

CONTENTS

PREFACE	2
INTRODUCTION	3
RESEARCH HIGHLIGHTS	4
ACADEMIC DEVELOPMENT CENTRE (GRAHAMSTOWN)	6
ACADEMIC DEVELOPMENT CENTRE (EAST LONDON)	7
ACCOUNTING	8
ANTHROPOLOGY	10
BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY	13
BOTANY	19
CHEMISTRY	25
COMPUTER SCIENCE	32
DRAMA	36
ECONOMICS AND ECONOMIC HISTORY	41
EDUCATION (GRAHAMSTOWN)	44
EDUCATION (EAST LONDON)	49
ELECTRON MICROSCOPY UNIT	50
ENGLISH	51
ENGLISH LANGUAGE AND LINGUISTICS	53
ENVIRONMENTAL SCIENCE	55
FINE ART	59
GEOGRAPHY	63
GEOLOGY	67
HISTORY	70
HUMAN KINETICS AND ERGONOMICS	72
ICHTHYOLOGY AND FISHERIES SCIENCE	74
INFORMATION SYSTEMS (GRAHAMSTOWN)	79
INFORMATION SYSTEMS (EAST LONDON)	81
INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH	82
INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA	85
INSTITUTE FOR WATER RESEARCH	90
INTERNATIONAL CHAIR IN ENTREPRENEURSHIP	96
INVESTEC BUSINESS SCHOOL	97
JOURNALISM AND MEDIA STUDIES	98
LAW	105
MANAGEMENT	109
MATHEMATICS	112
MUSIC AND MUSICOLOGY	114
NON ACADEMIC DEPARTMENT	118
PHARMACY	119
PHILOSOPHY	125
PHYSICS AND ELECTRONICS	128
POLITICAL AND INTERNATIONAL STUDIES	131
PSYCHOLOGY (GRAHAMSTOWN)	134
PSYCHOLOGY (EAST LONDON)	138
RU MATHEMATICS EDUCATION PROJECT	140
SCHOOL OF LANGUAGES	141
SOCIAL DEVELOPMENT (EAST LONDON)	143
SOCIOLOGY AND INDUSTRIAL SOCIOLOGY	144
STATISTICS	148
ZOOLOGY AND ENTOMOLOGY	150

PREFACE

The core business of a university is teaching and research and Rhodes has excelled in both. Our success in research is also exemplified by the graduation in April of 39 PhD and 111 Masters students. Postgraduate throughput together with research outputs will play a crucial role in the new funding formula for determining Government subsidy to Institutions.

In assessing the research output of universities it is important, for comparative purposes, that this is done in relation to the size of an institution. Currently this research output, per size or per capita, is calculated by dividing the research publication output by either the audited FTE's (i.e. number of students) or the state subsidy, which is largely based on the size of the university. These calculations show that Rhodes has had the best research output per capita for the previous four years.

I would like to congratulate the members of staff and postgraduates, particularly in those Departments that are consistently increasing or maintaining their research output, for their contribution to the research effort of the university. I am aware that the research contributions mentioned in this report have been made amidst many demands such as increased student numbers and a very competitive funding environment, to name a few.

DR. D.R. WOODS
VICE-CHANCELLOR

INTRODUCTION

As a result of positive feedback received this year we have maintained the layout and format of the first formal research report published in 2002. Please note that each Department's/Faculty's highlights section are as provided by the Head of Department as are the research outputs produced. The table of provisional subsidy units earned by each Department/Faculty have been included as there is often a misconception that one journal article equates to one subsidy unit. This is the case if all the authors are from Rhodes University but where articles are jointly published, a pro-rata share is calculated. Likewise due to the complex funding formula used by the Department of Education, the total research outputs produced do not equate directly to the subsidisable units. Please note that "in press" articles in 2002 but published in 2003 have already been claimed in 2002 and hence do not appear in the table but are recorded in the report. Articles that have been submitted for possible publication have not been included in the table nor the report as it is not possible to prove if the articles had been accepted for publication by the time our submission to the Department of Education was audited. Also please note that subsidy units earned for book/chapter/patent/conference proceedings publications are not included in the subsidy unit tables since we receive no feedback from the Department of Education in terms of which books/chapters/patents/proceedings are finally accepted for subsidy purposes each year. Only a small fraction of such books, chapters, patents and proceedings which are submitted actually receive subsidy.

I would like to stress the need to publish in subsidy earning journals and to submit accurate information so that the University can claim as many units as possible. The total audited (but not yet awarded) publication subsidy units for journal articles which have been submitted to the Department of Education for 2003 is 180.56 units. This is some 26.08 units down on our 2002 submission and is of concern. Of this figure, publications in current non-subsidy earning journals in 2003 amounted to 5.5 units. These have been forwarded to the Department of Education for consideration for subsidy purposes.

Despite the decrease in publication outputs in 2003, postgraduate student graduation, particularly PhD's, was encouragingly high in 2003 and in general it was once again a highly successful year for research at Rhodes. I would therefore like to add my congratulations to that of the Vice-Chancellor to all staff and postgraduate students for their research efforts in 2003.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH

RESEARCH HIGHLIGHTS

Research and postgraduate studies at Rhodes University continue to go from strength to strength and details of the various research successes and awards, including the Vice-Chancellor's Distinguished Research Awards, are highlighted below.

Comparisons by the Department of Education and other analysts continue to show that we are one of South Africa's most productive universities and the leading research institution in the Eastern Cape. Maintaining and improving the University's research outputs is going to be critical in future in terms of the new funding formula for calculating the Department of Education's subsidy which is to be introduced in 2004. Research outputs will be measured as recognized (peer reviewed) research outputs as well as graduated research Master's and Doctoral students. While the financial value of such outputs is not yet finalized it is likely to be a significant proportion of the University's subsidy.

The research contributions by the staff have been made amidst many demands such as increased student numbers, a very competitive funding environment and Institutional restructuring. I would therefore like to congratulate the members of staff and postgraduates who contribute to the research effort of the University.

The main tasks of a University are teaching, research and community service and I am pleased to report that Rhodes University researchers and postgraduate have excelled with their research achievements during 2003. The most notable have been:

- The recipients of the Vice Chancellor Awards for Research and books were: Distinguished Senior Research Award: Professor Tebello Nyokong (Chemistry), Distinguished Research Award: Professor Tony Booth (Ichthyology and Fisheries Science) and the Book Award: Professor Paul Maylam (History) for his book entitled *South Africa's Racial Past – the history and historiography of racism, segregation, and apartheid*
- Mr. Leslie Bank (ISER, Rhodes East London) received the African Studies Visiting Research Fellowship at Cambridge University and the Harry Oppenheimer Research Fellowship at Oxford University.
- The Rhodes University Centre for Distributed Multimedia, headed by Professor Peter Clayton (Computer Science) was named the top performing research group under the NRF's Centres of Excellence (CoE) in Information and Communication Technology (ICT) programme. It is the first time that an award of this nature has been made.
- Professor Clayton (Computer Science), was also awarded the prestigious National Science and Technology Award in the category "an individual through activities other than Research and Innovation over the last two years." This award was for his contribution to capacity building and the public understanding of Science and Technology through the growth of his own research group in the Information and Communication Technology field.
- In the same Forum, Dr Winston Leukes (Biochemistry, Microbiology and Biotechnology) was runner up in the category "an individual through Research and Innovation over the last two years" and a former Rhodes graduate, Dr. Jocelyn Webster, Africabio, received the award for the category "a not-for-profit organisation over the last three years."
- Professor Michael Brown (Chemistry) was selected as a Fellow of the North American Thermal Analysis Society in "recognition of his distinguished scientific achievements as well as outstanding scholarship in the field of thermal analysis."
- The introduction by the National Research Foundation of a rating system for all researchers (previously only for those in the Natural Sciences) has resulted to date in all Rhodes staff in the Humanities and Social Sciences who applied for a rating being successful.
- Professor Justin Jonas (Physics) who has a joint appointment as Director to the Hartebeesthoek Radio Astronomy Observatory for two years and was appointed by the Department of Science and Technology to lead the South African bid to be the site for the International Square Kilometer Array (SKA) project.
- Professor Christopher Stones (Psychology) was invited to be the Editor-in-Chief of the Indo Pacific Journal of Phenomenology and Professor Hennie van der Mescht (Education) as Executive Secretary (www.ipjp.org).
- Dr Julia Wells (History) was appointed on the National Heritage Council for three years.

- Eusebius McKaiser and Nicholas Ferreira (both of Philosophy) who were both selected to receive the prestigious Rhodes Scholarship.
- Ms. Rebecca Hodes (History) was the recipient of the prestigious Patrick and Margaret Flanagan Scholarship.
- Ms. Helen Hackley (English) was the recipient of the Abe Bailey Travel Bursary.

The University is actively promoting innovation and entrepreneurship in its research activities and to this end is establishing a small incubator to support start-up companies. One of the first spin-out companies from the University, which the University has retained a financial involvement in, is the Makana Meadery which has now obtained a license for full scale production of its various honey based meads.

Rhodes researchers and departments continued to receive significant funding from a wide variety of sources for research programmes including in excess of R12 million from National Funding Councils and over R20 million from private and industry sources. In addition, the newly established Environmental Biotechnology Research Unit has recently been awarded grants to the value of R15 million over the next three years for its environmental water treatment activities.

Funding for postgraduate students at all levels has been significantly enhanced by several new scholarship schemes funded by Sasol, Atlantic Philanthropies and the Andrew Mellon Foundation. As a result the University from its own funding schemes has been able to award a number of prestigious scholarships to Honours, Master's, Doctoral and Postdoctoral students to a total value of approximately R4 million.

A Postgraduate (PG) Liaison Committee has been formalized and will be a sub-committee of the Joint Research Committee liaising directly with the Dean of Research. All academic departments are represented on the Committee which have elected an Executive to whom all issues relating to Postgraduates will be addressed. A member of the PG Liaison Committee will also represent Postgraduates on the Joint Research Committee and the University Council in 2004. Rhodes postgraduates in general also excelled at various National and International conferences with numerous students receiving awards for paper and poster presentations at these conferences.

Numerous highly successful research conferences were held at Rhodes during the year. These and other research achievements have been included in the individual Departmental reports.

PROFESSOR JOHN DUNCAN
DEAN OF RESEARCH

ACADEMIC DEVELOPMENT CENTRE (GRAHAMSTOWN)

ADC research interests lie in the development of academic staff as educators although the 'transformation' of the South African higher education system means that increasingly staff are being called upon to work in areas related to policy. This is reflected in a number of publications achieved in 2003.

In April 2003, Lynn Quinn presented a paper at the annual conference of the UK-based Staff and Educational Development Association in Bristol. Other staff members attended the annual conference of the South African Academic Development Association held in Cape Town in December where Professor Chrissie Boughey gave a keynote address examining the relevance of Academic Development to higher education in South Africa. Professor Boughey was also appointed to the Editorial Board of *Teaching in Higher Education*, one of the most prestigious journals in the field of academic staff development published internationally.

PROFESSOR C. BOUGHEY
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Boughey,C

Boughey,C. "Higher Education in South Africa: Context, mission and legislation". In: Gravett,S and Geysler, H(eds) *Teaching and Learning in Higher Education*. Van Schaik. Pretoria. 2003. 1-21.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Boughey,C

Boughey,C. "From equity to efficiency: Access to higher education in South Africa". *Arts and Humanities in Higher Education*. 2003. 2(1),65-71.

OTHER PUBLICATIONS

Boughey,C

Boughey,C. "Book review: Learning and Teaching in Higher Education: The reflective professional and Being a teacher in Higher Education". *Teaching in Higher Education*. 2003. 8(3), 453-455.

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

i. Local Conferences (Within South Africa)

Boughey,C

Boughey,C. "Epistemological access to the university: An alternative perspective". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

Boughey,C. "The relevance of academic development". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

Sayigh,L

Sayigh,L. "Assessment reform on the ground: The registration of assessors course at Rhodes University". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

Williams,K

Williams,K. "Extending pharmacists 'knowing' of disease to include 'knowing' of illness: A critical challenge to the hegemony of positivist biomedical models in the education of pharmacy students". *2003 Annual Conference of the Kenton Association*. Goudini Spa, Worcester. October 2003.

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

ii. International Conferences (Outside South Africa)

Quinn,L

Quinn,L. "Reflections on a theoretical framework for a professional development course for lecturers at a South African university". *SEDA Conference*. University of Bristol, Bristol. United Kingdom. April 2003.

SUBSIDY UNITS CLAIMED

ACADEMIC DEVELOPMENT CENTRE	UNITS	IN PRESS	NON SAPSE
Boughey,C			
<i>Boughey,C.</i> "From equity to efficiency: Access to higher education in South Africa". <i>Arts and Humanities in Higher Education</i> . 2003. 2(1),65-71.	1.00		Y
TOTAL FOR ACADEMIC DEVELOPMENT CENTRE	1.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	1.00		

ACADEMIC DEVELOPMENT CENTRE (EAST LONDON)

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

i. Local Conferences (Within South Africa)

McKellar,T

McKellar,T. "The challenges of portfolio assessment in higher Education: Navigating the reliability minefield". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

McKellar,T. "Unexpected rewards in a student development initiative: Theory into practice". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

Skead,M

Skead,M. "Where leaders learn: Developing leaders through Supplemental Instruction". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

Thomen,C

Thomen,C. "Implementing INSET technology education policy: Possibility or illusion?". *Third International Conference on Science, Mathematics and Technology Education*. Rhodes University, East London. January 2003.

Thomen,C. "Improving the efficiency of technologically disadvantages students' Use of computer applications: A Technikon case study". *New Directions for Academic Development: Innovation, Quality and Relevance*. Cape Technikon, Cape Town. December 2003.

SUBSIDY UNITS CLAIMED

ACADEMIC DEVELOPMENT CENTRE (East London)	UNITS	IN PRESS	NON SAPSE
TOTAL FOR ACADEMIC DEVELOPMENT CENTRE (East London)	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ACCOUNTING

In recent years the Department of Accounting has made significant strides in the field of research, both in the academic progress of its staff and in the growth in postgraduate offerings developed and now available to students. This progress is particularly pleasing when one considers that the average academic tenure of staff in the department is around five years.

The following is a list of highlights for 2003:

1. Staff achievements

- Mark Bunting successfully completed the coursework component for an MCom (Financial Markets) with distinction. He is currently working on his thesis and will be presenting two papers at the South African Accounting Association International conference in June 2004. He has also successfully published a widely accepted text book on financial reporting in South Africa and consults on issues of financial reporting to a number of corporations.
- 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. His contract for a weekly article in the Business Times has been extended and a book comprising a selection of these articles will be published in 2004. He has also become the official presenter of the annual income tax update offered by the South African Institute of Chartered Accountants.
- Lilla Stack has been appointed as a member of the special consumer court and continues to serve on the Advisory Board to the South African Reserve Bank and the Audit and Finance Committee of the Water Research Commission.
- Lilla Stack, Kevin Maree and Richard Poole all presented papers at the South African Accounting Association regional conference held in October 2003.
- Kevin Maree has been elected as the financial accounting portfolio representative on the Eastern Cape Region committee of the South African Accounting Association and was involved in organising the regional conference held in October 2003. Kevin also continues to head up the internal audit function at GBS Mutual Bank.
- Jonathan Lancaster was a co-author of an article entitled "Ethics beyond the code of conduct – understanding the ethical dilemmas of entrepreneurs." It is due for publication in 2004.
- Candice Mullins, Richard Poole and Anita Wagenaar all registered for the Masters in Taxation degree.
- Alex Stott will be registering for an MCom (Financial Markets) in 2004.
- Linda Mbeleni completed the preliminary courses towards the postgraduate diploma in accounting and will be embarking on this in 2004.
- By their very nature, our courses change substantially each year in line with legislative changes and changes in prescribed accounting and auditing statements. This entails a substantial amount of ongoing research in order to ensure that our course material remains current.

2. Postgraduate opportunities

- Lilla Stack successfully launched the popular Masters in Taxation degree in 2002. The market appeal of this program continues to grow with twelve students currently registered. The first two of these students will graduate in 2004.
- For the first time, in 2004, the department will offer a course in research design and methodology. This course has been developed by Lilla Stack and will serve as a valuable resource as the department expands its research profile. Two other academic institutions have already expressed interest in this course being offered to their staff and postgraduate students.
- Also for the first time in 2004, the department will offer an Honours Degree in Financial Management and a Postgraduate Diploma in Taxation.
- The following is a summary of postgraduate registrations for 2004:

Masters in Taxation	12
BCom Honours (accounting)	2
BCom Honours (financial management)	2
Postgraduate diploma in Accounting	46
Postgraduate diploma in Taxation	5
- Postgraduate students graduating in 2004 include:

Masters in Taxation	2
Postgraduate diploma in Accounting	31

PROFESSOR K. MAREE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Bunting,MB

Bunting,MB. Financial Reporting in South Africa 2003. FR Publishing. East London. 2003. 1, 14-39.

Bunting,MB. Financial Reporting in South Africa 2003. FR Publishing. East London. 2003. 2, 15-1-33-21.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Lancaster,JCS

Robinson,D, *van der Mescht,H* and *Lancaster,JCS*. "Beyond the Ethics of Conduct - Understanding the Ethical Dilemmas of Entrepreneurs". *Meditari*. 2003. 11,113-128.

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

i. Local Conferences (Within South Africa)

Maree,KW and Stack,EM

Maree,KW, *Stack,EM* and *Court,PW*. "Intellectual Capital: Measuring an Unrecognised Resource". *South African Accountants Association Regional Conference*. Mpekwani Sun. October 2003.

Poole,R and Lester,MRM

Poole,R and *Lester,MRM*. "Throwing 'When in Doubt, Form a Company' in the Trash". *South African Accountants Association Regional Conference*. Mpekwani Sun. October 2003.

Stack,EM

Stack,EM. "Management Accounting Approaches Used To Solve a Budgeting Problem". *South African Accountants Association Regional Conference*. Mpekwani Sun. October 2003.

SUBSIDY UNITS CLAIMED

ACCOUNTING	UNITS	IN PRESS	NON SAPSE
Lancaster,JCS			
Robinson,D, <i>van der Mescht,H</i> and <i>Lancaster,JCS</i> . "Beyond the Ethics of Conduct - Understanding the Ethical Dilemmas of Entrepreneurs". <i>Meditari</i> . 2003. 11,113-128.	0.34		
TOTAL FOR ACCOUNTING	0.34		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ANTHROPOLOGY

The Anthropology Department had a busy year research wise.

Chris de Wet gave a key note paper and co-led the wrap up discussion session at the Workshop on Settlement and Resettlement in Ethiopia: Population Displacement, Pastoralist Sedentarisation and Peace-Making, in Addis Ababa in January; he also gave a key note lecture at the Summer School Programme, held in July by the Refugee Studies Centre of Oxford University. Rose Boswell successfully defended her PhD thesis at the Vrije Universiteit of Amsterdam in September, and read a paper as a member of an invited panel at the annual conference of the American Anthropological Association in Chicago in November. Penny Bernard read a paper at the conference on New Directions in the Humanities, held at the University of the Aegean, in Greece in July.

Staff presented papers at South African conferences. Robin Palmer, Rose Boswell, Aleksandar Boskovic, and Joy Owen as staff members, together with several postgraduate students, presented papers at the annual conference of Anthropology Southern Africa, the Anthropology disciplinary forum for Southern Africa, held at the University of Cape Town in August. Robin Palmer and Teresa Connor (a PhD student) read papers, and Chris de Wet convened a session at the conference on The Eastern Cape: Historical Legacies and New Challenges, held at East London in August. Penny Bernard organised a major conference, funded by the National Research Foundation, on African Ritual and the Environment. Held at Rhodes University in September, it involved keynote speakers from the United Kingdom, The United States of America and Africa. Papers were also given by Penny Bernard and several Rhodes students

2003 saw the publication by Anthropology staff and students of one book chapter, three journal articles, as well as three entries (by Dr Aleksandar Boskovic) in the Biographical Dictionary of Social and Cultural Anthropology (Routledge). Various articles, encyclopedia entries and a book manuscript, written by members of the Department of Anthropology, are currently in press with overseas publishers and journals, due to appear in 2004.

In 2003, a staff member received her PhD when Rose Boswell successfully defended her Doctoral dissertation at the Vrije Universiteit in Amsterdam. Three Rhodes thesis students graduated in 2003: Alister Munthali with a PhD, and Kelly Luck and Pauline Bain both graduated with a Masters Degree, with distinction. There are currently 6 PhD students and 7 MA students registered in the Department of Anthropology, as well as 4 Honours students. None of these thesis students will be graduating in April 2004, but seven Honours students, who were registered in 2003, will be graduating, of whom two (one in Joint Honours in Anthropology and Music) will be graduating with distinction.

PROFESSOR C. DE WET
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Prins,FE

Prins,FE. "Rock Art studies of the world 2: Developments in rock art research 1955-1999". In: Bahn,P, Fossati,A and Botha, RJ(eds) South African rock art at the end of the millenium. Oxbow Books. Oxford. Second Edition. 2003. 74-81.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Boskovic,A

Boskovic,A. "Michel Leiris: Ethnologist in search of meaning". *Anthropos*. 2003. 98(4-6),526-529.

Boskovic,A. "Phantoms of 'Africa': Michel Leiris and the anthropology of the continent". *Gradhiva*. 2003. 3(34),1-4.

Boskovic,A. "Clifford Geertz: Writing and interpretation". *Sociologija*. 2002. XLIV(1),41-55.

Connor,T

Connor,T. "Crooks, Commuters and Chiefs". *Journal of Contemporary African Studies*. 2003. 21(1),93-120.

OTHER PUBLICATIONS

Boswell,R

Boswell,R. Le Malaise Creole: A Critical Study of Ethnic Identity in Mauritius. Vrije Universiteit. Amsterdam. 2003.

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

i. Local Conferences (Within South Africa)

Bernard,PS

Bernard,PS. "Restoring the balance: The dynamics of the social, spiritual and natural worlds and their inter-relations in amaXhosa river rituals". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Bernard,PS. "The Ecological Implications of the water spirit beliefs in southern Africa: the need to protect knowledge, nature and resource rights". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Bernard,PS. "Reflexivity and resonance: The value of contemporary methodologies in the experience and understanding of dreams, ritual, and the natural world in Zulu cosmologies". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Boskovic,A

Boskovic,A. "Phantoms of 'Africa': Michael Liris and the anthropology of Africa". *Anthropology Southern Africa. Second Annual Conference*. University of Cape Town, Cape Town. August 2003.

Boswell,R

Boswell,R. "The fate of the chameleon: Hybridity and Identity in Mauritius". *Anthropology Southern Africa Second Annual Conference*. University of Cape Town, Cape Town. August 2003.

Ndlovu,N

Ndlovu,N. "Access to rock art sites: A right or a qualification?". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Owen,J

Owen,J. "The illusiveness of objectivity". *Anthropology Southern Africa. Second Annual Conference*. University of Cape Town, Cape Town. August 2003.

Palmer,RCG

Palmer,RCG. "Settlement and Unsettling: The aftermath of a successful Land Claim at Dwesa-Cwebe". *Anthropology Southern Africa. Second Annual Conference*. University of Cape Town, Cape Town. August 2003.

Palmer,RCG. "The Struggle Continues at Dwesa-Cwebe". *Eastern Cape International Conference*. Rhodes University, East London. August 2003.

Prins,FE

Prins,FE. "Qung goes to Tao: San rock art and the maintenance of mystical balance - towards a new paradigm". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Sofeleng,K

Sofeleng,K. "Continuity and innovation in Xhosa diviner-healer rituals". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Terblanche,P

Terblanche,P. "Baleni fountain a sacred site under threat in the Limpopo Province". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

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

ii. International Conferences (Outside South Africa)

Bernard,PS

Bernard,PS. "Reflections on the water, the Goddess and the serpent in a time of ecological crisis: universal wisdom and healing that transcends time and space". *International Conference on New Directions in the Humanities*. University of the Aegean, Island of Rhodes. Greece. July 2003.

Boswell,R

Boswell,R. "Between a rock and a hard place? The Ilois, the Mauritian State and Diego Garcia". *American Anthropological Association*. Hilton Towers, Chicago. November 2003.

De Wet,CJ

De Wet,CJ. "Why do involuntary resettlement projects so often go wrong?". *Settlement and Resettlement in Ethiopia: Population Displacement, Pastoralist Sedentarisation and Peace-Making*. Addis Ababa. Ethiopia. January 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**De Wet,CJ**

De Wet,CJ. Oxford, UK. Taught Summer School of the Refugee Studies Programme. July 2003.

Owen,J

Owen,J. OSSREA, Addis Ababa, Ethiopia, UK. Social Science Research Methodology and Training. 15 June - 26 September 2003.

SUBSIDY UNITS CLAIMED

ANTHROPOLOGY	UNITS	IN PRESS	NON SAPSE
Boskovic,A			
<i>Boskovic,A.</i> "Michel Leiris: Ethnologist in search of meaning". <i>Anthropos</i> . 2003. 98(4-6),526-529.	1.00		
Connor,T			
<i>Connor,T.</i> "Crooks, Commuters and Chiefs". <i>Journal of Contemporary African Studies</i> . 2003. 21(1),93-120.	1.00		
TOTAL FOR ANTHROPOLOGY	2.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

BIOCHEMISTRY MICROBIOLOGY AND BIOTECHNOLOGY

Research from this Department could be at the stage of a watershed with many established researchers either retiring or moving on to new challenges. Their departure has made way for 'new blood' that are now in the process of carving out their own research niches. Nevertheless, it is pleasing to report no fewer than 7 peer-reviewed articles in international journals were published during 2003. Conference presentations took research staff and students to Australia (Pletschke, Blatch), Canada (Blatch), Czech Republic (Whiteley), and Portugal (Hennessy, Boshoff). Professor Rosemary Dorrington was awarded a Fulbright Scholarship for her sabbatical leave with Professor Andy Ball at the University of Alabama, Birmingham, United States. Dr Janice Limson was successful in securing a substantial grant to promote the public understanding of Biotechnology. Dr Limson and Professor Blatch were also successful in being awarded a NRF mobility grant to go to Sweden for research on the quartz crystal microbalance. Limson was the South African representative invited by the USA department of State to participate in one of its prestigious International Visitor Programmes for a month long course on Conservation and Sustainable Development. The Coelacanth Genome Resource research group led by Professors Dorrington and Blatch participated in a research cruise on the FRS Algoa off Sodwana Bay to collect coelacanth scales. They established a world first with coelacanth cell lines in tissue culture. Professor Rose, as Director of the Environmental Biotechnology Research Unit, opened the Unit in July and was subsequently awarded a prestigious Innovation Fund Project from the Department of Science and Technology (DST). Dr Limson was also successful as founder and Editor-in-chief of the popular online magazine, Science in Africa, which was this year's winner of the Highway Africa New Media Award. The website also received accolades from the World Summit on the Information Society. Makana Meadery, founded by PhD student and former lecturer, Dr Winston Leukes, continues to go from strength to strength with their winning formula of producing iQhilika, African Mead.

Once again the Department was host to two mini research symposia during the year. One symposium was on theoretical and practical training in approaches to DNA sequencing run by Professor Blatch and Mr Modisakeng and was attended by student delegates from Rhodes University, Fort Hare University and University of Port Elizabeth. The second symposium was the 13th annual meeting of the Eastern Cape division of the South African Society for Biochemistry and Molecular Biology. Over 40 delegates from Fort Hare, University Port Elizabeth and Rhodes University listened to research presentations covering a broad spectrum of topics in Biochemistry and Biotechnology.

A new course work MSc in Bioinformatics and Computational Molecular Biology was successfully introduced in 2003. This course is run in a multidisciplinary manner together with the departments of Chemistry, Mathematics and Computer Science. Rhodes University was one of six universities awarded node status within the newly established National Bioinformatics Network (NBN).

The postgraduate school from the Department boasts as being one of the largest at Rhodes attracting students from all corners of the world including Nigeria, Cameroon, Zimbabwe and New Zealand. A total of 25 MSc, 24 PhD and 14 Honours students were registered in the Department during 2003 of which 7 PhD, 10 MSc and all of the Honours should graduate in April 2004.

PROFESSOR C. WHITELEY
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Blatch, GL

Odunuga, OO, Hornby, J, Bies, C, Zimmermann, R, Pugh, DJ and Blatch, GL. "Tetratricopeptide repeat motif-mediated Hsc70-mSTI1 interaction: molecular characterization of the critical contacts for successful binding and specificity". Journal of Biological Chemistry. 2003. 278,6896-6904.

Boshoff, A

Boshoff, A, Burton, MH and Burton, SG. "Optimisation of catechol production using membrane-immobilised polyphenol oxidase - a modeling approach". Biotechnology and Bioengineering. 2003. 83,1-7.

Dorrington, RA

*Foster, IM, Dorrington, RA and Burton, SG. "Enhanced hydantoinase and N-carbamoylase activity on immobilisation of *Agrobacterium tumefaciens* strain RU-ORPN1". Biotechnology Letters. 2003. 25(1),67-72.*

Hendry, DA

*Singh, S, Moore, S, Spillings, B and Hendry, DA. "South African isolate of *Cryptophlebia leucotreta* granulovirus". Journal of Invertebrate Pathology. 2003. 83,249-252.*

Kirby,R

Davis,JA, van Blerk,LL, Kirby,R and Hecht,T. "Genetic variation in the mud crab *Scylla serrata* (Forsk., 1775) (Crustacea: Portunidae) in South African estuaries". *African Zoology*. 2003. 38(2),343-350.

