

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 Lehloenyia; 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 85<sup>th</sup> 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**

*Glover,GB. "Contract, Good Faith, the Constitution and Duress". In: Glover, GB (eds) Essays in Honour of AJ Kerr. LexisNexis Butterworths. Durban. 2006. 101-128. ISBN:0 409 03739 7.*

*Glover,GB.* "Divorce". In: Clark, BJ (eds) Family Law Service Division D. LexisNexis Butterworths. Durban. 2006. 43, 1-30.

*Glover,GB.* Essays in Honour of AJ Kerr. Glover, GB (eds) LexisNexis Butterworths. Durban. 2006. 337 pp. ISBN:0 409 03739 7.

**Kerr,AJ**

*Kerr,AJ.* Law of the Agency. Kerr, AJ (eds) LexisNexis Butterworths. Durban. 4th Edition. 2006.

**Midgley,JR**

*Midgley,JR.* "Revisiting Factual Causation". In: Glover, GB (eds) Essays in Honour of AJ Kerr. LexisNexis Butterworths. Durban. 2006. 277-302. ISBN:0 409 03739 7.

*Midgley,JR.* "Societal Challenges for Law Researchers through the Lens of research Interests in the Eastern Cape Province". In: Marcus,T and Hofmaenner, A (eds) Shifting Boundaries of Knowledge: A view on social sciences, law and humanities in South Africa. University of KwaZulu-Natal Press. Durban. 2006. 177-197. ISBN:1-86914-106-7.

**Mqeke,RB**

*Mqeke,RB.* "Traditional Leadership and Communal Land in the Era of Constitutionalism in South Africa". In: Glover, GB (eds) Essays in Honour of AJ Kerr. LexisNexis Butterworths. Durban. 2006. 201-214. ISBN:0 409 03739 7.

*Mqeke,RB,* Koyana,DS and Bekker,JC. "Traditional Courts". In: Bekker,JC, Rautenbach,C and Goolam, NMI (eds) Introduction to Legal Pluralism in South Africa. Second Edition. 2006. 131-146.

**Plasket,CM**

*Plasket,CM.* "Tendering for Government Contracts: Public Procurement and Judicial Review". In: Glover, GB (eds) Essays in Honour of AJ Kerr. LexisNexis Butterworths. Durban. 2006. 159-179. ISBN:0 409 03739 7.

**Roberts,L**

*Roberts,L.* "The Prevention and Combating of Corrupt Activities Act 12 of 2004: Cure for cancer?". In: Glover, GB (eds) Essays in Honour of AJ Kerr. LexisNexis Butterworths. Durban. 2006. 319-337. ISBN:0 409 03739 7.

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

**Glover,GB**

*Glover,GB.* "The Inducement of a Contract by 'Duress of Goods' - A Reappraisal". *SA Mercantile Law Journal.* 2006. 18,175-185.

*Glover,GB.* "Developing a Test for Economic Duress in the South african Law of Contract: A Comparative Perspective". *South African Law Journal.* 2006. 122,285-314.

*Glover,GB.* "The Test for Duress in the South African Law of Contract". *South African Law Journal.* 2006. 122,98-125.

*Glover,GB.* "Duress and Enrichment Claims: A Review Article". *Speculum Juris.* 2006. 20(1),17-35.

*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.

*Glover,GB.* "The *condictio indebiti* and unjust factors (1)". *Tydskrif Vir Hedendaagse Romeins-Hollandse Reg.* 2006. 69(3),419-435.

Glover,GB. "The *condictio indebiti* and unjust factors (2)". *Tydskrif Vir Hedendaagse Romeins-Hollandse Reg.* 2006. 69(4),561-573.

**Kerr,AJ**

Kerr,AJ. "Implied provisions in contracts: Is there to be a new role for the hypothetical bystander? Conflicting supreme court of appeal decisions". *South African Law Journal.* 2006. 123,195-204.

Kerr,AJ. "The Constitution, the Bill of Rights, and the Law of Succession (2)". *Speculum Juris.* 2006. 20(1),1-16.

**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**

Euijen,M and Plasket,CM. "Constitutional protection of property and land reform". *Annual Survey of South African Law.* 2004. 377-396.

Plasket,CM. "Human Rights in South Africa: An Assessment". *Obiter.* 2006. 27(1),1-19.

**van Coller,EH**

van Coller,EH. "Proportionality Review - The battle between community standards and english domestic law". *Comparative and International Law Journal of Southern Africa.* 2006. 39(3),

van Coller,EH. "Transparency and Access to Documents: A General Principle of European Community Law?". *De Jure.* 2006. (1),163-168.

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

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

**De Vos,W**

De Vos,W. "The Presentation of Civil Procedural Law as an Academic Subject". *SA Law Teachers Conference.* University of Cape Town, Cape Town. July 2006.

**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**

Keep,H. "At the coal face: Local government, Housing and the Eastern Cape". *SA Law Teachers Conference.* University of Cape Town, Cape Town. July 2006.

**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.

Kruger,R. "Running with aliens: Eastern Province Athletics Association v Association of Athletics South Africa (Case number 5208/2004 South Eastern Cape Local Division)". *Congress of the Southern African Society of University Teachers of Law.* University of Cape Town, Cape Town. July 2006.

**Lehloenya,PM**

*Lehloenya,PM.* "Textile and Clothing Trade in the Post-Quota SACU Region: What Does the Future Hold?". *Southern African Law Teachers Association Conference*. University of Cape Town, Cape Town. July 2006.

*Lehloenya,PM.* "Decision-Making in the World Trade Organisation: A Comparative Study". *Second University of Limpopo Law Week Conference*. Second University of Limpopo, Mpumalanga. September 2006.

**Mqoke,RB**

*Mqoke,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**

*Plasket,CM.* "Post-1994 South African Administrative Law: the Constitution, the Promotion of Administrative Justice Act 3 of 2000 and the Common Law". *Law & Transformative Justice in Post-Apartheid South Africa*. Nelson R Mandela School of Law, University of Fort Hare, East London. October 2006.

**Roberts,L**

*Roberts,L.* "A critical examination of aspects of the Prevention and Combating of Corrupt Activities Act 12 of 2004". *Southern African Law Teachers Association Conference*. University of Cape Town, Cape Town. July 2006.

**Van Coller,EH**

*Van Coller,EH.* "Transformation: The Battle between the Judiciary and Politicians". *Suid Afrikaanse Akademie vir Wetenskap en Kuns, Annual*. Bloemfontein. June 2006.

*Van Coller,EH.* "Proportionality Review - The battle between European Community standards and English Domestic Law". *Conference of the Society of Law Teachers of SA*. University of Cape Town, Cape Town. July 2006.

*Van Coller,EH.* "The law lecturer: from teaching to changing the way learners think". *HELTASA (Higher Education Learning & Training Association of South Africa) Conference*. Tswane University of Technology, Gauteng. November 2006.

**wakwa-Mandlana,WM**

*wakwa-Mandlana,WM.* "Administrative justice firmly rooted in the protection of the environment: A time for those at war with environmental injustices to take note". *Environmental Law Association Workshop*. University of Cape Town, Cape Town. February 2006.

*wakwa-Mandlana,WM.* "Rule-making an Administrative Action: Why Courts Sometimes Get it Wrong". *Southern African Law Teachers Association Conference*. University of Cape Town, Cape Town. July 2006.

*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.

*wakwa-Mandlana,WM.* "A Critical analysis of Court Orders as a Tool to Enforce Socio-Economic Rights: Courts' Approach a Step Closer to Coherence". *Law & Transformative Justice in Post-Apartheid South Africa*. Nelson R Mandela School of Law, University of Fort Hare, East London. October 2006.

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

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

**Midgley,JR**

Midgley,JR. "Writing paralysis: Reinvoking the Creative Senses". *European Conference of the International Working Group for Comparative Study of Legal Professions*. Peyresq, France. June 2006.

Midgley,JR. "African Views of Dignity and Human Rights". *Human Rights Study and Information Centre*. Utrecht University, Utrecht. October 2006.

**wakwa-Mandlana,WM**

wakwa-Mandlana,WM. "Critical analysis of legal regime aimed at conserving and utilising indigenous biological resources in South Africa". *UNEP- 2nd Symposium for Environmental Law Lecturers*. African University, Uganda. September 2006.

**JOURNAL SUBSIDY UNITS**

<b>LAW</b>	<b>UNITS</b>
<b>Glover,GB</b>	
Glover,GB. "The Inducement of a Contract by 'Duress of Goods' - A Reappraisal". <i>SA Mercantile Law Journal</i> . 2006. 18,175-185.	1.00
Glover,GB. "Developing a Test for Economic Duress in the South african Law of Contract: A Comparative Perspective". <i>South African Law Journal</i> . 2006. 122,285-314.	1.00
Glover,GB. "The Test for Duress in the South African Law of Contract". <i>South African Law Journal</i> . 2006. 122,98-125.	1.00
Glover,GB. "Duress and Enrichment Claims: A Review Article". <i>Speculum Juris</i> . 2006. 20(1),17-35.	1.00
Glover,GB. "Methinks he doth protest too much"? Recovering unjustified payments made under duress and protest". <i>Tydskrif Vir Die Suid-Afrikaanse Reg</i> . 2006. 1,135-151.	1.00
Glover,GB. "The <i>condictio indebiti</i> and unjust factors (1)". <i>Tydskrif Vir Hedendaagse Romeins-Hollandse Reg</i> . 2006. 69(3),419-435.	1.00
Glover,GB. "The <i>condictio indebiti</i> and unjust factors (2)". <i>Tydskrif Vir Hedendaagse Romeins-Hollandse Reg</i> . 2006. 69(4),561-573.	1.00
<b>Kerr,AJ</b>	
Kerr,AJ. "Implied provisions in contracts: Is there to be a new role for the hypothetical bystander? Conflicting supreme court of appeal decisions". <i>South African Law Journal</i> . 2006. 123,195-204.	1.00
Kerr,AJ. "The Constitution, the Bill of Rights, and the Law of Succession (2)". <i>Speculum Juris</i> . 2006. 20(1),1-16.	1.00
<b>Kruger,R</b>	
Kruger,R. "'Come back when you are 65, Sir': Discrimination in respect of access to social assistance for the elderly". <i>Law, Democracy and Development</i> . 2006. 10(2),70-81.	1.00
<b>Plasket,CM</b>	
Euijen,M and Plasket,CM. "Constitutional protection of property and land reform". <i>Annual Survey of South African Law</i> . 2004. 377-396.	0.50
Plasket,CM. "Human Rights in South Africa: An Assessment". <i>Obiter</i> . 2006. 27(1),1-19.	1.00
<b>van Coller,EH</b>	
van Coller,EH. "Proportionality Review - The battle between community standards and english domestic law". <i>Comparative and International Law Journal of Southern Africa</i> . 2006. 39(3),	1.00
van Coller,EH. "Transparency and Access to Documents: A General Principle of European Community Law?". <i>De Jure</i> . 2006. (1),163-168.	1.00
<b>TOTAL FOR LAW</b>	<b>13.50</b>



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

<b>LAW</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Bednar	Mandlana	M	1.00
Kulundu	Barker/Holness	M	1.00
Lake	Barker/Mqeke	M	1.00
van der Merwe	Midgley	D	3.00
<b>TOTAL</b>			<b>6.00</b>

**LIBRARY****PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER****Thomas,G**

*Thomas,G* and Fourie,I. "Academic Library Consortia in South Africa: Where We Come From and Where We are Heading". *The Journal of Academic Librarianship*. 2006. 32(4),432-438.

**JOURNAL SUBSIDY UNITS**

<b>LIBRARY</b>	<b>UNITS</b>
<b>Thomas,G</b>	
<i>Thomas,G</i> and Fourie,I. "Academic Library Consortia in South Africa: Where We Come From and Where We are Heading". <i>The Journal of Academic Librarianship</i> . 2006. 32(4),432-438.	0.50
<b>TOTAL FOR LIBRARY</b>	<b>0.50</b>

## 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 United 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'Ecolde de Management de Strasbourg, Universite Robert Schuman, 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

### **Amos,T**

*Amos,T.* "Strategic leadership: key driver of strategy implementation". In: Louw,L and Venter, P (eds) Strategic Management: Winning in the Southern African Market Place. Oxford University Press. Cape Town. 2006. 351-391.

### **Louw,L**

*Louw,L.* "Introduction: the nature and process of strategic management". In: Louw,L and Venter, P (eds) Strategic Management: Winning in the Southern African Market Place. Oxford University Press. Cape Town. 2006. 2-42.

*Louw,L and Venter,P.* Louw,L and Venter, P (eds). Strategic Management: Winning in the Southern African Market Place. Oxford University Press. Cape Town. 2006. 491 pp.

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

### **Court,P**

Robinson,DA, Robinson,P, Van Der Mescht,H and Court,P. "How entrepreneurs deal with ethical challenges - an application of the business ethics energy star technique". *Journal of Business Ethics*. 2006. 1-13.

### **Elliott,RM**

- \* Correia,SB and Elliott,RM. "An Examination of Internet User Profiles in the Mature Tourism Market Segment in South Africa". *The Consortium Journal for Hospitality and Tourism Management*. 2006. 10(2),47-62.

Elliott,RM and Sewry,DA. "The influence of organisational factors in small tourism businesses on the success of Internet marketing". *South African Computer Journal*. 2006. 37,41-50.

- \* Louw,L

Thomson,K-L, Von Solms,R and Louw,L. "Cultivating an organizational information security culture". *Computer Fraud and Security*. 2006. (10),7-11.

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

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

#### **Amos,T**

Cox,A, Amos,T and Baxter,JS. "Leadership values across gender and culture (WIP)". *Southern African Institute of Management Scientists (SAIMS) Annual Conference*. University of Stellenbosch, Stellenbosch. September 2006. 488-490.

#### **Elliott,RM**

Harrison,J, Ruppington,P, Thompson,B and Elliott,RM. "The impact of strategic positions on the Internet marketing success of small South African tourism businesses". *Southern African Institute of Management Scientists (SAIMS) Annual Conference*. University of Stellenbosch, Stellenbosch. September 2006. 504-505.

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

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

#### **Amos,T**

Salomon,C, Khabisi,S, Amos,T and Jere,M. "Leadership values in South African business: expectations of MBA students". *7th Annual International Conference of the International Academy of African Business Development (IAABD)*. Accra. Ghana. May 2006. 586-593.

#### **Amos,T and Jere,A**

Cox,A, Brownell,M, Amos,T and Jere,A. "Leadership values across Western and African paradigms: An exploratory study". *Global Business and Technology Association (GBATA) 2006 International Conference*. Moscow. Russia. July 2006. 191-198.

\*NOT AN ACCREDITED JOURNAL

**Elliott,RM**

Johnson,G and Elliott,RM. "Multiracial Advertising Effects: Identification Process versus Corporate Social Responsibility". *Academy of Marketing Conference*. Middlesex Business School, London. UK. July 2006.

Mentz,J, Viljoen,J, Tapela,L and Elliott,RM. "Measuring the Employees Role in the Building of Brand in the FMCG Sector: An Exploratory Study". *Academy of Marketing Conference*. Middlesex Business School, London. UK. July 2006.

**Louw,L**

Jackson,T, O'Sullivan,SL, Haines,R, Louw,L, Reuter,H, Mazars,C and Jones,M. "Cross-Cultural Management: Making a Difference to Health Sector Project Delivery in HIV/AIDS, TB and Malaria in Southern Africa". *Business as an Agent of World Benefit (BAWB): Management Knowledge Leading Positive Change Conference*. Cape Western Reserve University, Cleveland. USA. October 2006. 57-92.

Louw,L, Lategan,FR and Raats,JG. "A Framework for Rural Agricultural Advancement and Poverty Alleviation: NEPAD Objectives". *Business as an Agent of World Benefit (BAWB): Management Knowledge Leading Positive Change Conference*. Cape Western Reserve University, Cleveland. USA. October 2006. 75-99.

**JOURNAL SUBSIDY UNITS**

MANAGEMENT	UNITS
<b>Court,P</b>	
Robinson,DA, Robinson,P, Van Der Mescht,H and Court,P. "How entrepreneurs deal with ethical challenges - an application of the business ethics energy star technique". <i>Journal of Business Ethics</i> . 2006. 1-13.	0.25
<b>Elliott,RM</b>	
Elliott,RM and Sewry,DA. "The influence of organisational factors in small tourism businesses on the success of Internet marketing". <i>South African Computer Journal</i> . 2006. 37,41-50.	0.50
TOTAL FOR MANAGEMENT	0.75

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

MANAGEMENT			
STUDENT	SUPERVISOR/S	M/D	UNITS
Correia	Elliot	M	1.00
Hayward	Amos	M	1.00
Limbada	Elliot/Pearse	M	1.00
Sha	Court	M	1.00
Shelton	Pearse	M	1.00
TOTAL			5.00

## MATHEMATICS (PURE AND APPLIED)

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

**Murali,V**

- \* *Murali,V. "Faa Di Bruno formula and the number of equivalent fuzzy subsets". *Advances in Fuzzy Sets and Systems*. 2006. 1(1),27-39.*
- \* *Murali,V. "Young Diagrams of equivalent fuzzy subsets". *East-West Journal of Mathematics*. 2004. 6(2),161-172.*
- \* *Murali,V. "Ordered partitions and finite fuzzy sets". *Far East Journal of Mathematical Sciences*. 2006. 21(2),121-132.*  
*Murali,V. "Combinatorics of counting finite fuzzy subsets". *Fuzzy Sets and Systems*. 2006. 157(17),2403-2411.*
- \* *Murali,V. "Lattice of keychains". *Journal of Applied Mathematics and Computing*. 2006. 20(2),409-420.*

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

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

**Mabizela,S**

*Mabizela,S. "Best approximation in vector-valued function spaces". *49th Annual Congress of South African Mathematics Society*. University of Orange Free State, Bloemfontein. November 2006. 18.*

**Matutu,P**

*Matutu,P. "Bi-Alexandroff spaces (lower and upper cozero sets of bitopological spaces)". *49th Annual Congress of South African Mathematics Society*. University of Orange Free State, Bloemfontein. November 2006. 20.*

**Murali,V**

*Murali,V. "Ordered partitions and finite preferential fuzzy subsets". *49th Annual Congress of South African Mathematics Society*. University of Orange Free State, Bloemfontein. November 2006. 24.*

**Ngcibi,S**

*Ngcibi,S. "Lattices, trees and preferential fuzzy subgroups". *49th Annual Congress of South African Mathematics Society*. University of Orange Free State, Bloemfontein. November 2006. 24.*

### CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

**Mabizela,S**

*Mabizela,S. Keynote Lecture. "Best approximation in vector-valued function spaces". Postgraduate Seminar in Mathematics. Nelson Mandela Metropolitan University. Port Elizabeth. 8 - 9 September 2006.*

**Murali,V**

*Murali,V. Short talk. "Combinatorics of finite preferential fuzzy sets". Postgraduate Seminar in Mathematics. Nelson Mandela Metropolitan University. Port Elizabeth. 8 - 9 September 2006.*

\*NOT AN ACCREDITED JOURNAL

**Ngcibi,S**

*Ngcibi,S.* Short talk. "*Finite abelian groups of rank two*". Postgraduate Seminar in Mathematics. Nelson Mandela Metropolitan University. Port Elizabeth. 8 - 9 September 2006.

**Talwanga,T**

*Talwanga,T.* Short talk. "*Inclusion-exclusion principle vs Mobius inversion principle*". Postgraduate Seminar in Mathematics. Nelson Mandela Metropolitan University. Port Elizabeth. 8 - 9 September 2006.

**Xotyeni,Z**

*Xotyeni,Z.* Short talk. "*Optimization problem*". Postgraduate Seminar in Mathematics. Nelson Mandela Metropolitan University. Port Elizabeth. 8 - 9 September 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY****Remsing,C C**

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

*Remsing,C C.* University of Rouen, Rouen, France. Collaboration. 16 - 18 September 2006.