Pletschke,BI, Leukes,WD and Whiteley,CG

Melamane,X, Pletschke,BI, Leukes,WD and Whiteley,CG. "Cleaning fouled membranes using sludge enzymes". *Water SA*. 2002. 28,100-104.

Whiteley,CG, Pletschke,BI, Rose,PD and Whittington-Jones,KJ

Whiteley,CG, Enongene,GN, Pletschke,BI, Rose,PD and Whittington-Jones,KJ. "Co-digestion of primary sewage sludge and industrial wastewater under anaerobic sulphate reducing conditions: Enzymatic profiles in a Reciprocating Sludge Bed Reactor". *Water Science and Technology*. 2003. 48(4),129-138.

OTHER PUBLICATIONS**Whiteley,CG**

Whiteley,CG. "Enzyme Inhibitors: A Review". Kirk-Othmer Encyclopaedia of Chemical Technology. 2003. (In Press).

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

Modisakeng,KW and Blatch,GL. "Isolation and characterization of genes encoding heat shock protein 70 from the coelacanth, *Latimeria chalumnae*". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Modisakeng,KW and Blatch,GL. "Isolation and characterization of genes encoding heat shock protein 70 from the coelacanth, *Latimeria chalumnae*". *Coastal and Ocean Exploration Conference*. East London City Hall, East London. October 2003.

Tanner,D, Kaye,PT, Blatch,GL and Zubrzycki,I. "Biochemical characterization of *Plasmodium falciparum* DOXP-reductoisomerase and the rational design and screening of novel anti-malaria drugs". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Blatch,GL and Boshoff,A

Shonhai,A, Blatch,GL and Boshoff,A. "Characterization of the chaperone properties of *Plasmodium falciparum* Hsp40 and Hsp70 proteins". *Eastern Cape Biochemistry Symposium*. Rhodes University, Grahamstown. December 2003.

Blatch,GL and Dorrington,RA

Goyvaerts,E, Mosisili,K, Venkatesh,B, Blatch,GL and Dorrington,RA. "Towards the establishment of primary cell cultures and the estimation of the genome size of the African coelacanth, *Latimeria chalumnae*". *Coastal and Ocean Exploration Conference*. East London City Hall, East London. October 2003.

Idicula,AM, Blatch,GL and Dorrington,RA. "Structure-function studies on the *Saccharomyces cerevisiae* Zn binuclear cluster transcriptional factor, Uga3p and its binding site, the UASGABA". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Boshoff,A and Blatch,GL

Boshoff,A, Hennessy,F and Blatch,GL. "Application of heat shock proteins to improve the recombinant over-production of an *Agrobacterium tumefaciens* protein". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Hennessy,F, Boshoff,A and Blatch,GL. "Molecular Basis for the Specificity of the Interaction between *Agrobacterium tumefaciens* DnaK and its Partner DnaJ-like proteins". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Bradley,G and Blatch,GL

Daniel,S, Longshaw,VW, Bradley,G and Blatch,GL. "The regulatory effects of cell cycle kinases on the localization and function of the murine stress-inducible protein 1 (mSTI 1)". *Eastern Cape Biochemistry Symposium*. Rhodes University, Grahamstown. December 2003.

Burgess,JE and Duncan,JR

Mack,CL, Burgess,JE and Duncan,JR. "Treatment of metal refinery wastewaters with an extractive membrane bioreactor". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Mack,CL, Burgess,JE and Duncan,JR. "Recovery of metal from refinery wastewaters using a membrane bioreactor". *International Water Association: International Biofilm Symposium*. International Convention Centre, Cape Town. September 2003. 95.

Dorrington,RA

Gentz,PM and Dorrington,RA. "Structure-function studies of the *Saccharomyces cerevisiae* TIF5-1A protein". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Matcher,GF, Clark,SA, Burton,SG and Dorrington,RA. "Mutational analysis to identify the structural genes encoding the hydantoin-hydrolyzing enzyme system in *Pseudomonas putida*". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Dorrington,RA and Blatch,GL

Banks,MA, O'Malley,KG, Greig,C, Dorrington,RA, Blatch,GL and Kyriacou,CP. "Which Clock mediates the lifestyle of the coelacanth?". *Coastal and Ocean Exploration Conference*. East London City Hall, East London. October 2003.

Dorrington,RA and Blatch,GL. "Coelacanth genome studies in South Africa - an overview". *Coastal and Ocean Exploration Conference*. East London City Hall, East London. October 2003.

Nicoll,WS and Blatch,GL

Nicoll,WS and Blatch,GL. "PfJ1, a DnaJ homologue from *Plasmodium falciparum*". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Pletschke,BI

Togo,CA and Pletschke,BI. "A rapid enzyme-based method for the detection of *E.coli* in water:beta-D-glucuronidase". *13th Biochemistry Symposium of the Eastern Cape*. Rhodes University, Grahamstown. December 2003. 5-6.

Pletschke,BI and Whiteley,CG

Oyekola,OO, Pletschke,BI and Whiteley,CG. "ATP-Sulphurylase: An enzymatic marker for biological sulphate reduction". *13th Biochemistry Symposium of the Eastern Cape*. Rhodes University, Grahamstown. December 2003. 4-5.

Whiteley,CG

Whiteley,CG and Mavumengwana,VB. "Isolation, purification and characterization of inulin and fructooligosaccharides from *Cichorium intybus*". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Whiteley,CG and Pletschke,BI

Whiteley,CG, Oyekola,OO and Pletschke,BI. "Characterisation of endoglucanases from sewage sludge under sulphidogenic conditions of sewage hydrolysis". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Whiteley,CG, Pletschke,BI and Leukes,WD

Whiteley,CG, Melamane,X, Pletschke,BI and Leukes,WD. "Cleaning fouled membranes using sludge enzymes". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Whiteley,CG, Pletschke,BI and Whittington-Jones,KJ

Whiteley,CG, Pletschke,BI, Enongene,GN and Whittington-Jones,KJ. "Enhanced hydrolysis: An investigation of the kinetics of hydrolytic enzymes within an anaerobic sulphide gradient". *International Water Association: International Biofilm Symposium*. International Convention Centre, Cape Town. September 2003. 96.

Whiteley,CG, Pletschke,BI, Rose,PD and Whittington-Jones,KJ

Whiteley,CG, Pletschke,BI, Enongene,GN, Rose,PD and Whittington-Jones,KJ. "Enzymology of enhanced hydrolysis of complex substrates under biosulphidogenic conditions within a Recycling Sludge Bed Reactor (RSBR)". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Whittington-Jones,KJ

Horan,MP and Whittington-Jones,KJ. "The development and implementation of the Rhodes EnviroSAFE Auditing Scheme for effective management of safety, health and environmental impacts in the small to medium-sized enterprise". *Mining and Sustainable Development*. Indaba Hotel, Sandton. November 2003.

Wilhelmi,BS

Ndondo,IB, *Wilhelmi,BS* and Brand,JM. "Vitamin E and fatty acids in the browse and serum of the black rhinoceros in the Great Fish River Reserve". *18th SASBMB Conference*. University Pretoria, Pretoria. July 2003.

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

Odunuga,OO, Hornby,J and *Blatch,GL*. "Structural analyses suggest the existence of functionally important inter-domain interactions in the co-chaperone murine stress-inducible protein 1". *HUPO 2nd Annual and XIX IUBMB World Congress*. Montreal. Canada. October 2003. 2. 173.

Odunuga,OO, *Tanner,D*, *Pugh,DJ*, *Bies,C*, *Zimmermann,R* and *Blatch,GL*. "Specificity determinants of tetratricopeptide repeat motif-mediated binding to heat shock protein 90 and heat shock protein 70". *28th Annual Lorne Conference on Protein Structure and Function*. Lorne. Australia. February 2003.

Boshoff,A and Blatch,GL

Boshoff,A, *Hennessy,F* and *Blatch,GL*. "Application of DnaK and DnaJ to improve the recombinant over-production of an *Agrobacterium tumefaciens* protein". *EURESCO Conference on the Biology of Molecular Chaperones*. Tomar, Portugal. September 2003.

Hennessy,F, *Boshoff,A* and *Blatch,GL*. "Mutagenesis of critical amino acids that play a role in the structure and function of the J domain of DnaJ-like proteins". *EURESCO Conference on the Biology of Molecular Chaperones*. Tomar, Portugal. September 2003.

Leukes,WD

Pather,S, *Beukes,DR* and *Leukes,WD*. "The Fermentation, Isolation and Characterisation of Secondary Metabolites produced by a Marine Algicolous Fungus: A Biotechnological Approach". *Society for Industrial Microbiology Annual Meeting 2003*. Hyatt Regency Hotel, Minneapolis. USA. August 2003. 89.

Pletschke,BI, Whiteley,CG and Rose,PD

Pletschke,BI, *Watson,SD*, *Whiteley,CG* and *Rose,PD*. "Accelerated municipal wastewater sludge digestion under biosulphidogenic conditions - the effect of sulphide on alpha and beta-glucosidase activity". *Fourth International Conference of the ORBIT Association on Biological Processing of Organics*. Murdoch University, Perth. Australia. April/May 2003. Part 2. 163-168.

Whiteley,CG, Rose,PD, Pletschke,BI and Whittington-Jones,KJ

Whiteley,CG, *Rose,PD*, *Pletschke,BI*, *Whittington-Jones,KJ* and *Enongene,GN*. "Bioremediation of primary sewage sludge by enzymes under sulphate reducing conditions". *Enzymes in the Environment*. Prague. Czech Republic. July 2003.

PATENTS**Dorrington,RA and Hartley,CJ**

Dorrington,RA, *Hartley,CJ* and *Burton,SG*. Novel microorganisms, their use and their production of D-amino acids. PCT200. 2002. PCT/ZA00/00173.

Pletschke,BI, Whiteley,CG, Leukes,WD and Burgess,JE

Pletschke,BI, *Whiteley,CG*, *Leukes,WD* and *Burgess,JE*. Methods for producing an Enzyme mixture. South Africa. 2003. 2003/2131.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.**Blatch,GL and Modikaseng,KW**

Blatch,GL and *Modikaseng,KW*. Organiser/Presenter. "Theoretical and practical training in approaches to DNA sequencing". DNA Sequencing Workshop. Rhodes University. Grahamstown. 7 - 10 April 2003.

Limson,JL

Limson,JL. Radio interview. "Radio Sonder Grense interview on Science in Africa magazine and how it reaches a wide audience". 2003.

Limson, JL. Radio interview. "Radio Lotus interview on the issues of how scientists communicate with the media". 2003.

Limson, JL. Radio interview. "SAfm interview broadcast on the AM Live show on winning the Highway Africa Award for new Media in Journalsim". 2003.

Limson, JL. Radio interview. "SAfm interview broadcast on the Computer Gig show on winning the Highway Africa New Media award and the value of the Internet in communicating science". 2003.

Limson, JL. Radio interview. "Radio Bop interview on interesting research coming out of Africa". 2003.

Limson, JL. Radio interview. "SAfm interview broadcast on the MediaSAFM show on biotechnology issues in South Africa and on winning the Public Understanding of Biotechnology Grant to bring biotechnology to the lay public". 2003.

Limson, JL. Radio interview. "SAfm chat show with Vuyo Mbuli on the future of science in South Africa and the needs of scientists". 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Limson, JL

Limson, JL. Q-Sense AB/Chalmers University, Gothenburg, Sweden. Quartz crystal microbalance technology. 1 - 5 December 2003.

DISTINGUISHED VISITORS

Dr M Banks. Oregon State University, Newport, Oregon, USA. Research. October 2003.

Dr MEC Cheetham. UCL, London, England. Research and teaching visit. 2003.

Dr N Gardiner. Research and Business talk. 2003.

Professor J Hapgood. University of Stellenbosch, Stellenbosch. Teaching visit. 2003.

Dr A Hardcastle. UCL, London, England. Research visit. 2003.

Professor R Haubrick. Research seminar. 2003.

Professor T Sewell. UCT, Cape Town. Research seminar. 2003.

Dr E Sturrock. UCT, Cape Town. Research seminar. 2003.

Dr M Torr. Virginia Commonwealth University, USA. Research visit. 2003.

SUBSIDY UNITS CLAIMED

BIOCHEMISTRY MICROBIOLOGY & BIOTECHNOLOGY	UNITS	IN PRESS	NON SAPSE
Boshoff, A			
Boshoff, A, Burton, MH and Burton, SG. "Optimisation of catechol production using membrane-immobilised polyphenol oxidase - a modeling approach". <i>Biotechnology and Bioengineering</i> . 2003. 83,1-7.	0.34		
Dorrington, RA			
Foster, IM, Dorrington, RA and Burton, SG. "Enhanced hydantoinase and N-carbamoylase activity on immobilisation of <i>Agrobacterium tumefaciens</i> strain RU-ORPN1". <i>Biotechnology Letters</i> . 2003. 25(1),67-72.	0.67		
Hendry, DA			
Singh, S, Moore, S, Spillings, B and Hendry, DA. "South African isolate of <i>Cryptophlebia leucotreta</i> granulovirus". <i>Journal of Invertebrate Pathology</i> . 2003. 83,249-252.	1.00		
Kirby, R			

<i>Davis,JA, van Blerk,LL, Kirby,R and Hecht,T. "Genetic variation in the mud crab Scylla serrata (Forsk, 1775) (Crustacea: Portunidae) in South African estuaries". African Zoology. 2003. 38(2),343-350.</i>	0.25		
Pletschke,BI, Leukes,WD and Whiteley,CG			
<i>Melamane,X, Pletschke,BI, Leukes,WD and Whiteley,CG. "Cleaning fouled membranes using sludge enzymes". Water SA. 2002. 28,100-104.</i>	1.00		
Whiteley,CG, Pletschke,BI, Rose,PD and Whittington-Jones,KJ			
<i>Whiteley,CG, Enongene,GN, Pletschke,BI, Rose,PD and Whittington-Jones,KJ. "Co-digestion of primary sewage sludge and industrial wastewater under anaerobic sulphate reducing conditions: Enzymatic profiles in a Reciprocating Sludge Bed Reactor". Water Science and Technology. 2003. 48(4),129-138.</i>	1.00		
TOTAL FOR BIOCHEMISTRY MICROBIOLOGY & BIOTECHNOLOGY	4.26		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

BOTANY

Staff and students have published, have in press or submitted 3 book chapters, 16 journal papers and 11 popular articles. Staff and students presented 27 paper or poster presentations and attended or organised 3 workshops. Three staff proceeded overseas on research and the Department received international visitors. The Department has 3 Honours, 9 MSc and 4 PhD students, of whom 2 MSc and 1 PhD are due to graduate in 2004.

Individual staff members' achievements include:

Professor CEJ Botha: Ted became the president of the South African Association of Botanists and delivered a plenary presentation at the International Phloem Transport Congress, Germany. Ted became a steering member for two international committees and has developed international links with the CRIRO (Australia) and Södertörn University College (Sweden). Ted has co-authored a text "Plant Anatomy an applied approach" and a CD-ROM "The Virtual Plant".

Professor RA Lubke: Roy continued research on the coastal environment and the Brenton-Blue butterfly, producing collaborative papers and reports. He, in conjunction with Coastal Environmental Services continued a survey of the area affected by the proposed N2 toll road. Roy is involved with a SANPAD (South Africa-Netherlands Research Programme on Alternatives in Development) project collaborating with Rhodes colleagues and students.

Professor NP Barker: Nigel and his students' Systematics research produced publications and was presented both internationally (Association for the Taxonomic Study of the Flora of Tropical Africa, Addis Ababa) and locally. Nigel participated in a research trip to the Ethiopian highlands and was on sabbatical during 2003. Nigel spent two months at the Institute for Systematic Botany, Zurich, researching the evolution and radiation of grass subfamily Danthonioideae.

Dr BS Ripley: Brad and colleague Roy Lubke attended International conference of Association of Vegetation Science, Italy. Brad continued research on the ecophysiology of dune plants, producing several publications. Brad began new collaborations with staff and students from the Departments of Zoology and Entomology, Chemistry, Rhodes University, and with colleagues from Sheffield University.

Dr S Vetter: Susi received her doctorate from UCT and attended the VIIth International Rangeland Congress in Durban, organising a workshop on rangeland dynamics. Susi has initiated a research programme on the ecology of rare and threatened plant species.

Mr CI Peter: Craig continued work on the pollination biology of the genus *Eulophia*, and presented this as publications and at local (Southern African Society of Systematic Biologists, Pretoria) and international conferences (British Ecological Society Special Symposium and Annual Meeting of the Association for Tropical Biology and Conservation, UK). Craig has research trips to the Nyika Plateau (Malawi) and the island of Öland in the Baltic.

Mr AP Dold: Tony continued his taxonomic research publishing book, journal and popular articles. Tony's highlight was that he discovered two new species of *Drimia*.

DR. B. RIPLEY
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Dold,AP

Chesselet,P, Burgoyne,PM, Klak,C, Kurzweil,H, Dold,AP, Griffen,NJ and Smith,GF. "Mesembryanthemaceae". In: Germishuizen,G and Meyer, N L(eds) Plants of southern Africa an annotated checklist. National Botanical Institute. Pretoria. 2003. 633-738.

Dold,AP and Cocks,ML. Guidelines for the cultivation of selected medicinal plants in the Eastern Cape Province. Siyakhholwa Development Foundation. Keiskammahoek. 2003. 38 pp.

Ripley,BS

Pammenter,NW and Ripley,BS. "Physiological Characteristics of Coastal Dune Pioneer Species from the Eastern Cape, South Africa in relation to Stress and Distribution". In: Germishuizen,G and Meyer, NL(eds) Ecological Studies Vol 17. Coastal Sand Dunes: Ecology and Restoration. 2003. (In Press).

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barker,NP

Barker,NP, Linder,HP, Morton,CM and Lyle,M. "The paraphyly of *Cortaderia* (Danthonioideae; Poaceae): Evidence from morphology, chloroplast and nuclear DNA sequence data". *Annals of the Missouri Botanical Garden*. 2003. 90(1),1-24.

Kelly,CMR, Barker,NP and Villet,MH. "Phylogenetics of advanced snakes (Caenophidia) based on four mitochondrial genes". *Systematic Biology*. 2003. 52,439-459.

Schrire,BD, Lavin,M, Barker,NP, Cortes-Burns,H, Von Senger,I and Kim,J-H. "Towards a phylogeny of Indigofera (Leguminosae - Papilionoideae): Identification of major clades and relative ages". *Advances in Legume Systematics*. 2003. 10,269-302.

Dold,AP

Dold,AP. "The rediscovery of *Ornithogalum britteniae* (Hyacinthaceae) and an amendment to the description". *South African Journal of Botany*. 2003. 69(4),500-504.

Brink,E and Dold,AP. "*Drimia acarophylla* (Hyacinthaceae) a new species from Eastern Cape South Africa". *South African Journal of Botany*. 2003. 69(3),396-400.

Dold,AP and Bruyns,PV. "A new subspecies of *Brachystelma* from Eastern Cape South Africa (Asclepiadoideae-Ceropegieae)". *Bothalia*. 2003. 33(1),105-106.

Dold,AP and Hammer,SH. "A new species of *Ornithogalum* from the Eastern Cape, South Africa". *Bothalia*. 2003. 33(2),112-115.

Victor,JE and Dold,AP. "Threatened Plants of the Albany Centre of Floristic Endemism South Africa". *South African Journal of Science*. 2003. 99,437-446.

Lubke,RA

Knevel,IC, Venema,HG and Lubke,RA. "The search for indigenous dune stabilisers: Germination requirements of selected South African species". *Journal of Coastal Conservation*. 2003. 8,169-178.

Lubke,RA, Hoare,DB, Victor,JE and Kettelaar,R. "The vegetation of the habitat of the Brenton Blue Butterfly, *Orachrysops niobe* (Trimen), in the Western Cape, South Africa". *South African Journal of Science*. 2003. 99,201-206.

Steinke,TD and Lubke,RA. "Arenicolous marine fungi from Southern Africa". *South African Journal of Botany*. 2003. 69,540-545.

Steinke,TD, Lubke,RA and Ward,CJ. "The distribution of algae epiphytic on pneumatophores of the mangrove, *Avicennia marina*, at different salinities in the Kosi system". *South African Journal of Botany*. 2003. 69,546-554.

Peter,CI

Johnson,SD, Peter,CI, Nilsson,LA and Ågren,J. "Pollination success in a deceptive orchid is enhanced by co-occurring nectar-producing plants: evidence for the magnet species effect". *Ecology*. 2003. 84,2919-2927.

Peter,CI and Ripley,BS

Peter,CI, Ripley,BS and Robertson,MP. "Environmental limits to the distribution of *Scaevola plumieri* along the South African coast". *Journal of Vegetation Science*. 2003. 14,89-98.

Robertson,MP, Peter,CI, Villet,MH and Ripley,BS. "Comparing models for predicting species' potential distributions: A case study using correlative and mechanistic predictive modelling techniques". *Ecological Modelling*. 2003. 164,153-197.

Ripley,BS and Barker,NP

Ripley,BS, Kiguli,L and Barker,NP. "*Azolla filiculoides* as a biofertiliser of wheat under dry-land soil conditions". *South African Journal of Botany*. 2003. 69(3),295-300.

OTHER PUBLICATIONS

Dold,AP

Dold,AP. "Notes on the recently described *Brachystelma cummingii* and its closest relative *B. tenellum*". Butler, A(eds) Asclepios. International Asclepiad Society. New York. 2003. 88, 4-7.

Dold,AP. "Fine Fare Rare Remedy. *Hydnora africana* a most unusual and versatile parasitic plant". Voget, C(eds) Veld & Flora. South African National Botanical Society. Cape Town. 2003. 28, 30-31.

Bayer,B and Dold,AP. "Ecotypes in *Haworthia*". Steffens, F(eds) Aloe. South African Succulent Society. Pretoria. 2003. 40, 10-15.

Cocks,ML, Dold,AP and Sizane,N. "Fine Fare Rare Remedy. *Hydnora africana* a most unusual and versatile parasitic plant". Voget, C(eds) Veld & Flora. South African National Botanical Society. Cape Town. 2003. 89, 12-14.

Cocks,ML, Dold,AP and Wiersum,KF. "The Cost of Culture the role of natural resources in maintaining Xhosa customs in the Eastern Cape". Voget, C(eds) Veld & Flora. South African National Botanical Society. Cape Town. 2003. 89, 146-149.

Dold,AP and Cocks,ML. "Turksvy Stroop - A successful home industry in the Eastern Cape". Styles, D(eds) Plant Life. Plant Life Non-Profit Organisation. Musgrave. 2003. 29, 5-7.

Dold,AP and Hammer,S. "*Ectotropis* N.E.Br. – Lost found and fragile". Kimnach, M(eds) Haseltonia. Cactus and Succulent Society of America. Pasadena. 2003. 9, 35-40.

Dold,AP and Victor,JE. "Threatened Plants at Coega is ex situ conservation a solution?". Anderson, S(eds) African Wildlife. Wildlife and Environment Society of South Afr. Epping. 2003. 41, 22-23.

Dold,AP and Victor,JE. "Notes on *Brachystelma comptum* N.E.Br. an endangered species from the Eastern Cape Province South Africa". Steffens, F(eds) Aloe. South African Succulent Society. Pretoria. 2003. 41, 22-23.

Dold,AP and Victor,JE. "Fire Lilies and Hotspots. A closer look at the conservation status of two rare fire lilies *Cyrtanthus flavus* and *Cyrtanthus staadensis* from the Albany Centre of Endemism". Voget, C(eds) Veld & Flora. South African National Botanical Society. Cape Town. 2003. 89, 66-67.

Lubke,RA

Lubke,RA and Vromans,D. "Flora and Vegetation In: Bohlweki Environmental (eds) N2 Wild Coast Toll Road between East London and Durban". Environmental Impact Report Volume 2: Specialist Studies. 2002. 2.

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

i. Local Conferences (Within South Africa)

Barker,NP

Baijnath,H, Barker,NP and Ramdhani,S. "Phylogenetics of the genus *Kniphofia* Moench (Asphodelaceae)". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Barker,NP, McQuaid,CD and Zardi,G. "Genetic diversity of mussel populations along South Africa coast as elucidated by mtDNA sequence data: Preliminary results". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Barker,NP and Muller,E. "Towards a species-level phylogeny of the Sub-tribe Arctotinae (Tribe: Arctoteae; Family: Asteraceae)". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Barker,NP, Rourke,JP and Vanderpoorten,A. "The phylogeny of *Leucadendron* revisited: Can plastid data assist in resolving species relationships?". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Barker,NP, Von Senger,I and Zachariades,C. "Preliminary phylogeography of *Chromolaena odorata*: Finding the origin of a South African weed". *5th International Workshop on Biological Control and Management of Chromolaena odorata*. Durban Conference Centre, Durban. October 2003. 90-99.

Lunt,N, Villet,MH and Barker,NP. "Estimating development from phylogeny: Predicting developmental parameters of forensically significant flies". *Proceedings of the 4th Congress of the Southern African Society for Systematic Biology*. Pretoria. 9 - 11 July 2003. 26-27.

Lunt,N, Villet,MH and Barker,NP. "Combining phylogeny and development: The use of phylogeny for predicting developmental parameters of forensically important flies". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 52.

Lunt,N, Villet,MH and Barker,NP. "Estimating development from phylogeny: Predicting developmental parameters of forensically significant flies". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Mwale,M, Heemstra,PC, Barker,NP and Kaiser,H. "Molecular phylogeny of South African pipefish of the genus *Syngnathus* using cytochrome b sequences of mitochondrial DNA". *SASSB IV Congress*. University of Pretoria, Pretoria. July 9-11 2003.

Barker,NP and Dold,AP

Barker,NP, Dold,AP and Jackson,B. "Testing the generic limits of *Drimia* (sensu lato)". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Barker,NP and Ripley,BS

Barker,NP, Howis,S and Ripley,BS. "Phylogeography and comparative ecophysiology of *Chrysanthemoides* Turn. Ex Medik. (Tribe Calenduleae)". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Botha,CEJ

Botha,CEJ. "Phloem loading in grasses - an apoplasmic main event with a slow symplasmic sideshow?". *South African Association of Botanists*. University of Pretoria, Pretoria. January 2003.

Barratt,P and Botha,CEJ. "Regulation of plasmodesmal control in *Tradescantia pallida* L. and *T. albiflora* Kunth". *South African Association of Botanists*. University of Pretoria, Pretoria. January 2003.

Dold,AP

Cocks,ML, Dold,AP and Sizane,N. "Intelezi in the Eastern Cape - the cultural significance of some succulent plants". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "The cultural significance of *Olea europaea* subsp. *africana*". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "The use of woody plant material in the maintenance of Ubuhlanti and Amagoqo". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "Ubuhlanti and Igoqo – the use of woody plant material in the maintenance of household cultural artefacts". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Sizane,N, Dold,AP and Cocks,ML. "Imithi yamasiko – the cultural significance of *Olea europaea* subsp. *africana*". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Dold,AP and Lubke,RA

Cocks,ML, Dold,AP, Lubke,RA and Pote,J. "Domestication of Indigenous Medicinal Plants in the Eastern Cape Province". *SANPAD Conference*. Royal Hotel, Durban. May 2003.

Cocks,ML, Dold,AP, Lubke,RA and Pote,J. "Indigenous Medicinal Plants in the Eastern Cape Province". *Indigenous Plant Use Forum: Indigenous Knowledge Systems and Intellectual Property Rights*. Civic Centre, Rustenburg. July 2003.

Lubke,RA

Avis,T and Lubke,RA. "Coega Kop: An isolated inselberg in the Algoa Basin of Biological and Economic Importance". *Quarryman's Conference*. Boardwalk Conference Centre, Port Elizabeth. July 2003.

Lubke,RA and Dold,AP

Cocks,ML, Pote,J, Lubke,RA and Dold,AP. "Domestication of endangered indigenous medicinal plants in the Eastern Cape". *Indigenous Plant Use Forum*. Rustenberg. July 2003.

Peter,CI

Peter,CI. "Pollination in the genus *Eulophia*". *South African Orchid Conference*. Royal Agricultural Show Grounds, Pietermaritzburg. September 2003.

Johnson,SD and Peter,CI. "Pollinator driven divergence in the *Eulophia parviflora* complex". *South African Society for Systematic Biology*. University of Pretoria, Pretoria. July 2003.

Vetter,S

Vetter,S. "Equilibrium and non-equilibrium in rangelands - a review of the debate". *VIIth International Rangeland Congress, Professional Workshop 1: Rangelands at equilibrium and non-equilibrium*. International Conference Centre, Durban. July 2003. in press.

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

Baijnath,H, Barker,NP and Ramdhani,S. "Biogeography and phylogenetics of the genus *Kniphofia* Moench (Asphodelaceae)". *17th AETFAT Conference*. University of Addis Ababa, Addis Ababa. Ethiopia. September 2003.

Barker,NP, Rourke,JP and Vanderpoorten,A. "The phylogeny of *Leucadendron* (Proteaceae): Can plastid sequence data assist in resolving species relationships?". *17th AETFAT Conference*. University of Addis Ababa, Addis Ababa. Ethiopia. September 2003.

Barker,NP, Von Senger,I and Zachariades,C. "Evidence for a northern Caribbean origin for the southern African biotype of *Chromolaena odorata*". *6th International Workshop on Biological Control and Management of Chromolaena*. Cairns, Queensland. Australia. May 2003.

Dold,AP

Cocks,ML, Dold,AP, Husselman,M and Postma,M. "Ex-situ conservation of medicinal plants in the Eastern Cape South Africa". *Global Summit on Medicinal Plants*. Maritim Hotel Arsenal Mauritius, Arsenal. Mauritius. September 2003.

Lubke,RA

Lubke,RA. "Management and alien plant eradication for biodiversity and water increase in the Grahamstown Commonage, Eastern Cape. South Africa". *46th Symposium of the International Association of Vegetation Science*. Napoli. Italy. June 2003.

Peter,CI

Johnson,SD and Peter,CI. "Pollinator driven divergence in the *Eulophia parviflora* complex". *British Ecological Society Special Symposium and Annual Meeting of the Association for Tropical Biology and Conservation*. University of Aberdeen, Aberdeen. UK. July 2003.

Ripley,BS

Pammeter,BS and Ripley,BS. "Low standing biomass and leaf area index ensures sub-tropical coastal dune plants have an adequate supply of water". *46th Symposium of the International Association for Vegetation Science*. Naples. Italy. June 2003.

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

Dames,JF. Attend. "*Mycorrhizal Techniques Course*". University of Agricultural Sciences. University of York. York, United Kingdom. March 2003.

Dames,JF. Attend. "*Molecular Technology for AM Fungi*". Scottish Agricultural Col. Edinburgh, Scotland. July 2003.

Vetter,S

Vetter,S. Organised. "*Rangelands at Equilibrium and Non-Equilibrium*". VIITH International Rangeland Congress. International Conference Centre. Durban. 26 - 27 July 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Dames,JF

Dames,JF. Department of Forest Mycology and Pathology, Uppsala, Sweden. June 2003.

Peter,CI

Peter,CI. Ekologiska forskningsstationen, Uppsala University, Skogsby, Öland, Sweden. Research - orchid reproductive ecology. 30 May - 22 June 2003.

SUBSIDY UNITS CLAIMED

BOTANY	UNITS	IN PRESS	NON SAPSE
Barker,NP			
<i>Kelly,CMR, Barker,NP and Villet,MH</i> . "Phylogenetics of advanced snakes (Caenophidia) based on four mitochondrial genes". <i>Systematic Biology</i> . 2003. 52,439-459.	0.34		
Dold,AP			
<i>Dold,AP</i> . "The rediscovery of <i>Ornithogalum britteniae</i> (Hyacinthaceae) and an amendment to the description". <i>South African Journal of Botany</i> . 2003. 69(4),500-504.	1.00		
Brink,E and <i>Dold,AP</i> . " <i>Drimia acarophylla</i> (Hyacinthaceae) a new species from Eastern Cape South Africa". <i>South African Journal of Botany</i> . 2003. 69(3),396-400.	0.50		
<i>Dold,AP</i> and Bruyns,PV. "A new subspecies of <i>Brachystelma</i> from Eastern Cape South Africa (Asclepiadoideae-Ceropegieae)". <i>Bothalia</i> . 2003. 33(1),105-106.	0.50		
<i>Dold,AP</i> and Hammer,SH. "A new species of <i>Ornithogalum</i> from the Eastern Cape, South Africa". <i>Bothalia</i> . 2003. 33(2),112-115.	0.50		
Victor,JE and <i>Dold,AP</i> . "Threatened Plants of the Albany Centre of Floristic Endemism South Africa". <i>South African Journal of Science</i> . 2003. 99,437-446.	0.50		
Lubke,RA			
Knevel,IC, <i>Venema,HG</i> and <i>Lubke,RA</i> . "The search for indigenous dune stabilisers: Germination requirements of selected South African species". <i>Journal of Coastal Conservation</i> . 2003. 8,169-178.	0.67		
<i>Lubke,RA</i> , Hoare,DB, Victor,JE and Kettelaar,R. "The vegetation of the habitat of the Brenton Blue Butterfly, <i>Orachrysops niobe</i> (Trimen), in the Western Cape, South Africa". <i>South African Journal of Science</i> . 2003. 99,201-206.	0.25		
Steinke,TD and <i>Lubke,RA</i> . "Arenicolous marine fungi from Southern Africa". <i>South African Journal of Botany</i> . 2003. 69,540-545.	0.50		
Steinke,TD, <i>Lubke,RA</i> and Ward,CJ. "The distribution of algae epiphytic on pneumatophores of the mangrove, <i>Avicennia marina</i> , at different salinities in the Kosi system". <i>South African Journal of Botany</i> . 2003. 69,546-554.	0.34		
Peter,CI and Ripley,BS			
<i>Peter,CI, Ripley,BS</i> and <i>Robertson,MP</i> . "Environmental limits to the distribution of <i>Scaevola plumieri</i> along the South African coast". <i>Journal of Vegetation Science</i> . 2003. 14,89-98.	0.67		
Ripley,BS and Barker,NP			
<i>Ripley,BS, Kiguli,L</i> and <i>Barker,NP</i> . " <i>Azolla filiculoides</i> as a biofertiliser of wheat under dry-land soil conditions". <i>South African Journal of Botany</i> . 2003. 69(3),295-300.	1.00		
TOTAL FOR BOTANY	6.77		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

CHEMISTRY

The Department of Chemistry has had a good year in its teaching, scholarship and research activities. An important component of our undergraduate teaching is the exposure of our students to Industrial Chemistry through the awarding of a SASOL sponsored prize for the best Chemistry II Entrepreneurial Project and a prize for the best Anglo-American and De Beer Chairman's Fund Chemistry III Industrial Project. The Department of Chemistry and the student Chemistry Society continue to be actively involved in local schools and elsewhere in the community.

The vibrant postgraduate research programme in the Department continues to attract international students from all over Africa, including; Lesotho, Namibia, Nigeria and Zimbabwe, and as far a field as England and Mexico. A total of 9 MSc, 12 PhD and 11 Honours students carried out research in a variety of fields, including electrochemistry, photochemistry, inorganic and organic synthesis, thermal analysis and marine natural product chemistry. A record number of seven chemistry PhD students graduated at the University graduation ceremony. A successful national organic chemistry conference, the Frank Warren Conference, was organized and hosted by the Department in April. Professor Mike Brown was made a Fellow of the North American Thermal Analysis Society (NATAS), the first South African to be accorded this prestigious honour. Professors Nyokong and Kaye proceeded on sabbatical to France and Oxford respectively. Staff presented their research results at international conferences in the United States, England, France, Brazil and Chile.

PROFESSOR P. KAYE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Brown,ME

Brown,ME. Handbook of Thermal Analysis and Calorimetry, Volume 2, Applications to Inorganic and Miscellaneous Materials. Elsevier Scientific. Amsterdam. 2003. 2, 1-950.

Charsley,EL, Laye,PG and *Brown,ME*. "Pyrotechnics". In: Handbook of Thermal Analysis and Calorimetry, Volume 2, Applications to Inorganic and Miscellaneous Materials. Elsevier Scientific. Amsterdam. 2003. 2, 30.

Nyokong,T

Nyokong,T. "Phthalocyanines and related complexes as electrocatalysts for the detection of nitrate, nitrite and nitric oxide". In: Current Trends in Electrochemistry. 2003. 9, 198-206.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Brown,ME

Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on the Sodium Salts of Aminosalicic Acids". *Journal of Thermal Analysis and Calorimetry*. 2003. 73,499-508.

Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on Mixtures of Benzoic and Salicylic Acids with Cyclodextrins". *Journal of Thermal Analysis and Calorimetry*. 2003. 73,671-686.

Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on Mixtures of Aminosalicic Acids with Cyclodextrins". *Journal of Thermal Analysis and Calorimetry*. 2003. 73,687-706.

Daubinet,A and Kaye,PT

Daubinet,A and *Kaye,PT*. "Designer Ligands. Part 11. Electron-Impact Mass Spectrometric Studies of Polydentate Malonamide-derived Ligands". *Journal of Organic Chemistry (Arkivoc)*. 2003. 93-104.

Davies-Coleman,MT

Sammai,T, Gibbons,MJ, Kelly,M and *Davies-Coleman,MT*. "South African Latrunculiidae (Porifera: Demospongia: Poeciloscerida): Description of new Species of *Latrunculia* du Bocage, *Strongylodesma* Levi, and *Tsitsikamma* Samaai and Kelly". *Zootaxa*. 2003. 371,1-26.

Davies-Coleman,MT and Gray,CA

Davies-Coleman,MT, Dzeha,TM, Gray,CA, Hess,S, Pannell,LK, Hendricks,DT and *Arendse,CE*. "Isolation of Homodolastatin 16, A New Cyclic Depsipeptide from a Kenyan Collection of *Lungbya majuscula*". *Journal of Natural Products*. 2003. 66,712-715.

Gray,CA and Davies-Coleman,MT

Gray,CA, Davies-Coleman,MT, Cairn,M, Nathanson,C and Wisch,GA. "The X-Ray Crystal Structures of Ambraketal and 8-Epi-Ambraketal". *Journal of Chemical Research (S)*. 2003. 405-407.

Gray,CA and Kaye,PT

Gray,CA, Kaye,PT and Nchinda,AT. "Chromone Studies. Part 13. Synthesis and Electron-Impact Mass Spectrometric Studies of 5-Hydroxy-2-isopropyl-7-methoxychromone, a Constituent of the Medicinal Plant". *Journal of Natural Products*. 2003. 66,1144-1146.

Gray,CA, Davies-Coleman,MT and Rivett,DEA

Gray,CA, Davies-Coleman,MT and Rivett,DEA. "An Improved Synthesis of Rhinocerotinoic Acid". *Tetrahedron*. 2003. 59,165-173.

Gray,CA, Rivett,DEA and Davies-Coleman,MT

Gray,CA, Rivett,DEA and Davies-Coleman,MT. "The Absolute Stereochemistry of a Diterpene from *Ballota aucheri*". *Phytochemistry*. 2003. 63,409-413.

Kaye,PT

Kaye,PT and Musa,MA. "Application of Baylis-Hillman Methodology in the Synthesis of Coumain Derivatives". *Synthetic Communications*. 2003. 33(10),1755-1770.

Kaye,PT, Musa,MA and Nocanda,XW. "Efficient and Chemoselective Access to 3-(Chloromethyl)coumarins via Direct Cyclisation of Unprotected Baylis-Hillman Adducts". *Synthesis (Journal of Synthetic Organic Chemistry)*. 2003. (4),531-534.

Kaye,PT, Musa,MA, Nocanda,XN and Robinson,RS. "Does the DABCO-Catalysed Reaction of o-Hydroxybenzaldehydes with Activated Alkenes Follow a Baylis-Hillman Pathway?". *Organic and Biomolecular Chemistry*. 2003. 1,1133-1138.

Kaye,PT, Nchinda,AT, Sabbagh,LV and Bacsa,J. "Chromone Studies. Part 14. Unprecedented dimerisation of chromone-3-carbaldehyde-derived Baylis-Hillman adducts". *Journal of Chemical Research (S)*. 2003. 111;0301-113;0318.

Kaye,PT and Ramaite,IDI. "Chromone Studies. Part 12. Fragmentation Patterns in the Electron Impact Mass Spectra of 2-(N,N-Dialkylamino)4-H-benzopyran-4-ones and 4H-naphthopyran-4-ones". *South African Journal of Chemistry*. 2003. 56,25-29.

Kaye,PT and Tshikhudo,TR. "Designer Ligands. Part 10. Novel Ni(II)-Selective Ligands and Use in the Construction of Molecularly Imprinted Polymers". *Journal of Chemical Research (S)*. 2003. 179;0401-181;0418.

Lobb,KA and Kaye,PT. "Crystallographic Analysis and Structural Revision of a Spiroterpenoid Rearrangement Product". *South African Journal of Chemistry*. 2003. 56,60-62.

Maree,DM and Nyokong,T

Ogunsipe,AO, Maree,DM and Nyokong,T. "Solvent effects on the photochemical and fluorescence properties of zinc phthalocyanine derivatives". *Journal of Molecular Structure*. 2003. 650,131-140.

Maree,SE, Maree,DM and Nyokong,T

Seotsanyana-Mokhosi,I, Maree,SE, Maree,DM and Nyokong,T. "Photochemical studies of binuclear phenoxy-substituted phthalocyanines containing catecholate bridges". *Journal of Porphyrins and Phthalocyanines*. 2003. 7,167-175.

Tau,P, Ogunsipe,AO, Maree,SE, Maree,DM and Nyokong,T. "Influence of cyclodextrins on the fluorescence, photostability and singlet oxygen quantum yields of zinc phthalocyanine and naphthalocyanine complexes". *Journal of Porphyrins and Phthalocyanines*. 2003. 7,439-446.

McPhail,K and Nyokong,T

Anoopkumar-Dukie,S, Lack,B, McPhail,K, Lambat,Z, Maharaj,D, Nyokong,T and Daya,S. "Indomethacin reduces lipid peroxidation in rat brain homogenate by binding Fe²⁺". *Metabolic Brain Disease*. 2003. 18(1),1-9.

Nyokong,T

Nyokong,T and Vilakazi,S. "Phthalocyanines and related complexes as electrocatalysts for the detection of nitric oxide". *Talanta*. 2003. 61,27-35.

Obirai,J, Rodrigues,NP, Bedioui,F and Nyokong,T. "Synthesis, spectral and electrochemical properties of a new family of pyrrole substituted cobalt, iron, manganese, nickel and zinc phthalocyanine complexes". *Journal of Porphyrins and Phthalocyanines*. 2003. 7,508-520.

Ozoemena,K and Nyokong,T. "Synthesis, electrochemical and photochemical properties of octasubstituted thiol-derivatised zinc phthalocyanines". *Inorganic Chemistry Communications*. 2003. 6,1192-1195.

Ozoemena,K and Nyokong,T. "Electrochemical Behaviour of thiol-derivatized zinc(II) phthalocyanine complexes and their self-immobilized films at gold electrodes". *Microchemical Journal*. 2003. 75,241-247.

Ozoemena,K, Nyokong,T and Westbroek,P. "Self-Assembled Monolayers of Cobalt and Iron Phthalocyanine Complexes on Gold Electrodes: Comparative Surface Electrochemistry and Electrocatalytic Interaction with Thiols and Thiocyanate". *Electroanalysis*. 2003. 15(22),1762-1770.

Westbroek,P and Nyokong,T

Oni,J, Westbroek,P and Nyokong,T. "Electrochemical behaviour and detection of dopamine and ascorbic acid at an iron(II) tetrasulfophthalocyanine modified carbon paste ultra-micro electrode". *Electroanalysis*. 2003. 15(10),847-854.

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

i. Local Conferences (Within South Africa)

Antunes,EM, Davies-Coleman,MT, Nyokong,T, Maree,DM and Maree,SE

Antunes,EM, Beukes,DR, Davies-Coleman,MT, Nyokong,T, Maree,DM and Maree,SE. "Structural, Physical and Photophysical Studies of Pyrroloiminoquinone Alkaloids from Marine Sponges of the Family Latrunculiidae". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Davies-Coleman,MT and Gray,CA

Davies-Coleman,MT, Dzeha,TM, Gray,CA, Hess,S, Pannell,LK, Hendricks,DT and Arendse,CA. "Isolation of Homodolastain 16, a New Cyclic Depsipeptide from a Kenyan Collection of *Lyngbya majuscula*". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Gray,CA, Davies-Coleman,MT and Collett,LA

Gray,CA, Davies-Coleman,MT, Collett,LA and Wisch,GA. "Synthetic Approaches to Marine Labdane Diterpenes". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Kaye,PT

Kaye,PT and Lobb,KA. "Spiroterpenoid Scaffolds for the Construction of Novel Chiral Reagents". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Tanner,D, Kaye,PT, Blatch,GL and Zubrzycki,I. "Biochemical characterization of *Plasmodium falciparum* DOXP-reductoisomerase and the rational design and screening of novel anti-malaria drugs". *18th SASBMB Conference*. University of Pretoria, Pretoria. July 2003.

Maree,DM

Matemadombo,F, Tanner,CV, Buchner,KM and Maree,DM. "Synthesis of various photosensitizers for use in photodynamic therapy". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Maree,DM and Nyokong,T

Maqanda,WT, Maree,DM and Nyokong,T. "Synthesis and characterization of unsymmetrically substituted phthalocyanines and hemiporphyrazines". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Seotsanyana-Mokhosi,I, Maree,DM and Nyokong,T. "Synthesis of phthalocyanines for photosensitization". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Nyokong,T

Obirai,J and Nyokong,T. "Synthesis and spectrochemical properties of alkoxythiol and alkoxy pyrrole substituted phthalocyanines". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Sehlotho,N and Nyokong,T. "Oxidation of alkanes and alkenes". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Watkins,GM

Watkins,GM and Lamprecht,E. "A thermal spectroscopic and Xray powder diffraction investigation of copper(II) complexes of 1,2,4, 5-benzenetetracarboxylic acid". *Carman Conference/SASTA10*. University of Port Elizabeth, Port Elizabeth. September 2003.

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

ii. International Conferences (Outside South Africa)

Brown,ME

Brown,ME. "Stock-taking in the Kinetics Cupboard". *North American Thermal Analysis Society*. Albuquerque. New Mexico. September 2003.

Nyokong,T

Nyokong,T. "Electrochemical sensors based on self-assembled monolayers (SAMs) of phthalocyanines". *Ecole Nationale Supérieure de Chimie de Paris Laboratoire de Pharmacologie Chimique et Genetique*. Paris. France. September 2003.

Nyokong,T. "Sensors based on self-assembled monolayers of phthalocyanines". *54th Annual Meeting of the International Society of Electrochemistry*. Sao Pedro. Brazil. September 2003.

Obirai,J and Nyokong,T. "Using conducting organic polymers as amperometric sensors for molecules of environmental and biological importance". *Southern and Eastern Africa Network of Analytical Chemists (SEANAC) Conference*. Gaborone. Botswana. July 2003.

Sehlotho,N and Nyokong,T. "Gas chromatography analysis of cyclic paraffins and olefins". *Southern and Eastern Africa Network of Analytical Chemists (SEANAC) Conference*. Gaborone. Botswana. July 2003.

Obirai,J and Nyokong,T

Obirai,J and Nyokong,T. "Electrochemical characterization of pyrrole substituted phthalocyanines". *54th Annual Meeting of the International Society of Electrochemistry*. Sao Pedro. Brazil. September 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Kaye,PT

Kaye,PT. Lecture. "*Camphor-derived Chiral Auxiliaries in Asymmetric Synthesis*". University of York. York, United Kingdom. September 2003.

Kaye,PT. Lecture. "*Design, Synthesis and Evaluation of Novel Metal-Selective Ligand Systems*". University of St Andrews. St Andrews, United Kingdom. September 2003.

Kaye,PT. Lecture. "*Through the Looking Glass - Confronting Chirality in Synthesis*". Frank Warren Memorial Lecture. University of Cape Town. Cape town. October 2003.

Nyokong,T

Nyokong,T. Lecture. "*Derivatized phthalocyanine molecules for photocatalytic and electrocatalytic applications*". University of Santiago. Santiago, Chile. November 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Kaye,PT

Kaye,PT. Oxford University, Oxford, United Kingdom. Research (Sabbatical). 1 June - 30 October 2003.

Nyokong,T

Nyokong,T. Ecole Nationale Supérieure de Chimie de Paris (Paris 6), Paris, France. Research (Sabbatical). 8 September - 3 October 2003.

Nyokong,T. University of Santiago, Santiago, Chile. Research (Sabbatical). 4 - 12 November 2003.

DISTINGUISHED VISITORS

Dr F Bedioui. CNRS, Paris, France. Seminar. April 2003.

Professor A Berkessel. Institut fur Organische Chemie der Universitat ze Koln, Koln, Germany. Lecture. August 2003.

Professor Chen. Fundan University, Shanghai China. Research. June-August 2003.

Professor O Kaliya. Organic Intermediates and Dyes Institute, Moscow, Russia. Lecture. October 2003.

Professor H Marques. University of the Witwatersrand, Johannesburg. Lecture. May 2003.

Professor O Mimkes. Institut fur Organische Chemie der Universitat ze Koln, Koln, Germany. Lecture. March 2003.

Ms N Pereira Rodrigues. CNRS, Paris, France. Research. March - April 2003.

SUBSIDY UNITS CLAIMED

CHEMISTRY	UNITS	IN PRESS	NON SAPSE
Brown,ME			
<i>Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on the Sodium Salts of Aminosalicylic Acids". Journal of Thermal Analysis and Calorimetry. 2003. 73,499-508.</i>	0.67		
<i>Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on Mixtures of Benzoic and Salicylic Acids with Cyclodextrins". Journal of Thermal Analysis and Calorimetry. 2003. 73,671-686.</i>	0.67		
<i>Rotich,MK, Brown,ME and Glass,BD. "Thermal Studies on Mixtures of Aminosalicylic Acids with Cyclodextrins". Journal of Thermal Analysis and Calorimetry. 2003. 73,687-706.</i>	0.67		
Daubinet,A and Kaye,PT			
<i>Daubinet,A and Kaye,PT. "Designer Ligands. Part 11. Electron-Impact Mass Spectrometric Studies of Polydentate Malonamide-derived Ligands". Journal of Organic Chemistry (Arkivoc). 2003. 93-104.</i>	1.00		
Davies-Coleman,MT			
<i>Sammai,T, Gibbons,MJ, Kelly,M and Davies-Coleman,MT. "South African Latrunculiidae (Porifera: Demospongia: Poeciloscerida): Description of new Species of <i>Latrunculia</i> du Bocage, <i>Strongylodesma</i> Levi, and <i>Tsitsikamma</i> Samaai and Kelly". Zootaxa. 2003. 371,1-26.</i>	0.25		Y
Davies-Coleman,MT and Gray,CA			
<i>Davies-Coleman,MT, Dzeha,TM, Gray,CA, Hess,S, Pannell,LK, Hendricks,DT and Arendse,CE. "Isolation of Homodolastatin 16, A New Cyclic Depsipeptide from a Kenyan Collection of <i>Lungbya majuscula</i>". Journal of Natural Products. 2003. 66,712-715.</i>	0.43		
Gray,CA and Davies-Coleman,MT			
<i>Gray,CA, Davies-Coleman,MT, Caira,M, Nathanson,C and Wisch,GA. "The X-Ray Crystal Structures of Ambraketol and 8 Epi -Ambraketol". Journal of Chemical Research (S). 2003. 405-407.</i>	0.80		
Gray,CA and Kaye,PT			
<i>Gray,CA, Kaye,PT and Nchinda,AT. "Chromone Studies. Part 13. Synthesis and Electron-Impact Mass Spectrometric Studies of 5-Hydroxy-2- isopropyl-7-methoxychromone, a Constituent of the Medicinal Plant". Journal of Natural Products. 2003. 66,1144-1146.</i>	1.00		
Gray,CA, Davies-Coleman,MT and Rivett,DEA			
<i>Gray,CA, Davies-Coleman,MT and Rivett,DEA. "An Improved Synthesis of Rhinocerotinoic Acid". Tetrahedron. 2003. 59,165-173.</i>	1.00		
Gray,CA, Rivett,DEA and Davies-Coleman,MT			

Gray,CA, Rivett,DEA and Davies-Coleman,MT. "The Absolute Stereochemistry of a Diterpene from <i>Ballota aucheri</i> ". <i>Phytochemistry</i> . 2003. 63,409-413.	1.00		
Kaye,PT			
Kaye,PT and Musa,MA. "Application of Baylis-Hillman Methodology in the Synthesis of Coumarin Derivatives". <i>Synthetic Communications</i> . 2003. 33(10),1755-1770.	1.00		
Kaye,PT, Musa,MA and Nocanda,XW. "Efficient and Chemoselective Access to 3-(Chloromethyl)coumarins via Direct Cyclisation of Unprotected Baylis-Hillman Adducts". <i>Synthesis (Journal of Synthetic Organic Chemistry)</i> . 2003. (4),531-534.	1.00		
Kaye,PT, Musa,MA, Nocanda,XN and Robinson,RS. "Does the DABCO-Catalysed Reaction of o-Hydroxybenzaldehydes with Activated Alkenes Follow a Baylis-Hillman Pathway?". <i>Organic and Biomolecular Chemistry</i> . 2003. 1,1133-1138.	1.00		
Kaye,PT, Nchinda,AT, Sabbagh,LV and Bacsa,J. "Chromone Studies. Part 14. Unprecedented dimerisation of chromone-3-carbaldehyde-derived Baylis-Hillman adducts". <i>Journal of Chemical Research (S)</i> . 2003. 111-113.	1.00		
Kaye,PT and Ramaite,IDI. "Chromone Studies. Part 12. Fragmentation Patterns in the Electron Impact Mass Spectra of 2-(N,N-Dialkylamino)4-H-benzopyran-4-ones and 4H-naphthopyran-4-ones". <i>South African Journal of Chemistry</i> . 2003. 56,25-29.	1.00		
Kaye,PT and Tshikhudo,TR. "Designer Ligands. Part 10. Novel Ni(II)-Selective Ligands and Use in the Construction of Molecularly Imprinted Polymers". <i>Journal of Chemical Research (S)</i> . 2003. 179-181.	1.00		
Lobb,KA and Kaye,PT. "Crystallographic Analysis and Structural Revision of a Spiroterpenoid Rearrangement Product". <i>South African Journal of Chemistry</i> . 2003. 56,60-62.	1.00		
Maree,DM and Nyokong,T			
Ogunsipe,AO, Maree,DM and Nyokong,T. "Solvent effects on the photochemical and fluorescence properties of zinc phthalocyanine derivatives". <i>Journal of Molecular Structure</i> . 2003. 650,131-140.	1.00		
Maree,SE, Maree,DM and Nyokong,T			
Seotsanyana-Mokhosi,I, Maree,SE, Maree,DM and Nyokong,T. "Photochemical studies of binuclear phenoxysubstituted phthalocyanines containing catecholate bridges". <i>Journal of Porphyrins and Phthalocyanines</i> . 2003. 7,167-175.	1.00		
Tau,P, Ogunsipe,AO, Maree,SE, Maree,DM and Nyokong,T. "Influence of cyclodextrins on the fluorescence, photostability and singlet oxygen quantum yields of zinc phthalocyanine and naphthalocyanine complexes". <i>Journal of Porphyrins and Phthalocyanines</i> . 2003. 7,439-446.	1.00		
McPhail,K and Nyokong,T			
Anoopkumar-Dukie,S, Lack,B, McPhail,K, Lambat,Z, Maharaj,D, Nyokong,T and Daya,S. "Indomethacin reduces lipid peroxidation in rat brain homogenate by binding Fe ²⁺ ". <i>Metabolic Brain Disease</i> . 2003. 18(1),1-9.	0.43		
Nyokong,T			
Nyokong,T and Vilakazi,S. "Phthalocyanines and related complexes as electrocatalysts for the detection of nitric oxide". <i>Talanta</i> . 2003. 61,27-35.	1.00		
Obirai,J, Rodrigues,NP, Bedioui,F and Nyokong,T. "Synthesis, spectral and electrochemical properties of a new family of pyrrole substituted cobalt, iron, manganese, nickel and zinc phthalocyanine complexes". <i>Journal of Porphyrins and Phthalocyanines</i> . 2003. 7,508-520.	0.50		
Ozoemena,K and Nyokong,T. "Synthesis, electrochemical and photochemical properties of octasubstituted thiol-derivatised zinc phthalocyanines". <i>Inorganic Chemistry Communications</i> . 2003.	1.00		

6,1192-1195.			
<i>Ozoemena, K and Nyokong, T.</i> "Electrochemical Behaviour of thio l-derivatized zinc(II) phthalocyanine complexes and their self-immobilized films at gold electrodes". <i>Microchemical Journal</i> . 2003. 75,241-247.	1.00		
<i>Ozoemena, K, Nyokong, T and Westbrook, P.</i> "Self-Assembled Monolayers of Cobalt and Iron Phthalocyanine Complexes on Gold Electrodes: Comparative Surface Electrochemistry and Electrocatalytic Interaction with Thiols and Thiocyanate". <i>Electroanalysis</i> . 2003. 15(22),1762-1770.	0.67		
Westbroek, P and Nyokong, T			
<i>Oni, J, Westbrook, P and Nyokong, T.</i> "Electrochemical behaviour and detection of dopamine and ascorbic acid at an iron(II) tetrasulfophthalocyanine modified carbon paste ultra-micro electrode". <i>Electroanalysis</i> . 2003. 15(10),847-854.	1.00		
TOTAL FOR CHEMISTRY	23.09		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.25		

COMPUTER SCIENCE

The primary research project in Computer Science continues to be the Centre of Excellence in Distributed Multimedia, funded by Telkom, Comparex Africa, Letlapa Mobile Solutions, and THRIP. Additional funded research awards were received in 2003 from Microsoft Research in Cambridge for a Bluetooth embedded systems project, and from Yamaha in Japan for the joint development of MLAN.

Two PhD students, sixteen masters students, and twenty honours students worked on the range of research projects in Computer Science in 2003. The numbers of students who completed their degrees at the end of the 2003 academic year were six masters and nineteen honours.

Of particular note were the efforts in the field of VoIP, where a softswitch PABX facility was completed, and tested live in December through an ISDN gateway in a service for students to phone in and pick up their examination results. An Alpha version will be deployed in a university residence situation in 2004 for further testing, and will undergo deployment testing at the Telkom research laboratories. A further area of note is the development of IEEE1394 MLAN devices, where the work of MSc student Harald Okai-Tetty was of a quality to be upgraded to PhD status. A third notable project achievement has been the gesture recognition system of Professor Peter Wentworth and his student group, which allows mouse control of a computer from behind a sheet of safety glass. The system is under test in areas where street children and emerging entrepreneurs can use it for accessing information.