*Remsing,C C.* University of Bourgogne, Dijon, France. Collaboration. 20 - 29 September 2006.

**JOURNAL SUBSIDY UNITS**

<b>MATHEMATICS (PURE AND APPLIED)</b>	<b>UNITS</b>
<b>Murali,V</b>	
<i>Murali,V.</i> "Combinatorics of counting finite fuzzy subsets". <i>Fuzzy Sets and Systems</i> . 2006. 157(17),2403-2411.	1.00
<b>TOTAL FOR MATHEMATICS (PURE AND APPLIED)</b>	<b>1.00</b>

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

<b>MATHEMATICS (PURE AND APPLIED)</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Gideon	Murali	M	1.00
Ngcibi	Murali	D	3.00
<b>TOTAL</b>			<b>4.00</b>

## 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 3<sup>rd</sup> 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**

*Brukman, JJ.* "The Relevance of Friedrich Hartmann's harmonic analytical methodology with regard to bitonality in Bartok's Fourteen Bagatelles, Op. 6/1". *New Directions, New Voices*. North-West University, Potchefstroom. September 2006. 1. 5.

##### **Edwards, JC**

*Edwards, JC.* "Conversations About Assessment". *The Assessment Event Conference*. Grahamstown. September 2006.

##### **Still-Drewett, F**

*Still-Drewett, F.* "Grahamstown Film and Heritage as reflected by His Majesty's Building". *3rd National Oral History Conference*. Richards Bay. November 2006.



## CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

### **Brukman,JJ**

*Brukman,JJ.* The South African Music Teacher. "*Competition Review, Sanlam Music Competition 2006*". A Retrospective Consideration. Cape Town. December 2006.

### **Edwards,JC**

*Edwards,JC.* Programme of Events. "*All that Jazz*". Eastern Cape Schools Festival. Grahamstown Foundation. Grahamstown. May 2006.

*Edwards,JC.* Programme of Events. "*Influence of blues piano on Jazz*". Programme of Events. DSG Music School. Grahamstown. June 2006.

*Edwards,JC.* Programme of Events. "*Reharmonising Standards*". Programme of Events. DSG Music School. Grahamstown. July 2006.

*Edwards,JC.* Performance. "*Jazz Pianist*". John Edwards Quartet performed original compositions. The Trading Store. Grahamstown. 3 July 2006.

*Edwards,JC.* Director. "*Conductor*". National Arts Festival. Beethoven Room, Music D. Grahamstown. 3 July 2006.

*Edwards,JC.* Jazz Workshops. "*Jazz Pianist / Director*". Jazz Workshops for Scholars. Department of Music & Musicology. Grahamstown. 11 - 13 July 2006.

*Edwards,JC.* Lecture / Demonstration. "*The New School Curriculum*". Improvisation, Composition and Arranging. EC Secondary School Music Teachers Conference. Mpekweni Beach Resort. September 2006.

### **Foxcroft,CJ**

*Foxcroft,CJ.* Recital. "*Solo Pianist*". Stellenbosch International Symposium. Department of Music. Stellenbosch. 2 - 5 April 2006.

*Foxcroft,CJ.* Performance. "*Piano Concerto*". Johannesburg Festival Orchestra. Monument. Grahamstown. 2 July 2006.

*Foxcroft,CJ.* Performance. "*Piano Quintet with Sontonga String Quartet*". Sontonga Quartet. Beethoven Room, Music D. Grahamstown. 4 August 2006.

*Foxcroft,CJ.* Performance. "*Piano Quintet with Shostakovich Piano Quintet*". PE Music Society. NMMU. Port Elizabeth. 10 August 2006.

*Foxcroft,CJ.* Performance. "*Shostakovich Piano Quintet with the Odeion String Quartet*". Grahamstown Music Society. Monument. Grahamstown. 11 August 2006.

*Foxcroft,CJ.* Performance. "*Soloist with ECPO*". Piazzolla Tango. Feathermarket Hall. Port Elizabeth. 17 September 2006.

*Foxcroft,CJ.* Performance. "*Schools Outreach Programme*". Grieg Piano Concerto 1st movement for ECPO. Feathermarket Hall. Port Elizabeth. October 2006.

### **Munoz,JL**

*Munoz,JL.* "*Violinist*". Hermanus Music Society. Concert Hall. Hermanus. 24 November 2006.

*Munoz,JL.* Concert Tour & Masterclasses. "*Violinist*". Cebu City Sports Club. Cebu City, Philippines. 4 December 2006.

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

*Munoz, JL.* Concert Tour & Masterclasses. "*Violinist*". Hiyas Convention Centre. Dumaguete City, Philippines. 7 December 2006.

*Munoz, JL.* Concert Tour & Masterclasses. "*Violinist*". Bularan. Davao City, Philippines. 9 December 2006.

*Munoz, JL.* Concert Tour & Masterclasses. "*Violinist*". Christian Fellowship Church. Cagayan de Oro City, Philippines. 12 December 2006.

*Munoz, JL.* Concert Tour & Masterclasses. "*Violinist*". Cameron Forbes Ballroom. Baguio Country Club, Philippines. 14 December 2006.

*Munoz, JL.* Performance. "*Orchestra Workshop*". Cape Town. 9 - 12 January 2006.

*Munoz, JL.* Orchestra. "*Conductor*". Symphony Concert. City Hall. Cape Town. 13 January 2006.

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

*Munoz, JL.* Coached. "*Conductor & Violinist*". Franschoek Chamber Music Workshop. Franschoek. 1 - 8 April 2006.

*Munoz, JL.* Lead. "*Conductor*". Ibhayi Chamber Orchestra. Port Elizabeth. 14 April 2006.

*Munoz, JL.* Performance. "*Violinist*". Juan, Mariel & Friends Concert. Beethoven Room, Music Department. Grahamstown. 25 April 2006.

*Munoz, JL.* Performance. "*Violinist*". Juan, Mariel & Friends Concert. Beethoven Room, Music Department. Grahamstown. 9 May 2006.

*Munoz, JL.* Performance. "*Violinist*". Juan, Mariel & Friends Concert. Beethoven Room, Music Department. Grahamstown. 16 May 2006.

*Munoz, JL.* Performance. "*Violinist*". Lady Smith Festival. Natal. 9 - 11 June 2006.

*Munoz, JL.* Performance. "*Violinist*". Sundowner Concerts. University of Johannesburg. Johannesburg. 19 June 2006.

*Munoz, JL.* Performance. "*Violinist*". Concerts. University of Magallanes. Chile. 15 - 19 July 2006.

*Munoz, JL.* Performance. "*Violinist*". Concerto with Odeion String Quartet. PE Music Society. Port Elizabeth. 9 August 2006.

*Munoz, JL.* Performance. "*Violinist*". Juan, Mariel & Friends. Rhodes Theatre. 6 September 2006.

*Munoz, JL.* Lead JMI Orchestra. "*Violinist*". Skouspel Festival. Sun City Superbowl. Sun City. October 2006.

*Munoz, JL.* Lead JMI Orchestra. "*Violinist*". Skouspel Festival. Sun City Superbowl. Sun City. 14 - 15 October 2006.

*Munoz, JL.* Concert Tour & Masterclasses. "*Violinist*". Concert Tour & Master Classes in the Philippines. Pope John Paul II Cultural Centre. Bacolod City, Philippines. 2 December 2006.

**Scarr,DJ**

*Scarr,DJ.* Director. "*Conductor*". Schoenbrunn Palace Orchestra. Schoenbrunn Palace. Vienna, Austria. 18 February 2006.

*Scarr,DJ.* Orchestra. "*Horn Player*". Schoenbrunn Palace Orchestra. Schoenbrunn Palace. Vienna, Austria. 1 April - 15 July 2006.

*Scarr,DJ.* Orchestra. "*Conductor*". St Augustine's Cathedral Chamber Orchestra. St Augustine's Cathedral. Vienna, Austria. 26 May 2006.

**JOURNAL SUBSIDY UNITS**

<b>MUSIC AND MUSICOLOGY</b>	<b>UNITS</b>
TOTAL FOR MUSIC AND MUSICOLOGY	0.00

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

<b>MUSIC AND MUSICOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Webb	Scarr	M	1.00
Wynne	Scarr	M	1.00
TOTAL			2.00

## 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 *Gingko 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 10<sup>th</sup> 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 9<sup>th</sup> Frank Warren Conference on Organic Chemistry, University of Cape Town, South Africa, 22<sup>nd</sup>-25<sup>th</sup> January 2006

Dr Beukes and MSc students, Anthonia Afolayan and Maryssa Mann attended the 4<sup>th</sup> 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 4<sup>th</sup> 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**

*Dairam,A, Antunes,EM, Saravanan,KS and Daya,S.* "Non-steroidal anti-inflammatory agents, tolmetin and sulindac, inhibit liver tryptophan 2,3-dioxygenase activity and alter brain neurotransmitter levels". *Life Sciences*. 2006. 79(24),2269-2274.

##### **Daya,S**

*Dairam,A, Chetty,P and Daya,S.* "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". *Metabolic Brain Disease*. 2006. 21,211-223.

##### **Dowse,R**

*Mansoor,LE and Dowse,R.* "Medicines information and adherence in HIV/AIDS patients". *Journal of Clinical Pharmacy and therapeutics*. 2006. 31,7-15.

*Mwingira,B and Dowse,R.* "Comprehension and acceptability of a patient information leaflet for antiretroviral therapy". *Health SA Gesondheid*. 2006. 11(3),49-56.

##### **Kanfer,I**

*Kanfer,I.* "Generic alendronate in the treatment of osteoporosis". *South African Medical Journal*. 2006. 96(10),1008-1010.

*Dubber,M-J and Kanfer,I.* "Application of reverse-flow micellar electrokinetic chromatography for the simultaneous determination of flavonols and terpene trilactones in *Ginkgo biloba* dosage forms". *Journal of Chromatography A*. 2006. 1122,266-274.

*Dubber,M-J and Kanfer,I.* "Determination of terpene trilactones in Ginkgo Biloba solid oral dosage forms using HPLC with evaporative light scattering detection". *Journal of Pharmaceutical and Biomedical Analysis*. 2006. 41,135-140.

*Mills,E, Singh,S, Wilson,K, Peters,K, Onia,R and Kanfer,I.* "The Challenges of Involving Traditional Healers in HIV/AIDS Care". *International Journal of STD and AIDS*. 2006. 17(6),360-364.

*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,DS, Maharaj,H and Daya,S**

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*Cassim,L, Maharaj,DS, Maharaj,H and Daya,S.* "Melatonin counters the 5-fluorouracil- induced decrease in brain serotonin and dopamine levels". *Annals of Neuroscience*. 2006. 13(2),27-30.

*Maharaj,DS, Maharaj,H, Daya,S and Glass,B.* "Melatonin and 6-hydroxymelatonin protect against iron-reduced neurotoxicity". *Journal of Neurochemistry*. 2006. 96,78-81.

\*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**

*Nair,VDP, Kanfer,I and Hoogmarterns,J. "Determination of stigmasterol, beta-sitosterol and stigmastanol in oral dosage forms using high performance liquid chromatography with evaporative light scattering detection". Journal of Pharmaceutical and Biomedical Analysis. 2006. 41(3),731-737.*

**Verbeeck,RK, Kanfer,I and Walker,RB**

*Verbeeck,RK, Kanfer,I and Walker,RB. "Generic Substitution: The use of medicinal products containing different salts and implications for safety and efficacy". European Journal of Pharmaceutical Sciences. 2006. 28(1 & 2),1-6.*

**Walker,RB**

*Khamanga,SMM and Walker,RB. "Evaluation of rate of swelling and erosion of verapamil (VRP) sustained-release matrix tablets". Drug Development and Industrial Pharmacy. 2006. 32(10),1139-1148.*

*Mohammadi,A, Hariran,I, Rezanour,N, Ghiasi,L and Walker,RB. "A stability-indicating high performance liquid chromatographic assay for the determination of orlistat in capsules". Journal of Chromatography A. 2006. 1116,153-157.*

**Walker,RB, Skinner,MF and Kanfer,I**

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*Walker,RB, Skinner,MF and Kanfer,I. "Bioequivalence assessment of generic products: An innovative South African approach". Clinical Research and Regulatory Affairs. 2006. 23(1),11-20.*

**OTHER PUBLICATIONS**

**Futter,WT**

*Futter,WT. "The Naked Manager. "Talent Management : Why?"". Osman, L (eds) South African Pharmacy Journal. Medpharm Publications. Pretoria. 2006. 73(10).*

*Futter,WT. "The Naked Manager. "Leaders and Subcultures (not the yoghurt kind!)" Cultures and Subcultures"". Osman, L (eds) South African Pharmacy Journal. Medpharm Publications. Pretoria. 2006. 73(2).*

*Futter,WT. "The Naked Manager. "Diagnosing cultures"". Osman, L (eds) South African Pharmacy Journal. Medpharm Publications. Pretoria. 2006. 73(4).*

*Futter,WT. "The Naked Manager. "Part 1. Trading professional or Professional trader? "The heart of the problem?"". Osman, L (eds) South African Pharmacy Journal. Medpharm Publications. Pretoria. 2006. 73(6).*

*Futter,WT. "The Naked Manager. "Part 2. Trading professional or Professional trader? Contextual framework: Dispensing versus Pharmaceutical Care?"". Osman, L (eds) South African Pharmacy Journal. Medpharm Publications. Pretoria. 2006. 73(8).*

**\*NOT AN ACCREDITED JOURNAL**

**Srinivas,SC**

*Srinivas,SC*, Rao,G and Bhaskaran,S. "Baseline Study Raising the Issues of the Hospital Pharmacists in Public Sector Health Care System in Karnataka". Bazaz, K (eds) *The Pharma Review*. Kongposh Publications. New Delhi. 2006. 4(2), 97-102.

**Walker,RB**

*Walker,RB*. "50 Years of Pharmaceutical Sciences Research Excellence: Faculty of Pharmacy, Rhodes University". Osman, L (eds) *South African Pharmacy Journal*. Medpharm Publications. Pretoria. 2006. 73(3), 28-29.

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

*Antunes,EM*, Goeger,DE, McPhail,KL, *Beukes,DR* and Gerwick,WH. "Structure determination of bioactive metabolites from the Panamanian marine cyanobacterium *Schizothrix* sp". *9th Frank Warren Conference on Organic Chemistry*. University of Cape Town, Cape Town. January 2006. 2.

*Mann,MGA*, *Mkwananzi,MB*, *Antunes,EM* and *Beukes,DR*. "Detection of halogenated monoterpene aldehydes by chemical derivatization and mass spectrometry". *4th International Conference on Pharmaceutical and Pharmacological Sciences*. Riverside Hotel, Vanderbijlpark. September 2006. 143.

**Beukes,DR**

*Afolayan,AF*, Bolton,JJ and *Beukes,DR*. "Isolation and structure elucidation of halogenated monoterpenes from *Plocamium conmutum*". *4th International Conference on Pharmaceutical and Pharmacological Sciences*. Riverside Hotel, Vanderbijlpark. September 2006. 109.

*Mkwananzi,H*, *Mann,M* and *Beukes,DR*. "Plocoraldehydes: unstable halogenated monoterpene aldehydes from the marine alga *Plocamium corallorhiza*". *9th Frank Warren Conference on Organic Chemistry*. University of Cape Town, Cape Town. January 2006. 3.

**Beukes,E**

*Molefe,D*, *Ganto,M*, *Blatch,GL*, *Bradley,G*, *Beukes,E*, *Kaye,PT*, *Nchinda,AT* and *Prasad Vijajan,PR*. "Towards the development of novel HIV-1 protease inhibitors". *Frank Warren Conference*. UCT, Cape Town. January 2006.

**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.

*Dairam,A*, *Muller,AC* and *Daya,S*. "Non-steroidal anti-inflammatory agents, tolmetin and sulindac attenuate quinolinic acid-induced oxidative stress in primary hippocampal neurons and reduce quinolinic acid-induced spatial memory deficits in male Wistar rats". *4th International Conference on Pharmaceutical and Pharmacological Sciences*. Riverside Hotel, Vanderbijlpark. September 2006. 124.

*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.

Zheve,GT and Daya,S. "Investigation of neuroprotective effects of nevirapine and efavirenz". *4th International Conference on Pharmaceutical and Pharmacological Sciences*. Riverside Hotel, Vanderbijlpark. September 2006. 186.

**Kanfer,I**

Mandimika,N and Kanfer,I. "Development of a quantitative HPLC method using a minibore column for the analysis of azithromycin". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Vanderbijlpark. 2006.

Patnala,S and Kanfer,I. "Isolation and semi-synthesis of *Sceletium* alkaloids". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Vanderbijlpark. 2006.

Tettye-Amlalo,RNO and Kanfer,I. "Application of microdialysis for the assessment of bioequivalence of ketoprofen topical formulations". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Vanderbijlpark. 2006.

**Maharaj,H, Maharaj,DS and Daya,S**

Scheepers,MW, Maharaj,H, Maharaj,DS, Mokokong,R and Daya,S. "L-DOPA administration enhances 6-hydroxydopamine generation". *4th International Conference on Pharmaceutical and Pharmacological Sciences*. Riverside Hotel, Vanderbijlpark. September 2006. 62.

**Skinner,M and Kanfer,I**

Au,WL, Skinner,M and Kanfer,I. "Evaluation of dose duration-response for a topical corticosteroid cream containing clobetasol 17-propionate". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Vanderbijlpark. 2006.

**Srinivas,SC**

Ruud,KW, Srinivas,SC and Toverud,EL. *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 96.

Shiri,C and Srinivas,SC. "The impact of therapeutic education on hypertensive patients' levels of adherence to therapy". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 168.

Shiri,C, Srinivas,SC and Radloff,SE. "Effect of Educational Interventions in Modifying Health Care Receivers' Beliefs about Medicines". *20th Annual Conference/SAAHIP*. Wilderness. March 2006.

Srinivas,SC, Sudarshan,H and Bilimagga,RS. "Baseline studies to initiate pharmacy and therapeutics committees in twelve primary health care centers in Karnataka, India". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 171.

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**

Walker,RB. *20th Annual South African Association of Hospital and Institutional Pharmacists (SAAHIP) Conference*. Wilderness Hotel, Wilderness. March 2006.

Walker,RB. *The 61st Pharmaceutical Society of South Africa Annual Conference and Annual General Meeting*. Birchwood Conference Centre, Boksburg. May 2006.

Chaibva,FA and Walker,RB. "The characterisation of Pluronic® 127 as a potential vehicle for the parenteral delivery of oxytocin". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 120.



Chaibva,FA and Walker,RB. "The development of a dissolution test for oxytocin release from *in situ* gel forming parenteral formulations manufactured with Pluronic® 127". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 121.

Khamanga,SMM and Walker,RB. "Influence of different grades of Methocel® on verapamil release from mini-matrix tablets". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 137.

Ogwal,S and Walker,RB. "Development and optimization of an analytical method for the analysis of ibuprofen in solid oral dosage forms". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 152.

Wa Kasongo,K and Walker,RB. "Development and validation of an *in vitro* release test method for the assessment of clobetasol 17-propionate in topical formulations". *27th Academy of Pharmaceutical Sciences Congress / 4th ICPPS Conference*. Riverside Hotel, Vanderbijlpark. September 2006. 185.

#### **Wrench,WM**

Wrench,WM. "Interviewing Nursing Sisters to assist in the Design of Patient Information Leaflets for the Correct Use of Inhalers". *South African Association of Hospital and Institutional Pharmacists*. Wilderness Protea Hotel, Wilderness. March 2006.