On the publication side, 1 paper was published in a Journal, 5 at International conferences, 8 at SATNAC 2003, 4 at Afrigraph 2003, and 5 in other forums.

Professor Peter Clayton received recognition for his overall contribution to science and technology in South Africa as the recipient of a National Science and Technology Forum award. Professor Clayton was also appointed to the State President's working group for the formation of an Advanced Institute for Information and Communication Technology. New staff appointee, Mr Barry Irwin, was awarded his CISSP (Certified Information Systems Security Professional) certification soon after joining Rhodes University. He is one of a handful of certified network security professionals in South Africa.

A number of international visitors visited the Department of Computer Science in 2003, including Dr. Dennis Riordan from Dalhousie University, Canada, Mr. Kamil Kulesza from the Institute of Fundamental Technological Research at the Polish Academy of Sciences, and Professor Dyke Stiles, of Utah State University in the U.S.A.

In 2003, Rhodes continued to collaborate with the Department of Computer Science at the University of Fort Hare in a research capacity development initiative, offering several courses, partially in attendance and partially via videoconferencing. Some postgraduate students from Rhodes were involved in the setting up and maintenance of equipment at Fort Hare.

PROFESSOR G.WELLS
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Clayton,PG and Wells,GC

Preston, RM, Clayton, PG and Wells, GC. "Dynamic run-time application development using CORBA Objects and XML in the field of Distributed GIS". International Journal of Geographical Information Science. 2003. 17(4),321-341.

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

i. Local Conferences (Within South Africa)

Bangay, S

Patrick, D and Bangay, S. "A lightweight 3D plug-in for modeling long hair on virtual humans". afrigraph 2003 - 2nd International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. February 2003. ISBN:1-58113-643-9. 161-166.

Winnemöller, H and Bangay, S. "Rendering optimisations for stylised sketching". afrigraph 2003 - 2nd International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa. Cape Town. February 2003. ISBN:1-58113-643-9. 117-122.

Zaniewski,T and Bangay,S. "Simulation and visualization of fire using extended lindenmayer systems". *afrigraph 2003 - 2nd International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa*. Cape Town. February 2003. ISBN:1-58113-643-9. 39-47.

Bangay,S and Wentworth,P

Chadwick,J, Bangay,S and Wentworth,P. "A digital watermarking scheme for Bezier surfaces". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Clayton,PG

Clayton,PG. "Government Funded ICT Reseach Institutes - International Best Practices". *Workshop of the AIICT*. Silver Spring, Magaliesberg. May 2003.

Gordon,R and Clayton,PG. "Real-time web-based control of scattered media stations". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Jacobs,A and Clayton,PG. "Investigating Call Control using MGCP". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Mackie,D and Clayton,PG. "Analysis of Power Line Communications in Conjunction with ADSL as a Rapid Deployment Package". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Zhao,X and Clayton,PG. "A comparative Analysis of Java and.NET Mobile Development Environments for Supporting Mobile Services". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Foss,RJ

Sieborger,D and Foss,RJ. "Concurrent Control of IEEE-1394 Devices Using Universal Plug and Play and Audio Video Control Protocols". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Foster,G

Webber,B and Foster,G. "Developing a Mobile Web Application and Enhancing its Usability". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Irwin,B

Chlorin,R, Irwin,B and Sieborger,D. "User Network Quotas". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Klinkradt,B

Wakeford,G and Klinkradt,B. "Partitioning & Path Tracking Across a Wireless Network". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Lobb,A and Bangay,S

Lobb,A and Bangay,S. "Realistic autonomous fish for virtual reality". *afrigraph 2003 - 2nd International Conference on Computer Graphics, Virtual Reality, Visualisation and Interaction in Africa*. Cape Town. February 2003. ISBN:1-58113-643-9. 167-170.

Terzoli,A

Penton,J and Terzoli,A. "Asterisk: A Converged TDM and Packet-based Communication System". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Swales,D, Sewry,DA and Terzoli,A. "A Performance Comparison of Web Development Technologies to Distribute Mutlimedia across an Intranet". *South African Telecommunications and Network Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Whittington,B, Halse,G and Terzoli,A. "Wireless Bridge for Centrally Controlled Wifi LAN". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003.

Wells,GC and Clayton,PG

Parry,D, Wells,GC and Clayton,PG. "A Dynamic, Runtime-Extensible, Client-Managed Service Framework". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

Wentworth,P

Wentworth,P. "The Internet - Whose Line is it, Anyway?". *SASOL SciFest*. Monument, Grahamstown. April 2003. Keynote series.

Wentworth,P. "ADO and the Data Access Model". *Microsoft Academic Conference*. International Convention Centre, Cape Town. November 2003.

Ndlangisa,M and Wentworth,P. "DRUBIS: Distributed XML Driven Biometric Identification System". *Southern Africa Telecommunication Networks and Applications Conference (SATNAC) 2003*. Fancourt, George. September 2003. ISBN 0-620-30949-0.

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

Clayton,PG, Preston,RM and Wells,GC. "Implementing Location Services in the location-transparent, distributed environment of the Internet.". *PDPTA '03 (Parallel & Distributed Processing, Techniques, & Applications)*. Monte Carlo Resort, Las Vegas. USA. June 2003. ISBN: 1-892512-40-8.

Foss,RJ

Fujimori,J and Foss,RJ. "New Connection Management Architecture for the Next Generation of mLAN". *AES 114th Audio Engineering Society Convention*. Amsterdam. Netherlands. March 2003. Paper 5784.

Foss,RJ, Klinkradt,B and Bangay,S

Fujimori,J, Foss,RJ, Klinkradt,B and Bangay,S. "An mLAN Connection Management Server for Web-Based, Multi-User, Audio Device Patching". *AES 115th Audio Engineering Society Convention*. New York. USA. October 2003. Paper 5873.

Klinkradt,B and Foss,RJ

Klinkradt,B and Foss,RJ. "A Comparative Study of mLAN and CobraNet Technologies and their Use in the Sound Installation Industry". *AES 114th Audio Engineering Society Convention*. Amsterdam. Netherlands. March 2003. Paper 5785.

Wentworth,P

Wentworth,P. "SharperCv - C meets OpenCV". *ROTOR RFP Final Workshop*. Microsoft Campus, Redmond. USA. September 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Clayton,PG**

Clayton,PG. Utah State University, Logan, USA. Joint Research Collaboration. 19 - 23 June 2003.

Foss,RJ

Foss,RJ. Audio Engineering Society, Amsterdam, Netherlands. Workshop & Standards Discussion. March 2003.

Foss,RJ. Audio Engineering Society, New York, USA. Workshop & Standards Discussion. October 2003.

Terry,PD

Terry,PD. Queensland University of Technology, Brisbane, Australia. Collaboration with Professor John Gough on Compiler Construction. 1 October 2003 - 15 January 2004.

Wentworth,P

Wentworth,P. Microsoft Research, Seattle, USA. Microsoft Embedded DevCon. June 2003.

Wentworth,P. University of Bohemia, Pilzen, Czech Republic. Microsoft.NET Special Application and Winter Graphics Symposium. June 2003.

DISTINGUISHED VISITORS

Dr K Kulesza. Poland Institute of Technology, Warsaw. Sabbatical Visit, Joint Research & Postgraduate Seminars. January and February 2003.

Professor D Riordan. Dalhousie University, Halifax. Sabbatical Visit, Joint Research & Postgraduate Seminars. March 2003.

Professor D Stiles. Utah State University, Utah. Sabbatical Visit, Joint Research & Postgraduate Seminars. December 2003.

SUBSIDY UNITS CLAIMED

COMPUTER SCIENCE	UNITS	IN PRESS	NON SAPSE
TOTAL FOR COMPUTER SCIENCE	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

DRAMA

The Rhodes University Drama Department is regarded as a leader in the realm of theatre making, innovation and collaboration. This impacts on the research outputs of staff and leads to research investigations across a diverse realm of theatre contexts : academic, artistic, community, educational and professional.

The department hosts both a resident dance and drama company : The First Physical Theatre Company and Ubom! Eastern Cape Drama Company. Besides the normal avenues of research, these companies provide opportunities for theoretical, educational and developmental investigations as well as creative investigations into the creation, realisation and performing of theatre.

The companies were profiled at the Amahlati Arts Festival (Stutterheim), the FNB Dance Umbrella, the Hilton Arts Festival, the Knysna Arts Festival, and the National Arts Festival in Grahamstown. Performances were also presented at major venues in Cape Town, East London, Johannesburg and Port Elizabeth. These companies also participated in the National Schools' Festival in Grahamstown and in the Eastern Cape, the Free State, Gauteng, Mpumalanga and North West.

International initiatives featured highly in this year's activities. Professor Andrew Buckland performed and taught in Canada and New York. Professor Reza de Wet had two overseas productions of her plays – one in Sydney, and another in London. *The Brothers*, a play by Professor de Wet, was translated into Dutch by Vink publishers.

Clare Baker from the internationally acclaimed London-based dance centre Laban, performed for First Physical at the National Arts Festival. She taught improvisation, choreography and contemporary dance within the department. Paige Newmark, an Oxford scholar and specialist in Shakespearean productions, directed *Twelfth Night*.

Staff member Alex Sutherland devised a street theatre event as a collaboration between Ubom! and Exolweni Shelter for street children. She was invited to the *Performing the World* conference in New York to present a paper on the use of drama with young people at risk.

11 Honours students will be graduating in April 2004, five of them with distinctions. An External Examiner commented on the ability of staff "to challenge their students, to produce work that is considered, masterfully executed, and in the vanguard of contemporary performance in South Africa". A Honours graduate won an MA scholarship to study classical acting at the London-based Central School of Speech and Drama. Another two graduates were awarded three-year graduate scholarships to study theatre design at Tulane University, New Orleans. A MA scholar in the department was awarded three scholarships : Rhodes University Postgraduate Scholarship, Bradlow Foundation Scholarship, and the HB Webb.

PROFESSOR A. BUCKLAND
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

de Wet,R

de Wet,R. *The Brothers*. Anton en Alexander & translated into Dutch by Theo Holgsteder(eds) Vink. Holland. 2003.

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

ii. International Conferences (Outside South Africa)

Sutherland,A

Sutherland,A. "Performing the street: Performance as voice for street children". *Performing the world 2*. Montuak, New York. USA. October 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Buckland,AF

Buckland,AF. Performer/creator. "*The Well Being*". Theatre performance. The Prairie Theatre. Winnipeg, Canada. January 2003.

Buckland,AF. Performer/creator. "*The Well Being*". Theatre performance. Minor Latham Playhouse. New York, USA. 7 - 9 February 2003.

Buckland,AF. Director. *"The Kitchen"*. Graduation Production. RU Theatre. Grahamstown. 2 - 5 April 2003.

Buckland,AF. Director. *"The Kitchen"*. Graduation Production. RU Theatre. Grahamstown. 11 - 12 April 2003.

Buckland,AF. Performer/creator. *"Balls"*. Dance 2003. RU Theatre. Grahamstown. 1 - 3 May 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. National Arts Festival 2003. Glennie Hall. Grahamstown. 27 - 30 June 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. National Arts Festival 2003. Glennie Hall. Grahamstown. 1 - 5 July 2003.

Buckland,AF. Performer/creator. *"The Well Being"*. National Arts Festival 2003. Drill Hall. Grahamstown. July 2003.

Buckland,AF. Performer/creator. *"Feedback"*. National Arts Festival 2003. Drill Hall. Grahamstown. 8 - 12 July 2003.

Buckland,AF. Performer/creator. *"The Well Being"*. Amahlathi Festival. Stutterheim Theatre. Stutterheim. 10 - 11 September 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. Theatre Performance. RU Theatre. Grahamstown. 26 - 27 September 2003.

Buckland,AF. Choreographer. *"Ritual Slaughter has Gone Out of Fashion"*. Dance Mime Theatre 2003. RU Theatre. Grahamstown. 22 - 25 October 2003.

Buckland,AF. Choreographer. *"Chain Mail"*. Dance Mime Theatre 2003. RU Theatre. Grahamstown. 22 - 25 October 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. Theatre Performance. Guild Theatre. East London. 27 - 29 October 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. Theatre performance. Hilton. 25 - 30 November 2003.

Buckland,AF. Creator/choreographer. *"Plunge"*. Theatre Performance. Baxter Theatre. Cape Town. 25 - 30 November 2003.

Buckland,AF. Performer/creator. *"The Well Being"*. Theatre Performance. Baxter Theatre. Cape Town. 27 November - 13 December 2003.

De Wet,R

De Wet,R. Director/playwright. *"Notes for the Curious"*. Dance Mime Theatre 2003. RU Theatre. Grahamstown. 21 - 24 May 2003.

De Wet,R. Director/playwright. *"African Gothic"*. Theatre performance. New Theatre. Sydney, Australia. 23 October - 31 March 2004.

Finestone-Praeg,J

Finestone-Praeg,J. Workshop leader. *"FNB Vita Choreography residency"*. Dance Umbrella 2003. Johannesburg. 4 - 5 March 2003.

Finestone-Praeg,J. Choreographer. *"This beautiful house is unmade"*. FNB vita Dance Umbrella. Wits Theatre. Johannesburg. 4 - 5 March 2003.

Finestone-Praeg,J. Choreographer. *"This beautiful house is unmade"*. Performance. RU Theatre. Grahamstown. 7 - 8 March 2003.

Finestone-Praeg,J. Choreographer. *"This beautiful house is unmade"*. Performance. Opera House. Port Elizabeth. 24 - 26 April 2003.

Finestone-Praeg,J. Choreographer. *"This beautiful house is unmade"*. Performance. Guild Theatre. East London. 6 - 8 May 2003.

Finestone-Praeg, J. Performer. *"Consolation (just think how lucky you are)"*. Carinus Art Centre. Grahamstown. 27 June - 5 July 2003.

Finestone-Praeg, J. Performer. *"Shattered Windows"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Finestone-Praeg, J. Performer. *"Travellers V"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Finestone-Praeg, J. Performer. *"Money"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Finestone-Praeg, J. Performer. *"Shattered Windows"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Finestone-Praeg, J. Performer. *"Money"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Finestone-Praeg, J. Performer. *"Travellers V"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Finestone-Praeg, J. Co-choreographer. *"Moments from this place"*. Stutterheim Arts Festival. Stutterheim Theatre. Stutterheim. 2 - 3 August 2003.

Finestone-Praeg, J. Choreographer. *"I have danced with the spider..."*. Dance Mime Theatre 2003. RU Theatre. Grahamstown. 22 - 25 October 2003.

Gordon, GE

Gordon, GE. Choreographer. *"This beautiful house is unmade"*. FNB vita Dance Umbrella. Wits Theatre. Johannesburg. 4 - 5 March 2003.

Gordon, GE. Performer. *"This beautiful house is unmade"*. FNB vita Dance Umbrella. Wits Theatre. Johannesburg. 4 - 5 March 2003.

Gordon, GE. Choreographer. *"This beautiful house is unmade"*. Performance. RU Theatre. Grahamstown. 7 - 8 March 2003.

Gordon, GE. Performer. *"This beautiful house is unmade"*. Performance. RU Theatre. Grahamstown. 7 - 8 March 2003.

Gordon, GE. Choreographer. *"This beautiful house is unmade"*. Performance. Opera House. Port Elizabeth. 24 - 26 April 2003.

Gordon, GE. Performer. *"This beautiful house is unmade"*. Performance. Opera House. Port Elizabeth. 24 - 26 April 2003.

Gordon, GE. Performer. *"This beautiful house is unmade"*. Performance. Guild Theatre. East London. 6 - 8 May 2003.

Gordon, GE. Choreographer. *"This beautiful house is unmade"*. Performance. Guild Theatre. East London. 6 - 8 May 2003.

Gordon, GE. Performer. *"Surround Her with Water: An Epiphany"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon, GE. Choreographer. *"Shattered Windows"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon, GE. Performer. *"Travellers V"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon, GE. Choreographer. *"Money"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon, GE. Choreographer. *"Travellers V"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon, GE. Choreographer. *"Surround Her with Water: An Epiphany"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon,GE. Choreographer. *"On the Light Side of the Moon"*. National Arts Festival 2003. Box Theatre. Grahamstown. 27 - 29 June 2003.

Gordon,GE. Choreographer. *"On the Light Side of the Moon"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Choreographer. *"Money"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Choreographer. *"Shattered Windows"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Performer. *"Surround Her with Water: An Epiphany"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Choreographer. *"Travellers V"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Choreographer. *"Surround Her with Water: An Epiphany"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Performer. *"Travellers V"*. National Schools Festival 2003. Box Theatre. Grahamstown. 29 June 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Stutterheim Arts Festival. Stutterheim Theatre. Stutterheim. 23 August 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Stutterheim Arts Festival. Stutterheim Theatre. Stutterheim. 23 August 2003.

Gordon,GE. Performer. *"Money"*. Stutterheim Arts Festival. Stutterheim Theatre. Stutterheim. 23 August 2003.

Gordon,GE. Performer. *"Money"*. Concert Performance. Guild Theatre. East London. 1 - 3 September 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Concert Performance. Guild Theatre. East London. 1 - 3 September 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Concert Performance. Guild Theatre. East London. 1 - 3 September 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Concert Performance. RU Theatre. Grahamstown. 19 - 20 September 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Concert Performance. RU Theatre. Grahamstown. 19 - 20 September 2003.

Gordon,GE. Performer. *"Money"*. Concert Performance. RU Theatre. Grahamstown. 19 - 20 September 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Knysna Arts Festival. Oakhill Theatre. Knysna. 2 - 4 October 2003.

Gordon,GE. Performer. *"Money"*. Knysna Arts Festival. Oakhill Theatre. Knysna. 2 - 4 October 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Knysna Arts Festival. Oakhill Theatre. Knysna. 2 - 4 October 2003.

Gordon,GE. Performer. *"Money"*. Concert Performance. UCT Studio Theatre. Cape Town. 10 - 11 October 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Concert Performance. UCT Studio Theatre. Cape Town. 10 - 11 October 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Concert Performance. UCT Studio Theatre. Cape Town. 10 - 11 October 2003.

Gordon,GE. Choreographer. *"Three tales from unfolding the skin"*. Dance Mime Theatre 2003. RU Theatre. Grahamstown. 22 - 25 October 2003.

Gordon,GE. Performer. *"Toiling to the dance of the sun"*. Concert Performance. Barn Theatre. Port Elizabeth. 9 - 11 November 2003.

Gordon,GE. Performer. *"Money"*. Concert Performance. Barn Theatre. Port Elizabeth. 9 - 11 November 2003.

Gordon,GE. Performer. *"Resting in the Trees"*. Concert Performance. Barn Theatre. Port Elizabeth. 9 - 11 November 2003.

Sutherland,A

Sutherland,A. Workshop Leader. *"Workshop for President's Awards AIDS/HIV programme"*. Grahamstown Prison. Grahamstown. 15 March - 15 November 2003.

Sutherland,A. Director. *"The Kitchen"*. Graduation Production. RU Theatre. Grahamstown. 2 - 5 April 2003.

Sutherland,A. Director. *"The Kitchen"*. Graduation Production. RU Theatre. Grahamstown. 11 - 12 April 2003.

Sutherland,A. Workshop Leader. *"National Arts Festival"*. RU Theatre. Grahamstown. 1 - 30 June 2003.

Sutherland,A. Director. *"Small Change"*. National Arts Festival 2003. Drosty Lawn. Grahamstown. 30 June - 5 July 2003.

DISTINGUISHED VISITORS

Ms C Baker. Laban, London, England. Guest Teacher. July 2003.

Mr M Blake. Johannesburg. Composer. June/July 2003.

Mr A Cameron. London, England. Performer. June/July 2003.

Mr M Hlatshwayo. Durban. Performer/Guest Teacher. June/July 2003.

Ms L Holzman. East Side Institute, New York. Guest Lecturer. May 2003.

Ms P Mashigo. Johannesburg. Performer/Guest Teacher. June/July 2003.

Mr G Nelson. London, England. Lighting Designer. March/May & June/July 2003.

Mr P Newmark. Oxford University, Oxford, England. Director - Twelfth Night Production. May - July 2003.

Sontongo Quartet. Cape Town. Performers. June/July 2003.

SUBSIDY UNITS CLAIMED

DRAMA	UNITS	IN PRESS	NON SAPSE
TOTAL FOR DRAMA	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ECONOMICS AND ECONOMIC HISTORY

Professor Brian Dollery, the Hobart Houghton research fellow for 2003 visited the department in January and subsequently published an article on his research undertaken here. Professor Desire Vencatachellum (a former Hobart Houghton fellow) spent his sabbatical at Rhodes and undertook joint research projects with staff, in particular David Fryer.

Research papers were presented by David Fryer at the Trade and Industry Policy Secretariat (TIPS) Conference; Professor Hugo Nel, Jen Snowball and Simon Hess at the Economics Society Conference; Professor Arthur Webb at the Economics History Society Conference and Magdalene Wilson at the African Econometrics Society Conference hosted by the University of Stellenbosch. Simon Hess also presented a paper overseas. Ms Jen Snowball further presented a paper at the Eastern Cape Historical Legacies and New Challenge Conference at the University of Fort Hare, East London. Professor Geoff Antrobus delivered a paper at a Teaching Economics Conference in Auckland, New Zealand.

Professor Nicoli Nattrass from UCT presented the keynote address and opened the honours students conference at which each student presented the results of their research project.

The number of postgraduate students was boosted by the largest ever honours group – 43 students – and the second enrolment of nine candidates for the masters degree in financial markets led by Professor Faure, who holds the Investec Chair in Money, Banking and Finance. There were also 5 masters students by research thesis and 3 PhD students.

PROFESSOR H. NEL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Dollery,B

Dollery,B. "A History of Inequality in South Africa, 1652-2002". *South African Journal of Economics*. 2003. 71(3),595-610.

Dollery,B. "The Decline of the South African Economy". *South African Journal of Economics*. 2003. Volume 71(1),77-95.

OTHER PUBLICATIONS

Cattaneo,N and Fryer,D

Cattaneo,N and Fryer,D. "Intra-versus inter-industry specialisation, labour market adjustment and poverty: Implications for regional integration in Southern Africa". Paper Series(eds) Trade & Industrial Policy Strategies. Johannesburg. 2003. (WP15-2003).

Fryer,D

Fryer,D and Vencatachellum,D. "Returns to education in Machibisa". Paper Series(eds) Development Policy Research Unit. Cape Town. 2003. (<http://www.commerce.uct.ac.za/dpru/WorkingPapers/wpapers.asp>).

Snowball,JD and Antrobus,GG

Snowball,JD and Antrobus,GG. "Art for the Masses? Measuring the Economic and social value of the Grahamstown National Arts Festival to the Town's lower income and education groups". Fort Hare Institute of Social and Economic Research Working Paper Series. Fort Hare Institute of Social and Economic Research. East London. 2003. (WP 23).

Snowball,JD and Antrobus,GG. "Economic valuation of the 2003 Grahamstown National Arts Festival: Economic impact, business and household surveys". *Meditari*. Report for the National Arts Festival Office. Grahamstown. 2003. 1-64.(In Press).

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

i. Local Conferences (Within South Africa)

Fryer,D and Vencatachellum,D

Fryer,D and Vencatachellum,D. "Coordination failure and employment in South Africa". *TIPS/DPRU Conference*. Indaba Hotel, Johannesburg. September 2003.

Hess,SP

Hess,SP. "Polarisation of industry in the SADC Free Trade Area". *The Biennial Conference of the Economic Society of South Africa*. Lord Charles Hotel, Somerset West. September 2003.

Nel,H

Nel,H. "Monetary Policy Transparency in South Africa". *The Biennial Conference of the Economic Society of South Africa*. Lord Charles Hotel, Somerset West. September 2003.

Snowball,JD

Snowball,JD. "Credible contingent valuation: Methodological issues in using willingness to pay to value the non-market benefits of mixed goods". *The Biennial Conference of the Economic Society of South Africa*. Lord Charles Hotel, Somerset West. September 2003. 68.

Snowball,JD and Antrobus,GG

Snowball,JD and Antrobus,GG. "Art for the masses? Measuring the economic and social value of the Grahamstown National Arts festival to the town's lower income and education groups". *The Eastern Cape Historical Legacies and New Challenges Conference*. University of Fort Hare, East London. August 2003.

Wilson,MK

Wilson,MK. "Determinants of Manufactured Exports in Kenya: A Cointegration Analysis". *African Econometric Modelling Conference*. University of Stellenbosch, Stellenbosch. July 2003.

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

ii. International Conferences (Outside South Africa)**Antrobus,GG**

Antrobus,GG. "Making a Silk Purse from a Sow's ear: A case study of teaching Economics to 500 students". *Teaching Economics Conference*. Auckland University of Technology, Auckland. New Zealand. June 2003.

Hess,SP

Hess,SP. "The new economic geography of the SADC Free Trade Area". *The 2nd HWWA Workshop on Current Developments in Regional Research*. HWWA, Hamburg. Germany. November 2003.

Hess,SP. "The new economic geography of the SADC Free Trade Area". *The 2nd International Seminary of Doctoral Students in Regional Integration*. Universite Montesquieu Bordeaux IV, Bordeaux. France. December 2003.

DISTINGUISHED VISITORS

Mr C Barberton. Fiscal Policy Consultant, Cape Town. Lecture. May 2003.

Professor B Dollery. University of New England, Armidale, Australia. Hobart Houghton Fellow. February 2003.

Dr A Donaldson. National Treasury, Johannesburg. Lecture. August 2003.

Dr X Guma. South African Reserve Bank, Pretoria. Lecture. October 2003.

Dr P Hawkins. Financial and Economic Analysis Strategy, Johannesburg. Lecture. April 2003.

Professor D Vencatachellum. University of Montreal, Montreal, Canada. Visiting Professor. January - August 2003.

Professor D Vencatachellum. Montreal University, Montreal Canada. Research Seminar for Honours Students and Staff. March 2003.

SUBSIDY UNITS CLAIMED

ECONOMICS AND ECONOMIC HISTORY	UNITS	IN PRESS	NON SAPSE
Dollery,B			
<i>Dollery,B. "A History of Inequality in South Africa, 1652-2002". South African Journal of Economics. 2003. 71(3),595-610.</i>	1.00		
<i>Dollery,B. "The Decline of the South African Economy".</i>	1.00		

<i>South African Journal of Economics</i> . 2003. Volume 71(1),77-95.			
TOTAL FOR ECONOMICS AND ECONOMIC HISTORY	2.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

EDUCATION (GRAHAMSTOWN)

This is an encouraging report showing a considerable amount of research activity for the year 2003. In general, conference attendance and publications are both stronger than in previous years. It is especially pleasing that a number of chapters in books as well as subsidy earning publications are listed.

An obvious highlight is the contribution of the EE Unit, more specifically Prof Heila Lotz-Sisitka. Her conference attendance, delivery of keynote addresses, editorship of a significant journal and impressive lists of publications is evidence of how she leads from the front in the Unit, and it is not surprising that she is an internationally acclaimed figure in her field.

It is also encouraging to see the growing contribution of the MIST Research Centre. This Centre's re-aligned vision (embracing any research in education rather than the field of Mathematics, Science and ICT only) is already beginning to bear fruit.

It seems that the departmental policy of focusing on research is bearing fruit. The Research Design course (offered twice a year) as well as the Education Development Forum help to keep staff focused on research, and provide powerful platforms for sharing.

The Department realizes the need to approach research work more strategically: this would include seeking more opportunities to co-publish with our large numbers of post-graduate students (already happening on a small scale), and seeking publication in fully accredited journals.

The Department currently has 76 Masters and 12 PhDs on the books. Graduation figures are not finalized yet (a few still need to send in final copies) but it seems likely that there will be 9 M Eds and 3 PhDs graduating this year. If we include the EL May grad this could rise to 14 M Eds.

PROFESSOR H. VAN DER MESCHT
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Euvrard,G

Euvrard,G. "Which model? Beware those who know". In: Du Plooy,P and Westraad, S(eds) *Education and Training: Models for Best Practice*. Delta Foundation/UPE. PE. 2003. 233-235.

Lotz-Sisitka,H

Lotz-Sisitka,H. "Curriculum deliberations amongst adult learners in South African community contexts at Rhodes University". In: Blaze Corcoran,P and Wals, AJ(eds) *Higher Education and the Challenge of Sustainability: Problematics, Promise and Practice*. Kluwer Academic Publishers. Amsterdam. 2003. (In Press).

Southwood,S

Southwood,S. "A Journey Towards Collaboration". In: Peter-Koop,A, Santos-Wagner,V, Breen,P and Begg, S(eds) *Collaboration in Teacher Education*. Kluwer Academic Publishers. Dordrecht, Germany. 2003. 1-22.

Southwood,S. "The challenge to collaborate the process of negotiation". In: *Education and Training: Models of Best Practice*. Delta Foundation/UPE. PE. 2003. 137-142.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Hendricks,M

Hendricks,M. "Classroom talk: 'There are more questions than answers'". *Southern African Linguistics and Applied Language Studies*. 2003. 21(1&2),29-40.

Lupele,J

Lupele,J. "Participatory Materials Development in Rural Zambia". *Southern African Journal of Environmental Education*. 2003. 20,85-96.

Nhamo,G

Nhamo,G. "Waste Management Policy Implementation in South Africa: An emerging stakeholder paradox". *Southern African Journal of Environmental Education*. 2003. 20,39-52.

van der Mescht,H

Robinson,D, *van der Mescht,H* and *Lancaster,JCS*. "Beyond the Ethics of Conduct - Understanding the Ethical Dilemmas of Entrepreneurs". *Meditari*. 2003. 11,113-128.

Wilmot,D

Wilmot,D. "Investigating children's graphic skills: A South African case study". *International Research in Geographical and Environmental Education*. 2002. 11(4),325-340.

Wilmot,D. "The Inception phase of a case study on outcomes-based education assessment policy in the Human and Social Sciences Learning Area of C2005". *South African Journal of Education*. 2003. 23(4),313-318.

OTHER PUBLICATIONS**Lotz-Sisitka,H**

Lotz-Sisitka,H (eds). *Southern African Journal of Environmental Education*. 2003.

Lotz-Sisitka,H, *Obol,C* and *Nhamo,G*. "The policy-in-praxis nexus: Editorial". *Southern African Journal of Environmental Education*. 2003. 20, 5-8.

Nhamo,G

Nhamo,G. "Institutional and Legal Provisions for Environmental Management in Zimbabwe". *African Journal of Environmental Assessment and Management*. 2003. 7, 14-20.

Nhamo,G. "Understanding Environmental Policy Processes: Cases from Africa, by James Keeley and Ian Scoones". *Southern African Journal of Environmental Education*. 2003. 20, 149-157.

O'Donoghue,R

O'Donoghue,R. "Indigenous Knowledge: Towards Learning Materials and Methodologies that Respond to Social Processes of Marginalisation and Appropriation in Eastern Southern Africa". 2003.

Schafer,M

Schafer,M. PhD thesis: The impact of learners' spatial capacity and world views on their spatial conceptualisation: A case study. 2003.

Southwood,S

Southwood,S. "Book review: Challenges of teacher development: An investigation of take-up in South Africa". *African Journal of Research in Mathematics, Science and Technology Education*. Rogan, J(eds) SAARMSTE. SA. 2002. 6, 113-115.

Van der Mescht,H

Stones,C and *Van der Mescht,H* (eds). *The Indo-Pacific Journal of Phenomenology*. RU (Web publication). 2003.

Wilmot,D

Wilmot,D. "Book Review of Fieldwork in Geography: Reflections, Perspectives and Actions". *International Research in Geographical and Environmental Education*. Lidstone, J(eds) Channel View. Clevedon, England. 2002. 11(3), 302-304.

Wilmot,D. "The skills children utilise when encoding and decoding spatial information about the environment: A case study". *Catling,S* and *Martin, F*(eds) *Researching Primary Geography*. The Register of Primary Geography. London. 2003. (In Press).

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

Burt,J. "Let this space work for you". *Mini-Conference on Environmental Education Research in Southern Africa*. September 2003.

Lotz-Sisitka,H

Lotz-Sisitka,H. "Environmental Education in southern Africa: An overview of processes, issues and challenges". *Education for a Sustainable Future: Commitment, Action & Partnerships*. September 2002.

Lotz-Sisitka,H, Price,L, Burt,J and Neluchani,E. "An exploration of educational knowledge in socio-ecological context: Considering a social epistemology for environmental education research?". *Kenton/Saches Conference*. Oct-Nov 2003.

Lotz-Sisitka,H and Raven,G. "Learning through cases: Adopting a nested approach to case study work in the Gold Fields participatory course initiative". *Mini-Conference on Environmental Education Research in Southern Africa*. September 2003.

Murray,SR

Murray,SR. "Curriculum 2005 and the RNCS: Implications for teaching and research in the field of African languages". *Biennial Conference of African Language Association of SA*. July 2003.

Ngcoza,K

Ngcoza,K. "Participatory action research: A catalyst for reflexive practice". *Kenton/Saches Conference*. Oct-Nov 2003.

Ngcoza,K and Maselwa,M. "'Hands-on', 'minds-on' and 'words-on' practical activities in electrostatics: Towards conceptual understanding". *SMTE Conference*. January 2003.

Ngcoza,K and Maselwa,M. "Changing Gears and Rewiring the Mind: Towards Conceptual Understanding in Science". *SAASTE Conference*. July 2003.

Ngcoza,K and Maselwa,M. "Voices of science teachers and learners about SASOL SciFEST: From 'spectators' to players in science communication". *PCST Conference*. December 2002.

O'Donoghue,R

O'Donoghue,R. "A review of emerging perspectives on learning, skills development and training in park and neighbouring community settings". *World Parks Conference*. 2003.

O'Donoghue,R and Russo,V. "Environmental education and professional development: A review of methods and materials in/as developing patterns of practice in a southern African context". *Mini-Conference on Environmental Education Research in Southern Africa*. September 2003.

Schafer,M

Schafer,M. "Access to meaningful mathematics education in South Africa: A myth?". 2003.

Smith,CO

Pearse,NJ and Smith,CO. "An organisational social capital perspective of leader succession in churches". *Sixth Annual Conference of the Society for Industrial & Organisational Psychology of SA*. June 2003.

Pearse,NJ and Smith,CO. "The origin and development of grounded theory and its use in management research". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference*. University of Potchefstroom, Potchefstroom. September 2003.

Southwood,S

Southwood,S. "Marketing the essence: A passionate strategy". *SMTE - Science, Mathematics and Technology Education*. January 2003.

Stevens,A

Stevens,A. "Technology and the FET". *Annual Conference of the Technology Association*. Bergvliet, Cape Town. September 2003. 20-23.

Wilmot,D

Wilmot,D. "What teachers do when dealing with change: The Inception phase of a longitudinal case study". *Proceedings of the Regional Conference of the International Geographic Union (IGU) and Commission on Geographical Education (CGE)*. August 2002.

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

ii. International Conferences (Outside South Africa)

Irwin,P and Lotz-Sisitka,H

Irwin,P and Lotz-Sisitka,H. "Forming Partnerships: Insights from southern Africa". *Botanic Gardens Congress International*. Sydney. Australia. October 2002. 1-5.

Lotz-Sisitka,H

Lotz-Sisitka,H. "Introducing 'sustainability' in environmental education initiatives in South Africa: Two case stories". *Sixth UNESCO/Japan Seminar on Environmental Education in the Asian Pacific Region: 'Environmental Education and Sustainable Development'*. March 2003. 139-140.

Lotz-Sisitka,H. "Social science as a form of social praxis? A review of a selection of environmental education research in southern Africa". *First World Congress on Environmental Education*. May 2003.

Lotz-Sisitka,H. "EEASA and the emerging field of environmental education in southern Africa: Towards participation in the UN Decade of Education for Sustainable Development". *EEASA 21 Conference*. June 2003.

Lotz-Sisitka,H. "Education for Sustainable Development and change: Some case examples from southern Africa". *GASAT (Gender Science and Technology) 11th Conference*. July 2003.

O'Donoghue,R

O'Donoghue,R. "Cholera in KwaZulu Natal: Uncovering blind spots in taken for granted institutional perspectives". *7th Invitational Environmental Education Research Seminar*,. November 2003.

Southwood,S

Southwood,S. "Collaborative Development: Characteristics, complexities, challenges and contexts". *SAARMSTE Southern African Association for Research in Mathematics*. January 2003. 664-672.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Ngcoza,K

Ngcoza,K. Presenter. "*Participatory Action Research*". Research Design Course, Education Department. 19 - 20 May 2003.

Ngcoza,K. Presenter. "*Participatory Action Research*". Research Design Course, Education Department. August 2003.

Ngcoza,K. Presenter. "*Participatory Action Research Workshop*". AMESA. 7 September 2003.

Schafer,M

Schafer,M. Facilitator/lecturer. "*Working with Pythagoras*". National Science Fest. 1 - 2 April 2003.

Smith,CO

Smith,CO. Facilitator. "*Future Search*". Seminar. August 2003.

Smith,CO. Facilitator. "*OD Introduction*". Workshop. 1 November - 31 December 2003.

Stevens,A

Stevens,A. Presenter. "*Water Rocket Technology*". 26 - 28 March 2003.

Stevens,A. Presenter. "*Chocolate Technology*". 21 - 24 August 2003.

Van der Mescht,H

Van der Mescht,H. Coordinator and 'weaver'. "*Research Design Course, Education Department*". 18 - 22 May 2003.

Van der Mescht,H. Presenter. "*Interviewing*". Research Design Course, Education Department. 23 August 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Ngcoza,K

Ngcoza,K. Monell Chemical Senses Center, Philadelphia, USA. 2003.

Schafer,M

Schafer,M. Odense Seminarium Denmark, Odense, Denmark. Research - world view. 1 - 20 September 2003.

SUBSIDY UNITS CLAIMED

EDUCATION	UNITS	IN PRESS	NON SAPSE
Hendricks,M			
<i>Hendricks,M.</i> "Classroom talk: "There are more questions than answers"". <i>Southern African Linguistics and Applied Language Studies.</i> 2003. 21(1&2),29-40.	1.00		
Lupele,J			
<i>Lupele,J.</i> "Participatory Materials Development in Rural Zambia". <i>Southern African Journal of Environmental Education.</i> 2003. 20,85-96.	1.00		
Nhamo,G			
<i>Nhamo,G.</i> "Waste Management Policy Implementation in South Africa: An emerging stakeholder paradox". <i>Southern African Journal of Environmental Education.</i> 2003. 20,39-52.	1.00		
van der Mescht,H			
Robinson,D, <i>van der Mescht,H</i> and <i>Lancaster,JCS.</i> "Beyond the Ethics of Conduct - Understanding the Ethical Dilemmas of Entrepreneurs". <i>Meditari.</i> 2003. 11,113-128.	0.34		
Wilmot,D			
<i>Wilmot,D.</i> "Investigating children's graphic skills: A South African case study". <i>International Research in Geographical and Environmental Education.</i> 2002. 11(4),325-340.	1.00		Y
<i>Wilmot,D.</i> "The Inception phase of a case study on outcomes-based education assessment policy in the Human and Social Sciences Learning Area of C2005". <i>South African Journal of Education.</i> 2003. 23(4),313-318.	1.00		
TOTALFOR EDUCATION	5.34		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	1.00		

EDUCATION (EAST LONDON)

In 2003 the Department of Education in East London was fully occupied with the transition to the University of Fort Hare. This included the development of a research ethic within the department at both undergraduate and graduate levels, the development of a quality assurance system for higher degrees and the development of a full higher degrees programme. An Education Research and Higher Degrees Committee was established on the campus. The full staff complement was involved in this endeavour, with colleagues from UFH.

As a result, the Department has established the following:

- a) a Ph. D. programme targeting staff of the faculty in the first instance, partnering with the University of Natal. This programme begins in 2004.
- b) an M. Ed. programme built within the same structure of the Ph. D. programme, enabling staff to develop Ph.D. research and writing skills as well as supervisory skills
- c) a programme enabling each staff member to submit at least one article for sapse journal publication per year.

We await the following year with great interest, in order to be able to implement and to reflect on these plans and our progress.

MRS M. IRVINE
HEAD OF DEPARTMENT

SUBSIDY UNITS CLAIMED

EDUCATION (East London)	UNITS	IN PRESS	NON SAPSE
TOTAL FOR EDUCATION (East London)	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ELECTRON MICROSCOPY UNIT

A major development for electron microscopy at Rhodes University in 2003 was the award by the NRF of an equipment upgrade grant of nearly R400 000 that allowed the purchase of a slow scan digital CCD camera for the JEOL 1210 transmission electron microscope. Consequently high resolution digital imaging is now possible for all imaging technologies in the Unit. Not only does this allow the maximum benefit to be derived from being able to share and transmit all images throughout the networked imaging system that has been developed during the past 7 years, but it also ensures that users will save both time and money because the purchase and processing of negatives will no longer be necessary. However, because of the preference that some users have for conventional photography, and its remaining small resolution advantage, it is expected that conventional and digital imaging will run in parallel for a few more years before a complete change-over to digital imaging is completed.

MR R. CROSS
DIRECTOR

OTHER PUBLICATIONS

Cross,RHM

Cross,RHM. Cross, RHM(eds) Proceedings of the 42nd Annual Conference of the Microscopy Society of Southern Africa. Microscopy Society of Southern Africa. Pretoria. 2003. 33.

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

i. Local Conferences (Within South Africa)

Cross,RHM

Cross,RHM. "Sequence of writing: Microscopical techniques used in the examination of questioned documents". *42nd Annual Conference of the Microscopy Society of Southern Africa*. December 2003. Volume 33. 40.

Pinchuck,SC, Cross,RHM and Randall,M

Pinchuck,SC, Cross,RHM and Randall,M. "What happened when the lights went out? Effects of temperature changes on the quality of fixation". *42nd Annual Conference of the Microscopy Society of Southern Africa*. December 2003.

DISTINGUISHED VISITORS

Professor ME Lee. University of the North. Discussion of promotion of science. March 2003.

SUBSIDY UNITS CLAIMED

EM UNIT	UNITS	IN PRESS	NON SAPSE
TOTAL FOR EM UNIT	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ENGLISH

Among the highlights of a comparatively lean year for the Department of English in terms of research outputs were the two Book and Text Studies workshops hosted at Rhodes by Professor John Gouws on behalf of the Department, in May and September. These were attended by delegates from all over South Africa as well as invited guests from abroad.

Several members of the Department, including graduate students, attended the major conference hosted by Rhodes/Fort Hare in East London, "The Eastern Cape: Historical Legacies and New Challenges", in August. That the Department provided three of the four members of the sole panel on literary studies (convened by Kai Easton) can be seen as an indication of its current investment in Eastern Cape studies. Other conferences attended included the SHARP regional conference in Sydney, the "Postcolonial and Globalisation" conference in Northampton, UK, and a colloquium on Post-Apartheid South African Literature hosted by the Nottingham Trent University in the UK.

Professor Gouws, Professor van Wyk Smith, Dr Dan Wylie and other members of the Department continued work on the book-length projects in which they are engaged. The Department currently has twelve MA and PhD students of whom two will be graduating in 2004.

PROFESSOR G. CORNWELL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cornwell,DG

Cornwell,DG. "Turbott Wolfe and the emotional aspects of the colour-situation". *Journal of Commonwealth Literature*. 2003. 38(2),41-57.

Van Wyk Smith,M

Van Wyk Smith,M. "The Boers and the Anglo Boer War (1899 - 1902) In the 20th Century Moral-Imaginary". *Victorian Literature and Culture*. 2003. 429-446.

Wylie,D

Wylie,D. "Clutching a Handful of Granulated Glass". *Scrutiny2: Issues in English Studies in Southern Africa*. 2003. 8(1),62-69.

OTHER PUBLICATIONS

Beard,M

Beard,M. "King Lear A Production of the North West Arts Drama Youth Group". *Shakespeare in Southern Africa*. 2002. 14, 59-60.

Beard,M. "Patricia E Tatspaugh The Winters Tale Shakespeare at Stratford". *Shakespeare in Southern Africa*. 2002. 14, 69-70.

Easton,K

Easton,K. "Coetzee's Disgrace Byron in Italy and the Eastern Cape". Centennial Rhodes University Centenary Magazine. 2003. 97-99.

Jacobson,WS

Jacobson,WS. "Alexander Welsh Hamlet in his modern guises". *Dickens Quarterly*. 2003. 20(2), 130-131.

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

i. Local Conferences (Within South Africa)

Cornwell,DG

Cornwell,DG. "Disgraceland: History and Fiction in Frontier Country". *The Eastern Cape: Historical Legacies and New Challenges*. University of Fort Hare, East London. August 2003. 1-16.

Easton,K

Easton,K. "Coetzee's Disgrace Byron in Italy and the Eastern Cape c.1820". *The Eastern Cape: Historical Legacies and New Challenges*. Fort Hare University, East London. August 2003. 1-20.

Wylie,D

Wylie,D. "Foresters of the Neutral Ground? Poets and the Ecological History of the Eastern Cape". *The Eastern Cape: Historical Legacies and New Challenges*. Fort Hare University, East London. August 2003. 1-22.

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

ii. International Conferences (Outside South Africa)

Gouws,J

Gouws,J. "Denys Reitz and Imperial Co-option". *SHARP Regional Conference*. Sydney. Australia. January/February 2003.

Naidu,S

Naidu,S. "Jayapraga Reddy's Narratives of Enablement". *Inside the Whale: The Postcolonial and Globalisation*. University College, Northampton. UK. July 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Gouws,J

Gouws,J. Organiser. "*Books and Text Studies Workshop*". Rhodes University. Grahamstown. 17 - 18 May 2003.

Gouws,J. Organiser. "*Books and Text Studies Workshop*". Rhodes University. Grahamstown. 8 - 12 September 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Cornwell,DG

Cornwell,DG. British Library, UK. Research. 7 - 12 April 2003.

Gouws,J

Gouws,J. Folger Shakespeare Library, Washington DC, America. Research. 9 - 16 December 2002.

Gouws,J. Oxford, UK. Research. 25 October - 6 November 2003.

Van Wyk Smith,M

Van Wyk Smith,M. British Library, UK. Research. 15 May - 15 July 2003.

DISTINGUISHED VISITORS

Professor P Newmark. Oxford University, UK. Visiting Scholar. Apr-July 2003.

Professor P Shillingsburg. De Montfort University, Leicester UK. Visiting Scholar. May 2003.

SUBSIDY UNITS CLAIMED

ENGLISH	UNITS	IN PRESS	NON SAPSE
Cornwell,DG			
Cornwell,DG. "Turbott Wolfe and the emotional aspects of the colour-situation". <i>Journal of Commonwealth Literature</i> . 2003. 38(2),41-57.	1.00		
Van Wyk Smith,M			
Van Wyk Smith,M. "The Boers and the Anglo Boer War (1899 - 1902) In the 20th Century Moral-Imaginary". <i>Victorian Literature and Culture</i> . 2003. 429-446.	1.00		
Wylie,D			
Wylie,D. "Clutching a Handful of Granulated Glass". <i>Scrutiny2: Issues in English Studies in Southern Africa</i> . 2003. 8(1),62-69.	1.00		
TOTAL FOR ENGLISH	3.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ENGLISH LANGUAGE AND LINGUISTICS

This, again, was a productive year for members of the Department of English Language & Linguistics. Professor de Klerk (Guernsey), Dr Simango (New Jersey), Ms Niven (London) and Mr Bekker (Arizona) presented papers on their work at international conferences, while Professor de Klerk, Ms Hunt and Dr Simango reported on their research locally as well. From the point of view of publications, members of the department had 6 articles published in approved, peer reviewed journals, five international and four in local/southern African journals, and look forward to a number of others appearing in print early in 2004. Professor de Klerk continued her corpus-based research into Xhosa-English with substantial funding from the NRF and attracted increasing interest in her work both locally and internationally. She, along with Dr Simango and Professor Adendorff, contributed to the NRF's process of researcher evaluation, Professor de Klerk being a member of the assessment panel for Languages & Linguistics. Next year Professor de Klerk has been invited to act as convenor of the joint assessment panel for Literary Studies, Languages & Linguistics. She also serves on the South African Geographical Names Council and the English National Language Body. Dr Simango focused his research on sub-categories of the Bantu past tense; Ms Hunt prepared the ground for research into what will be her doctoral study, namely, the linguistic construction of female physical identity; Mr Bekker concentrated on disseminating insights from his Masters thesis on language attitudes and ethnolinguistic identity in South Africa, while Ms Niven spent the year writing up her Masters thesis on developing academic reading practices in foundation-year students. This was also a particularly productive year at the post-graduate level. One student completed the Post Graduate Diploma in English Language Teaching; two completed Honours degrees in Linguistics and Applied Language Studies; a further two did joint Honours degrees (in Linguistics and English and Linguistics and Economics respectively); and seven completed Masters degrees. The picture for next year (2004) is equally encouraging, as the following enrollment figures suggest: one Post Graduate Diploma student, eight full-time Honours students; seven Masters students, and three PHD candidates.

PROFESSOR R. ADENDORFF
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

de Klerk,V

de Klerk,V. "Xhosa English as an institutionalised variety of English: In search of evidence". *English World-Wide*. 2003. 24(2),221-243.

de Klerk,V. "Xhosa nicknames for whites: A double-edged sword?". *Nomina Africana*. 2002. 16(2),146-163.

de Klerk,V. "The Language of Truth and Reconciliation: Was it fair to all concerned?". *Southern African Linguistics and Applied Language Studies*. 2003. 21(1 & 2),1-14.

de Klerk,V. "Towards a norm in South African Englishes: The case for Xhosa English". *World Englishes*. 2003. 22(4),463-481.

Kilpert,D

Kilpert,D. "Getting the full picture: A reflection on the work of M.A.K. Halliday". *Language Sciences*. 2003. 25,159-209.

Simango,SR

Simango,SR. "Reanalysing past tense categories in Bantu". *Malilime: Malawian Journal of Linguistics*. 2003. 3,67-84.

OTHER PUBLICATIONS

Bekker,I

Bekker,I. "Using historical data to explain language attitudes: A South African case study". *Aila Review: International Association of Applied Linguistics*. 2003. 16, 62-77.

de Klerk,V

de Klerk,V. "Language and the Law: Who has the upper hand? A corpus analysis of the TRC hearings". *Aila Review: International Association of Applied Linguistics*. 2003. 16, 89-103.

Simango,SR

Simango,SR. "Kodi demokalase ingamele mizu muAfilika". CASAS Occasional Paper 18. Centre for Advanced Studies of African Society (CASAS). Cape Town. 2003. (Paper 18).

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

i. Local Conferences (Within South Africa)

de Klerk,V

de Klerk,V. "The language of Truth and Reconciliation: Was it fair to all concerned?". *Annual Conference of the Linguistic Society of SA.* RAU, Johannesburg. June/July 2003.

de Klerk,V. "Towards a norm in South African Englishes: The case for Xhosa English". *21st World Congress of the World Federation of Modern Language Associations.* July 2003.

Hunt,SA

Hunt,SA. "The development of female friendship: Further observations from conversations". *Southern African Applied Linguistics Association.* RAU, Johannesburg. June/July 2003. 23.

Simango,SR

Simango,SR. "Do we dare harmonize orthographies?". *Conference on Harmonization and Standardization of Southern African Languages.* Manhattan Hotel, Pretoria. February 2003.

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

ii. International Conferences (Outside South Africa)

Bekker,I

Bekker,I. "Language attitudes and ethnolinguistic identity in South Africa: A critical review". *Proceedings of the 4th International Symposium on Bilingualism (ISB4).* Arizona State University, Tempe, Arizona. USA. April/May 2003.

de Klerk,V

de Klerk,V. "Formulaic Utterances in Xhosa English: An exploratory study". *24th Annual Conference on English Language research on computerised corpora of modern and medieval English.* Guernsey. April 2003.

Niven,P

Niven,P. "An investigation into the early reading practices of Xhosa home-language students at a South African University: reading for a degree". *Learning Conference.* School of Education. London University, London. UK. July 2003.

Simango,SR

Simango,SR. "Still' and 'No longer' as inherent sub-categories of the Bantu past tense". *The 4th World Congress of African Linguistics.* Rutgers University, New Brunswick, New Jersey. USA. June 2003. 177.

SUBSIDY UNITS CLAIMED

ENGLISH LANGUAGE AND LINGUISTICS	UNITS	IN PRESS	NON SAPSE
de Klerk,V			
<i>de Klerk,V.</i> "Xhosa English as an institutionalised variety of English: In search of evidence". <i>English World-Wide.</i> 2003. 24(2),221-243.	1.00		
<i>de Klerk,V.</i> "The Language of Truth and Reconciliation: Was it fair to all concerned?". <i>Southern African Linguistics and Applied Language Studies.</i> 2003. 21(1 & 2),1-14.	1.00		
<i>de Klerk,V.</i> "Towards a norm in South African Englishes: The case for Xhosa English". <i>World Englishes.</i> 2003. 22(4),463-481.	1.00		
Kilpert,D			
<i>Kilpert,D.</i> "Getting the full picture: A reflection on the work of M.A.K. Halliday". <i>Language Sciences.</i> 2003. 25,159-209.	1.00		
TOTAL FOR ENGLISH LANGUAGE AND LINGUISTICS	4.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ENVIRONMENTAL SCIENCE

The Department of Environmental Science (DES) has once again had a good output for 2003, considering its small size. Relative to the previous year, there has been a decline in journal articles and book chapters, but a large increase in conference papers. A significant component was the large presence we had at the VIIth International Rangelands Congress hosted by South Africa. Two members, Professor Christo Fabricius and Ms Sheona Shackleton were invited to convene specialist sessions at this prestigious event. In total DES staff authored, or co-authored, seven presentations at this conference. A landmark for the DES was also the registration of its first PhD students (two) during 2003, leading the growth in postgraduate numbers. Our strong participation in the southern African component of the International Millennium Assessment was a significant event requiring collaboration with scientists from around the world, which will undoubtedly lead to new opportunities in the coming years.

During 2003 the following postgraduate students were registered with DES

(* = to graduate in April 2004)

Honours:

Ms Gene Guthrie *
Mr Brett Hagen *
Ms Julian Keirungi *
Mr Russell Main *
Ms Nomi Mhlanga *
Mr Jonathan Stewart *

Masters

Ms S. Browne
Ms Georgina Cundill
Ms Helen Fox
Mr Mainza Madubansi *
Ms M. Madzwamuse
Ms Lindsay McDermott
Mr Herman Timmermans
Ms Kelly Scheepers

PhD

Mr Rob Jones
Ms Sheona Shackleton

PROFESSOR C. SHACKLETON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Shackleton,CM

Pollard,SR, *Shackleton,CM* and Carruthers,J. "Beyond the fence: People and the lowveld landscape". In: du Toit,J, Biggs,H, Mills,G, Naiman,B and Rogers, K(eds) *The Kruger Experience: Ecology and management of savanna heterogeneity*. Island Press. California. 2003. 422-446.

Shackleton,SE

Campbell,BM, *Shackleton,SE* and Wollenberg,E. "Overview: Institutional arrangements for managing woodlands". In: Kowero,G, Campbell,BM and Sumaila, UR(eds) *Policies and governance structures in woodlands of Southern Africa*. CIFOR. Bogor, Indonesia. 2003. 28-44.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Fabricius,C

Fabricius,C, Burger,NM and Hockey,PAR. "Comparing biodiversity between protected areas and adjacent rangeland in xeric succulent thicket, South Africa: arthropods and reptiles". *Journal of Applied Ecology*. 2003. 40,392-403.

Madzwamuse,M and *Fabricius,C*. "People and ecosystems in flux: The Basarwa's natural resource management systems in Ngamiland, Botswana". *African Journal of Range and Forage Science*. 2003. 20,197-197.

Shackleton,CM

Shackleton,CM. "The prevalence of use and value of wild edible herbs in South Africa". *South African Journal of Science*. 2003. 99,23-25.

Dovie,DBK, Witkowski,ETF and *Shackleton,CM*. "Relationship between local woody plant diversity and use of non-timber forest products in villages across the savanna biome of South Africa". *African Journal of Range and Forage Science*. 2003. 20,204-204.

Dovie,DBK, Witkowski,ETF and *Shackleton,CM*. "The utilisation of non-timber forest products and implications for rural livelihoods in a South African village". *African Journal of Range and Forage Science*. 2003. 20,204-204.

Dovie,DBK, Witkowski,ETF and *Shackleton,CM*. "Direct-use value of smallholder crop production in a semi-arid rural South African village". *Agricultural Systems*. 2003. 76,337-357.

Dzerefos,CM, Witkowski,ETF and *Shackleton,CM*. "Host preference and density of woodrose-forming mistletoes (Loranthaceae on savanna vegetation, South Africa)". *Plant Ecology*. 2003. 167,163-177.

Robertson,MP, Villet,MH, Fairbanks,DHK, Henderson,L, Higgins,SI, Hoffman,JH, Le Maitre,DC, Palmer,AR, Riggs,I, Shackleton,CM and Zimmerman,HG. "A proposed prioritisation system for the management of weeds in South Africa". *South African Journal of Science*. 2003. 99,37-43.

Shackleton,CM, Botha,J and Emanuel,PL. "Productivity and abundance of *Sclerocarya birrea* subsp *caffra* in and around rural settlements and protected areas of the Bushbuckridge lowveld". *Forests, Trees and Livelihoods*. 2003. 13,217-232.

Shackleton,CM, Guthrie,G, Keirungi,J and Stewart,J. "Fuelwood availability and selection in the Richterveld National Park, South Africa". *Koedoe*. 2003. 46,1-8.

Shackleton,CM and Shackleton,SE

Shackleton,CM and Shackleton,SE. "Communal rangelands in savannas of South Africa: What do they contribute to rural livelihoods?". *African Journal of Range and Forage Science*. 2003. 20,208-208.

Shackleton,SE

Wollenberg,E, Campbell,B, *Shackleton,SE* and Edmunds,D. "Central control of local resource management: The impacts of devolution". *European Tropical Forest Resource Network News*. 2003. 39/40,98-100.

Shackleton,SE and Shackleton,CM

Shackleton,SE, Shackleton,CM, Mander,M, Cribbins,J, Wynberg,RP, Sullivan,CM and Leakey,RRB. "Diversifying communal rangeland use and benefit: The case of marula (*Sclerocarya birrea*) in Bushbuckridge, South Africa". *African Journal of Range and Forage Science*. 2003. 20,208-208.

Wynberg,RP, Laird,SA, *Shackleton,SE, Mander,M, Shackleton,CM, du Plessis,P, den Adel,S, Leakey,RRB, Botelle,A, Sullivan,C, Cunningham,AB and O'Regan,D*. "Marula commercialisation for sustainable and equitable livelihoods". *Forests, Trees and Livelihoods*. 2003. 13,203-215.