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

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

#### **Dowse,R**

Dowse,R, Hunt,S and La Rose,C. "Inequalities in access to health-related information: Application of a modified health literacy test in an English second-language population". *14th International Social Pharmacy Workshop*. Oxford University, Oxford. United Kingdom. July 2006. 56-57.

#### **Haigh,JM**

Haigh,JM. "The assessment of topical corticosteroid induced skin blanching: past, present and future". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 1.

Haigh,JM. "Some variables concerning the use of shed snake skin as an *in vitro* diffusion membrane: 2. The age of the shed and the age of the animal". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 53.

Haigh,JM, Purdon,CH and Beyssac,E. "Some variables concerning the use of shed snake skin as an *in vitro* diffusion membrane: 1. Hydration and orientation". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 52.

Purdon,CH, Tettey-Amlalo,RNO, Beyssac,E and Haigh,JM. "Release of ibuprofen, ketoprofen and progesterone from gels: a comparison of different diffusion methodologies". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 54.

Tettey-Amlalo,RNO and Haigh,JM. "The effect of Carbopol Ultrez 10NF polymer concentration on the *in vitro* release of ketoprofen through silicone membrane". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 55.

Tettey-Amlalo,RNO and Haigh,JM. "The influence of Transcutol and ethanol on the *in vitro* release of ketoprofen from Carbopol Ultrez gels through a silicone membrane". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 56.

Tettey-Amlalo,RNO and Haigh,JM. "The effect of vehicle pH on the *in vitro* release of ketoprofen from extemporaneously manufactured Carbopol Ultrez polymer gels". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 57.

Tettey-Amlalo,RNO and Haigh,JM. "The effect of the country of manufacture on the *in vitro* release of ketoprofen from commercially available gels through silicone membrane". *International Perspectives in Percutaneous Penetration Conference*. Palais des Congres, La Grande Motte. France. April 2006. 58.

#### **Kanfer,I**

Agbonon,A, Eklu-Gadegbeku,K, Gbeassor,KAM, Nair,VDP, Kanfer,I, Arnason,JT and Foster,BC. "In vitro inhibitory effect of African medicinal and food plants on human cytochrome P4503A subfamily". *3rd NHP Research Conference*. Toronto, Ontario. Canada. March 2006.

Nair,VDP and Kanfer,I. "A Capillary zone Electrophoresis (CZE) Method for the Quantitative Determination of Hypoxoside in Commercial Formulations of African Potato (*Hypoxis hemerocallidea*)". *9th Annual Symposium Canadian Society for Pharmaceutical Sciences*. Ottawa, Ontario. Canada. May 2006.

Patnala,S and Kanfer,I. "Studies towards Isolation of Markers for Application in Quality Control of *Sceletium* Plant Material and its Dosage Forms". *FIP World Congress of Pharmacy & Pharmaceutical Sciences*. Salvador. Brazil. August 2006.

Wei,H, Dalton,C, Di Maso,M, Kanfer,I and Lobenberg,R. "Physicochemical characterization of five glyburide powders: A BCS based approach to predict oral absorption". *AAPS Annual Meeting*. San Antonio, Texas. USA. November 2006.

#### **Walker,RB**

Khamanga,SMM and Walker,RB. "The effect of polymer type on the *in vitro* release of verapamil hydrochloride". *33rd International Symposium on Controlled Release of Bioactive Materials*. Austria Center, Vienna. Austria. July 2006. ISSN 1022-0178. 893.

Khamanga,SMM and Walker,RB. "Formulation and *in vitro* evaluation of verapamil-Eudragit® sustained release mini tablets". *13th International Pharmaceutical Technology Symposium*. The Marmara Antalya Hotel, Antalya. Turkey. September 2006. 87-88.

Mollel,H and Walker,RB. "Formulation and *in vitro* assessment of azithromycin suppositories". *33rd International Symposium on Controlled Release of Bioactive Materials*. Austria Center, Vienna. Austria. July 2006. ISSN 1022-0178. 1020.

Mollel,H and Walker,RB. "The effect of polysorbate surfactants on azithromycin release from fatty suppositories". *33rd International Symposium on Controlled Release of Bioactive Materials*. Austria Center, Vienna. Austria. July 2006. ISSN 1022-0178. 1030.

Walker,RB and Chaibva,FA. "The development of an *in vitro* release test for the assessment of oxytocin release from Pluronic® F127 parenteral formulations". *13th International Pharmaceutical Technology Symposium*. The Marmara Antalya Hotel, Antalya. Turkey. September 2006. 40-41.

Walker,RB, Khamanga,SMM and Mandimika,N. "Geometry and dosage form size: Impact on the *in vitro* release of verapamil hydrochloride". *33rd International Symposium on Controlled Release of Bioactive Materials*. Austria Center, Vienna. Austria. July 2006. ISSN 1022-0178. 161.

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

#### **Futter,WT**

Futter,WT. Invited participant. "Roundtable consultation of Pharmacy Education". FIPs Pharmacy and Pharmaceutical Sciences World Congress 2006. Sao Paulo, Brazil. 25 - 31 August 2006.

Futter, WT. Invited participant. *"International forum for Quality Assurance in Pharmacy Education"*. FIPs Pharmacy and Pharmaceutical Sciences World Congress 2006. Sao Paulo, Brazil. 25 - 31 August 2006.

**Kanfer, I**

Kanfer, I. Invited Lecture. *"Bioequivalence Regulations In Key Worldwide Generic Markets"*. International Generic Pharmaceutical Alliance (IGPA) Pre-Conference Seminar: Understanding Bioequivalence of Generic Drugs: A Worldwide Review. Monte Carlo Bay Resort. Monaco, France. 18 June 2006.

**Oltmann, C**

Oltmann, C. Facilitator. *"Intern and tutor training on behalf of the South African Pharmacy Council"*. South African Pharmacy Council workshop series for interns. Eastern Cape Health Resource Centre. East London. 18 February 2006.

Oltmann, C. Academic coordinator. *"South African Association for Hospital and Institutional Pharmacists Conference"*. SAAHIP conference. Wilderness Protea Hotel. Wilderness. 9 - 12 March 2006.

**Walker, RB**

Walker, RB. Invited Lecture. *"Current trends in drug delivery"*. Apollo Scientific Pharma 101 Conference and Workshop. Kyalami Castle. Johannesburg. 4 March 2006.

Walker, RB. Invited Lecture. *"Generic Substitution: The use of medicinal products containing different salts and implications for safety and efficacy"*. Continuing Medical Education Seminar. Jaipur Palace. Durban. 6 July 2006.

Walker, RB. Seminar. *"Pharmacy education and Pharmaceutical Sciences Research at Rhodes University"*. Department of Pharmaceutical Technology - Gazi University. Ankara, Turkey. 21 September 2006.

Walker, RB. Seminar. *"Pharmaceutical alternatives: Implications for generic substitution"*. Department of Pharmaceutical Technology - Hacettepe University. Ankara, Turkey. 21 September 2006.

Walker, RB. Seminar. *"The scientific basis for bioequivalence testing"*. Department of Pharmaceutical Technology - Hacettepe University. Ankara, Turkey. 28 September 2006.

Walker, RB. Lecture. *"Pharmacy education in a developing world: A South African perspective"*. Faculty of Pharmacy - Hacettepe University. Ankara, Turkey. 28 September 2006.

Walker, RB. Seminar. *"Sustained release solid oral dosage form development and assessment"*. Department of Pharmaceutical Technology - Hacettepe University. Ankara, Turkey. 29 September 2006.

Walker, RB. Seminar. *"Generic substitution and pharmaceutical alternatives"*. Department of Pharmaceutical Technology - Ankara University. Ankara, Turkey. 2 October 2006.

Walker, RB. Seminar. *"Pharmaceutical Sciences at Rhodes University: Education and Research"*. Department of Pharmaceutical Technology - Marmara University. Istanbul, Turkey. 6 October 2006.

Walker, RB. Seminar. *"The use of medicinal products containing different salts: Generic substitution and implications for safety and efficacy"*. Continuing Pharmacy Education Seminar. St Georges Club. Port Elizabeth. 10 October 2006.

Walker, RB. Seminar. *"The use of medicinal products containing different salts: Generic substitution and implications for safety and efficacy"*. Continuing Pharmacy Education Seminar. Cullinan Hotel. Cape Town. 29 November 2006.

**Wrench,WM and Srinivas,SC**

Wrench,WM and Srinivas,SC. Designer. *"Using steroids to enhance sport performance is not cool. Believe it or not"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

Wrench,WM and Srinivas,SC. Designer. *"Stimulants do not help with exam stress. Believe it or not!"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

Wrench,WM and Srinivas,SC. Designer. *"Antibiotics do not cure the common cold. Believe it or not!"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

Wrench,WM and Srinivas,SC. Designer. *"Do you believe it is safe to use African potato & other traditional medicines with antiretroviral medicines?"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

Wrench,WM and Srinivas,SC. Designer. *"Having sex with a virgin does not cure HIV & AIDS. Believe it or not!"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

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.

Wrench,WM and Srinivas,SC. Designer. *"Crash dieting does not ensure that you will fit into your bikini/speedo next year. Believe it or not!"*. Sasol Scifest. Eden Grove, Rhodes University. Grahamstown. 22 - 28 March 2006.

Wrench,WM and Srinivas,SC. Facilitator. *"Metered dose inhaler technique"*. Settlers Day Hospital. Grahamstown. 4 August 2006.

**OVERSEAS RESEARCH OR FURTHER STUDY****Walker,RB**

Walker,RB. Hacettepe University, Ankara, Turkey. January 1900.

**DISTINGUISHED VISITORS**

Dr E Benfeldt. Denmark. Research. April 2006.

Dr T Brown. University of Toronto, Toronto, Canada. Doctor of Pharmacy. March 2006.

Dr T Brown. University of Toronto, Toronto, Canada. Doctor of Pharmacy. August 2006.

Dr H Kertland. University of Toronto, Toronto, Canada. Doctor of Pharmacy. March 2006.

Dr B Patterson. North Dakota State University, Fargo, USA. Doctor of Pharmacy. January-May 2006.

Dr V Sewram. MRC, Cape Town. Research. March-April 2006.

Dr EL Toverud. University of Oslo, Oslo, Norway. Research. March 2006.

Professor RK Verbeeck. Catholique Universitat Louvain, Brussels, Belgium. Lectures and Research. March-May 2006.

## JOURNAL SUBSIDY UNITS

PHARMACY	UNITS
<b>Antunes,EM and Daya,S</b>	
<i>Dairam,A, Antunes,EM, Saravanan,KS and Daya,S. "Non-steroidal anti-inflammatory agents, tolmetin and sulindac, inhibit liver tryptophan 2,3-dioxygenase activity and alter brain neurotransmitter levels". Life Sciences. 2006. 79(24),2269-2274.</i>	0.75
<b>Daya,S</b>	
<i>Dairam,A, Chetty,P and Daya,S. "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". Metabolic Brain Disease. 2006. 21,211-223.</i>	1.00
<b>Dowse,R</b>	
<i>Mansoor,LE and Dowse,R. "Medicines information and adherence in HIV/AIDS patients". Journal of Clinical Pharmacy and therapeutics. 2006. 31,7-15.</i>	1.00
<i>Mwingira,B and Dowse,R. "Comprehension and acceptability of a patient information leaflet for antiretroviral therapy". Health SA Gesondheid. 2006. 11(3),49-56.</i>	1.00
<b>Kanfer,I</b>	
<i>Kanfer,I. "Generic alendronate in the treatment of osteoporosis". South African Medical Journal. 2006. 96(10),1008-1010.</i>	1.00
<i>Dubber,M-J and Kanfer,I. "Application of reverse-flow micellar electrokinetic chromatography for the simultaneous determination of flavonols and terpene trilactones in Ginkgo biloba dosage forms". Journal of Chromatography A. 2006. 1122,266-274.</i>	1.00
<i>Dubber,M-J and Kanfer,I. "Determination of terpene trilactones in Ginkgo Biloba solid oral dosage forms using HPLC with evaporative light scattering detection". Journal of Pharmaceutical and Biomedical Analysis. 2006. 41,135-140.</i>	1.00
<i>Mills,E, Singh,S, Wilson,K, Peters,K, Onia,R and Kanfer,I. "The Challenges of Involving Traditional Healers in HIV/AIDS Care". International Journal of STD and AIDS. 2006. 17(6),360-364.</i>	0.17
<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.</i>	1.00
<b>Maharaj,DS, Maharaj,H and Daya,S</b>	
<i>Maharaj,DS, Maharaj,H, Daya,S and Glass,B. "Melatonin and 6-hydroxymelatonin protect against iron-reduced neurotoxicity". Journal of Neurochemistry. 2006. 96,78-81.</i>	0.75
<b>Maharaj,H, Maharaj,DS and Daya,S</b>	
<i>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.</i>	1.00
<i>Maharaj,H, Maharaj,DS and Daya,S. "Acetylsalicylic acid and acetaminophen protect against oxidative neurotoxicity". Metabolic Brain Disease. 2006. 21,189-199.</i>	1.00
<b>Nair,VDP and Kanfer,I</b>	
<i>Nair,VDP, Kanfer,I and Hoogmarterns,J. "Determination of stigmaterol, beta-sitosterol and stigmastanol in oral dosage forms using high performance liquid chromatography with evaporative light scattering detection". Journal of Pharmaceutical and Biomedical Analysis. 2006. 41(3),731-737.</i>	0.67
<b>Verbeeck,RK, Kanfer,I and Walker,RB</b>	
<i>Verbeeck,RK, Kanfer,I and Walker,RB. "Generic Substitution: The use of medicinal products containing different salts and implications for safety and efficacy". European Journal of Pharmaceutical Sciences. 2006. 28(1 &amp; 2),1-6.</i>	1.00
<b>Walker,RB</b>	
<i>Khamanga,SMM and Walker,RB. "Evaluation of rate of swelling and erosion of verapamil (VRP) sustained-release matrix tablets". Drug Development and Industrial Pharmacy. 2006. 32(10),1139-1148.</i>	1.00
<i>Mohammadi,A, Hariran,I, Rezanour,N, Ghiasi,L and Walker,RB. "A stability-indicating high performance liquid chromatographic assay for the determination of orlistat in capsules". Journal</i>	0.20

<i>of Chromatography A. 2006. 1116,153-157.</i>	
TOTAL FOR PHARMACY	13.54

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

<b>PHARMACY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Allan	Dowse/Boughey	M	0.50
Chetty	Walker	M	1.00
Mollel	Walker	M	1.00
Palvie	Daya	M	1.00
Tetty-Amlalo	Haigh	M	1.00
Wu	Daya	M	1.00
Diaram	Daya	D	3.00
Dubber	Kanfer	D	3.00
Patel	Walker	D	3.00
Pukushothaman	Kanfer	D	3.00
TOTAL			17.50

## 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

*Jones,W.* "Explanation and Condemnation". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate. Aldershot. 2006. 43-64. ISBN:0-7546-5395-1.

### Kumar,C

*Kumar,C.* "Philosophy, Determinism and Moral Responsibility in Times of Atrocity". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate Press. Aldershot. 2006. 153-174. ISBN:0-7546-5395-1.

### Tabensky,PA

*Tabensky,PA.* Tabensky, PA (eds). *Judging and Understanding*. Ashgate. Aldershot. 2006.

*Tabensky,PA.* "Introduction". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate. Aldershot. 2006. 1-7. ISBN:0-7546-5395-1.

*Tabensky,PA.* "Moved Movers: Transfiguring Judgement Practices". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate. Aldershot. 2006. 129-151. ISBN:0-7546-5395-1.

### Vice,S

*Vice,S.* "Living with the Self: Self-Judgement and Self-Understanding". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate. Aldershot. 2006. 91-109. ISBN:0-7546-5395-1.

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

### Jones,W

*Jones,W.* "Philosophers, Their Context, and Their Responsibilities". *Metaphilosophy*. 2006. 37(5),623-645.

*Jones,W.* "The Function and Content of Amusement". *South African Journal of Philosophy*. 2006. 25(2),126-137.

## OTHER PUBLICATIONS

### Bamford,R

*Bamford,R.* "Review of James Williams *Gilles Deleuze's Difference and Repetition: A Critical Introduction and Guide* (Edinburgh: Edinburgh University Press, 2003)". *Journal of Nietzsche Studies*. 2006. 31, 61-62.

**Jones,W**

*Jones,W.* Jones, W (eds) *Philosophical Papers: An International Journal of Philosophy* Jones. Rhodes University. Grahamstown. 2006. 35(1, 2, 3).

**Kumar,C**

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

*Kumar,C.* "Foucault and Rorty on Truth and Ideology". *Ideology, Democracy and Oppression Project*. Online. 2006.

*Kumar,C.* "Coordination Power and Ideology". *Ideology, Democracy and Oppression Project*. Online. 2006.

*Kumar,C.* "Marxism, Foucault and Two Forms of Methodological Individualism". *Ideology, Democracy and Oppression Project*. Online. 2006.

*Kumar,C.* "Witches, Witch Doctors, and *Men of Reason*". *Mail and Guardian* 9 September 2006. Johannesburg. 2006.

**Tabensky,PA**

*Tabensky,PA.* "Review of Mark Young *Negotiating The Good Life: Aristotle and the Civil Society* (Aldershot: Ashgate 2005)". *Ethical Theory and Practice* (online issue). 2006.

**Vice,S**

*Vice,S.* "Review of Joel Kupperman *Six Myths about the Good Life* (Hackett, 2006)". *Notre Dame Philosophical Reviews* (accessible online at <http://ndpr.nd.edu>). 2006.

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

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

**Bamford,R**

*Bamford,R.* "Nietzsche and Ubuntu: the encultured subject of moral psychology". *Nietzsche, Culture, and Society Conference*. Rhodes University, Grahamstown. January 2006.

*Bamford,R.* "Metaphor, consciousness, and metaphilosophy: what Nietzsche might have said to Dennett". *33rd Annual Conference of the Philosophical Society of Southern Africa*. Rhodes University, Grahamstown. January 2006.

**Jones,W**

*Jones,W.* "The Function and Content of Amusement". *33rd Annual Conference of the Philosophical Society of Southern Africa*. Rhodes University, Grahamstown. January 2006.

*Jones,W.* "Doxastic Goods". *South Africa Annual Spring Colloquium*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

**Kumar,C**

*Kumar,C.* "Does the Critique of Ideology Presuppose a Position in Meta-ethics?". *PSSA*. Rhodes University, Grahamstown. January 2006.

*Kumar,C.* "Is Meta-ethics Morally or Politically Relevant?". *Philosophy Forum*. Rhodes University, Grahamstown. April 2006.

*Kumar,C.* "Witches, Witch Doctors, and Men of Reason". *SAPS*. UWC, Cape Town. September 2006.



**Martin,T**

*Martin,T.* "Own-Race-Absent Racism". *33rd Annual Conference of the Philosophical Society of Southern Africa*. Rhodes University, Grahamstown. January 2006.

**Tabensky,PA**

*Tabensky,PA.* "Shadows of Goodness". *South Africa Annual Spring Colloquium*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

**Vice,S**

*Vice,S.* "Lighthouses in a Foggy World: Ideals in Frank Capra's *Meet John Doe*". *South Africa Annual Spring Colloquium*. University of KwaZulu-Natal, Pietermaritzburg. September 2006.

*Vice,S.* "What's Wrong with Cynicism? Cynicism, Hope and Moral Faith". *33rd Annual Conference of the Philosophical Society of Southern Africa*. Rhodes University, Grahamstown. January 2006.

**Williamson,F**

*Williamson,F.* *First Conference of the Social Sciences Network of South Africa*. Birchwood Hotel and Conference Centre, Johannesburg. August 2006.

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

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

**Bamford,R**

*Bamford,R.* "The Nietzsche Diet". *Convivium/APA Central Division Meeting*. Palmer House Hilton Hotel, Chicago. USA. April 2006.

**Jones,W**

*Jones,W.* "Doxastic Goods". *Conference on Epistemic Value*. Stirling University, Stirling. Scotland, UK. August 2006.

**Kumar,C**

*Kumar,C.* "Elster's Methodological Individualism". *Political Philosophy Colloquium*. Stockholm University, Stockholm. Sweden. June 2006.

**Martin,T**

*Martin,T.* "Reason and Anti-Semitism in *The Believer*". *Australasian Society for Continental Philosophy*. Deakin University, Geelong. Australia. July 2006.

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

**Jones,W**

*Jones,W.* Speaker. "*The Nature of Philosophy*". National Schools Festival. Rhodes University. Grahamstown. July 2006.

**Vice,S**

*Vice,S.* Speaker. "*Lighthouses in a Foggy World*". Winter School, National Arts Festival. Rhodes University. Grahamstown. July 2006.

*Vice,S.* Speaker. "*Whats Wrong with Cynicism?*". University of the Witwatersrand Visiting Speakers Seminar. Wits. Johannesburg. October 2006.

# **DISTINGUISHED VISITORS**

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

Professor T Metz. University of the Witwatersrand, Johannesburg. Guest Lecturer. September 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

PHILOSOPHY	UNITS
<b>Jones, W</b>	
<i>Jones, W.</i> "Philosophers, Their Context, and Their Responsibilities". <i>Metaphilosophy</i> . 2006. 37(5), 623-645.	1.00
<i>Jones, W.</i> "The Function and Content of Amusement". <i>South African Journal of Philosophy</i> . 2006. 25(2), 126-137.	1.00
<b>TOTAL FOR PHILOSOPHY</b>	<b>2.00</b>

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

PHILOSOPHY			
STUDENT	SUPERVISOR/S	M/D	UNITS
Allsobrook	Martin	M	0.50
Flockemann	Jones	M	0.50
Oelofsen	Martin	M	0.50
Ristic	Vermaak	M	0.50
Shapiro	Jones	M	0.50
Tselapedi	Vermaak	M	0.50
van Niekerk	Vermaak	M	0.50
<b>TOTAL</b>			<b>3.50</b>

## 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.

Chithambo,ML. "Orthopaedic grade ultra-high molecular weight polyethylene: Some features of the main thermoluminescence glow curve". *Radiation Protection Dosimetry*. 2006. 119,157-160.

**Karataglidis,S**

Canton,L, Pisent,G, Amos,K, *Karataglidis,S*, Svenne,JP and van der Knijff,D. "Collective-coupling analysis of spectra of mass-7 isobars:7He, 7Li, 7Be, and 7B". *Physical Review C*. 2006. 74,1-9.

Kim,YJ, Amos,K and *Karataglidis,S*. "Properties of effective interactions and the excitation of 6- states in <sup>28</sup>Si". *Nuclear Physics A*. 2006. A779,82-98.

**McKinnell,LA**

Friedrich,M, Egger,G, *McKinnell,LA* and Belova,E. "Perturbations in EISCAT electron densities visualised by normalisation". *Advances in Space Research*. 2006. 38,2413-2417.

*McKinnell,LA* and Friedrich,M. "Results from a new auroral lower ionosphere model". *Advances in Space Research*. 2006. 37(5),1045-1050.

**Ogundare,FO**

Ige,OA, Tubosun,IA, *Ogundare,FO*, Mokobia,CE and Balogun,FA. "TL response of muscovite samples from granite pegmatite of Ilesa and Ijero-Ekiti, Southwestern Nigeria". *Radiation Measurements*. 2006. 41(7-8),967-970.

*Ogundare,FO*, Balogun,FA and Hussain,LA. "Evaluation of kinetic parameters of traps in thermoluminescence phosphors". *Radiation Measurements*. 2006. 41(7-8),892-896.

*Ogundare,FO*, Mokobia,CE and Balogun,FA. "Kinetic study of the thermoluminescence glow curve of natural dolerite". *Radiation Effects and Defects in Solids*. 2006. 161(7),395-400.

**Ogundare,FO and Chithambo,ML**

\* *Ogundare,FO* and *Chithambo,ML*. "Accuracy of activation energy calculated from a thermoluminescence glow peak using a method that uses three points on the peak". *Physica Status Solidi C*. 2006. 3,355-361.

*Ogundare,FO* and *Chithambo,ML*. "Two - point method for kinetic analysis of a thermoluminescence glow peak". *Radiation Effects and Defects in Solids*. 2006. 161,289-296.

*Ogundare,FO*, *Chithambo,ML* and Oniya,EO. "Anomalous behaviour of thermoluminescence from quartz: A case of glow peaks from a Nigerian quartz". *Radiation Measurements*. 2006. 41,549-553.

**Oyeyemi,EO, McKinnell,LA and Poole,AWV**

*Oyeyemi,EO*, *McKinnell,LA* and *Poole,AWV*. "Near-real time foF2 predictions using neural networks". *Journal of Atmospheric and Solar-Terrestrial Physics*. 2006. 68,1807-1818.

**Poole,LMG**

Jones,J and *Poole,LMG*. "Gravitational focussing and shielding of meteoroid streams". *Monthly Notices of the Royal Astronomical Society*. 2006. 1-6.

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

**i. Local Conferences (Within South Africa)****Grant,RP**

*Grant,RP*. "The Construction of a Thermoluminescence reactor at Rhodes University". *51st Annual Conference of the South African Institute of Physics*. University of the Western Cape, Bellville. July 2006.

\*NOT AN ACCREDITED JOURNAL

**McKinnell,LA**

McKinnell,LA and Friedrich,M. "An auroral zone lower ionosphere model for IRI". *The South African Institute for Physics*. University of the Western Cape, Bellville. July 2006.

Moeketsi,DM, Combrink,WL, McKinnell,LA and Fedrizzi,M. "Effects of extreme solar X-ray and EUV flare on GPS derived TEC over Sothern Africa". *4th Inkaba ye Africa workshop*. Potsdam. June 2006.

Moeketsi,DM, Combrink,WL, McKinnell,LA and Fedrizzi,M. "Development towards the study of solar cycle variations of GPS-Derived total electron content observed over Southern Africa". *The South African Institute of Physics*. University of the Western Cape, Bellville. July 2006.

Sibanda,P, McKinnell,LA and Cilliers,PJ. "Effects of particle precipitation on the ionosphere". *The South African Institute for Physics*. University of the Western Cape, Bellville. July 2006.

**McKinnell,LA and Haggard,R**

Opperman,BDL, Cilliers,PJ, McKinnell,LA and Haggard,R. "Development of a regional GPS-based Ionospheric TEC model for South Africa". *The South African Institute for Physics*. University of the Western Cape, Bellville. July 2006.

**Ogundare,FO and Chithambo,ML**

Ogundare,FO and Chithambo,ML. "Characteristics of lifetimes and intensity of luminescence from Nigeria quarts measured in the 'slow component' region". *51st Annual Conference of the South African Institute of Physics*. University of the Western Cape, Bellville. July 2006.

**Oyeyemi,EO, McKinnell,LA and Poole,AWV**

Oyeyemi,EO, McKinnell,LA and Poole,AWV. "Near real time foF2 predictions using neural networks". *The South African Institute for Physics*. University of the Western Cape, Bellville. July 2006.

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

Chithambo,ML. "Features of luminescence lifetimes in quartz annealed close to its phase inversion temperature". *10th Europhysical conference on Defects in Insulating Materials*. Milan. Italy. July 2006.

**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**

McKinnell,LA. "Determining the optimum solar activity input using neural networks (Invited presentation)". *COSPAR Scientific Assembly*. Beijing. China. July 2006.

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 Friedrich,M. "IMAZ for IRI: An assessment of the lower ionosphere options in IRI". *The International Reference Ionosphere Workshop*. Buenos Aires. Argentina. 2006.

Paradza,M, McKinnell,LA and Opperman,BDL. "A comparative analysis of GPS derived TEC and Ionosonde TEC over Grahamstown, South Africa". *The International Reference Ionosphere Workshop*. Buenos Aires. Argentina. 2006.

**McKinnell,LA and Oyeyemi,EO**

Nambla,FJ, *McKinnell,LA* and *Oyeyemi,EO*. "The variations in the ionospheric scale height parameter at the F2 peak over Grahamstown, South Africa". *The International Reference Ionosphere Workshop*. Buenos Aires. Argentina. 2006.

**Ogundare,FO and Chithambo,ML**

*Ogundare,FO* and *Chithambo,ML*. "On the initial rise method for thermoluminescence glow peak analysis". *10th Europhysical Conference on Defects in Insulating Materials*. Milan. Italy. July 2006.

**Oyeyemi,EO and McKinnell,LA**

*Oyeyemi,EO* and *McKinnell,LA*. "A new global F2 peak electron density model for the International Reference Ionosphere". *The International Reference Ionosphere Workshop*. Buenos Aires. Argentina. 2006.

**Williams,J**

*Williams,J*. "CP Violation for Charged Higgs Discovery at Colliders". *Prospects for Charged Higgs Discovery at Colliders*. Uppsala University, Uppsala. Sweden. September 2006.

**JOURNAL SUBSIDY UNITS**

PHYSICS	UNITS
<b>Chithambo,ML</b>	
<i>Chithambo,ML</i> . "On the correlation between annealing and variabilities in pulsed luminescence from quartz". <i>Radiation Measurements</i> . 2006. 41,862-865.	1.00
<i>Chithambo,ML</i> . "Orthopaedic grade ultra-high molecular weight polyethylene: Some features of the main thermoluminescence glow curve". <i>Radiation Protection Dosimetry</i> . 2006. 119,157-160.	1.00
<b>Karataglidis,S</b>	
Canton,L, Pisent,G, Amos,K, <i>Karataglidis,S</i> , Svenne,JP and van der Knijff,D. "Collective-coupling analysis of spectra of mass-7 isobars:7He, 7Li, 7Be, and 7B". <i>Physical Review C</i> . 2006. 74,1-9.	0.17
Kim,YJ, Amos,K and <i>Karataglidis,S</i> . "Properties of effective interactions and the excitation of 6- states in 28Si". <i>Nuclear Physics A</i> . 2006. A779,82-98.	0.34
<b>McKinnell,LA</b>	
Friedrich,M, Egger,G, <i>McKinnell,LA</i> and Belova,E. "Perturbations in EISCAT electron densities visualised by normalisation". <i>Advances in Space Research</i> . 2006. 38,2413-2417.	0.25
<i>McKinnell,LA</i> and Friedrich,M. "Results from a new auroral lower ionosphere model". <i>Advances in Space Research</i> . 2006. 37(5),1045-1050.	0.50
<b>Ogundare,FO</b>	
Ige,OA, Tubosun,IA, <i>Ogundare,FO</i> , Mokobia,CE and Balogun,FA. "TL response of muscovite samples from granite pegmatite of Ilesa and Ijero-Ekiti, Southwestern Nigeria". <i>Radiation Measurements</i> . 2006. 41(7-8),967-970.	0.20
<i>Ogundare,FO</i> , Balogun,FA and Hussain,LA. "Evaluation of kinetic parameters of traps in thermoluminescence phosphors". <i>Radiation Measurements</i> . 2006. 41(7-8),892-896.	0.34
<i>Ogundare,FO</i> , Mokobia,CE and Balogun,FA. "Kinetic study of the thermoluminescence glow curve of natural dolerite". <i>Radiation Effects and Defects in Solids</i> . 2006. 161(7),395-400.	0.34
<b>Ogundare,FO and Chithambo,ML</b>	
<i>Ogundare,FO</i> and <i>Chithambo,ML</i> . "Two - point method for kinetic analysis of a thermoluminescence glow peak". <i>Radiation Effects and Defects in Solids</i> . 2006. 161,289-296.	1.00
<i>Ogundare,FO</i> , <i>Chithambo,ML</i> and Oniya,EO. "Anomalous behaviour of thermoluminescence from quartz: A case of glow peaks from a Nigerian quartz". <i>Radiation Measurements</i> . 2006. 41,549-553.	0.67
<b>Oyeyemi,EO, McKinnell,LA and Poole,AWV</b>	
<i>Oyeyemi,EO</i> , <i>McKinnell,LA</i> and <i>Poole,AWV</i> . "Near-real time foF2 predictions using neural	1.00

networks". <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> . 2006. 68,1807-1818.	
<b>Poole,LMG</b>	
Jones,J and <i>Poole,LMG</i> . "Gravitational focussing and shielding of meteoroid streams". <i>Monthly Notices of the Royal Astronomical Society</i> . 2006. 1-6.	0.50
TOTAL FOR PHYSICS	7.31

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

PHYSICS AND ELECTRONICS			
STUDENT	SUPERVISOR/S	M/D	UNITS
Botoi	McKinnell	M	0.50
Richter	Jonas	M	0.50
Oyeyemi	Poole	D	3.00
TOTAL			4.00

## **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**

*Bischoff,PH.* "Towards a foreign peacekeeping commitment: South African approaches to conflict resolution in Africa". In: Carlsnaes,W and Nel, P (eds) *South African Foreign Policy after Apartheid*. IGD. Johannesburg. 2006. 147-163.

#### **Kumar,C**

*Kumar,C.* "Philosophy, Determinism and Moral Responsibility in Times of Atrocity". In: Tabensky, PA (eds) *Judging and Understanding*. Ashgate Press. Aldershot. 2006. 153-174. ISBN:0-7546-5395-1.

#### **Ruiters,G**

*Ruiters,G.* "Defending their own patch: Political Studies in the Post-Apartheid Period". In: Hendricks, F (eds) *Social Sciences in Post-Apartheid South Africa: Disciplinary and Non- disciplinary Perspectives*. Africa Institute. Pretoria. 2005. 53-61.

*Ruiters,G.* "Water Commodification and the Threat to Health, Global health Watch". In: *Alternative World Health Report*. Zed Press. London. 2005. 1(1).

#### **Vale,PCJ**

*Vale,PCJ.* "Fearful Humanity and the Project of Human Security". In: Obiya,C and Hidemitsu, K (eds) *Political Violence and Human Security in the Post-9-11 World*. JCAS Symposium. Osaka, Japan. 2006. 213-231.

*Vale,PCJ.* "The Study of International Relations in South Africa: Still more questions than answer". In: Trenton, NJ (eds) *University Struggles in Post-Apartheid South Africa*. Africa World Press. 2006. 127-141.

#### **Vincent,LD**

*Vincent,LD.* "Non-State Actors in International Relations". In: Nel,P and McGowan, P (eds) *Power, Wealth and Global Equity: An International Relations Textbook for Africa*. UCT Press. Cape Town. 2006. 147-162.

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

#### **Friedman,S**

*Friedman,S and Mottiar,S.* "A Rewarding Engagement? The Treatment Action Campaign and the Politics of HIV/AIDS". *Politics and Society*. 2005. 33(4),511-565.



**Hoeane,T**

- \* *Hoeane,T. "Local Government Pre-Election Political and Constitutional Setting: Eastern Cape". *Election Update South Africa*. 2006. 1,22-26.*
- \* *Hoeane,T. "Local Government Election Day: Eastern Cape". *Election Update South Africa*. 2006. 2,28-30.*
- \* *Hoeane,T. "Post-Election Phase: Eastern Cape". *Election Update South Africa*. 2006. 3,17-25.*

**Praag,L**

*Praag,L. "Teaching as Justice". *Politikon*. 2006. 33,1-19.*

**Vale,PCJ**

*Vale,PCJ. "Demilitarisation and peace-Building in Southern Africa: Understanding Opportunities Lost". *African Sociological Review*. 2005. 9(2),236-242.*

- \* *Vale,PCJ. "Leef Gevaarlik". *Die Vyre African*. 2006. 17-20.*

*Vale,PCJ. "False Starts in South Africa: Recharging the Prospects". *International Studies Review*. 2006. 8,518-520.*

**Vincent,LD**

*Vincent,LD. "Virginity Testing in South Africa: Re-Traditioning the Postcolony". *Culture Health and Sexuality*. 2006. 1,17-30.*

*Vincent,LD. "Of no account? South Africa's Electoral System (Non) Debate". *Journal of Contemporary African Studies*. 2006. 24,81-100.*

*Vincent,LD. "Destined to Come to Blows? Race and Masculinities in Post-Apartheid South Africa". *Men and Masculinities*. 2006. 8,350-366.*

*Vincent,LD and McEwen,C. "Labouring to Love: Romantic Love and Power in the Construction of Middle Class Femininity". *Indian Journal of Gender Studies*. 2006. 13(1),37-59.*

- \* *Vincent,LD and McEwen,C. "Romantic Love and Constructions of Femininity in Young Heterosexual Relationship". *Asian Women*. 2005. 20,2-24.*

**OTHER PUBLICATIONS**

**Bischoff,PH**

*Bischoff,PH. "Dangers of Co-Deployment". Francis,D, Faal,M, Kabia,J and Ramsbotham, A (eds) *Review, International Affairs*, Royal Institute of International Affairs. Aldershot. Ashgate. 2006. 732-733.*

*Bischoff,PH. "Unmasking myths and explaining contradictions anew". Wilder, G (eds) *The French Imperial Nation-State*. University of Chicago Press. Chicago. 2006.*

**Kumar,C**

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

*Kumar,C. "Marxism, Foucault and Two Forms of Methodological Individualism". *Ideology, Democracy and Oppression Project*. Online. 2006.*

**\*NOT AN ACCREDITED JOURNAL**

Kumar,C. "Coordination Power and Ideology". Ideology, Democracy and Oppression Project. Online. 2006.

Kumar,C. "Foucault and Rorty on Truth and Ideology". Ideology, Democracy and Oppression Project. Online. 2006.

Kumar,C. "Witches, Witch Doctors, and *Men of Reason*". Mail and Guardian 9 September 2006. Johannesburg. 2006.

**Vale,PCJ**

Vale,PCJ. "5 Articles". Business Day. Johannesburg. 2006.

Vale,PCJ. "3 Articles". Grocott's Mail. Grahamstown. 2006.

Vale,PCJ. "3 Articles". Mail and Guardian. Financial Mail. Johannesburg. 2006.

Vale,PCJ. "1 Article". Rapport. Johannesburg. 2006.

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

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

**Fluxman,AP**

Fluxman,AP. "Marx's rationalist critique of the market". *South African Philosophy Association Conference*. Rhodes University, Grahamstown. January 2006.

**Hoeane,T**

Hoeane,T. "Floor Crossing in South Africa: Implications for Democratic Consolidation". *Biennial Conference of the South African Association of Political Studies (SAAPS)*. UWC, Cape Town. September 2006.

**Kumar,C**

Kumar,C. "Does the Critique of Ideology Presuppose a Position in Meta-ethics?". *PSSA*. Rhodes University, Grahamstown. January 2006.

Kumar,C. "Is Meta-ethics Morally or Politically Relevant?". *Philosophy Forum*. Rhodes University, Grahamstown. April 2006.

Kumar,C. "Witches, Witch Doctors, and Men of Reason". *SAPS*. UWC, Cape Town. September 2006.

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

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

**Bischoff,PH**

Bischoff,PH. "Success, partial success and ongoing challenges: conflict resolution and peacebuilding in South Africa before and after 1994". *International Workshop on promoting peace: the role of peace cultures and local wisdoms*. ICIP, Jakarta. Indonesia. April 2006.

Bischoff,PH. "Disconnectedness of Transformation? A Take on Africa's New Multilateralism". *IPSA XX World Congress*. Fukuoka. Japan. July 2006.

**Fluxman,AP**

*Fluxman,AP.* "False consciousness and objective illusions". *Symposium within Research Project*. Stockholm University, Stockholm. Sweden. June 2006.

**Kumar,C**

*Kumar,C.* "Elster's Methodological Individualism". *Political Philosophy Colloquium*. Stockholm University, Stockholm. Sweden. June 2006.