OTHER PUBLICATIONS**Shackleton,CM**

Andrew,M, Ainslie,A and Shackleton,CM. "Land use and livelihoods. Evaluating land and agrarian reform in South Africa". Occasional Paper No. 8. Programme for Land and Agrarian Studies, University of the Western Cape. Cape Town. 2003. 1-36.

Andrew,M, Shackleton,CM and Ainslie,A. "Land use and livelihoods: Have they been enhanced by land reform? Policy Brief No 5 debating land and rural development". Programme for Land and Agrarian Studies, University of the Western Cape. Cape Town. 2003.

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

i. Local Conferences (Within South Africa)

Fabricius,C

Fabricius,C, Kingwill,R and Dingela,S. "Charity begins at home: The socio-economic impact of 26 working for water and Department of Land Affairs partnership projects". *Water for Water Inaugural Research Symposium*. Cape Town. August 2003.

Madzwamuse,M and *Fabricius,C*. "People and ecosystems in flux: The Basarwa's natural resource management systems in Ngamiland, Botswana". *Rangelands in the New Millennium: VIIth International Rangelands Congress*. International Convention Centre, Durban. August 2003.

Magome,H and *Fabricius,C*. "Benefits from community-based natural resource management (CBNRM) in southern Africa: Does it all add up?". *Southern African Wildlife Management Association Symposium*. Gansekraal. September 2003.

Keirungi,J

Keirungi,J. "Can medicinal plants be cultivated? A case study on the South African Wild Coast". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Mhlanga,N

Mhlanga,N. "Food, food security and ecosystem goods and services in a Lesotho mountain village". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Shackleton,CM

Browne,S, *Palmer,CG* and *Shackleton,CM*. "Salinity tolerances of selected South African freshwater invertebrates". *Joint Conference of SASAQS and ZSSA*. Cape Town. June/July 2003.

Dovie,DBK, Witkowski,ETF and *Shackleton,CM*. "The utilisation of non-timber forest products and implications for rural livelihoods in a South African village". *Rangelands in the New Millennium: Proceedings of the VIIth International Rangelands Congress*. International Convention Centre, Durban. August 2003. 1659-1662.

Shackleton,CM and Shackleton,SE

Shackleton,CM and *Shackleton,SE*. "Communal rangelands in savannas of South Africa: What do they contribute to rural livelihoods". *Rangelands in the New Millennium: Proceedings of the VIIth International Rangelands Congress*. International Convention Centre, Durban. August 2003. 1695-1697.

Shackleton,SE

Shackleton,SE. "Rangelands and livelihoods: Trends". *Rangelands in the New Millennium: VIIth International Rangelands Congress*. International Convention Centre, Durban. August 2003.

Shackleton,SE and Shackleton,CM

Shackleton,SE, *Shackleton,CM*, Mander,M, Cribbins,J, Wynberg,RP, Sullivan,CM and Leakey,RRB. "Diversifying communal rangeland use and benefit: The case of marula (*Sclerocarya birrea*) in Bushbuckridge, South Africa". *Rangelands in the New Millennium: Proceedings of the VIIth International Rangelands Congress*. International Convention Centre, Durban. August 2003. 1698-1701.

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

ii. International Conferences (Outside South Africa)

Shackleton,CM and Shackleton,SE

Shackleton,CM and *Shackleton,SE*. "Value of non-timber forest products and rural safety nets in South Africa". *CIFOR International Conference: Rural Livelihoods, Forests and Biodiversity*. Bonn (Germany). May 2003.

SUBSIDY UNITS CLAIMED

ENVIRONMENTAL SCIENCE	UNITS	IN PRESS	NON SAPSE
Fabricius,C			
<i>Fabricius,C, Burger,NM and Hockey,PAR. "Comparing biodiversity between protected areas and adjacent rangeland in xeric succulent thicket, South Africa: arthropods and reptiles". Journal of Applied Ecology. 2003. 40,392-403.</i>	0.34		
Shackleton,CM			
<i>Shackleton,CM. "The prevalence of use and value of wild edible herbs in South Africa". South African Journal of Science. 2003. 99,23-25.</i>	1.00		
<i>Dovie,DBK, Witkowski,ETF and Shackleton,CM. "Direct-use value of smallholder crop production in a semi-arid rural South African village". Agricultural Systems. 2003. 76,337-357.</i>	0.34		
<i>Robertson,MP, Villet,MH, Fairbanks,DHK, Henderson,L, Higgins,SI, Hoffman,JH, Le Maitre,DC, Palmer,AR, Riggs,I, Shackleton,CM and Zimmerman,HG. "A proposed prioritisation system for the management of weeds in South Africa". South African Journal of Science. 2003. 99,37-43.</i>	0.09		
<i>Shackleton,CM, Botha,J and Emanuel,PL. "Productivity and abundance of <i>Sclerocarya birrea</i> subsp <i>caffra</i> in and around rural settlements and protected areas of the Bushbuckridge lowveld". Forests, Trees and Livelihoods. 2003. 13,217-232.</i>	1.00		
<i>Shackleton,CM, Guthrie,G, Keirungi,J and Stewart,J. "Fuelwood availability and selection in the Richterveld National Park, South Africa". Koedoe. 2003. 46,1-8.</i>	1.00		
Shackleton,SE and Shackleton,CM			
<i>Wynberg,RP, Laird,SA, Shackleton,SE, Mander,M, Shackleton,CM, du Plessis,P, den Adel,S, Leakey,RRB, Botelle,A, Sullivan,C, Cunningham,AB and O'Regan,D. "Manual commercialisation for sustainable and equitable livelihoods". Forests, Trees and Livelihoods. 2003. 13,203-215.</i>	0.17		
TOTAL FOR ENVIRONMENTAL SCIENCE	3.94		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

FINE ART

Publications by the Fine Art Department in 2003 include an article on Hogarth that Michael Herbst published in *De Arte*. Brenda Schmahmann published two catalogue essays – one on community needlework projects and the other on the ‘Claybody’ sculptures of Wilma Cruise. Maureen de Jager, Michael Herbst, Mark Hipper, Gerhard Schoeman and Dominic Thorburn published book, exhibition or conference reviews, while conference papers that Brenda Schmahmann and Gerhard Schoeman delivered in 2002 appeared in proceedings produced in 2003. Michael Herbst, Brenda Schmahmann and Gerhard Schoeman attended and delivered papers at the 19th conference of the South African Association of Art Historians held at the University of Stellenbosch in September.

Dominic Thorburn co-convened the international Impact conference on printmaking that was held at the University of Cape Town. He also co-curated two of the exhibitions that corresponded with the conference. Mark Hipper had two solo shows, “The Inquisitors” and “Exitus”. All the Studio Practice staff participated in group exhibitions, not only in South Africa but also in France (Christine Dixie), the United States (Dominic Thorburn) and Germany (Mark Hipper). Mark Hipper and Brent Meistre were finalists in the Brett Kebble Awards. Brent Meistre was also one of eight finalists whose works were included in the prestigious DaimlerChrysler Award Exhibition for photography.

We have the following postgraduates in the department:

Michelle Key (MFA)
Emma Taggart (MFA)
Natascha Spargo (MFA) - registered to begin this year
Genevieve Bateman (MFA) - registered to begin this year
Carol Brown (MA in Art History)

None will be graduating in April 2004.

PROFESSOR B. SCHMAHMANN
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Schmahmann,B

Schmahmann,B. "Art as Empowerment: Needlework Projects in South Africa". In: Allara, P(eds) *Coexistence: Contemporary Cultural Production in South Africa*. Rose Art Museum Boston, USA. 2003. 41-45.

Schmahmann,B. "Initiating In-between-ness: Wilma Cruise's Claybody sculptures". In: Cruise, W(eds) *Earthworks/Bodyworks*. Pretoria Art Museum. Pretoria. 2003. 14-18.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Herbst,M

Herbst,M. "Looking underneath: Deconstruction in Hogarth's Industry and Idleness". *De Arte*. 2003. 68,4-23.

Schoeman,G

Schoeman,G. "Reason and madness: Reading Walter Benjamin and Anselm Kiefer through Albert Durer's *Melencolia I*". *Acta Academica*. 2003. 35(3),77-115.

OTHER PUBLICATIONS

De Jager,M

De Jager,M. "Review of Male Order and Brett Murray exhibition catalogues". *De Arte*. 2003. 67, 87-92.

Herbst,M

Herbst,M. "Review of Tadjoo, V. David Koloane. 2002. and Jamal, A. Lien Both. 2002". *De Arte*. 2003. 68, 59-63.

Herbst,M. "Review of Homing In exhibition". *Art South Africa*. Bell Roberts. Cape Town. 2003. 2(1), 63-63.

Hipper,M

Hipper,M. "Review of 'Homing in' exhibition". Williamson, S(eds) *www.artthrob.co.za*. 2003.

Schoeman,G

Schoeman,G. "Review of Colpit, F. ed. Abstract art in the late twentieth century". De Arte. 2003. 68, 68-69.

Thorburn,D

Thorburn,D. "Chapter 6". Kelly, W(eds) Art and Humanist Ideals: Contemporary Perspectives. Macmillan. 2003. 227(231).

Thorburn,D. "The Impact of Prints". Art South Africa. Bell Roberts. Cape Town. 2003. 1(4).

Thorburn,D. "Rorke's Drift: Empowering Prints". Art South Africa. Bell Roberts. Cape Town. 2003. 1(4).

Thorburn,D. "The Print as Mediating Messenger". Impact 2nd International Printmaking Conference Proceedings. University of Art and Design. Helsinki, Finland. 2003.

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

Herbst,M. "Tarrying with(in) the Box: Revisiting Ashraf Jamal's Interpretation of the Art of Lien Botha". 19th Annual Conference of the SAAAH. University of Stellenbosch, Stellenbosch. September 2003.

Schmahmann,B

Schmahmann,B. "Bodies in Agitation: Wilma Cruise's recent works". 18th Annual Conference of the SAAAH. University of Pretoria, Pretoria. July 2002. 121. 126.

Schmahmann,B. "Body as Sweetmeat: Penny Siopis's Embellishments". 19th Annual Conference of the SAAAH. University of Stellenbosch, Stellenbosch. September 2003.

Schoeman,G

Schoeman,G. "Felix in exile: William Kentridge's self-reflexive allegories". 18th Annual Conference of the SAAAH. University of Pretoria, Pretoria. July 2002. 127. 134.

Schoeman,G. "Reading blindness, or apprehending inaccessibility in Gerhard Richter's paintings". 19th Annual Conference of the SAAAH. University of Stellenbosch, Stellenbosch. September 2003.

Thorburn,D

Thorburn,D. Impact 3rd International Printmaking Conference. University of Cape Town, Cape Town. August 2003.

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

Schmahmann,B. "Managing Mapula: Defining Markets for an Embroidery Project in Post-Apartheid South Africa". 8th Biennial Symposium of the Textile Society of America. Smith College, Northampton, Massachusetts. United States. September 2002. 1-10.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.**De Jager,M**

De Jager,M. Artist. "Console". Johan Carinus Art Centre. Grahamstown. July 2003.

De Jager,M. Artist. "Changes". Nelson Mandela Met. Art Museum. Port Elizabeth. 2003.

Dixie,C

Dixie,C. Artist. "Then and Now - Prints before and after the demise of apartheid". South African National Gallery. Cape Town. 2003.

Dixie,C. Artist. "Cross-Cultural Identities: An artist print exchange". South African Museum. Cape Town. 2003.

Dixie, C. Artist. *"Ampersand Exhibition"*. Warren Siebrits Gallery. Johannesburg. 2003.

Dixie, C. Artist. *"6th International Triennial of Small Prints"*. Auvergne, France. 2003.

Hipper, M

Hipper, M. Artist. *"Exitus"*. Fine Art Department. Rhodes University, Grahamstown. June - July 2003.

Hipper, M. Artist. Galerie Monch. Berlin, Germany. 2003.

Hipper, M. Artist. *"Kunstler Der Galerie"*. Asperger Galerie. Berlin, Germany. 2003.

Hipper, M. Artist. *"Exitus"*. Joao Ferreira Gallery. Cape Town. 2003.

Hipper, M. Artist. *"Brett Kebble Art Awards Exhibition"*. Conference Centre. Cape Town. 2003.

Hipper, M. Artist. *"The Inquisitors"*. Joao Ferreira Gallery. Cape Town. 2003.

Meistre, B

Meistre, B. Artist. *"DaimlerChrysler Award for Contemporary Photography"*. Museum Africa. Johannesburg. 2003.

Meistre, B. Artist. *"Brett Kebble Art Awards Exhibition"*. Conference Centre. Cape Town. 2003.

Meistre, B. Artist. *"Console"*. Johan Carinus Art School. Grahamstown. 2003.

Thorburn, D

Thorburn, D. Conference Convenor. *"Impact 3rd International Printmaking Conference"*. University of Cape Town. Cape Town. August 2003.

Thorburn, D. Artist. *"Changes"*. Nelson Mandela Met Art Museum. Port Elizabeth. 2003.

Thorburn, D. Artist. *"Working Proof"*. Art on Paper. Johannesburg. 2003.

Thorburn, D. Artist. *"Working Proof"*. Joao Ferreira Gallery. Cape Town. 2003.

Thorburn, D. Artist. *"Cross Cultural Collaborations"*. South African Museum. Cape Town. 2003.

Thorburn, D. Artist. *"Then and Now: Prints before and after the demise of apartheid"*. South African National Gallery. Cape Town. 2003.

Thorburn, D. Artist. *"Curtains"*. Manhattan Graphics Center. New York, United States. 2003.

Thorburn, D. Artist. *"South African Prints"*. Rutgers University. New Brunswick, United States. 2003.

Thorburn, D. Co-curator. *"Cross-Cultural Collaborations"*. South African Museum. Cape Town. 2003.

Thorburn, D. Co-curator. *"Then and Now: Prints before and after the demise of apartheid"*. South African National Gallery. Cape Town. 2003.

DISTINGUISHED VISITORS

Captain G Green. South African Police Services - media relations officer,. Conduct demonstration of a forensic crime scene investigation for first year studio practice students. 2003.

Mr T Hopwood. Freelance photographer, Port Elizabeth. Conduct talk for photography students. 2003.

Mr G Lang. University of Newcastle, Newcastle, Australia. Lecture. September 2003.

Mr B Law-Viljoen. Howard Shatz Studios, Brooklyn, New York. Conduct workshop for photography students. 2003.

Professor J Van Eeden. University of Pretoria, Pretoria. Lectures. October 2003.

Ms D Victor. Independent artist, Pretoria. Lecture and to use our facilities. 2003.

Professor G Younge. University of Cape Town, Cape Town. Work on University Centenary Art Commission. Various 2003.

SUBSIDY UNITS CLAIMED

FINE ART	UNITS	IN PRESS	NON SAPSE
Herbst,M			
<i>Herbst,M.</i> "Looking underneath: Deconstruction in Hogarth's Industry and Idleness". <i>De Arte</i> . 2003. 68,4-23.	1.00		
Schoeman,G			
<i>Schoeman,G.</i> "Reason and madness: Reading Walter Benjamin and Anselm Kiefer through Albert Durer's <i>Melencolia I</i> ". <i>Acta Academica</i> . 2003. 35(3),77-115.	1.00		
TOTAL FOR FINE ART	2.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

GEOGRAPHY

2003 was an active year for the department in research terms. In total eight journal articles were published and staff attended conference and research meetings in South Africa and abroad.

Specific highlights included:

- 1) Professor Lewis undertook research in mid-Wales to update the standard text book on the 'Glaciation of Wales' which he originally edited in 1970 and which is now being republished. In addition, he continued his research into peri-glacial processes at high altitudes in the Drakensberg and published findings with a former research student. Several of his earlier research papers were republished at the request of interested parties.
- 2) Professor Rowntree initiated a new project with the Water Research Commission looking at the geomorphology of river catchments. In addition, she also started a new Land Care project funded by the Department of Agriculture and renewed her NRF research programme. Other highlights include undertaking joint fieldwork in Spain with Professor Thornes from Kings College, London, and work with UNESCO in Paris evaluating the International Hydrological Project.
- 3) Ms McGregor has initiated a major research investigation in the Baviaanskloof, in collaboration with the Institute of Water Research, which will form a key component of her PhD.
- 4) Professor Fox made a significant contribution to the development of the discipline through his role as President of the Society of South African Geographers and his participation in the organizing committee of the International Geographic Union conference, which was held in Durban in 2002.
- 5) Professor E.Nel continued his research into urban and rural economic development. Highlights of the year include the hosting of a conference on development held in Welkom, collaboration with government, local authorities and the newly established South African Cities Network and a German aid agency.

We currently have 9 Masters and 4 PhD students.

PROFESSOR E.NEL
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Fox,RC

Assmo,P and *Fox,RC*. "The digital economy and higher education. 'Global bypass' or intergration of 'nowhere space and somewhere place'?". In: Johannson, I(eds) Uddevalla Symposium 2002: Innovation, Entrepreneurship, Regional Development and Public Policy in the Emerging Digital Economy. Sweden. 2003. 61-70.

Fairhurst,UJ, Davies,RJ, *Fox,RC*, Goldschagg,P, Ramutsindela,M, Bob,U and Khosa,MM. *Geography: the state of the discipline in South Africa: A survey*. Society of South African Geographers. Pretoria. 2003. 156 pp.

McGregor,GK

McGregor,GK. "Geomorphological Impacts of Impoundments". In: Rowntree,KM and du Plessis, AJE(eds) *Geomorphological Research for the Conservation and Management of Southern African Rivers*. South Africa. 2003. 1, 17-46.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Fox,RC

Fairhurst,UJ, Davies,RJ, *Fox,RC*, Goldschagg,P, Ramutsindela,M, Bob,UJ and Khosa,MM. "Geography: The state of the discipline (2000-2001)". *South African Geographical Journal*. 2003. 85(2),81-89.

Nel,EL

Binns,JA and *Nel,EL*. "The village in the game park: Community response to the demise of the coal mining in Kwa-Zulu Natal, South Africa". *Economic Geography*. 2003. 79(1),41-66.

Nel,EL and Binns,JA. "Decentralizing development in South Africa". *Geography*. 2003. 88(2),108-116.

Nel,EL and Binns,JA. "Putting 'Development Local Government' into practice: The experiences of South Africa's towns and cities". *Urban Forum*. 2003. 14(2-3),165-184.

Nel,EL, Hill,TR, Aithchison,K and Buthelezi,S. "The Closure of Coal Mines and Local Development responses in the Coal Rim Cluster, Northern Kwa-Zulu Natal, South Africa". *Development Southern Africa*. 2003. 20(3),369-385.

Nel,EL, Hill,TR and Maharaj,M. "Durban's Pursuit of Economic Development in Post-Apartheid Era". *Urban Forum*. 2003. 14(2),223-243.

Rowntree,KM

Du Plessis,AJE and Rowntree,KM. "Water resources in Botswana with particular reference to the savanna regions". *South African Geographical Journal*. 2003. 85(1),42-49.

Kakembo,V and Rowntree,KM. "The relationship between land use and soil erosion in the communal lands of Peddie District, Eastern Cape, South Africa". *Land Degradation and Development*. 2003. 14(1),39-49.

OTHER PUBLICATIONS

Andrew,M

Andrew,M. "Cultivation Trends in Willowvale, Transkei: 1940-1996. Case Study Report for the Eastern Cape Provincial Growth and Development Plan". 2003.

Andrew,M, Ainslie,A and Shackleton,CM. "Land use and livelihoods. Evaluating land and agrarian reform in South Africa". Occasional Paper No. 8. Programme for Land and Agrarian Studies, University of the Western Cape. Cape Town. 2003. 1-36.

Andrew,M, Shackleton,CM and Ainslie,A. "Land use and livelihoods: Have they been enhanced by land reform? Policy Brief No 5 debating land and rural development". Programme for Land and Agrarian Studies, University of the Western Cape. Cape Town. 2003.

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

i. Local Conferences (Within South Africa)

Andrew,M

Andrew,M. "Cultivation trends in the Transkei and Ciskei". *Eastern Cape Historical Legacies and New Challenges Conference*. Rhodes University, East London. August 2003.

Andrew,M and Fox,RC

Andrew,M and Fox,RC. "Cultivation trends in the Transkei and Ciskei: 1940-1996". *The Eastern Cape: Historical Legacies and New Challenges*. East London. August 2003.

Fox,RC

Fox,RC. "Geography of African Development: An Alternative Curriculum". *5th Biennial Conference*. University of Free State, Bloemfontein. September 2003.

Nel,EL

Kyle,P, Binns,JA and Nel,EL. "Evaluating the progress of community-based development in the Kat River Valley, Eastern Cape, South Africa". *Eastern Cape Conference*. East London. August 2003.

Rowntree,KM

Rowntree,KM. "Current trends in limnology and Zoology in southern Africa". *Joint Meeting of the South African Society of Aquatic Scientists and the Zoological Society of southern Africa*. Cape Town. July 2003.

Rowntree,KM. *International Rangelands Conference*. Durban. August 2003.

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

ii. International Conferences (Outside South Africa)

Fox,RC

Fox,RC. "The Land Question in South Africa: A study of land distribution, agro-ecological potential and reform initiatives for empirical and relational geographical perspectives". *International CERES Summer School 2003*. Royal Tropical Institute, Amsterdam. June 2003.

Nel,EL

Nel,EL, Gibb,MW and Binns,JA. "The Global City in the South: The Challenges of Globalisation, Economic Growth and Poverty Alleviation in South Africa". *Institute of British Geographers Conference*. London. UK. September 2003.

Rowntree,KM

Rowntree,KM. "Faces of Poverty: Capabilities, mobilization and institutional transformation". *Amsterdam Royal Tropical Institute*. Amsterdam. June 2003.

Rowntree,KM. "Dealing with scarcity and violent conflict". *Netherlands Institute of International Relations*. Netherlands. July 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Fox,RC**

Fox,RC. UNESCO/IHP, Mauritius. Programme Evaluation. 14 - 21 January 2003.

Fox,RC. UNESCO/IHP, Nairobi, Kenya. Programme Evaluation. 4 - 8 March 2003.

Fox,RC. University of Trollhattan / Uddevalla, Uddevalla, Sweden. Exchange Programme. 2 - 16 April 2003.

Fox,RC. Universities of Amsterdam, Utrecht, Netherlands, Holland. Research. 22 June - 4 July 2003.

Fox,RC. University of Trollhattan / Uddevalla, Uddevalla, Sweden. Exchange Programme. 5 - 11 July 2003.

Fox,RC. St Lawrence University, Nairobi, Kenya. To discuss possible exchange. 12 - 21 October 2003.

Fox,RC. Oxford University, Oxford, UK. Exchange Programme. 1 - 8 November 2003.

Fox,RC. University of Trollhattan / Uddevalla, Sweden. Exchange Programme. 9 - 19 November 2003.

Fox,RC. University of Lancaster, UK. Exchange Programme. 21 November 2003.

Lewis,CA

Lewis,CA. Wales, UK. Research. January 2003.

McGregor,GK

McGregor,GK. University of Sussex, Brighton, UK. Research. January - March 2003.

Nel,EL

Nel,EL. University of Sussex, Brighton, UK. Research. January 2003.

Nel,EL. University of Maynooth, Maynooth, Ireland. Teaching. January 2003.

Rowntree,KM

Rowntree,KM. UNESCO/IHP, Mauritius. Programme Evaluation. 14 - 21 January 2003.

Rowntree,KM. UNESCO/IHP, Nairobi, Kenya. Programme Evaluation. 4 - 8 March 2003.

Rowntree,KM. Universities of Amsterdam, Utrecht, Netherlands. Research Collaboration. 22 June - 4 July 2003.

Rowntree,KM. University of Trollhattan / Uddevalla, Uddevalla, Sweden. Field Trip to Lapland. 5 - 21 July 2003.

DISTINGUISHED VISITORS

Dr P Assmo. University of Uddevalla, Sweden. Swedish Link. March 2003.

Professor G Borger. University of Amsterdam, Holland. Teaching. 2003.

Ms J Davidson. University of Port Elizabeth, Port Elizabeth. Teaching. July/September 2003.

Dr D Funnell. University of Sussex, United Kingdom. British Council Link. September 2003.

Professor W Leimgruber. University of Freiburg, Switzerland. Teaching. July/September 2003.

Dr T Lemon. University of Oxford, United Kingdom. Research. March 2003.

Professor I Rutherford. University of Melbourne, Australia. Research. February/June 2003.

Dr B Sibanda. UNESCO, France. Teaching. April 2003.

SUBSIDY UNITS CLAIMED

GEOGRAPHY	UNITS	IN PRESS	NON SAPSE
Fox,RC			
Fairhurst,UJ, Davies,RJ, <i>Fox,RC</i> , Goldschagg,P, Ramutsindela,M, Bob,UJ and Khosa,MM. "Geography: The state of the discipline (2000-2001)". <i>South African Geographical Journal</i> . 2003. 85(2),81-89.	0.14		
Nel,EL			
Binns,JA and <i>Nel,EL</i> . "The village in the game park: Community response to the demise of the coal mining in Kwa-Zulu Natal, South Africa". <i>Economic Geography</i> . 2003. 79(1),41-66.	0.50		
<i>Nel,EL</i> and Binns,JA. "Decentralizing development in South Africa". <i>Geography</i> . 2003. 88(2),108-116.	0.50		
<i>Nel,EL</i> and Binns,JA. "Putting 'Development Local Government' into practice: The experiences of South Africa's towns and cities". <i>Urban Forum</i> . 2003. 14(2-3),165-184.	0.50		
<i>Nel,EL</i> , Hill,TR, Aithchison,K and <i>Buthelezi,S</i> . "The Closure of Coal Mines and Local Development responses in the Coal Rim Cluster, Nothern Kwa-Zulu Natal, South Africa". <i>Development Southern Africa</i> . 2003. 20(3),369-385.	0.50		
<i>Nel,EL</i> , Hill,TR and Maharaj,M. "Durban's Pursuit of Economic Development in Post-Apartheid Era". <i>Urban Forum</i> . 2003. 14(2),223-243.	0.34		
Rowntree,KM			
Du Plessis,AJE and <i>Rowntree,KM</i> . "Water resources in Botswana with particular reference to the savanna regions". <i>South African Geographical Journal</i> . 2003. 85(1),42-49.	0.50		
Kakembo,V and <i>Rowntree,KM</i> . "The relationship between land use and soil erosion in the communal lands of Peddie District, Eastern Cape, South Africa". <i>Land Degradation and Development</i> . 2003. 14(1),39-49.	0.50		
TOTAL FOR GEOGRAPHY	3.48		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

GEOLOGY

Members of the Department have been authors on 6 full-length refereed papers in journals of international standing as well as numerous other research-related contributions. This is a commendable number considering that the department has been understaffed over the period in question. It is noticeable that the research productivity is centered on the most senior academic staff and this reflects the extensive research links they have established with others. It also underlines the time it takes for new researchers to get going, especially when research relies largely on field studies. Current post graduate enrollment is as follows: PhD (3), MSc thesis (3), MSc Exploration Geology (11), MSc Economic Geology (3), Honours (10). Expected graduations in April 2004 are PhD (1) MSc (7) and Honours (5)

PROFESSOR J.S. MARSH
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Marsh,JS

Marsh,JS. "Review of South African research on volcanic and related rocks and mantle derived materials: 1999-2002". *South African Journal of Science*. 2003. 99,381-388.

Maier,WD, Barnes,S-J and *Marsh,JS*. "The concentration of the noble metals in southern African flood type basalts and MORB: implications for petrogenesis and magmatic sulphide exploration". *Contributions To Mineralogy and Petrology*. 2003. 146,44-61.

Marsh,JS, Swart,RS and Phillips,D. "Implications of a new $^{40}\text{Ar}/^{39}\text{Ar}$ age for basalt lava interbedded with the Etjo Formation, Namibia". *South African Journal of Geology*. 2003. 106,281-286.

Marsh,JS and Allen,P

Marsh,JS, *Allen,P* and Fenner,N. "The geochemical structure of the Insizwa lobe of the Mount Ayliff complex with implications for the emplacement and evolution of the complex and its Ni sulphide potential". *South African Journal of Geology*. 2003. 106,409-428.

Moore,JM

Grew,ES, Rao,AT, Raju,KKVS, Hejny,C, *Moore,JM*, Waters,DJ, Yates,MG and Shearer,CK. "Prismatic and ferrogobomite - 2N2S in granulite-facies Fe-oxide lenses in the Eastern Ghats Belt at Venugopalapuram, Vizianagaram district, Andhra Pradesh, India: Do such lenses have a tourmaline-enri lateritic precursor?". *Mineralogical Magazine*. 2003. 67(5),1081-1098.

Tsikos,H, Beukes,NJ, *Moore,JM* and Harris,C. "Deposition, Diagenesis and Secondary Enrichment of Metals in the Palaeoproterozoic Hotazel Iron Formation, Kalahari Manganese Field, South Africa". *Economic Geology*. 2003. 98(7),1449-1462.

OTHER PUBLICATIONS

Stone,DB

Kolesov,E and *Stone,DB*. "Paleomagnetic paleolatitudes for Upper Devonian rocks of the Omolon massif, northeastern Russia". Geological Society of America Special Paper 360. 2002. 243.

Wolf,LW, McCaleb,RC, *Stone,DB*, Brocher,TM, Fujita,K and Klemperer,SL. "Crustal structure across the Bering Strait, Alaska: Onshore recordings of a marine seismic survey". Geological Society of America Special Paper 360. 2002. 25-37.