**Praeg,L**

*Praeg,L.* "Mandela and forgiveness; or, a brief history of the numinous". *Colloquium on Violence and Religion*. University of Saint Paul, Ottawa. Canada. June 2006.

**Vale,PCJ**

*Vale,PCJ.* "Maps, the International and Future of Inter-Nation Relations in Southern Africa". *Tenth Anniversary Conference of the Electoral Institute of Southern Africa*. Marriot Mission Valley, San Diego. USA. March 2006.

**Vincent,LD**

*Vincent,LD.* "Cutting Tradition: The political regulation of traditional circumcision rites in South Africa's democratic order". Shreveport, Louisiana. USA. May 2006.

**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 S Chown. University of Stellenbosch, Cape Town. To give a teach-in seminar on the Challenge of Global Change. September 2006.

Dr J Couture. Montreal, Canada. To teach the Postgraduate programme on the Politics of Globalisation. September-November 2006.

Mr H Craft. Australian National University, Canberra, Australia. Seminar on the Eminent Persons Group (EPG): Twenty Years On. February 2006.

Dr F Friedman. Centre of Policy Studies, Pretoria. To give a teach-in seminar on the Challenge of Global Change. September 2006.

Professor B Hewitson. University of Cape Town, Cape Town. To give a teach-in seminar on the Challenge of Global Change. September 2006.

Dr S Kibble. Catholic Institute for International Relations, United Kingdom. Seminar on Somaliland: A model in Africa. February 2006.

Mr W Mene. Department of Trade and Industry, Pretoria. To give a seminar on Is Doha Development Round already in the grave or intensive care unit: A South African perspective. September 2006.

Dr G Midgley. SA National Biodiversity Institute, Kirstenbosch, Cape Town. To give a teach-in seminar on the Challenge of Global Change. September 2006.

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

Mr S Naidoo. Department of Defence, Pretoria. To lecture the Postgraduate Diploma students (PDIS). March 2006.

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

Dr M Rupiya. Institute for Security Study, Pretoria. To lecture the Postgraduate Diploma students (PDIS). April 2006.

Professor L Swatuk. University of Botswana, Botswana. To lecture the Postgraduate Diploma students (PDIS). May 2006.

#### JOURNAL SUBSIDY UNITS

POLITICAL AND INTERNATIONAL STUDIES		UNITS
<b>Friedman,S</b>		
<i>Friedman,S</i> and <i>Mottiar,S</i> . "A Rewarding Engagement? The Treatment Action Campaign and the Politics of HIV/AIDS". <i>Politics and Society</i> . 2005. 33(4),511-565.		0.50
<b>Praeg,L</b>		
<i>Praeg,L</i> . "Teaching as Justice". <i>Politikon</i> . 2006. 33,1-19.		1.00
<b>Vale,PCJ</b>		
<i>Vale,PCJ</i> . "Demilitarisation and peace-Building in Southern Africa: Understanding Opportunities Lost". <i>African Sociological Review</i> . 2005. 9(2),236-242.		1.00
<i>Vale,PCJ</i> . "False Starts in South Africa: Recharging the Prospects". <i>International Studies Review</i> . 2006. 8,518-520.		1.00
<b>Vincent,LD</b>		
<i>Vincent,LD</i> . "Virginity Testing in South Africa: Re-Traditioning the Postcolony". <i>Culture Health and Sexuality</i> . 2006. 1,17-30.		1.00
<i>Vincent,LD</i> . "Of no account? South Africa's Electoral System (Non) Debate". <i>Journal of Contemporary African Studies</i> . 2006. 24,81-100.		1.00
<i>Vincent,LD</i> . "Destined to Come to Blows? Race and Masculinities in Post-Apartheid South Africa". <i>Men and Masculinities</i> . 2006. 8,350-366.		1.00
<i>Vincent,LD</i> and <i>Mc Ewen,C</i> . "Labouring to Love: Romantic Love and Power in the Construction of Middle Class Femininity". <i>Indian Journal of Gender Studies</i> . 2006. 13(1),37-59.		1.00
TOTAL FOR POLITICAL AND INTERNATIONAL STUDIES		7.50

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

POLITICAL AND INTERNATIONAL STUDIES			
STUDENT	SUPERVISOR/S	M/D	UNITS
Alfers	Vincent	M	0.50
Brereton	Vale	M	0.50
Gcoyi	Bischoff	M	0.50
Lekhooa	Bischoff	M	0.50
Mahao	Vale	M	0.50
McEwan	Vincent	M	0.50
Menzes	Praeg	M	1.00
Mohapi	Vale	M	0.50
Rousell	Bischoff	M	1.00
Rembe	Hoene	D	3.00
Schoeman	Vale	D	3.00
TOTAL			11.50

## 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 WAISS-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 neuro-cognitive 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

*Moerdyk,AP.* "Individuals in Organization". In: Crafford,A, Moerdyk,AP, Nel,P, O'Neill,C, Schlechter,A and Southey, L (eds) Fresh Perspective on Industrial Psychology. Pearson Education. Cape Town. 2006. 41-58.

*Moerdyk,AP.* "Performance Management & Reward". In: Crafford,A, Moerdyk,AP, Nel,P, O'Neill,C, Schlechter,A and Southey, L (eds) Fresh Perspective on Industrial Psychology. Pearson Education. Cape Town. 2006. 243-266.

*Moerdyk,AP.* "Positive Employee Relations". In: Crafford,A, Moerdyk,AP, Nel,P, O'Neill,C, Schlechter,A and Southey, L (eds) Fresh Perspective on Industrial Psychology. Pearson Education. Cape Town. 2006. 267-290.

*Moerdyk,AP.* "Using the gap analysis Process". In: Moerdyk, AP (eds) X Kit Human Resources Management. Pearson Education. Cape Town. 2006. 223-235.

### Painter,D

*Painter,D.* "A human science for an inhuman time? The rise and demise of phenomenology in South African psychology". In: Gulerce,A, Staeuble,I, Hofmeister,A, Saunders,G and Kay, J (eds) Contemporary

theorizing in Psychology: Global perspectives. Concord: Captus Press. Canada. 2005. 97-195. ISBN:1-55322-109-5.

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

### **Edwards,DJA**

- \* *Edwards,DJA.* "Identifying and targeting idiosyncratic cognitive processes in group therapy for social phobia: A case study". *Pragmatic Case Studies in Psychotherapy*. 2006. 2(1),1-30.
- \* *Edwards,DJA.* "How the case of Vumile contributes to the evidence base for cognitive therapy with social phobia as an empirically grounded clinical intervention - response to commentaries on 'Identifying and targeting idiosyncratic cognitive processes in group therapy for social phobia: A case study'". *Pragmatic Case Studies in Psychotherapy*. 2006. 2(5),1-17.

### **Knight,ZG**

- \* *Knight,ZG.* "The trauma and beyond trauma of political displacement: An exploratory case study of one white Zimbabwean farmer". *Australian Journal of Disaster and Trauma*. 2006. 1,1-19.
- 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**

*Macleod,C* and Wilbraham,L. "Redeploying Parker, post-colonially". *Psychology in Society*. 2006. 34,31-50.

### **Painter,D**

*Painter,D.* "The racism of others: A polemic on discursive social psychology and its politics". *Psychology in Society*. 2005. 31,71-84.

### **Robus,D**

*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.

### **Smith,I**

*Smith,I.* "A cognitive-behavioural treatment programme for conduct disorder: The case of Tumeleng". *Journal of Psychology in Africa*. 2006. 2,231-242.

### **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**

Furedi,J, Mohr,P, *Swingler,D*, Bitter,I, Gheorghe,MD, Hotujac,L, Jarema,M, Kocmur,M, Koychev,GI, Mosolov,SN, Pecenak,J, Rybakowski,J, Svestka,J and Sartorius,N. "Psychiatry in selected countries of Central and Eastern Europe: an overview of the current situation". *Acta Psychiatrica Scandinavica*. 2006. 114,223-231.

**\*NOT AN ACCREDITED JOURNAL**

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

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

**Appalsamy,P**

*Appalsamy,P.* "When Psychotherapy hurts rather than heals: Tracy's story". *10th Annual Psychology Postgraduate Conference*. University of KwaZulu-Natal, Pietermaritzburg. October 2006.

**Edwards,DJA**

*Edwards,DJA.* "The lasting legacy of trauma: Understanding obstacles to forgiveness and to resolution of negative post-traumatic experiences". *Conference on Memory, Narrative & Forgiveness: Reflecting on Ten Years of South Africa's Truth and Reconciliation Commission*. University of Cape Town, Cape Town. November 2006.

**Moerdyk,AP**

*Moerdyk,AP.* "Patterns & predictors of academic success - the case of first year Psychology students at Rhodes University". *SIOPSA Conference*. Pretoria. June 2006.

**Shuttleworth-Edwards,AB**

*Shuttleworth-Edwards,AB.* "Pitfalls in the practitioner use of the WAIS-III in the South African context. Part I". *10th National Conference of the South African Clinical Neuropsychological Association (SACNA)*. University of Cape Town, Cape Town. February 2006.

*Shuttleworth-Edwards,AB.* "Computer-based neurocognitive screening in sports concussion management: Luxury or clinical necessity in the public domain?". *12th South African Psychology Congress*. Emperor's Palace, Johannesburg. September 2006.

*Shuttleworth-Edwards,AB.* "The role of computer-based neurocognitive screening in the overall medical management of sports concussion". *19th Biennial Congress of the Society of Neurosurgeons of South Africa*. Vineyard Hotel, Cape Town. September 2006.

**van Ommen,CH**

*van Ommen,CH.* "Odd bedfellows? Post-structuralism and the neurosciences". *10th Biennial South African Clinical Neuropsychology Association*. University of Cape Town, Cape Town. January 2006.

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

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

**Appalsamy,P**

*Appalsamy,P.* "Pathways to suicide: A phenomenological case study". *37th Annual Conference of the American Association of Suicidology Conference*. Hotel, Florida. USA. April 2005. 168-172.

**Bohmke,WR**

*Bohmke,WR and Painter,D.* "Ordinary liberals: Rhetoric, ideology and the reproduction of racism in South Africa". *27th Annual Meeting of the International Society for Political Psychology*. Casa Convalescia, Hospital de Sant Pau, Barcelona. Spain. July 2006.

**Edwards,DJA**

*Edwards,DJA.* "The role of systematic case studies in the development of evidence-based practice at a panel entitled, 'A marriage made in heaven: Systematic case studies and Psychotherapy research.'" *Conference of the Society for Psychotherapy Research*. University of Edinburgh, Edinburgh. Scotland. June 2006.

**Knight,ZG**

*Knight,ZG. "The analyst's fear of emotional surrender". International Congress of Psychotherapy combined with the 3rd International Congress of Asian Federation for Psychotherapy. Keio Hotel, Tokyo. Japan. September 2006.*

**Macleod,C**

*Macleod,C. "Postcolonialism and psychology". Invited paper at Open University. Open University, Milton-Keynes. United Kingdom. June 2006.*

*Macleod,C. "Postcolonial Foucauldian feminism and intellectual activism in South African Psychology". International Society of Political Psychology 2006 Scientific Meeting. Casa Convalescia, Hospital de Sant Pau, Barcelona. Spain. July 2006.*

**Stones,CR**

*Stones,CR. "A case study: Family dynamics and the over investment of loyalty". International Congress of Psychotherapy in Japan and the 3rd International Congress of the Asian Federation for Psychotherapy. Keio Hotel, Tokyo. Japan. August 2006.*

**van Ommen,CH**

*van Ommen,CH. "Capturing resource: Attention and the Political". International Society for Political Psychology. Casa Convalescia, Hospital de Sant Pau, Barcelona. Spain. July 2006.*

**CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.****Shuttleworth-Edwards,AB**

*Shuttleworth-Edwards,AB. Facilitator. "Pitfalls in the practitioner use of the WAISS-II in the South African context. Part II". Conference of the South African Clinical Neuropsychological Society (SACNA). University of Cape Town. Cape Town. February 2006.*

*Shuttleworth-Edwards,AB. Facilitator. "A working model for specialist training in Clinical Neuropsychology". C. Foxcroft (Chair), 'Neuropsychology: Training Issues'. Round Table Discussion held at the 12th South African Psychology Congress. Emperor's Palace. Johannesburg. September 2006.*

**OVERSEAS RESEARCH OR FURTHER STUDY****Shuttleworth-Edwards,AB**

*Shuttleworth-Edwards,AB. Charlton Athletics Club, New Eltham, London, England. Research planning for collaborative study in progress, on the effect of heading in soccer, using the ImPACT neurocognitive screening battery. April 2006.*

**JOURNAL SUBSIDY UNITS**

PSYCHOLOGY	UNITS
<b>Knight,ZG</b>	
<i>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.</i>	1.00
<b>Macleod,C</b>	
<i>Macleod,C and Wilbraham,L. "Redeploying Parker, post-colonially". Psychology in Society. 2006. 34,31-50.</i>	0.50
<b>Painter,D</b>	
<i>Painter,D. "The racism of others: A polemic on discursive social psychology and its politics". Psychology in Society. 2005. 31,71-84.</i>	1.00
<b>Robus,D</b>	



<i>Robus,D and Macleod,C. "White excellence and black failure: The reproduction of racialised higher education in everyday talk". <i>South African Journal of Psychology</i>. 2006. 36(3),463-480.</i>	0.50
<b>Smith,I</b>	
<i>Smith,I. "A cognitive-behavioural treatment programme for conduct disorder: The case of Tumeleng". <i>Journal of Psychology in Africa</i>. 2006. 2,231-242.</i>	1.00
<b>Stones,CR</b>	
<i>Stones,CR. "Antigay prejudice among heterosexual males: Right-wing authoritarianism as a stronger predictor than social dominance orientation and heterosexual identity". <i>Social Behaviour and Personality</i>. 2006. 34(9),1137-1150.</i>	1.00
<b>Swingler,D</b>	
<i>Furedi,J, Mohr,P, Swingler,D, Bitter,I, Gheorghe,MD, Hotujac,L, Jarema,M, Kocmur,M, Koychev,GI, Mosolov,SN, Pecanak,J, Rybakowski,J, Svestka,J and Sartorius,N. "Psychiatry in selected countries of Central and Eastern Europe: an overview of the current situation". <i>Acta Psychiatrica Scandinavica</i>. 2006. 114,223-231.</i>	0.07
<b>TOTAL FOR PSYCHOLOGY</b>	<b>5.07</b>

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

<b>PSYCHOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Ashburner	Reid	M	0.50
Boulind	Edwards,A	M	0.50
Bove	Reid	M	0.50
Cakwe	Knoetze	M	1.00
Case	Edwards,A	M	0.50
Crafford	Knoetze	M	0.50
Davidow	Edwards,D	M	0.50
Gaylard	Edwards,A	M	0.50
Gouws	Routledge	M	0.50
Mdzimiso		M	0.50
Mitchell	Edwards,A	M	0.50
Robus	Painter/van Ommen	M	0.50
Smith	Edwards,A	M	0.50
Smith	Knoetze	M	0.50
Wolvaart	Routledge	M	0.50
Frewen	Edwards,D	D	3.00
Warmenhoven	van Niekerk	D	3.00
<b>TOTAL</b>			<b>14.00</b>

## RUMEP

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

*RUMEP, Brown,B and Schäfer,M.* Maths for Life: Mathematical Literacy Teachers Guide for grade 11. Juta Gariep. Lansdowne. 2006.

*RUMEP, Brown,B, Schäfer,M and Jacot-Guillarmod,P.* Maths for Life: Mathematical Literacy Learners book for grade 11. Juta Gariep. Lansdowne. 2006.

## CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

### Mkhwane,F

*Mkhwane,F.* Presenter. "*Multicultural Mathematics - Multiplication Strategies - for the Intermediate Phase*". AMESA One Day Conference. Port Elizabeth Teacher's Centre. Port Elizabeth. May 2006.

### Penlington,T

*Penlington,T.* Presenter. "*Multicultural Activities for the Senior Phase*". AMESA One Day Conference. Port Elizabeth Teacher's Centre. Port Elizabeth. May 2006.

### Tokwe,T

*Tokwe,T.* Presenter. "*Multicultural Mathematics - Multiplication Strategies - for the Intermediate Phase*". AMESA One Day Conference. Port Elizabeth Teacher's Centre. Port Elizabeth. May 2006.

## JOURNAL SUBSIDY UNITS

RUMEP	UNITS
TOTAL FOR RUMEP	0.00

## 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 20<sup>th</sup> century novelist.

French Studies hosted the bi-annual conference of the Association for French Studies in Southern Africa from the 11-14<sup>th</sup> 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. JQUES  
HEAD OF SCHOOL

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

### **Jaques,F**

*Jaques,F.* "The decolonisation of French-speaking territories in Africa as reflected in the South African press: a case study of Algeria and the Belgian Congo". *Journal of European Studies*. 2006. 36(1),31-41.

### **Kaschula,RH**

*Kaschula,RH.* "Indigenous languages, globalisation and the media in South Africa". *Acta Academica*. 2006. 2,135-153.

*Kaschula,RH* and *Ralarala,M.* "Language rights, intercultural communication and the law in South Africa". *South African Journal of African Languages*. 2004. 24(4),252-261.

### **Weber,U**

- \* *Weber,U.* "Il mal seme d'Adamo': Zwischen Wolfgang Koeppen und Günter Grass. Einblicke in den Umgang mit dem nationalsozialistischen Faschismus und der Vergangenheitsbewältigung in den vergangenen 50 Jahren". *Acta Germanica*. 2005. 33,121-129.

## OTHER PUBLICATIONS

### **Jaques,F**

*Jaques,F.* "Through the Past Darkly. History and Memory in François Mauriac's Bloc-Notes". Bracher, N (eds) *Journal of European Studies*. The Catholic University of America Press. Washington DC. 2006. 36(2), 227-228.

*Jaques,F.* "La contemplation dans *Un adolescent d'autrefois*: Association Internationale des Amis de François Mauriac". Lire, écrire, contempler *lectures et creation 11*. L'Harmattan. 2006. 371-382.

\*NOT AN ACCREDITED JOURNAL

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

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

**Cordell,C**

*Cordell,C.* "Visages du préjugé : visions des Juifs et des Protestants chez deux auteurs du XVI<sup>e</sup> siècle (Faces of prejudice: views of Jews and Protestants from two sixteenth-century authors)". *Association for French Studies in Southern Africa Conference: Visages et Visions*. Rhodes University, Grahamstown. September 2006.

**Kaschula,RH**

*Kaschula,RH.* "Identity in the Siyagruva Series of novels: Toward an intercultural literary discourse". *ALASA interim Conference*. University of Cape Town, Cape Town. July 2006.

*Kaschula,RH* and *Maseko,P.* "Multilingualism, African language teaching and dictionaries". *LexiEditors Forum, DSAE*. Rhodes University, Grahamstown. November 2006.

**Meintjes,G**

*Meintjes,G.* "Sheherazade's dilemma: An exploration of Andre Brink's prose oeuvre published after 1990". *The Changing Face of African Literature*. Pietermaritzburg. March 2006.

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

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

**Jaques,F**

*Jaques,F.* "Thérèse Desquegroux et Thérèse Raquin: deux soeurs mandites". *Association des Amis de Francios Mauriac*. Institut de France, Paris. France. May 2006.

**JOURNAL SUBSIDY UNITS**

SCHOOL OF LANGUAGES		UNITS
<b>Jaques,F</b>		
<i>Jaques,F.</i> "The decolonisation of French-speaking territories in Africa as reflected in the South African press: a case study of Algeria and the Belgian Congo". <i>Journal of European Studies</i> . 2006. 36(1),31-41.		1.00
<b>Kaschula,RH</b>		
<i>Kaschula,RH.</i> "Indigenous languages, globalisation and the media in South Africa". <i>Acta Academica</i> . 2006. 2,135-153.		1.00
<i>Kaschula,RH</i> and <i>Ralarala,M.</i> "Language rights, intercultural communication and the law in South Africa". <i>South African Journal of African Languages</i> . 2004. 24(4),252-261.		0.50
TOTAL FOR SCHOOL OF LANGUAGES		2.50

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

SCHOOL OF LANGUAGES			
STUDENT	SUPERVISOR/S	M/D	UNITS
TOTAL			0.00

## **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 post-graduate 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 Coetzee 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 49<sup>th</sup> 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**

*Adesina,JOT*. "Development and the Challenge of Poverty. NEPAD, post-Washington Consensus and Beyond". In: Adesina, JOT (eds) *Africa and Development Challenges in the New Millennium: The NEPAD Debate*. CODESRIA. Dakar. 2006. 33-62.

*Adesina,JOT*. "Introduction". In: Adesina, JOT (eds) *Africa and Development Challenges in the New Millennium: The NEPAD Debate*. CODESRIA. Dakar. 2006. 1-30.

*Adesina,JOT*. "Towards a Political Economy of African Development Discourse". In: Smith, MS (eds) *Beyond the 'African Tragedy'*. Ashgate. 2006. 49-68. ISBN:0 7546 4824 9.

**Drewett,MD**

*Drewett,MD.* Popular Music Censorship in Africa. Drewett,MD and Cloonan, M (eds) Ashgate. London. 2006. 219 pp.

*Drewett,MD.* "The Cultural Boycott Against Apartheid South Africa: A Case of Defensible Censorship?". In: Drewett,MD and Cloonan, M (eds) Popular Music Censorship in Africa. Ashgate. London. 2006. 23-38. ISBN:978-0-7546-5291-5.

Clegg,J and *Drewett,MD.* "Why Don't You Sing About the Leaves and the Dreams? Reflecting on Popular Music Censorship in Apartheid South Africa". In: Drewett,MD and Cloonan, M (eds) Popular Music Censorship in Africa. Ashgate. London. 2006. 125-136. ISBN:978-0-7546-5291-5.

Cloonan,M and *Drewett,MD.* "Concluding Comments on the Censorship of Popular Music in Africa". In: Drewett,MD and Cloonan, M (eds) Popular Music Censorship in Africa. Ashgate. London. 2006. 215-219. ISBN:978-0-7546-5291-5.

**Hendricks,FT**

*Hendricks,FT.* "Who Owns the Jewels? Perspectives on Social Class in South Africa". In: Marcus,T and Hofmaenner, A (eds) Shifting Boundaries of Knowledge: A view on social sciences, law and humanities in South Africa. University of KwaZulu-Natal Press. Durban. 2006. 111-124. ISBN:1-86914-106-7.

**Klerck,GG**

*Klerck,GG.* "Biotechnology Research and Technology Networks: the dynamics of competition and co-operation". In: Kruss, G (eds) Creating Knowledge Networks. HSRC Press. Cape Town. 2006. 14-50. ISBN:0-7969-2132-6.

*Klerck,GG.* Labour Relations: Law and Conflict in the Workplace. Klerck, G (eds) Labour Relations: Law and Conflict in the Workplace. New Africa Books. Cape Town. 2006.

**PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER****Adesina,JOT**

*Adesina,JOT.* "When Is 'Techno-talk' a Fatal Distraction? ICT in Contemporary Development Discourse on Africa". *Africa Development*. 2006. 31(3),120-153.

*Adesina,JOT.* "Sociology, Endogeneity and the Challenge of transformation - Inaugural Lecture". *African Sociological Review*. 2006. 10(2),133-150.

\* *Adesina,JOT.* "Global Trends in Higher Education Reform: What Lessons for Nigeria?". *Journal of Higher Education in Africa*. 2006. 4(1),1-23.

*Adesina,JOT.* "Sociology beyond despair: recovery of nerve, endogeneity, and epistemic intervention". *South African Review of Sociology*. 2006. 37(2),241-259.

**Coetzee,JK**

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

Wood,G and *Coetzee,JK.* "Negotiated revolutions or evolutionary regime transitions? The Czech Republic, South Africa and Chile". *African Sociological Review*. 2006. 10(1),234-243.

\*NOT AN ACCREDITED JOURNAL

**Hendricks,FT**

*Hendricks,FT.* "The Rise and Fall of South African Sociology". *African Sociological Review*. 2006. 10(1),86-97.

**Klerck,GG**

*Klerck,GG.* "Industrial Restructuring, Labour Market Segmentation and the Temporary Employment Industry in Namibia". *South African Review of Sociology*. 2005. 36(2),269-294.

**Miller,DR**

*Miller,DR.* "Spaces of Resistance - African workers at Shoprite in Maputo and Lusaka". *Africa Development*. 2006. 31(1),27-49.

*Miller,DR.* "Regional Solidarity and a New Regional Movement in Post-Apartheid Southern Africa: Retail Workers in Mozambique and Zambia". *Labour, Capital and Society*. 2005. 38(1 and 2),95-125.

\*

*Miller,DR.* "South Africa as regional bully boy: African farmers protest". *South African Labour Bulletin*. 2006. 30(5),19-23.

**Sishuta,B**

*Sishuta,B.* "Small-scale irrigation development for sustainable rural development: a case study of the Tyhefu irrigation scheme". *African Sociological Review*. 2005. 9(2),184-206.

**OTHER PUBLICATIONS****Adesina,JOT**

*Adesina,JOT.* "Rethinking social policy in Africa". News from the Nordic Africa Institute. 2006. (1), 5-7.

**Miller,DR**

*Miller,DR.* "Benchmarking Shoprite in Zambia: Corporate Social Responsibility and South African firms in Africa". (BeFSA CSR). Marshalltown, Johannesburg. 2006.

*Miller,DR.* "Changing African Cityscapes: Regional Claims of African labor at South African-owned Shopping Malls". Myers,GA and Murray, MJ (eds) *Cities in Contemporary Africa*. Palgrave/Macmillan. 2006.

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

*Adesina,JOT.* "Teaching, Textbooks and the Role of SASA". *SASA-NRF Workshop on Research and teaching in Sociology*. Birchwood Conference Centre, Boksburg. October 2006.

**Klerck,GG**

*Klerck,GG.* "The Unemployment Crisis and the Eastern Cape Jobs Summit". *Institute of Socio-Economic Research's Seminar Series on Current Issues in the Eastern Cape*. Rhodes University, Grahamstown. May 2006.

*Klerck,GG.* "A Regulated Precariousness: labour market regulation and the temporary employment industry in Namibia". *International Sociological Association World Congress*. Durban. July 2006.

\*NOT AN ACCREDITED JOURNAL

**Miller,DR**

Miller,DR. *CODESRIA Comparative Research Network (CRN) Methodology Workshop*. CODESRIA, Dakar. Senegal. April 2006.

Miller,DR. "Regional hegemonies, local counter-hegemonies - workers, local farmers and South African companies in Zambia after Apartheid". *International Sociological Association*. Durban. July 2006.

Miller,DR. *JSAS Editorial Commissioning: Wits Labour History Workshop*. University of the Witwatersrand, Johannesburg. July 2006.

Miller,DR. "From Cape To Cairo - A dialectic of dynamism and destruction: South African post-Apartheid corporate expansion in Africa". *Winter School, National Arts Festival*. Rhodes University, Grahamstown. July 2006.

Miller,DR. *South African Editors*. UNISA, Johannesburg. November 2006.

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

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

**Coetzee,JK**

Coetzee,JK and Rau,A. "Narratives of social suffering". *Conference of the Research Network: Qualitative Methods of the European Sociological Association*. University of Cardiff, Cardiff. United Kingdom. September 2006.

**Drewett,MD**

Drewett,MD. "The Critical Untrustworthy Narrator: A Post-Colonial Critique". *Association for Cultural Studies Crossroads Conference*. Istanbul. Turkey. July 2006.

Drewett,MD. "The Freemuse South African Schools Workshop: An Assessment". *3rd World Conference on Music and Censorship*. Istanbul. Turkey. November 2006.

**Miller,DR**

Miller,DR. "New regional imaginaries in post-Apartheid Southern Africa - retail workers at a shopping mall in Zambia". *School of Oriental and African Studies*. United Kingdom. October 2006.

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

Miller,DR. "Changing African cityscapes - regional claims of African labor at South African-owned shopping malls". *African Studies Association 49th Annual Meeting*. San Francisco. USA. November 2006.

**Roodt,JJ**

Roodt,JJ. "Security of tenure and livelihood options in South Africa - a case study of a rural community facing eviction under post-apartheid legislation in the Eastern Cape". *Colloque International*. Centre de Recherche de Montpellier and the Higher National Agronomic School of Montpellier (ENSAM), Montpellier. France. May 2006.

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

**Miller,DR**

Miller,DR. Participant. "Woman's Academic Solidarity Association". Workshop on Scientific Writing Programme. Rhodes University. Grahamstown. May 2006.



Miller,DR. Participant. "JSAS Editorial Discussion, South Eastern Workshop on Southern Africa (SEWSA)". Workshop. Rhodes University. Grahamstown. 26 June - 1 July 2006.

Miller,DR. Participant. "WASA and Rhodes Postgraduate programme". UCT Postgraduate Symposium. ICT Graduate School. Cape Town. 30 - 31 August 2006.

Miller,DR. Participant. "South Eastern Workshop on Southern Africa (SEWSA)". Workshop (SEWSA). 2006.

#### JOURNAL SUBSIDY UNITS

<b>SOCIOLOGY AND INDUSTRIAL SOCIOLOGY</b>	<b>UNITS</b>
<b>Adesina,JOT</b>	
Adesina,JOT. "When Is 'Techno-talk' a Fatal Distraction? ICT in Contemporary Development Discourse on Africa". <i>Africa Development</i> . 2006. 31(3),120-153.	1.00
Adesina,JOT. "Sociology beyond despair: recovery of nerve, endogeneity, and epistemic intervention". <i>South African Review of Sociology</i> . 2006. 37(2),241-259.	1.00
<b>Coetzee,JK</b>	
Coetzee,JK. "The power of words: defining, narrating, policy making". <i>Africanus</i> . 2006. 36(1),23-34.	1.00
Wood,G and Coetzee,JK. "Negotiated revolutions or evolutionary regime transitions? The Czech Republic, South Africa and Chile". <i>African Sociological Review</i> . 2006. 10(1),234-243.	0.50
<b>Hendricks,FT</b>	
Hendricks,FT. "The Rise and Fall of South African Sociology". <i>African Sociological Review</i> . 2006. 10(1),86-97.	1.00
<b>Klerck,GG</b>	
Klerck,GG. "Industrial Restructuring, Labour Market Segmentation and the Temporary Employment Industry in Namibia". <i>South African Review of Sociology</i> . 2005. 36(2),269-294.	1.00
<b>Miller,DR</b>	
Miller,DR. "Spaces of Resistance - African workers at Shoprite in Maputo and Lusaka". <i>Africa Development</i> . 2006. 31(1),27-49.	1.00
Miller,DR. "Regional Solidarity and a New Regional Movement in Post-Apartheid Southern Africa: Retail Workers in Mozambique and Zambia". <i>Labour, Capital and Society</i> . 2005. 38(1 and 2),95-125.	1.00
<b>Sishuta,B</b>	
Sishuta,B. "Small-scale irrigation development for sustainable rural development: a case study of the Tyhefu irrigation scheme". <i>African Sociological Review</i> . 2005. 9(2),184-206.	1.00
<b>TOTAL FOR SOCIOLOGY AND INDUSTRIAL SOCIOLOGY</b>	<b>8.50</b>

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

<b>SOCIOLOGY AND INDUSTRIAL SOCIOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Mfunne	Adesina	M	0.50
Sarimana	Hendricks	M	1.00
Akpan	Adesina	D	3.00
<b>TOTAL</b>			<b>4.50</b>

## 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**

*Jager,G.* "Lattice-valued continuous convergence is induced by a lattice-valued uniform convergence structure". *Fuzzy Sets and Systems*. 2006. 157,2715-2724.

### **Radloff,SE**

*Hepburn,HR and Radloff,SE.* "Morphological variation in the pollen collecting apparatus of honeybees". *Journal of Apicultural Research*. 2006. 45(1),25-26.

Neumann,P, Radloff,SE, Mortiz,RFA, Hepburn,HR and Reece,SL. "Social parasitism by honeybee workers (*Apis mellifera capensis* Escholtz): host finding and resistance of hybrid host colonies". *Behavioral Ecology*. 2006. 12(4),419-428.

- \* Pirk,CWW, Hepburn,HR and Radloff,SE. "Coefficients of genetic variation in honeybees – Akahira and Sakagami (1959) re-visited". *Honeybee Science*. 2005. 26(4),153-158.

Porri,F, McQuaid,CD and Radloff,SE. "Temporal scales of variation in settlement and recruitment of the mussel *Perna perna* (Linnaeus, 1758)". *Journal of Experimental Marine Biology and Ecology*. 2006. 332,178-187.

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.

Tan,K, Hepburn,HR, He,S, Radloff,SE, Neumann,P and Fang,X. "Gigantism in honeybees: *Apis cerna* queens reared in mixed-species colonies". *Naturwissenschaften*. 2006. 93,315-320.

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

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

#### **Bangay,L**

Cocks,ML and Bangay,L. "The significance of natural resources to urban households: Implications for bio-cultural diversity in South Africa". *Fourth Natural Forests and Savanna Woodlands Symposium "Multiple Use Management of Natural Forests and Woodlands: Policy Refinement and Scientific Progress*. May 2006.

Cocks,ML, Bangay,L, Shackleton,CM and Wiersum,F. "Rich man poor man': Inter-household and community factors influencing the use of wild plant resources amongst rural households in South Africa". *Thicket Forum*. July 2006.

#### **Baxter,JS**

Cox,A, Amos,T and Baxter,JS. "Leadership values across gender and culture (WIP)". *Southern African Institute of Management Scientists (SAIMS) Annual Conference*. University of Stellenbosch, Stellenbosch. September 2006. 488-490.

#### **Jager,G**

Ndebele,N and Jager,G. "A comparison of different clustering algorithms and their use in image compression". *49th Annual Conference of the South African Statistical Association*. University of Stellenbosch, Stellenbosch. November 2006.

#### **Radloff,SE**

Maree,KW and Radloff,SE. "Factors affecting ethical judgement: The South African evidence". *Southern African Accounting Association Biennial National Conference*. Sun City, June 2006.

Shiri,C, Srinivas,SC and Radloff,SE. "Effect of Educational Interventions in Modifying Health Care Receivers' Beliefs about Medicines". *20th Annual Conference/SAHIP*. Wilderness. March 2006.

#### **Radloff,SE and Szyszkowski,I**

Sharp,GD, Radloff,SE and Szyszkowski,I. "Information criteria as a tool for lag length selection of vector error correction models". *49th Annual Conference of the South African Statistical Association*. University of Stellenbosch, Stellenbosch. November 2006.

\*NOT AN ACCREDITED JOURNAL

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

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

**Radloff,SE**

Spiewok,S, Radloff,SE and Neumann,P. "Forensics of abandoned honeybee nests: Reproduction of small hive beetles (*Aethina tumida*) and greater wax moths (*Galleria mellonella*)". *2nd European Conference of Apidology EurBee*. Bee Research Institute Dol, Prague. Czech Republic. September 2006.

**DISTINGUISHED VISITORS**

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

**JOURNAL SUBSIDY UNITS**

STATISTICS	UNITS
<b>Bangay,L</b>	
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". <i>Environment, Development and Sustainability</i> . 2006. 8,519-533.	0.25
<b>Hepburn,C</b>	
Hepburn,HR and Hepburn,C. "Bibliography of <i>Apis cerana</i> Fabricius (1793)". <i>Apidologie</i> . 2006. 37(6),651-652.	0.50
<b>Jager,G</b>	
Jager,G. "Lattice-valued continuous convergence is induced by a lattice-valued uniform convergence structure". <i>Fuzzy Sets and Systems</i> . 2006. 157,2715-2724.	1.00
<b>Radloff,SE</b>	
Hepburn,HR and Radloff,SE. "Morphological variation in the pollen collecting apparatus of honeybees". <i>Journal of Apicultural Research</i> . 2006. 45(1),25-26.	0.50
Neumann,P, Radloff,SE, Mortiz,RFA, Hepburn,HR and Reece,SL. "Social parasitism by honeybee workers ( <i>Apis mellifera capensis</i> Escholtz): host finding and resistance of hybrid host colonies". <i>Behavioral Ecology</i> . 2006. 12(4),419-428.	0.20
Porri,F, McQuaid,CD and Radloff,SE. "Temporal scales of variation in settlement and recruitment of the mussel <i>Perna perna</i> (Linnaeus, 1758)". <i>Journal of Experimental Marine Biology and Ecology</i> . 2006. 332,178-187.	0.33
Porri,F, McQuaid,CD and Radloff,SE. "Spatio-temporal variability of larval abundance and settlement of <i>Perna perna</i> : differential delivery of mussels". <i>Marine Ecology Progress Series</i> . 2006. 315,141-150.	0.34
Tan,K, Hepburn,HR, He,S, Radloff,SE, Neumann,P and Fang,X. "Gigantism in honeybees: <i>Apis cerna</i> queens reared in mixed-species colonies". <i>Naturwissenschaften</i> . 2006. 93,315-320.	0.17
TOTAL FOR STATISTICS	3.29

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

STATISTICS			
STUDENT	SUPERVISOR/S	M/D	UNITS
Clogg	Szyszkowski	M	0.50
TOTAL			0.50

## ZOOLOGY AND ENTOMOLOGY

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 key note 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**

*Mann,CM, Craig,AJF and Skeen,J. Lifelines. University of KwaZulu-Natal. Maritzburg. 2006. 85 pp.*

### **Froneman,PW**

*Froneman,PW. "Biology of the Polar Front". In: Riffenburgh, B (eds) Routledge. New York. 2006.*

### **Hepburn,HR**

*Hepburn,HR. "Absconding migration and swarming in honeybees: An Ecological and evolutionary perspective". In: Kipyatkov, VE (eds) Life Cycles in Social Insects: Behaviour, Ecology & Evolution. St. Petersburg University Press. St. Petersburg. 2006. 121-135. ISBN:5-288-04008-7.*

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

### **Bernard,RTF**

*Bernard,RTF and Parker,DM.* "The use of archaeological and ethnographical information to supplement the historical record of the distribution of large mammalian herbivores in South Africa". *South African Journal of Science*. 2006. 102,117-119.

*Jackson,C and Bernard,RTF.* "Variation in the timing of reproduction of the four-striped field mouse, *Rhabdomys pumilio*, in the Eastern Cape Province, South Africa". *African Zoology*. 2006. 41(2),301-304.

*Parker,DM and Bernard,RTF.* "A comparison of two diet analysis techniques for a browsing Megaherbivore". *Journal of Wildlife Management*. 2006. 70(5),1477-1480.

*Plon,S and Bernard,RTF.* "A review of spermatozoan morphology in Cetacea with new data for the genus *Kogia*". *Journal of Zoology*. 2006. 269,466-473.

### **de Moore,FC**

*Rivers-Moore,NA, de Moore,FC, Birkholz,SA and Palmer,TG.* "Estimation of preferred water flow parameters for four species of *Simulium* (Diptera: Simuliidae) in small clear streams in South Africa". *African Journal of Aquatic Science*. 2006. 31(2),261-269.

### **Erlandson,J and McQuaid,CD**

*Erlandson,J, Pal,P 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.

### **Erlandsson,J**

*Pal,P, Erlandsson,J and Skold,M.* "Size-assortative mating and non-reciprocal copulation in a hermaphroditic intertidal limpet: test of the mate availability hypothesis". *Marine Biology*. 2006. 148,1273-1282.