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

i. Local Conferences (Within South Africa)

Marsh,JS

Ameglio,L and *Marsh,JS*. "The Elephant's Head Dyke revisited - an integrated geophysics and geology approach". *South African Geophysical Association Conference 8th Biennial Technical Meeting*. Pilanesberg, October 2003.

Roberts,MP

Roberts,MP. "Formation of composite veins in metabasites: Insights into elemental mobility during rock-fluid interaction". *Microscopy Society of Southern Africa*. University of Cape Town, Cape Town. December 2003. 33. 19.

August,RB, Dunlevey,JN and Roberts,MP. "Detrital monazite from the Aeolian Sands of the Sibya formation, KwaZulu Natal". *Microscopy Society of Southern Africa*. University of Cape Town, Cape Town. December 2003. 33. 23.

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

ii. International Conferences (Outside South Africa)

Skinner,EMW and Marsh,JS

Skinner,EMW and Marsh,JS. "Kimberlite Eruption Processes". *8th International Kimberlite Conference*. Victoria. Country. July 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Jacob,RE

Jacob,RE. Victoria University, Wellington, New Zealand. Geological examination of hydrothermal activity and gold-silver mineralisation in the Coromandel Peninsula-Taupo Volcanic Zone region, North Island, New Zealand. 14 - 30 June 2003.

Jacob,RE. Institute of Geological and Nuclear Sciences, Lower Hutt, New Zealand. Geological examination of hydrothermal activity and gold-silver mineralisation in the Coromandel Peninsula-Taupo Volcanic Zone region, North Island, New Zealand. 14 - 30 June 2003.

DISTINGUISHED VISITORS

Ms M Barnett. Gemcom Africa, Johannesburg. Lecture MSc students. September 2003.

Dr B Corner. Corner Geophysics, Swakopmund Namibia. Lecture MSc students. September 2003.

Dr R Harris. Geodatec, Johannesburg. Lecture MSc students. July 2003.

Mr K Kenyon. AngloGold, Johannesburg. Discussion on gold research. December 2003.

Professor W Maier. University of Pretoria, Pretoria. Lecture MSc students. February 2003.

Mr C Mallinson. GRS, Grahamstown RSA. Lecture MSc students. September 2003.

Dr S Master. University of the Witwatersrand, Wits. Lecture MSc students. April 2003.

Mr D van Wyk. Geological Society of South Africa, Johannesburg. Lecture to staff and students. October 2003.

Professor M Watkeys. University of Natal, Durban RSA. Lecture MSc students. July 2003.

SUBSIDY UNITS CLAIMED

GEOLOGY	UNITS	IN PRESS	NON SAPSE
Marsh,JS			
<i>Marsh,JS.</i> "Review of South African research on volcanic and related rocks and mantle derived materials: 1999-2002". <i>South African Journal of Science</i> . 2003. 99,381-388.	1.00		
Maier,WD, Barnes,S-J and <i>Marsh,JS.</i> "The concentration of the noble metals in southern African flood type basalts and MORB: implications for petrogenesis and magmatic sulphide exploration". <i>Contributions To Mineralogy and Petrology</i> . 2003. 146,44-61.	0.34		
<i>Marsh,JS, Swart,RS and Phillips,D.</i> "Implications of a new 40 Ar/39 Ar age for basalt lava interbedded with the Etjo Formation, Namibia". <i>South African Journal of Geology</i> . 2003. 106,281-286.	0.34		

Marsh,JS and Allen,P			
Marsh,JS, Allen,P and Fenner,N. "The geochemical structure of the Insizwa lobe of the Mount Ayliff complex with implications for the emplacement and evolution of the complex and its Ni sulphide potential". <i>South African Journal of Geology</i> . 2003. 106,409-428.	0.51		
Moore,JM			
Grew,ES, Rao,AT, Raju,KKVS, Hejny,C, Moore,JM, Waters,DJ, Yates,MG and Shearer,CK. "Prismatic and ferrogobomite - 2N2S in granulite-facies Fe-oxide lenses in the Eastern Ghats Belt at Venugopalapuram, Vizianagaram district, Andhra Pradesh, India: Do such lenses have a tourmaline-enri lateritic precursor?". <i>Mineralogical Magazine</i> . 2003. 67(5),1081-1098.	0.13		
Tsikos,H, Beukes,NJ, Moore,JM and Harris,C. "Deposition, Diagenesis and Secondary Enrichment of Metals in the Palaeoproterozoic Hotazel Iron Formation, Kalahari Manganese Field, South Africa". <i>Economic Geology</i> . 2003. 98(7),1449-1462.	0.25		
TOTAL FOR GEOLOGY	2.57		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

HISTORY

Gary Baines had two articles published in the *South African Historical Journal* - one on representations of the South African city in film and literature, and another on cultural memory and the South African border war. He also gave papers at the Eastern Cape conference in East London - on the history of New Brighton - and on South African urban policy in the 1940s at a conference at Queen's University in Canada. While in the USA on sabbatical he spent time in Philadelphia pursuing his research into comparative representations of the Vietnam War and South Africa's border war.

Paul Maylam completed a manuscript on the twentieth century cult of Cecil Rhodes, entitled *The Immortal Imperialist*. It is at present being considered for publication.

Carla Tsampiras delivered a paper at the East London Eastern Cape conference - on the subject of slavery in Graaff-Reinet in the 1930s.

Julie Wells continued to work on heritage and tourism, with a particular focus on the life of Makana. She had an article published in *African Studies* on the Grahamstown Egazini project.

Kemp Burbeau graduated with a Ph.D for his thesis on the American evangelist, John Graham Lake - a thesis which is in the process of being published. And Reuben Matheka, who graduated with a Ph.D in 2002, was awarded a prestigious Smuts African studies fellowship at Cambridge in 2003.

PROFESSOR P. MAYLAM
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Baines,G

Baines,G. "On Location: Narratives of the South African City of the late 1940s and 1950s in film and literature". *South African Historical Journal*. 2003. 48,35-46.

Baines,G. "South Africa's Vietnam? Literary History and Cultural Memory of the Border War". *South African Historical Journal*. 2003. (In Press).

Gore,J

Gore,J. "Representations of Non-Indigenous History and identity in the National Museum of Australia and Museum of New Zealand Te Papa Tongarewa". *The Electronic Journal of Australia and New Zealand History*. 2003. (Online).

Wells,J

Wells,J. "From Grahamstown to Egazini: Using Art and History to Construct Post Colonial Identity and Healing in the New South Africa". *African Studies*. 2003. 62(1),79-97.

Wells,J. "The Sabotage of Patriarchy in Colonial Rhodesia, Rural African Women's Living Legacy to their Daughters". *Feminist Review*. 2003. 75,101-117.

OTHER PUBLICATIONS

Gore,J

Gore,J. "Review of the National Museum of Australia: Its exhibitions and public programs". Canberra: Department of Communications, Information Technology and the Arts. 2003.

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

i. Local Conferences (Within South Africa)

Baines,G

Baines,G. "Whose History and Memory is it? Reflecting on Representations of New Brighton's Past". *The Eastern Cape Historical Legacies and New Challenges Conference*. Fort Hare Institute of Social and Economic Research, Alice. August 2003.

Gore,J

Gore,J. "Thoughts on the state of South African history museums - with a focus on the Eastern Cape". *SAMA (South African Museums Association)Eastern Cape Annual Regional Conference*. Somerset East. November 2003.

Tsampiras,C

Tsampiras,C. "Challenging Legacies: Gender, violence and Slavery in Graaff-Reinet (1830-1834)". The Eastern Cape Historical Legacies and New Challenges Conference. Fort Hare Institute of Social and Economic Research, Alice. August 2003.

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

ii. International Conferences (Outside South Africa)

Baines,G

Baines,G. "Revisiting Urban African Policy and the Reforms of the Smuts Government 1939-48". South Africa in the 1940s: Worlds of Possibilities Workshop. Queen's University, Kingston. Canada. September 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Wells,J

Wells,J. Facilitator. "Training in oral history and community heritage liaison for deputy directors". Heritage Workshop, Dept Sport, Recreation, Arts and Culture Directorate of Museums and Heritage. 20 - 21 February 2003.

Wells,J. Member. "Investigating potential role of traditional leaders in rural development; conducted workshops with traditional leaders in 6 provinces". Kara Heritage Institute. Pretoria. 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Baines,G

Baines,G. Maryville College, Maryville, Tennessee, USA. Course called Narratives of War. August - December 2003.

Baines,G. Lasalle University, Philadelphia, USA. Researching special collection called Imaginative Representations of the Vietnam War for my project South Africa's Vietnam? Comparative representations of the border and Vietnam wars. 8 - 12 December 2003.

DISTINGUISHED VISITORS

Professor I Phimister. University of Sheffield, England. Seminar and Lecture. September 2003.

SUBSIDY UNITS CLAIMED

HISTORY	UNITS	IN PRESS	NON SAPSE
Baines,G			
<i>Baines,G. "On Location: Narratives of the South African City of the late 1940s and 1950s in film and literature". South African Historical Journal. 2003. 48,35-46.</i>	1.00		
<i>Baines,G. "South Africa's Vietnam? Literary History and Cultural Memory of the Border War". South African Historical Journal. 2003. (In Press).</i>	1.00	Y	
Gore,J			
<i>Gore,J. "Representations of Non-Indigenous History and identity in the National Museum of Australia and Museum of New Zealand Te Papa Tongarewa". The Electronic Journal of Australia and New Zealand History. 2003. (Online).</i>	1.00		Y
Wells,J			
<i>Wells,J. "From Grahamstown to Egazini: Using Art and History to Construct Post Colonial Identity and Healing in the New South Africa". African Studies. 2003. 62(1),79-97.</i>	1.00		
<i>Wells,J. "The Sabotage of Patriarchy in Colonial Rhodesia, Rural African Women's Living Legacy to their Daughters". Feminist Review. 2003. 75,101-117.</i>	1.00		
TOTAL FOR HISTORY	5.00		
TOTAL IN PRESS	1.00		
TOTAL NON SAPSE	1.00		

HUMAN KINETICS AND ERGONOMICS

2003 was a conference year for the department. The year started off with the World Cricket Conference "Science and Medicine in Cricket" held in Cape Town. C Christie, A Todd and G King presented three papers. The work was based on Greg King's MSc thesis which is the last of the postgrad work in the area of Sports Science. In his closing address Professor Tim Noakes commented on the rigorous standard of research and presentations of the Rhodes University delegates.

This was followed in September with the 15th Triennial Conference of the International Ergonomics Association and the 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society, which was held in Seoul, Korea. In keeping with our international commitment the focus of the department was on the triennial meeting of global Ergonomics' research. The conference was attended by Professor Pat Scott, Candice Christie and Jon James, who between them made nine presentations with co-authors from three other staff and post graduates (Andrew Todd, Miriam Renz and Genevieve James), plus other National and International co-authors. In addition Professor Scott organised three symposia where the focus was on Ergonomics in industrially developing countries. Candice Christie assisted her in putting together 18 international presentations, and together with Jon James Chaired one of the sessions. It was clearly evident that Rhodes University made a substantial contribution to the conference, particularly in the area of Ergonomics in industrially developing countries.

There were 12 papers presented at these two International Conferences, with proceedings being published in CD and book format. However, there was only one journal article in the year, hence the focus of the next two years must be on getting articles published in refereed ergonomics journals.

Professor Scott continues to be Editor of the journal, "Ergonomics: South Africa", which is attracting a growing number of international papers as it becomes recognised as the Ergonomics journal focussing on research being conducted in developing areas.

Although HKE is one of the smaller science departments, we had six Honours students who will graduate in 2004, two MSc students, one of whom will graduate this year and four PhD students all of whom are still working on their thesis.

PROFESSOR P.A. SCOTT
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Scott,PA and Charteris,J

Scott,PA and Charteris,J. "Stress; Strain - What's in a name?". *Ergonomics SA*. 2003. 15(1),67-70.

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

i. Local Conferences (Within South Africa)

Christie,CJ and Todd,AI

Christie,CJ, Todd,AI and King,GA. "Energy cost of batting during a simulated cricket work-bout". *Proceedings of the 2nd World Congress of Science and Medicine in Cricket*. Spier, Stellenbosch. February 2003. 288-299.

King,GA

King,GA. "Physiological, perceptual and performance responses during batting: Impact of clothing and environment". *Proceedings of the 2nd World Congress of Science and Medicine in Cricket*. Spier, Stellenbosch. February 2003. 267-276.

Todd,AI, Scott,PA and Christie,CJ

Todd,AI, King,GA, Scott,PA and Christie,CJ. "Correlation of heart rate and rating of perceived exertion during simulated batting". *Proceedings of the 2nd World Congress of Science and Medicine in Cricket*. Spier, Stellenbosch. February 2003. 277-287.

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

ii. International Conferences (Outside South Africa)

Christie,CJ

Christie,CJ and Renz,M. "Body composition and coronary heart disease risk in male and female Xhosa workers in South Africa". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Christie,CJ and Todd,AI

Christie,CJ, Todd,AI and Southworth,S. "The impact of dehydration on heart rate responses and cognitive functioning". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

James,JP

Thatcher,A and James,JP. "Evaluation of virtual conferencing for Ergonomics". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

James,JP and Todd,AI

James,JP and Todd,AI. "Push-Pull force evaluations in an IDC automotive industry". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Scott,PA

Scott,PA. "The Changing ratio of physical and mental workloads in Industrially Developing Countries". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Scott,PA and Zink,K. "Micro? Macro? - you can't have one without the other". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Scott,PA and James,JP

Scott,PA, James,JP and James,G. "The benefits of personalised computer workstations". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Scott,PA and Todd,AI

Scott,PA and Todd,AI. "The correlation between heart rate and perceptual responses to marching over varying gradients with adjusted loads and speeds". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

Scott,PA, Todd,AI, Christie,CJ and James,JP

Scott,PA, Todd,AI, Christie,CJ and James,JP. "Examples and benefits of 'low cost' interventions in Industrially Developing Countries (IDCs)". *Proceedings: 'Ergonomics in the Digital Age' XVth Triennial Congress of the International Ergonomics Association and The 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society.* Seoul. Korea. August 2003.

SUBSIDY UNITS CLAIMED

HUMAN KINETICS AND ERGONOMICS	UNITS	IN PRESS	NON SAPSE
Scott,PA and Charteris,J			
Scott,PA and Charteris,J. "Stress; Strain - What's in a name?". <i>Ergonomics SA.</i> 2003. 15(1),67-70.	1.00		
TOTAL FOR HUMAN KINETICS AND ERGONOMICS	1.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ICHTHYOLOGY AND FISHERIES SCIENCE

In 2003 the DIFS had a school of some 17 MSc and 17 PhD research students working on diverse aspects of ichthyology, fisheries and aquaculture. DIFS students are also supervised by research staff of the South African Institute of Aquatic Biodiversity (SAIAB). Four PhD theses (Potts, Oosthuisen, Rutaisire, Radull) and seven MSc (Klotz, Daniel, Churchill, Kanyerere, Thompson, Gray, Paulet) were submitted in 2003.

Fisheries research included studies on squid biology (Warwick Sauer), spatial modeling of fish populations (Tony Booth), ragged tooth shark population dynamics (Booth/ Dickon/ Smale), management of trawl by-catch (Sauer/ Walmsley), development of a fisheries management plan for an octopus fishery (Ane Oosthuisen), the Eastern Cape rock and shore recreational fishery (Hecht/ Mackenzie), the movement of estuarine fish using sonic tags (Cowley/ Childs), understanding Plettenberg Bays multi-user fishery (Sauer/ King/ Smith), fish stock assessment in Swaziland dams (Booth/ Khumalo), management of fisheries in Malawi (Hecht/ Chimatiro/ Booth/ Weyl/ Kanyerere), Tsitsikamma fish movement and biology (Cowley/ Booth/ Brouwer), abalone poaching and the potential for abalone reseedling (Britz/ Godfrey).

Aquaculture research. Tom Hecht's research group focused on development of culture techniques for kabeljou and East coast sole. Abalone culture research led by Pete Britz and Horst Kaiser continued in close collaboration with abalone farmers. Topics included abalone feed development, and the life history and control of a parasitic worm. An evaluation of the potential of culturing west coast rock lobsters focused on recruitment of juveniles and experimental growout of juveniles (Britz/ Keulder/ Esterhuizen). A GIS database of the aquaculture potential of the South African coast was completed (Britz/ Klotz).

Ichthyology. Taxonomic studies included a study on pipefish (Mwale/ Heemstra / Anderson) and a revision of the KuhlIID genus (Stapley/ Heemsta). Justus Rutaisire of Makerere University completed his PhD thesis the biology of the "Ningu" cyprinid from Lake Victoria.

PROFESSOR P. BRITZ
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Kaiser,H

Kammerer,M and Kaiser,H. "Nishikigoi Taikan - Ein Koi-Atlas, Varietäten, Zucht, Züchter". In: Nishikigoi Taikan - Ein Koi-Atlas. KOI Verlag GmbH. Rheda-Wiedenbrück, Germany. 2003. 1(1), 1-310.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Booth,AJ

Rutaisire,J, Muwazi,RT and Booth,AJ. "The structure and cytology of the testes of *Labeo victorianus* (Pisces: Cyprinidae)". *African Zoology*. 2003. 1(38),119-126.

Brouwer,SL

Brouwer,SL. "Movement patterns of red steenbras (*Petrus rupestris*) tagged and released in the Tsitsikamma National Park, South Africa". *South African Journal of Marine Science*. 2002. 24,375-378.

Brouwer,SL, Griffiths,MH and Roberts,M. "Adult movement and larval dispersal of *Argyrozona argyrozona* (Pisces Sparidae) from a temperate Marine Protected Area". *African Journal of Marine Science*. 2003. 25,395-402.

Cowley,PD, Brouwer,SL and Tilney,RL. "The role of the Tsitsikamma National Park in the management of four shore-angling fish along the south-eastern Cape coast of South Africa". *South African Journal of Marine Science*. 2002. 24,27-35.

Brouwer,SL and Buxton,CD

Brouwer,SL and Buxton,CD. "Catch and effort of the shore and ski-boat linefisheries along the South African Eastern Cape coast". *South African Journal of Marine Science*. 2002. 24,341-354.

Davis,JA, van Blerk,LL and Hecht,T

Davis,JA, van Blerk,LL, Kirby,R and Hecht,T. "Genetic variation in the mud crab *Scylla serrata* (Forsk., 1775) (Crustacea: Decapoda) in South African estuaries". *African Zoology*. 2003. 38(2),343-350.

Hecht,T

Kaunda,E and Hecht,T. "Life history traits of *Bathyclarias nyasensis* (Siluroidei) in Lake Malawi". *African Zoology*. 2003. 38(1),45-55.

Hecht,T and Sales,J

Hecht,T, Irish,A and Sales,J. "Effect of protein level and varying protein-lipid concentrations of growth characteristics of juvenile spotted grunter *Pomadasys commersonnii* (Haemulidae)". *African Journal of Marine Science*. 2003. 25,283-288.

Kaiser,H

Kaiser,H, Endemann,F and Paulet,TG. "A comparison of artificial and natural foods and their combinations in the rearing of goldfish *Carassius auratus* (L.)". *Aquaculture Research*. 2003. 34,943-950.

Kaiser,H and Oellermann,LK

Kaiser,H, Chalmers,C and Oellermann,LK. "The relationship between copper-related damage and population growth of the rock anemone, *Aiptasia* spp". *Journal of Applied Aquaculture*. 2003. 14(1/2),53-67.

Kaiser,H, Hecht,T and Oellermann,LK

Johnson,G, Kaiser,H, Hecht,T and Oellermann,LK. "Effect of ration size and feeding frequency on growth, size distribution and survival of juvenile clownfish, *Amphiprion percula*". *Journal of Applied Ichthyology*. 2003. 19,40-43.

Oosthuizen,A

Oosthuizen,A and Smale,MJ. "Population biology of *Octopus vulgaris* on the temperate south-eastern coast of South Africa". *Journal of the Marine Biological Association of the United Kingdom*. 2003. 83,535-541.

Paterson,AW

Paterson,AW and Whitfield,AK. "The fishes associated with three intertidal salt marsh creeks in a temperate southern African estuary". *Wetlands Ecology and Management*. 2003. 11(5),305-315.

Sales,J and Britz,PJ

Sales,J and Britz,PJ. "Apparent and true availability of amino acids from common feed ingredients for South African abalone (*Haliotis midae* L.)". *Aquaculture Nutrition*. 2003. 9,55-64.

Sales,J, Britz,PJ and Viljoen,J. "Dietary phosphorus leaching and apparent phosphorus digestibility from different inorganic phosphorus sources for South African abalone (*Haliotis midae* L.)". *Aquaculture Nutrition*. 2003. 9,169-174.

Sales,J, Truter,PJ and Britz,PJ. "Optimum dietary crude protein level for growth in South African abalone (*Haliotis midae* L.)". *Aquaculture Nutrition*. 2003. 9,85-89.

Sauer,WHH and Britz,PJ

Kleinschmidt,H, Sauer,WHH and Britz,PJ. "Commercial fishing rights allocation in post-apartheid South Africa: Reconciling equity and stability". *African Journal of Marine Science*. 2003. 25,25-35.

Sauer,WHH and Hecht,T

Mann,BQ, McDonald,AM, Sauer,WHH and Hecht,T. "Evaluation of participation in and management of the Transkei shore linefishery". *African Journal of Marine Science*. 2003. 25,79-97.

Strydom,NA

Strydom,NA, Whitfield,AK and Wooldridge,TH. "The role of estuarine type in characterizing early stage fish assemblages in warm temperate estuaries". *African Zoology*. 2003. 38(1),29-43.

Vorwerk,PD

Vorwerk,PD, Whitfield,AK, Cowley,PD and Paterson,AW. "The influence of selected environmental variables on fish assemblage structure in a range of southeast African estuaries". *Environmental Biology of Fishes*. 2003. 66,237-247.

Watt-Pringle,P

Watt-Pringle,P and Strydom,NA. "Habitat use by larval fishes in a temperate South African surf zone". *Estuarine Coastal and Shelf Science*. 2003. 58,765-774.

Wood,AD

Wood,AD. "Description of larval *Cynoglossus zanzibarensis* (Teleostei: Cynoglossidae) from the Tsitsikamma Coast, South Africa". *African Journal of Marine Science*. 2003. 25,177-183.

OTHER PUBLICATIONS

Britz,PJ and Oellermann,LK

Britz,PJ, Hochobeb,S, Stephanus,K and Oellermann,LK. "Namibian Mariculture Sub-Sector Scan". Consultancy Report. Walvis Bay Spatial Development Initiative/ Development Bank of South Africa. 2003. 1-114.

Britz,PJ and Rouhani,Q

Britz,PJ, Shipton,T and Rouhani,Q. "Implementation Plan for Small Scale Commercial Abalone TURF's in the Eastern Cape Province". Consultancy Report. Department of Environment Affairs and Tourism and the EU-SADC MCS Fisheries Programme. 2003. 1-19.

Brouwer,SL

Brouwer,SL. "Marine Protected Areas: Do We Need Them?". Kiewiet. 2002. 3-4.

Davies,MTT and Kaiser,H

Davies,MTT and Kaiser,H. "The beneficiation of Acid Mine Effluent (AME) from the New Denmark Power Station/Colliery Complex using an Integrated Systems Approach: Fish Section". Contract Research Report for ESKOM. 2002. 88-98.

De Waal,SWP, Britz,PJ and Sauer,WHH

De Waal,SWP, Britz,PJ and Sauer,WHH. "Northern Cape Province Coastal Management Plan". Consultancy Report. Coastcare Project, Department of Environment Affairs and Tourism. 2003. 1-100.

Kaiser,H

Kammerer,M and Kaiser,H. "Granular activated carbon - for clear and healthy water". Burret, S(eds) Koi Keepers. Arrigato Publishing. Belgium. 2003. 1(3), 29.

Kammerer,M and Kaiser,H. "Monitoring and control of water quality". Burret, S(eds) Koi Keepers. Arrigato Publishing. Belgium. 2003. 1(3), 39.

Kammerer,M and Kaiser,H. "Omosako Shiro Utsuri: Specialisation breeds success". Burret, S(eds) Koi Keepers. Arrigato Publishing. Belgium. 2003. 1(4), 33.

Kammerer,M and Kaiser,H. "Beni Kumonryu". Burret, S(eds) Koi Keepers. Arrigato Publishing. Belgium. 2003. 1(4), 40.

Kammerer,M and Kaiser,H. "Karashigoi - a versatile bloodline". Burret, S(eds) Koi Keepers. Arrigato Publishing. Belgium. 2003. 1(4), 64.

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

i. Local Conferences (Within South Africa)

Kaiser,H

Mwale,M, Heemstra,PC, Barker,NP and Kaiser,H. "Molecular phylogeny of South African pipefish of the genus *Syngnathus* using cytochrome b sequences of mitochondrial DNA". *SASSB IV Congress*. University of Pretoria, Pretoria. July 9-11 2003.

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

ii. International Conferences (Outside South Africa)

Booth,AJ

Booth,AJ. "Spatial statistics and aquatic GIS". *Proceedings of the Second International Symposium on GIS/Spatial Analysis in the Aquatic Sciences*. University of Sussex, Brighton. UK. October 2002.

Booth,AJ and Quinn,TJ. "A Bayesian approach to stock assessment when abundance indices are questionable". *Management in new and developed fisheries in data-limited situations*. Sheraton Hotel, Anchorage. USA. October 2003.

Davies,MTT

Davies,MTT. "The development of flyfishing as a recreational sport in southern Africa. Regional experience for global solutions". *3rd World Recreational Fishing Conference*. Department of Business, Industry and Resource Development, Darwin. Australia. May 2002. 209-211.

Olyott,LJH, *Davies,MTT* and *Walker,DCW*. "The development of a sport fishery information and management system for South African flyfishing". Department of Business, Industry and Resource Development, Darwin. Australia. May 2002. 219-221.

Von Holdt,B, *Davies,MTT* and *Olyott,LJH*. "The role of the Federation of Southern Africa flyfishers as the representative body of flyfishing in southern Africa. Regional experience for global solutions". *3rd World Recreational Fishing Conference*. Department of Business, Industry and Resource Development, Darwin. Australia. May 2002. 213-215.

Godfrey,B and Britz,PJ

Godfrey,B and *Britz,PJ*. "Abalone Stock Enhancement in The Eastern Cape Province South Africa". *5th International Abalone Symposium*. Ocean University of China, Qingdao. China. October 2003. 103.

Kaiser,H

Mwale,M, *Heemstra,PC*, *Kaiser,H* and *Anderson,E*. "Morphological variation in South African pipefishes of the genus *Syngnathus*". *Poisson et peches Africains; African Fish and Fisheries Conference*. Cotonou. Benin. November 10-14 2003.

Weyl,OLF and Booth,AJ

Weyl,OLF, *Booth,AJ*, *Mwakiyongo,K* and *Banda,M*. "Per-recruit simulation as a rapid assessment tool for a multi-species small-scale fishery in Lake Malombe, Malawi, Africa". *Management in new and developed fisheries in data-limited situations*. Sheraton Hotel, Anchorage. USA. October 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Booth,AJ**

Booth,AJ. School of Fisheries and Ocean Sciences, Juneau, USA. Fulbright research. 1 January - 28 February 2003.