### **Froneman,PW**

*Froneman,PW.* "Population demographics of *Palaemon peringueyi* (Macpherson 1990) (Decapoda: Palaemonidae) in a small intermittently open Eastern Cape estuary". *African Journal of Aquatic Science*. 2006. 31(2),197-203.

*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.

*Bernard,ATF and Froneman,PW.* "Euphausiid population structure and grazing in the Antarctic Polar Frontal Zone - austral autumn 2004". *African Journal of Marine Science*. 2006. 28(3 & 4),569-579.

*Lukey,JR, Booth,AJ and Froneman,PW.* "Fish population size and movement patterns in a small intermittently open South African estuary". *Estuarine Coastal and Shelf Science*. 2006. 67,10-20.

### **Froneman,PW and Hodgson,AN**

*Allan,EL, Froneman,PW and Hodgson,AN.* "Effects of temperature and salinity on the standard metabolic rate (SMR) of the caridean shrimp *Palaemon peringueyi*". *Journal of Experimental Marine Biology and Ecology*. 2006. 337,103-108.

### **Hepburn,HR**

*Addi,A, Phillipson,P and Hepburn,HR.* "Floral resources of *Apis mellifera capensis* in the fynbos biome in the Eastern Cape Province, South Africa". *African Entomology*. 2006. 14(1),153-159.

*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 Radloff,SE. "Morphological variation in the pollen collecting apparatus of honeybees". *Journal of Apicultural Research*. 2006. 45(1),25-26.

- \* Pirk,CWW, Hepburn,HR and Radloff,SE. "Coefficients of genetic variation in honeybees – Akahira and Sakagami (1959) re-visited". *Honeybee Science*. 2005. 26(4),153-158.

Wossler,TC, Jones,GE, Allsopp,MH and Hepburn,HR. "Virgin Queen Mandibular Gland Signals of *Apis mellifera capensis* Change with Age and Affect Honeybee Worker Responses". *Journal of Chemical Ecology*. 2006. 32(5),1043-1056.

**Hepburn,HR and Neumann,P**

Tan,K, Hepburn,HR, He,S, Radloff,SE, Neumann,P and Fang,X. "Gigantism in honeybees: *Apis cerna* queens reared in mixed-species colonies". *Naturwissenschaften*. 2006. 93,315-320.

**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 (*Eccritotarus catarinensis*) biocontrol". *Biological Control*. 2006. 39,392-400.

**Hill,MP and Villet,MH**

Midgley,JM, Hill,MP and Villet,MH. "The effect of water hyacinth *Eichhornia crassipes* (Martius) Solms-Laubach (Pontederiaceae) on benthic biodiversity in two impoundments on the New Year's River South Africa". *African Journal of Aquatic Science*. 2006. 31(1),25-30.

**Hodgson,AN**

Jamieson,BGM, Hodgson,AN and Spottiswoode,CN. "Ultrastructure of the spermatozoon of *Myrmecocichla formicivora* (Vieillot 1881) and *Philetairus socius* (Latham 1790) (Aves Passeriformes) with new interpretation of the passeridan acrosome". *Acta Zoologica*. 2006. 87,297-304.

**Hodgson,AN and Villet,MH**

Chawanji,AS, Hodgson,AN and Villet,MH. "Sperm morphology in five species of cicadettine cicadas (Hemiptera: Cicadomorpha: Cicadidae)". *Tissue and Cell*. 2006. 38,373-388.

**Kaehler,S**

Jacob,U, Brey,T, Fetzter,I, Kaehler,S, Mintenbeck,K, Dunton,K, Beyer,K, Struck,U, Pakhomov,EA and Arntz,WE. "Towards the trophic structure of the Bouvet Island marine ecosystem". *Polar Biology*. 2006. 29,106-113.

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.

Pakhomov,EA, Bushula,T, Kaehler,S, Watkins,BP and Leslie,RW. "Structure and distribution of the slope fish community in the vicinity of the sub-Antarctic Prince Edward Archipelago". *Journal of Fish Biology*. 2006. 68,1834-1866.

\*NOT AN ACCREDITED JOURNAL

Proudfoot,L, Kaehler,S, McGarry,DK, Uppink,PA, Aereboe,M and Morris,KM. "Exploitation status of infralittoral abalone (*Haliotis midae*) and alikreukel (*Turbo sarmaticus*) in the southern section of the Eastern Cape Coast South Africa". *South African Journal of Science*. 2006. 102,162-167.

**Kaehler,S and McQuaid,CD**

Rius,M, Kaehler,S and McQuaid,CD. "The relationship between human exploitation pressure and condition of mussel populations along the south coast of South Africa". *South African Journal of Science*. 2006. 102,130-136.

**McQuaid,CD**

Bownes,SJ and McQuaid,CD. "Will the invasive mussel *Mytilus galloprovincialis* Lamarck replace the indigenous *Perna perna* L on the south coast of South Africa?". *Journal of Experimental Marine Biology and Ecology*. 2006. 338,140-151.

Diaz,ER, Guldenzoph,C, Molis,M, McQuaid,CD and Wahl,M. "Variability in grazer-mediated defensive responses of green and red macroalgae on the south coast of South Africa". *Marine Biology*. 2006. 149,1301-1311.

Rius,M and McQuaid,CD. "Wave action and competitive interaction between invasive mussel *Mytilus galloprovincialis* and the indigenous *Perna perna* in South Africa". *Marine Biology*. 2006. 150,69-78.

**McQuaid,CD and Froneman,PW**

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.

**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**

McQuaid,CD and Phillips,TE. "Mesoscale variation in reproduction, recruitment and population structure of intertidal mussels with low larval input: a bay/open coast comparison". *Marine Ecology Progress Series*. 2006. 327,193-206.

**Neumann,P**

Dietemann,V, Pflugfelder,J, Hartel,S, Neumann,P and Crewe,RM. "Social parasitism by honeybee workers (*Apis mellifera capensis* Esch): evidence for pheromonal resistance to host queen's signals". *Behavioral Ecology and Sociobiology*. 2006. 60,785-793.

Hartel,S, Neumann,P, Kryger,P, von der Heide,C, Moltzer,GJ, Crewe,RM, van Praagh,P and Mortiz,RFA. "Infestation levels of *Apis mellifera scutellata* swarms by socially parasitic Cape honeybee workers (*Apis mellifera capensis*)". *Apidologie*. 2006. 37,462-470.

Katzerke,A, Neumann,P, Pirk,CWW, Bliss,P and Mortiz,FA. "Seasonal nestmate recognition in the ant *Formica exsecta*". *Behavioral Ecology and Sociobiology*. 2006. 61,143-150.

Scharpenberg,H, Neumann,P, van Praagh,JP and Moritz,RFA. "Reliability of an island mating apiary under routine management". *Journal of Apicultural Research*. 2006. 45(3),153-154.

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.

Spiewok,S and Neumann,P. "Cryptic low-level reproduction of small hive beetles in honey bee colonies". *Journal of Apicultural Research*. 2006. 45(1),47-48.



Spiewok,S and Neumann,P. "The impact of recent queenloss and colony phenotype on the removal of small hive beetle (*Aethina tumida* Murray) eggs and larvae by African Honeybee colonies (*Apis mellifera capensis* Esch.)". *Journal of Insect Behaviour*. 2006. 19(5),601-611.

**Neumann,P and Hepburn,HR**

Buchholz,S, Neumann,P, Merkel,K and Hepburn,HR. "Evaluation of *Bacillus thuringiensis* Berliner as an alternative control of small hive beetles, *Aethina tumida* Murray (Coleoptera: Nitidulidae)". *Journal of Pesticide Science*. 2006. 79,251-254.

Hartel,S, Neumann,P, Raassen,FS, Moritz,RFA and Hepburn,HR. "Social parasitism by Cape honeybee workers in colonies of their own subspecies (*Apis mellifera capensis* Esch)". *Insectes Sociaux*. 2006. 53,183-193.

Neumann,P, Radloff,SE, Moritz,RFA, Hepburn,HR and Reece,SL. "Social parasitism by honeybee workers (*Apis mellifera capensis* Escholtz): host finding and resistance of hybrid host colonies". *Behavioral Ecology*. 2006. 12(4),419-428.

Schafer,MO, Dietemann,V, Pirk,CWW, Neumann,P, Crewe,RM, Hepburn,HR, Tautz,J and Crailsheim,K. "Individual versus social pathway to honeybee worker reproduction (*Apis mellifera*): pollen or jelly as protein source for oogenesis?". *Journal of Comparative Physiology A*. 2006. 192,761-768.

Schluns,EA, Neumann,P, Schluns,H, Hepburn,HR and Moritz,RFA. "Nestmate recognition and genetic variability among individuals from nests of the queenless ponerine ant *Streblognathus aethiopicus* Smith (Hymenoptera: Formicidae)". *African Entomology*. 2006. 14(1),95-102.

Spiewok,S, Neumann,P and Hepburn,HR. "Preparation for disturbance-induced absconding of Cape honeybee colonies (*Apis mellifera capensis* Esch)". *Insectes Sociaux*. 2006. 53,27-31.

**Neumann,P, Hepburn,HR and Hill,MP**

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

**Peinke,DM and Brown,CR**

Peinke,DM and Brown,CR. "Habitat use by the southern springhare (*Pedetes capensis*) in the Eastern Cape Province South Africa". *South African Journal of Wildlife Research*. 2006. 36(2),103-111.

**Porri,F and McQuaid,CD**

Porri,F, McQuaid,CD and Radloff,SE. "Temporal scales of variation in settlement and recruitment of the mussel *Perna perna* (Linnaeus, 1758)". *Journal of Experimental Marine Biology and Ecology*. 2006. 332,178-187.

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**

Simon,CA, Ludford,A and Wynne,S. "Spionid polychaetes infesting cultured *Haliotis midae* in South Africa". *African Journal of Marine Science*. 2006. 28(1),167-171.

**Villet,MH**

da Silva,C and Villet,MH. "Effects of prophylactic progesterone in decomposing tissues on the development of *Chrysomya chloropyga* (Wiedeman) (Diptera: Calliphoridae)". *African Entomology*. 2006. 14(1),199-202.

Naran,D, Skelton,PH and Villet,MH. "Karyology of the redfin minnows genus *Pseudobarbus* Smith 1841 (Teleostei: Cyprinidae): one of the evolutionarily tetraploid lineages of South African barbines". *African Zoology*. 2006. 41(2),178-182.

Villet,MH, MacKenzie,B and Muller,WJ. "Larval development of the carrion-breeding flesh fly *Sarcophaga* (*Liosarcophaga*) *tibialis* Macquart (Diptera: Sarcophagidae) at constant temperatures". *African Entomology*. 2006. 14(2),357-366.

Wilkins,KJ, Harman,K and Villet,MH. "Recruitment behaviour in the ponerine ant *Plectroctena mandibularis* F Smith (Hymenoptera: Formicidae)". *African Entomology*. 2006. 14(2),367-372.

Williams,KA and Villet,MH. "A new and earlier record of *Chrysomya megacephal* in South Africa with notes on another exotic species *Calliphora vicina* (Diptera: Calliphoridae)". *African Invertebrates*. 2006. 47,347-350.

Williams,KA and Villet,MH. "A history of southern African research relevant to forensic entomology". *South African Journal of Science*. 2006. 102,59-65.

**Zardi,GI, McQuaid,CD and Porri,F**

Zardi,GI, Nicastro,KR, McQuaid,CD, Rius,M 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**

Zardi,GI, Nicastro,KR, 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 and Bernard,RTF. "Hunting behaviour of a group of re-introduced cheetahs on Kwandwe Private Game Reserve, Eastern Cape Province". Roche, C (eds) *Ecological Journal*. Conservation Corporation Africa. Nelspruit. 2006.

Roux,C and Bernard,RTF. "Space use and habitat selection of elephants in Kwandwe Private Game Reserve, Eastern Cape Province". Roche, C (eds) *Ecological Journal*. Conservation Corporation Africa. Nelspruit. 2006.

**Bissett,C**

Bissett,C. "Undercover operators". Gracie, E (eds) *African Geographic*. Blackeagle publishers. 2006. 14(2), 22-29.

**Craig,AJF**

Craig,AJF. "Obituary CJ Skead". Gracie, E (eds) *African Birds & Birding*. Blackeagle Publishers. Cape Town. 2006. 11(4), 17.

Craig,AJF. "Goliath Herons on the Eastern Cape coast". Barkhuysen, A (eds) *Bee-eater*. Birdlife Eastern Cape. 2006. 57(2), 36-37.

Craig,AJF. "Starlings at the nest elsewhere". Hulley, P (eds) *Diaz Diary*. Diaz Cross Bird Club. 2006. 34(1), 12.

Craig,AJF. "Jack Skead Obituary". Hulley, P (eds) *Diaz Diary*. Diaz Cross Bird Club. 2006. 34(2), 2-3.

*Craig,AJF.* "Song in the Common Starling - the French connection". Hulley, P (eds) Diaz Diary. Diaz Cross Bird Club. 2006. 34(2), 29-30.

*Craig,AJF.* "Starling moult". Hulley, P (eds) Diaz Diary. Diaz Cross Bird Club. 2006. 34(3), 6-7.

*Craig,AJF.* "Red-winged Starlings with different timetables". Hulley, P (eds) Diaz Diary. Diaz Cross Bird Club. 2006. 34(4), 15-16.

*Craig,AJF.* "White feathers and plumage changes". Hulley, P (eds) Diaz Diary. Diaz Cross Bird Club. 2006. 34(4), 17.

*Craig,AJF.* "A tribute to Jack Skead". Rhodes. Rhodes University. Grahamstown. 2006. 18(5), 7.

#### **Downie,DA**

*Downie,DA.* "Not in my garden". Van Eerden, E (eds) Encephalartos. Cycad society of southern Africa. 2006. 86, 20-21.

*Downie,DA.* "Grape phylloxera and the grapevine: searching for the science". Roberts, J (eds) Journal of Experimental Botany. Society of Experimental Biology. 2006. 56, 3029-3031.

#### **Froneman,PW**

*Froneman,PW.* "Scientific evidence for the impact of global climate change in Antarctica". Limson, J (eds) Science in Africa. Published online. 2006. June.

*Vorwerk,P and Froneman,PW.* "Where river meets ocean". Lickindorf, E (eds) Quest. Academy of Science South Africa. 2006. 4, 21-23.

#### **Simon,CA**

*Simon,CA.* "Polychaetes that infest cultured perlemoen - they're not just boring worms". Limson, J (eds) Science in Africa. 2006. February.

#### **Villet,MH**

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

*Villet,MH.* "Review: A guide to the termites of southern Africa". African Entomology. Entomological Society southern Africa. 2006. October.

*Villet,MH.* "A Guide to the Termites of Southern Africa". Plant Protection Research Institute handbook No 15. Pretoria. 2006. 1-116.

*Villet,MH.* "How to collect and preserve insects and arachnids". Uys,VM and Urban, RP (eds) Plant Protection Research Institute Handbook No 7. Pretoria. 2006. 2nd Edition, 1-112.

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

*Villet,MH and Muller,WJ.* "The six-legged flying squad". Lickindorf, E (eds) Quest. Academy of Science South Africa. 2006. 2(4), 24-27.

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

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

**Bernard,RTF**

*Beck,S, Palmer,J, du Preez,B and Bernard,RTF.* "The effect of age and body size on the feeding ecology of giraffe". *Annual Conference of the South African Wildlife Management Association*. Loskopdam, September 2006.

*Parker,DM and Bernard,RTF.* "Elephants and landscape functioning in grassland habitats". *Annual Conference of the South African Wildlife Management Association*. Loskopdam, September 2006.

*Whittington-Jones,GM and Bernard,RTF.* "The aarvark - irritant or ecosystem engineer?". *Annual Conference of the South African Wildlife Management Association*. Loskopdam, September 2006.

**Villet,MH**

*Price,BW, Villet,MH and Barker,NP.* "Molecular phylogeny of the *Platypleura stridula* L species complex (Hemiptera: Cicadidae)". *6th Conference of the Southern African Society for Systematic Biology*. Berg en Dal Camp, Skukuza Kruger National Park. July 2006. 44.

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

**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**

*Downie,DA.* "Molecular systematics in amorphocerine weevils on *Encephalartos*". *Evolution 2006: Joint Meeting of the Society for the Study of Evolution, American Society of Naturalists, and Society of Systematic Biologists*. State University of New York, Stony Brook New York. United States of America. June 2006.

**Hill,MP**

*Walter,C, Tomasicchio,M, Hodgson,V, Hendry,D, Hill,MP and Dorrington,RA.* "Isolation and characterization of tetraviruses from a wild population of *Nudaurelia capensis*". *FASEB Summer Conference on Virus Assembly*. Vermont Academy, Saxton's River, Vermont. USA. June 2006. 178.

**Hodgson,AN and Villet,MH**

*Chawanji,AS, Hodgson,AN and Villet,MH.* "Spermatogenesis in three species of cicadas (Hemiptera: Cicadomorpha: Cicadidae)". *Microscience*. ExCeL, London. United Kingdom. June 2006. 53.

**McQuaid,CD**

*McQuaid,CD.* "Pattern and process in the interactions between invasive and indigenous mussels: from small to large scales". *Triennial meeting Malacological Society of Australasia*. University of Wollongong, Wollongong. Australia. December 2006.

Diaz,ER and McQuaid,CD. "Spatial and temporal variation in the effects of mesograzers depends on the taxonomic level of analysis". *7th International Temperate Reef Symposium*. University of California, Santa Barbara. United States of America. June 2006. 31.

McQuaid,CD and Lawrie,S. "Uncertainty and mussel recruitment: does residual variability threaten our understanding of intertidal ecosystems?". *7th International Temperate Reef Symposium*. University of California, Santa Barbara. United States of America. June 2006. 45.

Teske,PR, Papdopoulos,I, Newman,B, McQuaid,CD and Barker,NP. "Cryptic speciation along the southern African coast have we underestimated marine biodiversity?". *SASSAQ/PSA Joint Conference*. Maputo. Mozambique. June 2006.

**McQuaid,CD, Zardi,GI and Teske,PR**

McQuaid,CD, Zardi,GI, Teske,PR and Barker,NP. "Adaptive genetic diversity in the intertidal mussel *Perna perna* on the Southern African coast". *41st European Marine Biological Symposium*. University College Cork, Cork. Ireland. September 2006. 31.

**Neumann,P**

Spiewok,S, Radloff,SE and Neumann,P. "Forensics of abandoned honeybee nests: Reproduction of small hive beetles (*Aethina tumida*) and greater wax moths (*Galleria mellonella*)". *2nd European Conference of Apidology EurBee*. Bee Research Institute Dol, Prague. Czech Republic. September 2006.

**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**

Richoux,NB and Froneman,PW. "Spatial variation of carbon utilization by benthic and pelagic invertebrates in a temperate South African estuary using carbon and nitrogen stable isotope signatures". *Joint Conference of the South African Society of Aquatic Scientists and the Phycological Society of Southern Africa*. Pestana Ravuma Hotel, Maputo. Mozambique. June 2006.

**Villet,MH**

Hoelmer,K, Kirk,AA, Pickett,C, Mkize,N and Villet,MH. "Ecology of the olive fruit fly *Bactrocera oleae* and its parasitoids in wild olives in Southern Africa". *Annual Conference of the Entomological Society of America Annual*. Indiana Convention Centre & RCA Dome, Indianapolis. United States of America. December 2006.

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

**Craig,AJFK**

Craig,AJFK. Performer. "*Dawn chorus*". SABC 2 50/50. Grahamstown. 5 February 2006.

Craig,AJFK. Performer. "*Neushoringvoel*". SABC 2 50/50. Grahamstown. 2 April 2006.

Craig,AJFK. Performer. "*Bird navigation*". SABC 2 50/50. Grahamstown. 30 April 2006.

Craig,AJFK. Performer. "*Suikerbekkies*". SABC 2 50/50. Grahamstown. 11 June 2006.

**Villet,MH**

Villet,MH. Performer. "*Fleas*". SABC 2 50/50. Grahamstown. 5 February 2006.

Villet,MH. Performer. "*Kakkerlakke*". SABC 2 50/50. Grahamstown. 19 March 2006.

Villet,MH. Performer. "*Stinkbug*". SABC 2 50/50. Grahamstown. 16 April 2006.

Villet,MH. Performer. "Spider attacks". SABC 2 50/50. Grahamstown. 28 May 2006.

Villet,MH. Performer. "Flies". SABC 2 50/50. Grahamstown. 11 June 2006.

## OVERSEAS RESEARCH OR FURTHER STUDY

### Craig,AJFK

Craig,AJFK. Koninklijk Museum voor Midden-Afrika, Tervuren, Belgium. Examination of specimens of Ploceidae for monograph in preparation. 1 - 31 July 2006.

Craig,AJFK. Forschungsinstitut Senckenberg, Frankfurt, Germany. Examination of specimens of Ploceidae for monograph in preparation. 1 - 7 August 2006.

Craig,AJFK. Staatliches Museum fur Naturkunde, Stuttgart, Germany. Examination of specimens of Ploceidae for monograph in preparation. 8 - 15 August 2006.

Craig,AJFK. Museum fur Naturkunde der Humboldt-Universitat, Berlin, Germany. Examination of specimens of Ploceidae for monograph in preparation. 16 - 23 August 2006.

## JOURNAL SUBSIDY UNITS

ZOOLOGY AND ENTOMOLOGY	UNITS
<b>Bernard,RTF</b>	
Bernard,RTF and Parker,DM. "The use of archaeological and ethnographical information to supplement the historical record of the distribution of large mammalian herbivores in South Africa". <i>South African Journal of Science</i> . 2006. 102,117-119.	1.00
Jackson,C and Bernard,RTF. "Variation in the timing of reproduction of the four-striped field mouse, <i>Rhabdomys pumilio</i> , in the Eastern Cape Province, South Africa". <i>African Zoology</i> . 2006. 41(2),301-304.	1.00
Parker,DM and Bernard,RTF. "A comparison of two diet analysis techniques for a browsing Megaherbivore". <i>Journal of Wildlife Management</i> . 2006. 70(5),1477-1480.	1.00
Plon,S and Bernard,RTF. "A review of spermatozoan morphology in Cetacea with new data for the genus <i>Kogia</i> ". <i>Journal of Zoology</i> . 2006. 269,466-473.	0.50
<b>de Moore,FC</b>	
Rivers-Moore,NA, de Moore,FC, Birkholz,SA and Palmer,TG. "Estimation of preferred water flow parameters for four species of <i>Simulium</i> (Diptera: Simuliidae) in small clear streams in South Africa". <i>African Journal of Aquatic Science</i> . 2006. 31(2),261-269.	0.25
<b>Erlandson,J and McQuaid,CD</b>	
Erlandson,J, Pal,P and McQuaid,CD. "Re-colonisation rate differs between co-existing indigenous and invasive intertidal mussels following major disturbance". <i>Marine Ecology Progress Series</i> . 2006. 320,169-176.	1.00
<b>Erlandsson,J</b>	
Pal,P, Erlandsson,J and Skold,M. "Size-assortative mating and non-reciprocal copulation in a hermaphroditic intertidal limpet: test of the mate availability hypothesis". <i>Marine Biology</i> . 2006. 148,1273-1282.	0.67
<b>Froneman,PW</b>	
Froneman,PW. "Population demographics of <i>Palaemon peringueyi</i> (Macpherson 1990) (Decapoda: Palaemonidae) in a small intermittently open Eastern Cape estuary". <i>African Journal of Aquatic Science</i> . 2006. 31(2),197-203.	1.00
Froneman,PW. "The importance of phytoplankton size in mediating trophic interactions within the plankton of a southern African estuary". <i>Estuarine Coastal and Shelf Science</i> . 2006. 70,693-700.	1.00
Bernard,ATF and Froneman,PW. "Euphausiid population structure and grazing in the Antarctic	1.00

Polar Frontal Zone - austral autumn 2004". <i>African Journal of Marine Science</i> . 2006. 28(3 & 4),569-579.	
Lukey, JR, Booth, AJ and Froneman, PW. "Fish population size and movement patterns in a small intermittently open South African estuary". <i>Estuarine Coastal and Shelf Science</i> . 2006. 67,10-20.	0.67
<b>Froneman, PW and Hodgson, AN</b>	
Allan, EL, Froneman, PW and Hodgson, AN. "Effects of temperature and salinity on the standard metabolic rate (SMR) of the caridean shrimp <i>Palaemon peringueyi</i> ". <i>Journal of Experimental Marine Biology and Ecology</i> . 2006. 337,103-108.	1.00
<b>Hepburn, HR</b>	
Addi, A, Phillipson, P and Hepburn, HR. "Floral resources of <i>Apis mellifera capensis</i> in the fynbos biome in the Eastern Cape Province, South Africa". <i>African Entomology</i> . 2006. 14(1),153-159.	0.34
Ellis, JD and Hepburn, HR. "An ecological digest of the small hive beetle ( <i>Aethina tumida</i> ) a symbiont in honey bee colonies ( <i>Apis mellifera</i> )". <i>Insectes Sociaux</i> . 2006. 53,8-19.	0.50
Hepburn, HR and Hepburn, C. "Bibliography of <i>Apis cerana</i> Fabricius (1793)". <i>Apidologie</i> . 2006. 37(6),651-652.	0.50
Hepburn, HR and Radloff, SE. "Morphological variation in the pollen collecting apparatus of honeybees". <i>Journal of Apicultural Research</i> . 2006. 45(1),25-26.	0.50
Wossler, TC, Jones, GE, Allsopp, MH and Hepburn, HR. "Virgin Queen Mandibular Gland Signals of <i>Apis mellifera capensis</i> Change with Age and Affect Honeybee Worker Responses". <i>Journal of Chemical Ecology</i> . 2006. 32(5),1043-1056.	0.50
<b>Hepburn, HR and Neumann, P</b>	
Tan, K, Hepburn, HR, He, S, Radloff, SE, Neumann, P and Fang, X. "Gigantism in honeybees: <i>Apis cerana</i> queens reared in mixed-species colonies". <i>Naturwissenschaften</i> . 2006. 93,315-320.	0.34
<b>Hill, MP</b>	
Ripley, BS, Muller, E, Behenna, M, Whittington-Jones, GM and Hill, MP. "Biomass and photosynthetic productivity of water hyacinth ( <i>Eichhornia crassipes</i> ) as affected by nutrient supply and mirid ( <i>Eccritotarus catarinensis</i> ) biocontrol". <i>Biological Control</i> . 2006. 39,392-400.	0.40
<b>Hill, MP and Villet, MH</b>	
Midgley, JM, Hill, MP and Villet, MH. "The effect of water hyacinth <i>Eichhornia crassipes</i> (Martius) Solms-Laubach (Pontederiaceae) on benthic biodiversity in two impoundments on the New Year's River South Africa". <i>African Journal of Aquatic Science</i> . 2006. 31(1),25-30.	1.00
<b>Hodgson, AN</b>	
Jamieson, BGM, Hodgson, AN and Spottiswoode, CN. "Ultrastructure of the spermatozoon of <i>Myrmecocichla formicivora</i> (Vieillot 1881) and <i>Philetairus socius</i> (Latham 1790) (Aves Passeriformes) with new interpretation of the passeridan acrosome". <i>Acta Zoologica</i> . 2006. 87,297-304.	0.34
<b>Hodgson, AN and Villet, MH</b>	
Chawanji, AS, Hodgson, AN and Villet, MH. "Sperm morphology in five species of cicadettine cicadas (Hemiptera: Cicadomorpha: Cicadidae)". <i>Tissue and Cell</i> . 2006. 38,373-388.	1.00
<b>Kaehler, S</b>	
Jacob, U, Brey, T, Fetzer, I, Kaehler, S, Mintenbeck, K, Dunton, K, Beyer, K, Struck, U, Pakhomov, EA and Arntz, WE. "Towards the trophic structure of the Bouvet Island marine ecosystem". <i>Polar Biology</i> . 2006. 29,106-113.	0.10
Kaehler, S, Pakhomov, EA, Kalin, RM and Davis, S. "Trophic importance of kelp-derived suspended particulate matter in a through-flow sub-Antarctic system". <i>Marine Ecology Progress Series</i> . 2006. 316,17-22.	0.25
Pakhomov, EA, Bushula, T, Kaehler, S, Watkins, BP and Leslie, RW. "Structure and distribution of the slope fish community in the vicinity of the sub-Antarctic Prince Edward Archipelago". <i>Journal of Fish Biology</i> . 2006. 68,1834-1866.	0.20
Proudfoot, L, Kaehler, S, McGarry, DK, Uppink, PA, Aereboe, M and Morris, KM. "Exploitation status of infralittoral abalone ( <i>Haliotis midae</i> ) and alikreukel ( <i>Turbo sarmaticus</i> ) in the southern section of the Eastern Cape Coast South Africa". <i>South African Journal of Science</i> . 2006. 102,162-167.	1.00
<b>Kaehler, S and McQuaid, CD</b>	

Rius,M, Kaehler,S and McQuaid,CD. "The relationship between human exploitation pressure and condition of mussel populations along the south coast of South Africa". <i>South African Journal of Science</i> . 2006. 102,130-136.	1.00
<b>McQuaid,CD</b>	
Bownes,SJ and McQuaid,CD. "Will the invasive mussel <i>Mytilus galloprovincialis</i> Lamarck replace the indigenous <i>Perna perna</i> L on the south coast of South Africa?". <i>Journal of Experimental Marine Biology and Ecology</i> . 2006. 338,140-151.	1.00
Diaz,ER, Guldenzoph,C, Molis,M, McQuaid,CD and Wahl,M. "Variability in grazer-mediated defensive responses of green and red macroalgae on the south coast of South Africa". <i>Marine Biology</i> . 2006. 149,1301-1311.	0.40
Rius,M and McQuaid,CD. "Wave action and competitive interaction between invasive mussel <i>Mytilus galloprovincialis</i> and the indigenous <i>Perna perna</i> in South Africa". <i>Marine Biology</i> . 2006. 150,69-78.	1.00
<b>McQuaid,CD and Froneman,PW</b>	
Teske,PR, McQuaid,CD, Froneman,PW and Barker,NP. "Impacts of marine biogeographic boundaries on phylogeographic patterns of three South African estuarine crustaceans". <i>Marine Ecology Progress Series</i> . 2006. 314,283-293.	0.62
<b>McQuaid,CD and Kaehler,S</b>	
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". <i>Marine Ecology Progress Series</i> . 2006. 318,63-73.	1.00
<b>McQuaid,CD and Phillips,TE</b>	
McQuaid,CD and Phillips,TE. "Mesoscale variation in reproduction, recruitment and population structure of intertidal mussels with low larval input: a bay/open coast comparison". <i>Marine Ecology Progress Series</i> . 2006. 327,193-206.	1.00
<b>Neumann,P</b>	
Dietemann,V, Pflugfelder,J, Hartel,S, Neumann,P and Crewe,RM. "Social parasitism by honeybee workers ( <i>Apis mellifera capensis</i> Esch): evidence for pheromonal resistance to host queen's signals". <i>Behavioral Ecology and Sociobiology</i> . 2006. 60,785-793.	0.20
Hartel,S, Neumann,P, Kryger,P, von der Heide,C, Moltzer,GJ, Crewe,RM, van Praagh,P and Mortiz,RFA. "Infestation levels of <i>Apis mellifera scutellata</i> swarms by socially parasitic Cape honeybee workers ( <i>Apis mellifera capensis</i> )". <i>Apidologie</i> . 2006. 37,462-470.	0.13
Katzerke,A, Neumann,P, Pirk,CWW, Bliss,P and Mortiz,FA. "Seasonal nestmate recognition in the ant <i>Formica exsecta</i> ". <i>Behavioral Ecology and Sociobiology</i> . 2006. 61,143-150.	0.20
Scharpenberg,H, Neumann,P, van Praagh,JP and Moritz,RFA. "Reliability of an island mating apiary under routine management". <i>Journal of Apicultural Research</i> . 2006. 45(3),153-154.	0.25
Spiewok,S and Neumann,P. "Infestation of commercial bumblebee ( <i>Bombus impatiens</i> ) field colonies by small hive beetles ( <i>Aethina tumida</i> )". <i>Ecological Entomology</i> . 2006. 31,623-628.	0.50
Spiewok,S and Neumann,P. "Cryptic low-level reproduction of small hive beetles in honey bee colonies". <i>Journal of Apicultural Research</i> . 2006. 45(1),47-48.	0.50
Spiewok,S and Neumann,P. "The impact of recent queenloss and colony phenotype on the removal of small hive beetle ( <i>Aethina tumida</i> Murray) eggs and larvae by African Honeybee colonies ( <i>Apis mellifera capensis</i> Esch.)". <i>Journal of Insect Behaviour</i> . 2006. 19(5),601-611.	0.50
<b>Neumann,P and Hepburn,HR</b>	
Buchholz,S, Neumann,P, Merkel,K and Hepburn,HR. "Evaluation of <i>Bacillus thuringiensis</i> Berliner as an alternative control of small hive beetles, <i>Aethina tumida</i> Murray (Coleoptera: Nitidulidae)". <i>Journal of Pesticide Science</i> . 2006. 79,251-254.	0.50
Hartel,S, Neumann,P, Raassen,FS, Moritz,RFA and Hepburn,HR. "Social parasitism by Cape honeybee workers in colonies of their own subspecies ( <i>Apis mellifera capensis</i> Esch)". <i>Insectes Sociaux</i> . 2006. 53,183-193.	0.40
Neumann,P, Radloff,SE, Mortiz,RFA, Hepburn,HR and Reece,SL. "Social parasitism by honeybee workers ( <i>Apis mellifera capensis</i> Escholtz): host finding and resistance of hybrid host colonies". <i>Behavioral Ecology</i> . 2006. 12(4),419-428.	0.60
Schafer,MO, Dietemann,V, Pirk,CWW, Neumann,P, Crewe,RM, Hepburn,HR, Tautz,J and Crailsheim,K. "Individual versus social pathway to honeybee worker reproduction ( <i>Apis</i>	0.25



<i>mellifera</i> ): pollen or jelly as protein source for oogenesis?". <i>Journal of Comparative Physiology</i> A. 2006. 192,761-768.	
Schluns,EA, Neumann,P, Schluns,H, Hepburn,HR and Mortiz,RFA. "Nestmate recognition and genetic variability among individuals from nests of the queenless ponerine ant <i>Streblognathus aethiopicus</i> Smith (Hymenoptera: Formicidae)". <i>African Entomology</i> . 2006. 14(1),95-102.	0.40
Spiewok,S, Neumann,P and Hepburn,HR. "Preparation for disturbance-induced absconding of Cape honeybee colonies ( <i>Apis mellifera capensis</i> Esch)". <i>Insectes Sociaux</i> . 2006. 53,27-31.	0.67
<b>Neumann,P, Hepburn,HR and Hill,MP</b>	
Muerrle,TM, Neumann,P, Dames,JF, Hepburn,HR and Hill,MP. "Susceptibility of adult <i>Aethinia tunida</i> (Coleoptera:Nitidulidae) to entomopathogenic fungi". <i>Journal of Economic Entomology</i> . 2006. 99(1),1-6.	0.80
<b>Peinke,DM and Brown,CR</b>	
Peinke,DM and Brown,CR. "Habitat use by the southern springhare ( <i>Pedetes capensis</i> ) in the Eastern Cape Province South Africa". <i>South African Journal of Wildlife Research</i> . 2006. 36(2),103-111.	1.00
<b>Porri,F and McQuaid,CD</b>	
Porri,F, McQuaid,CD and Radloff,SE. "Temporal scales of variation in settlement and recruitment of the mussel <i>Perna perna</i> (Linnaeus, 1758)". <i>Journal of Experimental Marine Biology and Ecology</i> . 2006. 332,178-187.	0.67
Porri,F, McQuaid,CD and Radloff,SE. "Spatio-temporal variability of larval abundance and settlement of <i>Perna perna</i> : differential delivery of mussels". <i>Marine Ecology Progress Series</i> . 2006. 315,141-150.	0.67
<b>Simon,CA</b>	
Simon,CA, Ludford,A and Wynne,S. "Spionid polychaetes infesting cultured <i>Haliotis midae</i> in South Africa". <i>African Journal of Marine Science</i> . 2006. 28(1),167-171.	1.00
<b>Villet,MH</b>	
da Silva,C and Villet,MH. "Effects of prophylactic progesterone in decomposing tissues on the development of <i>Chrysomya chloropyga</i> (Wiedeman) (Diptera: Calliphoridae)". <i>African Entomology</i> . 2006. 14(1),199-202.	1.00
Naran,D, Skelton,PH and Villet,MH. "Karyology of the redfin minnows genus <i>Pseudobarbus</i> Smith 1841 (Teleostei: Cyprinidae): one of the evolutionarily tetraploid lineages of South African barbines". <i>African Zoology</i> . 2006. 41(2),178-182.	0.34
Villet,MH, MacKenzie,B and Muller,WJ. "Larval development of the carrion-breeding flesh fly <i>Sarcophaga (Liosarcophaga) tibialis</i> Macquart (Diptera: Sarcophagidae) at constant temperatures". <i>African Entomology</i> . 2006. 14(2),357-366.	0.67
Wilkins,KJ, Harman,K and Villet,MH. "Recruitment behaviour in the ponerine ant <i>Plectroctena mandibularis</i> F Smith (Hymenoptera: Formicidae)". <i>African Entomology</i> . 2006. 14(2),367-372.	1.00
Williams,KA and Villet,MH. "A new and earlier record of <i>Chrysomya megacephal</i> in South Africa with notes on another exotic species <i>Calliphora vicina</i> (Diptera: Calliphoridae)". <i>African Invertebrates</i> . 2006. 47,347-350.	0.50
Williams,KA and Villet,MH. "A history of southern African research relevant to forensic entomology". <i>South African Journal of Science</i> . 2006. 102,59-65.	1.00
<b>Zardi,GI, McQuaid,CD and Porri,F</b>	
Zardi,GI, Nicastro,KR, McQuaid,CD, Rius,M and Porri,F. "Hydrodynamic stress and habitat partitioning between indigenous ( <i>Perna perna</i> ) and invasive ( <i>Mytilus galloprovincialis</i> ) mussels: constraints of an evolutionary strategy". <i>Marine Biology</i> . 2006. 150,79-88.	1.00
<b>Zardi,GI, Porri,F and CD McQuaid,CD</b>	
Zardi,GI, Nicastro,KR, Porri,F and CD McQuaid,CD. "Sand stress as a non-determinant habitat segregation of indigenous ( <i>Perna perna</i> ) and invasive ( <i>Mytilus galloprovincialis</i> ) mussels in South Africa". <i>Marine Biology</i> . 2006. 148,1031-1038.	1.00
<b>TOTAL FOR ZOOLOGY AND ENTOMOLOGY</b>	<b>38.83</b>

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

<b>ZOOLOGY AND ENTOMOLOGY</b>			
<b>STUDENT</b>	<b>SUPERVISOR/S</b>	<b>M/D</b>	<b>UNITS</b>
Bernard	Froneman	M	1.00
Heystek	Hill	M	1.00
Jennings	Froneman	M	1.00
Lange	Froneman/McQuaid	M	1.00
Lukac	Froneman/McQuaid	M	1.00
Moore	Hill	M	1.00
Norton	Froneman/Downie	M	1.00
Roux	Bernard	M	1.00
v der Westhuizen	Hill	M	1.00
Zardi	McQuaid	D	3.00
<b>TOTAL</b>			<b>12.00</b>