SUBSIDY UNITS CLAIMED

ICHTHYOLOGY AND FISHERIES SCIENCE	UNITS	IN PRESS	NON SAPSE
Booth,AJ			
<i>Rutaisire,J</i> , <i>Muwazi,RT</i> and <i>Booth,AJ</i> . "The structure and cytology of the testes of <i>Labeo victorianus</i> (Pisces: Cyprinidae)". <i>African Zoology</i> . 2003. 1(38),119-126.	0.34		
Brouwer,SL			
<i>Brouwer,SL</i> . "Movement patterns of red steenbras (<i>Petrus rupestris</i>) tagged and released in the Tsitsikamma National Park, South Africa". <i>South African Journal of Marine Science</i> . 2002. 24,375-378.	1.00		
<i>Brouwer,SL</i> , <i>Griffiths,MH</i> and <i>Roberts,M</i> . "Adult movement and larval dispersal of <i>Argyrozona argyrozona</i> (Pisces Sparidae) from a temperate Marine Protected Area". <i>African Journal of Marine Science</i> . 2003. 25,395-402.	0.34		
<i>Cowley,PD</i> , <i>Brouwer,SL</i> and <i>Tilney,RL</i> . "The role of the Tsitsikamma National Park in the management of four shore-angling fish along the south-eastern Cape coast of South Africa". <i>South African Journal of Marine Science</i> . 2002. 24,27-35.	0.34		
Brouwer,SL and Buxton,CD			
<i>Brouwer,SL</i> and <i>Buxton,CD</i> . "Catch and effort of the shore and ski-boat linefisheries along the South African Eastern Cape coast". <i>South African Journal of Marine Science</i> . 2002. 24,341-354.	1.00		
Davis,JA, van Blerk,LL and Hecht,T			
<i>Davis,JA</i> , <i>van Blerk,LL</i> , <i>Kirby,R</i> and <i>Hecht,T</i> . "Genetic variation in the mud crab <i>Scylla serrata</i> (Forsk., 1775) (Crustacea: Portunidae) in South African estuaries". <i>African Zoology</i> . 2003. 38(2),343-350.	0.75		
Hecht,T			
<i>Kaunda,E</i> and <i>Hecht,T</i> . "Life history traits of <i>Bathyclarias nvasensis</i>	1.00		

(Siluroidei) in Lake Malawi". <i>African Zoology</i> . 2003. 38(1),45-55.			
Hecht,T and Sales,J			
Hecht,T, Irish,A and Sales,J. "Effect of protein level and varying protein-lipid concentrations of growth characteristics of juvenile spotted grunter <i>Pomadasys commersonnii</i> (Haemulidae)". <i>African Journal of Marine Science</i> . 2003. 25,283-288.	1.00		
Kaiser,H			
Kaiser,H, Endemann,F and Paulet,TG. "A comparison of artificial and natural foods and their combinations in the rearing of goldfish <i>Carassius auratus</i> (L.)". <i>Aquaculture Research</i> . 2003. 34,943-950.	1.00		
Kaiser,H and Oellermann,LK			
Kaiser,H, Chalmers,C and Oellermann,LK. "The relationship between copper-related damage and population growth of the rock anemone, <i>Aiptasia</i> spp". <i>Journal of Applied Aquaculture</i> . 2003. 14(1/2),53-67.	1.00		
Oosthuizen,A			
Oosthuizen,A and Smale,MJ. "Population biology of <i>Octopus vulgaris</i> on the temperate south-eastern coast of South Africa". <i>Journal of the Marine Biological Association of the United Kingdom</i> . 2003. 83,535-541.	0.50		
Paterson,AW			
Paterson,AW and Whitfield,AK. "The fishes associated with three intertidal salt marsh creeks in a temperate southern African estuary". <i>Wetlands Ecology and Management</i> . 2003. 11(5),305-315.	0.50		
Sales,J and Britz,PJ			
Sales,J and Britz,PJ. "Apparent and true availability of amino acids from common feed ingredients for South African abalone (<i>Haliotis midae</i> L.)". <i>Aquaculture Nutrition</i> . 2003. 9,55-64.	1.00		
Sales,J, Britz,PJ and Viljoen,J. "Dietary phosphorus leaching and apparent phosphorus digestibility from different inorganic phosphorus sources for South African abalone (<i>Haliotis midae</i> L.)". <i>Aquaculture Nutrition</i> . 2003. 9,169-174.	0.67		
Sales,J, Truter,PJ and Britz,PJ. "Optimum dietary crude protein level for growth in South African abalone (<i>Haliotis midae</i> L.)". <i>Aquaculture Nutrition</i> . 2003. 9,85-89.	0.67		
Sauer,WHH and Britz,PJ			
Kleinschmidt,H, Sauer,WHH and Britz,PJ. "Commercial fishing rights allocation in post-apartheid South Africa: Reconciling equity and stability". <i>African Journal of Marine Science</i> . 2003. 25,25-35.	0.67		
Sauer,WHH and Hecht,T			
Mann,BQ, McDonald,AM, Sauer,WHH and Hecht,T. "Evaluation of participation in and management of the Transkei shore linefishery". <i>African Journal of Marine Science</i> . 2003. 25,79-97.	0.75		
Strydom,NA			
Strydom,NA, Whitfield,AK and Wooldridge,TH. "The role of estuarine type in characterizing early stage fish assemblages in warm temperate estuaries". <i>African Zoology</i> . 2003. 38(1),29-43.	0.34		
Vorwerk,PD			
Vorwerk,PD, Whitfield,AK, Cowley,PD and Paterson,AW. "The influence of selected environmental variables on fish assemblage structure in a range of southeast African estuaries". <i>Environmental Biology of Fishes</i> . 2003. 66,237-247.	0.25		
Watt-Pringle,P			
Watt-Pringle,P and Strydom,NA. "Habitat use by larval fishes in a temperate South African surf zone". <i>Estuarine Coastal and Shelf Science</i> . 2003. 58,765-774.	0.50		
Wood,AD			
Wood,AD. "Description of larval <i>Cynoglossus zanzibarensis</i> (Teleostei: Cynoglossidae) from the Tsitsikamma Coast, South Africa". <i>African Journal of Marine Science</i> . 2003. 25,177-183.	1.00		
TOTAL FOR ICHTHYOLOGY AND FISHERIES SCIENCE	14.62		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INFORMATION SYSTEMS (GRAHAMSTOWN)

A total 35 post-graduate honours (20), masters (5) and doctoral (1) students engaged in a variety of research projects during the year. Additionally, a number of post-graduate students in the Department of Management (doctoral – 1), Department of Computer Science (masters – 2) and the Rhodes Investec Business School (RIBS) (masters – 2) were supervised by members of the Department.

Areas of research included: Information Systems security, website design, e-Marketing, e-Learning, database functionality, multimedia distribution on an intranet, ethics in Information Systems, customer relationship management, mobile commerce, alignment of business and IT strategy.

Members of staff and students participated in a number of local and international conferences: South African Institute for Computer Scientists and Information Technologists (SAICSIT-2003) Conference, South African Academic Development Association (SAADA-2003) Conference, Southern African Computer Lecturers' Association (SACLA-2003) Conference, Southern African Institute for Management Scientists (SAIMS-2003) Conference, World Multiconference on Systemics, Cybernetics and Informatics (SCI-2003).

Mr Sunassee was invited to present details of his research in Knowledge Management to an influential Johannesburg-based group of Knowledge Management practitioners from industry, academe, and Government in September 2003.

Mrs Mallinson initiated the open Webinar series held on an ad hoc basis in 2003. The webinars consist of live streamed web seminars (comprising audio, video, slides, shared desk top applications and two way communication) on a variety of eLearning topics presented by experts in the field. Those IT academics and researchers interested in particular topics were invited to attend. The series has been formalised for 2004 and made available via the Hamilton Building facilities to the wider Rhodes Academic community.

Status of Post-Graduate Programme		
Level	Registered (2003)	Expected to Graduate (April, 2004)
Honours	29	29
Masters	5	0
Doctoral	1	0

PROFESSOR D. SEWRY
HEAD OF DEPARTMENT

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

i. Local Conferences (Within South Africa)

Mallinson, BJ

Mallinson, BJ. "Student Self-Reflection as a Tool to Promote Learning Responsibility: A case study in the Department of Information Systems, Rhodes University". *SAADA Conference*. Cape Technikon, Cape Town. December 2003.

Mallinson, BJ and Sewry, DA

Krull, GE, Mallinson, BJ and Sewry, DA. "An Investigation of the Development and Adoption of Metadata Standards for the Widespread use of Learning Objects". *SAICSIT-2003 Postgraduate Research Symposium*. Indaba Hotel, Johannesburg. September 2003. 12-14.

McNeill, JB

Tedder, D and McNeill, JB. "An Investigation of the Evolution of the Information Systems Professional's Career Path in relation to a Skills Spectrum within a South African Context". *SAICSIT-2003 Postgraduate Research Symposium*. Indaba Hotel, Johannesburg. September 2003. 35-38.

Palmer, L

Palmer, L. *SACLA Conference*. June 2003.

Sewry,DA

Elliot,RM, Maas,G and Sewry,DA. "Developing an internet marketing model for small businesses in the tourism sector". *2003 Southern Africa Institute for Management Scientists (SAIMS) Annual Conference.* University of Potchefstroom, Potchefstroom. September 2003.

Elliott,RM, Maas,G and Sewry,DA. "Developing an Internet Marketing Model For Small Businesses In The Tourism Sector". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference.* Mpkweni Sun. October 2003.

Swales,D, Sewry,DA and Terzoli,A. "A Performance Comparison of Web Development Technologies to Distribute Mutlimedia across an Intranet". *South African Telecommunications and Network Applications Conference (SATNAC) 2003.* Fancourt, George. September 2003. ISBN 0-620-30949-0.

Sunasse,NN and Sewry,DA

Sunasse,NN and Sewry,DA. "An Investigation of Knowledge Management Implementation Strategies". *SAICSIT-2003 IT Research in Developing Countries.* Indaba Hotel, Johannesburg. September 2003. 24-36.

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

ii. International Conferences (Outside South Africa)

Sunasse,NN and Sewry,DA

Sunasse,NN and Sewry,DA. "A Theoretical Framework for Knowledge Management". *7th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2003).* Sheraton World Resort, Orlando, Florida. USA. July 2003.

DISTINGUISHED VISITORS

Professor M Sainsbury. UTiSUN, Johannesburg. Lecture. September 2003.

Professor M Sainsbury. UTiSUN, Johannesburg. Lecture. October 2003.

Dr R Weeks. IBM, Johannesburg. Lecture. September 2003.

SUBSIDY UNITS CLAIMED

INFORMATION SYSTEMS	UNITS	IN PRESS	NON SAPSE
TOTAL FOR INFORMATION SYSTEMS	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INFORMATION SYSTEMS (EAST LONDON)

A total 15 post-graduate honours students engaged in a variety of research projects during the year.

Areas of research included: customer relationship management, ICT and Business, Knowledge Management, e-Learning, e-Commerce.

Mr Danie Vlok attended the launch of the South African Government's Learning and Knowledge Management Initiative in Johannesburg on 21 February 2003. He also represented the Department at the Knowledge Management Colloquium, held at the University of Stellenbosch on 28 and 29 July 2003. Furthermore, a number of contacts were made with leading international academics and practitioners in the field of Knowledge Management.

Status of Post-Graduate Programme		
Level	Registered (2003)	Expected to Graduate (April, 2004)
Honours	15	12
Masters	0	0
Doctoral	0	0

PROFESSOR D. SEWRY
HEAD OF DEPARTMENT

SUBSIDY UNITS CLAIMED

INFORMATION SYSTEMS (East London)	UNITS	IN PRESS	NON SAPSE
TOTAL FOR INFORMATION SYSTEMS (East London)	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

In 2003 ISER embarked on new projects and contributed to several international conferences. ISER's PEOPLE (Empowerment of People, Land and the Environment) research programme led by Herman Timmermans launched a study to update earlier research on how poor households manage their resources in the Dwesa-Cwebe reserve. Michelle Cocks presented on Eastern Cape's medicinal plant trade at the Global Summit on Medicinal Plants held in Mauritius. Director Valerie Møller gave a special lecture in the opening session of the Fifth Conference of the International Society for Quality-of-Life Studies held in Frankfurt, Germany, where she reported on ISER's South African Quality of Life Trends Study which covers twenty years.

PROFESSOR V. MOLLER
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Cocks,ML

Dold,AP and *Cocks,ML*. Guidelines for the cultivation of selected medicinal plants in the Eastern Cape Province. Siyakhholwa Development Foundation. Keiskammahoek. 2003. 38 pp.

Moller,V

Moller,V. "Quality of life and positive youth development in Grahamstown East South Africa". In: Sirgy,MJ, Rahtz,D and Samli, AC(eds) *Advances in Quality-of-Life Theory and Research*. Kluwer Academic Publishers. Dordrecht, The Netherlands. 2003. 53-80.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Moller,V

Moller,V and Devey,R. "Trends in living conditions and satisfaction among poorer older South Africans: Objective and Subjective indicators of quality of life in the October Household Survey". *Development Southern Africa*. 2003. 20(4),457-476.

OTHER PUBLICATIONS

Cocks,ML

Cocks,ML, *Dold,AP* and Wiersum,KF. "The Cost of Culture the role of natural resources in maintaining Xhosa customs in the Eastern Cape". Voget, C(eds) *Veld & Flora*. South African National Botanical Society. Cape Town. 2003. 89, 146-149.

Dold,AP and *Cocks,ML*. "Turksvy Stoop - A successful home industry in the Eastern Cape". Styles, D(eds) *Plant Life*. Plant Life Non-Profit Organisation. Musgrave. 2003. 29, 5-7.

Cocks,ML and Sizane,N

Cocks,ML, *Dold,AP* and *Sizane,N*. "Fine Fare Rare Remedy. *Hydnora africana* a most unusual and versatile parasitic plant". Voget, C(eds) *Veld & Flora*. South African National Botanical Society. Cape Town. 2003. 89, 12-14.

Moller,V

Devey,R and *Moller,V*. "Closing the gap between rich and poor in South Africa". *Urban Health and Development Bulletin*. 2003. 6(1 and 2), 22-34.

Moller,V and Ferreira,M. *Getting By: Benefits of non-contributory pension income for older South African households*. Institute of Ageing in Africa. University of Cape Town. 2003. 1-79.

Moller,V and Huschka,D

Moller,V and *Huschka,D*. "Applying subjective and objective indicators to assess the impact of national policies and programmes in citizen quality of life". *Urban Health and Development Bulletin*. 2003. 6(1 and 2), 4-21.

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

i. Local Conferences (Within South Africa)

Cocks,ML

Cocks,ML, Dold,AP, Lubke,RA and Pote,J. "Domestication of Indigenous Medicinal Plants in the Eastern Cape Province". *SANPAD Conference*. Royal Hotel, Durban. May 2003.

Cocks,ML, Dold,AP, Lubke,RA and Pote,J. "Indigenous Medicinal Plants in the Eastern Cape Province". *Indigenous Plant Use Forum: Indigenous Knowledge Systems and Intellectual Property Rights*. Civic Centre, Rustenburg. July 2003.

Cocks,ML, Pote,J, Lubke,RA and Dold,AP. "Domestication of endangered indigenous medicinal plants in the Eastern Cape". *Indigenous Plant Use Forum*. Rustenburg. July 2003.

Grundy,IM and Cocks,ML. "Community Use and Management of Woody Vegetation in the Eastern Cape South Africa". *Proceedings of the 3rd Natural Forests and Savanna Woodlands Symposium*. Berg-en-Dal. May 2002.

Postma,M, Husselman,M, Madikizela,S, Gaty,M and Cocks,ML. "Local perceptions on the cultivation of indigenous medicinal plants in home gardens in the Amatola region". *Indigenous Plant Use Forum*. Rustenburg. July 2003.

Cocks,ML and Sizane,N

Cocks,ML, Dold,AP and Sizane,N. "Ubuhlanti and Igoqo – the use of woody plant material in the maintenance of household cultural artefacts". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "The cultural significance of *Olea europaea* subsp. *africana*". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "The use of woody plant material in the maintenance of Ubuhlanti and Amagoqo". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Cocks,ML, Dold,AP and Sizane,N. "Intelezi in the Eastern Cape - the cultural significance of some succulent plants". *African Ritual and Environment Conference*. Rhodes University, Grahamstown. September 2003.

Seti,S

Seti,S. "Subsistence gardening for food security: A case study of three townships in Grahamstown Eastern Cape Province". *The Eastern Cape: Historical Legacies and New Challenges*. University of Fort Hare, East London. August 2003.

Sizane,N and Cocks,ML

Sizane,N, Dold,AP and Cocks,ML. "Imithi yamasiko – the cultural significance of *Olea europaea* subsp. *africana*". *African Ritual and Environmental Conference*. Rhodes University, Grahamstown. September 2003.

Timmermans,H

Timmermans,H. "Multiple use management of forest resources in Centane and Willowvale Eastern Cape province". *Third Natural Forests and Savanna Woodlands Symposium*. Kruger National Park, May 2002.

Timmermans,H. "Assessing the value of socio-ecological systems theory to the study of environmental management in the former Transkei". *Historical Legacies and New Challenges Conference*. Regent Hotel, East London. August 2003.

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

ii. International Conferences (Outside South Africa)

Cocks,ML

Cocks,ML, Dold,AP, Husselman,M and Postma,M. "Ex-situ conservation of medicinal plants in the Eastern Cape South Africa". *Global Summit on Medicinal Plants*. Maritim Hotel Arsenal Mauritius, Arsenal. Mauritius. September 2003.

Cocks,ML and Wiersum,KF. "The significance of plant diversity to rural households in Eastern Cape Province of South Africa". *Proceedings of the Third International Congress of Ethnobotany*. Naples. Italy. 2001.

Moller,V

Moller,V. "Peaceful co-existence in South Africa in the millennium: A review of social indicators in the 2002 democracy study". *Byblos Autumn School on Ethno-religious Conflict and Modes of Regulation*. Arnold Bergstraesser Institute, Freiburg I Br. Germany. November December 2003.

Moller,V. "Quality of life in a divided society". *Fifth Conference of the International Society for Quality-of-Life Studies*. Johann Wolfgang Goethe University, Frankfurt a M. Germany. July 2003.

Moller,V and Huschka,D

Moller,V and *Huschka,D*. "Determinants of life satisfaction in South Africa's transition". *Fifth Conference of the International Society for Quality-of-Life Studies*. Johann Wolfgang Goethe University, Frankfurt a M. Germany. July 2003.

Moller,V and Seti,S

Moller,V and *Seti,S*. "Once were gardens....: Stories of vegetable gardening in the Eastern Cape South Africa". *XV International Union of Anthropological and Ethnological Sciences Congress*. University of Florence, Florence. Italy. July 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Cocks,ML**

Cocks,ML. Wageningen University, Wageningen, Netherlands. PhD Studies. 29 October - 2 December 2003.

DISTINGUISHED VISITORS

Professor T H Eriksen. University of Oslo, Oslo Norway. Seminar. May 2003.

Dr J Pfeiffer. Department of Pomology University of California, Davis California. Collaboration on a book and Seminar. July 2003.

Professor D C Shin. University of Missouri, Columbia USA. Seminar. March 2003.

Dr KF Wiersum. Forest and Nature Conservation Policy Group Department of Environment Sciences, Wageningen The Netherlands. Collaborator on the project team. January 2003.

SUBSIDY UNITS CLAIMED

INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH	UNITS	IN PRESS	NON SAPSE
Moller,V			
<i>Moller,V</i> and <i>Devey,R</i> . "Trends in living conditions and satisfaction among poorer older South Africans: Objective and Subjective indicators of quality of life in the October Household Survey". <i>Development Southern Africa</i> . 2003. 20(4),457-476.	0.50		
TOTAL FOR INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH	0.50		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA

The following research projects are under way:

ISEA Director Professor Laurence Wright is pursuing research into aspects of South African Language Policy, with a special emphasis on economic factors. He was an invited contributor to a special South African issue of *Language Problems and Language Planning* (forthcoming). A series of articles has appeared that will form part of a book entitled *English and the Future of South Africa* for Natal University Press.

First fruits of the Director's research into the history of Shakespeare in South Africa appeared in the form of an illustrated web-article for the Internet Shakespeare Editions' forum on 'Shakespeare around the Globe' (University of Victoria, BC). He is also coordinating a special edition of *English in Africa* on the local writer R.L. Peteni, whose novel *Hill of Fools* is a South African version of *Romeo and Juliet*, but with undertones of political irony directed at the politics of the former Bantustans. He delivered two papers on Peteni in 2003.

Alan Macintosh Research Fellow Margie Probyn is researching a structured, coherent approach to teaching science through the medium of English as an additional language. She is working with a group of grade 8 science teachers and their learners in ex-DET schools to develop the approach. Fieldwork for Computer software for video analysis has been purchased in collaboration with the Environmental Education Unit and the necessary hardware has also been acquired. Funding for the research was obtained from the NRF in July.

Research Officer Cossie Rasana is in the process of publishing papers based on her M.Ed research. In 2004 she and Margie Probyn will be involved in the International PIRL research project into reading levels, in cooperation with Sarah Howie and other researchers from the University of Pretoria. In the longer term, she will be researching the achieved reading levels of Grade 10 learners in some Grahamstown schools for her Ph.D studies, with a view to designing an intervention programme.

Research Associate Chris Mann's *WordBeacons* project has received its first international order for two portable prototypes from the Centre for the Fine Arts at the University of Singapore. The beacons are sculptural light-boxes the aim of which is to give a public presence to word-art (poetry, proverbs etc.) in multilingual environments. The project is funded by the Pan South African Language Board.

PROFESSOR L. WRIGHT
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Berold,R

Berold,R. South African Poets on Poetry: Interviews from New Coin 1992-2001. Berold, R(eds) Gecko Poetry. Scottsville, Pietermaritzburg. 2003. 182 pp.

Wright,LS

Wright,LS. "Introduction". In: Scatter the Shrilling Bones. Lovedale Press. Alice. 2003. 4-10.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Mann,CM

Mann,CM. "Lament for a Species". *New Coin*. 2003. 39(2),35-36.

Mann,CM. "The Resilience of the Word: Wordfest 2003". *New Coin*. 2003. 39(2),89-94.

Mann,CM. "Towards a Universal Declaration of the Rights and Responsibilities of Poets". *New Contrast*. 2003. 31(1),6-8.

Mann,CM. "Maggots". *New Contrast*. 2003. 31(3),31-32.

Mann,CM. "Jellyfish". *New Contrast*. 2003. 31(3),33-33.

Mann,CM. "Dicynodont". *New Contrast*. 2003. 31(3),34-35.

Mann,CM. "Tortoise". *New Contrast*. 2003. 31(3),36-37.

Wright,LS

Wright,LS. "Why English dominates the central economy: An economic perspective on 'elite closure' and South African language policy". *CSA Linguistics & Language Behaviour Abstracts*. 2003.

Wright,LS. "Why English dominates the central economy: An economic perspective on 'elite closure' and South African language policy". *CSA Political Science Abstracts*. 2003.

Wright,LS. "Why English dominates the central economy: An economic perspective on 'elite closure' and South African language policy". *CSA Sociological Abstracts*. 2003.

Wright,LS. "Language as a 'Resource' in South Africa: The economic life of language in a globalising society". *English Academy Review*. 2002. 19,2-19.

Wright,LS. "Why English dominates the central economy: An economic perspective on 'elite closure' and South African language policy". *International Bibliography of the Social Sciences*. 2003.

Wright,LS. "Can formal language planning link to grassroots cultural initiatives?: An informal investigation". *Per Linguam*. 2002. 18(2),1-18.

Wright,LS. "A checklist of South African theses and dissertations on Shakespeare". *Shakespeare in Southern Africa*. 2002. 14,43-47.

Wright,LS. "Taking language issues to the people': Language development in context". *Southern African Linguistics and Applied Language Studies*. 2002. 20,337-347.

Wright,LS. "Shakespeare's The Tempest ('Sebastian's apple') The Tempest 2.1:89-92". *The Explicator*. 2003. 61(2 (Winter),75-77.

OTHER PUBLICATIONS**ISEA**

ISEA. Finlay, A(eds) ISEA. Grahamstown. 2003. 39(2), 1.

ISEA. *English in Africa*. Mackenzie, C(eds) ISEA. Grahamstown. 2002. 29(2), 1-176.

ISEA. *English in Africa*. Mackenzie, C(eds) ISEA. Grahamstown. 2003. 30(1), 1-184.

ISEA. *New Coin*. Metelerkamp, J(eds) ISEA. Grahamstown. 2002. 38(2), 1-96.

ISEA. *New Coin*. Metelerkamp, J(eds) ISEA. Grahamstown. 2003. 39(1), 1-96.

ISEA. *Shakespeare in Southern Africa*. Pearce, B(eds) ISEA. Grahamstown. 2002. 14, 1-86.

ISEA. Ayliff,D and Renard, A(eds) Shakespeare on Love. ISEA. Grahamstown. 2003. 1-92.

ISEA. *Shakespeare in Southern Africa*. Pearce, B(eds) ISEA. Grahamstown. 2003. 15. (In Press).

ISEA (Solberg)

ISEA (Solberg). Wright, LS(eds) South African Theatre in the Melting Pot: Interviews with Theatre Practitioners. ISEA. Grahamstown. 2003. 1-297.

Mann,CM

Mann,CM. A Small Flask of Myrrh. Grahamstown Cathedral. Grahamstown. 2003. 1-2.

Mann,CM. "The Whirlwind of Ideas". Van Graan, M(eds) Artwatch. Artwatch. Cape Town. 2003. 20-Dec-03, 1-1.

Mann,CM. Whisson, M(eds) In Praise of the Shades. Grahamstown Cathedral. Grahamstown. 2003. 1-36.

Mann,CM. "Breaking the Silence". Makhanya, M(eds) Mail and Guardian. M & G Media Limited. Johannesburg. 2003. 31-Dec-03, 54-54.

Mann,CM. "Thuthula still causing a rumpus". Greig, R(eds) Sunday Independent. Johnnic. Johannesburg. 2003. 22-Jun-03, 11-11.

Mann,CM. "The Leopard and the Heart's Gazelles". Whisson, M(eds) The Spire. Grahamstown Cathedral. Grahamstown. 2003. 6-6.

Mann,CM. "Weaver Birds and Lilies". Whisson, M(eds) The Spire. Grahamstown Cathedral. Grahamstown. 2003. 6-6.

Mann,CM. "The Elephant's Graveyard". Whisson, M(eds) The Spire. Grahamstown Cathedral. Grahamstown. 2003. 6-6.

Wright,LS

Wright,LS. "Review of Heiner Müller's Hamletmachine, directed by Gideon van Eeden for the Technicon Pretoria Drama Department". *Shakespeare in Southern Africa*. Pearce, B(eds) ISEA. Grahamstown. 2002. 14, 58-59.

Wright,LS. "Review of The Taming of the Shrew: Mannville's 30th Anniversary Production". *Shakespeare in Southern Africa*. Pearce, B(eds) ISEA. Grahamstown. 2002. 14, 49-50.

Wright,LS. "Review of Lipika Sidkar, Shakespeare in the Media: Newspaper Response to Shakespeare in Post-Independence West Bengal, 1948-97". *Shakespeare in Southern Africa*. Pearce, B(eds) ISEA. Grahamstown. (In Press).

Wright,LS. "Towards a repertoire of appropriate language development strategies to assist in the development of South Africa's previously marginalized languages (PMLs)". NRF Research Report. 2002. (In Press).

Wright,LS. "Working to Build South Africa's Languages: A Manual promoting Community Language Action and Awareness". NRF Research Report. 2002. (In Press).

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

i. Local Conferences (Within South Africa)

Probyn,MJ

Probyn,MJ. "Accessing Science through English Second language: Evidence from secondary school classrooms". *Third International Conference on Science, Mathematics and Technology Education*. Curtin University of Technology and Rhodes East London, East London. January 2003.

Probyn,MJ. "Making sense of classroom video data with vPrism software". *Kenton/Saches Conference*. October 2003.

Rasana,NH

Rasana,NH. "What You Teach Versus How You Teach: Examining the Relation Between Outcomes-based Education and Content-based Instruction in English Second Language Classes". *SAALA/LSSA Conference*. RAU, Johannesburg. July 2003.

Wright,LS

Wright,LS. "A South African Romeo and Juliet: Randall Peteni's Hill of Fools". *6th Triennial Congress of the Shakespeare Society of Southern Africa*. Rhodes University, Grahamstown. June 2003.

Wright,LS. "Language and Value: Towards accepting a richer linguistic ecology for South Africa". *21st World Congress of the International Federation of Modern Language Associations (FIPLV)*. RAU, Johannesburg. July 2003.

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

ii. International Conferences (Outside South Africa)

Probyn,MJ

Probyn,MJ. "Learning science through two languages in South Africa". *4th International Symposium on Bilingualism (ISB4)*. Arizona State University, USA. April 2003.

Rasana,NH

Rasana,NH. "The Reading Preferences of Grade 11 ESL Learners in Grahamstown, Eastern Cape, South Africa". *3rd Pan African Reading for All Conference*. Kampala. Uganda. August 2003.

Wright,LS

Wright,LS. "The sources of 'gentle stoicism': Re-reading Peteni's Hill of Fools (Kwazidenge) through its publishing history". *29th Annual Conference of the African Literature Association*. Alexandria. Egypt. March 2003.

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

Mann,CM. "*Thuthula: Heart of the Labyrinth*". Thuthula: Heart of the Labyrinth. Rhodes University. Grahamstown. 30 June - 5 July 2003.

DISTINGUISHED VISITORS

Ms N Balindlela. Department of Arts & Culture, Eastern Cape, Bisho. Participated at Wordfest. July 2003.

Professor J Berthoud. University of York, York, UK. Keynote speaker at the 6th Triennial Shakespeare Congress. June 2003.

Dr A Childs. University of Oxford, Oxford, UK. Collaboration on ACE ELT Course. August 2003.

Ms P Gobodo-Madikizela. University of Cape Town, Cape Town. Attended and performed at Wordfest. July 2003.

Ms Z Jaffer. University of Cape Town, Cape Town. Attended and performed at Wordfest. July 2003.

Ms A Krog. Poet, Cape Town. Attended and performed at Wordfest. July 2003.

Professor B Lindfors. University of Texas, Texas, USA. Speaker at the 6th Triennial Shakespeare Congress. July 2003.

Mr G Mona. Dept. Sport Art & Culture, Eastern Cape, Bisho. Delegate: Wordfest. July 2003.

Mr P Newmark. International Theatre Director, London, UK. Lectured and Directed Shakespearean Play. April to August 2003.

Judge A Sachs. Constitutional Court, Johannesburg. Participated in Wordfest's Reconciliation Ceremony. July 2003.

Professor N Saule. UNISA, Pretoria. Participated in Wordfest. July 2003.

Dr M Schroenn. Independent Schools' Association, South Africa. Guest Lecturer at Shakespeare Congress. June 2003.

Archbishop D Tutu. Church of the Province of South Africa, Cape Town. Participated in Wordfest. July 2003.

Professor C Wortham. University of Western Australia, Australia. Guest Lecturer at Shakespeare Congress. June 2003.

SUBSIDY UNITS CLAIMED

INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA	UNITS	IN PRESS	NON SAPSE
Mann,CM			
<i>Mann,CM</i> . "Lament for a Species". <i>New Coin</i> . 2003. 39(2),35-36.	1.00		
<i>Mann,CM</i> . "The Resilience of the Word: Wordfest 2003". <i>New Coin</i> . 2003. 39(2),89-94.	1.00		
<i>Mann,CM</i> . "Towards a Universal Declaration of the Rights and Responsibilities of Poets". <i>New Contrast</i> . 2003. 31(1),6-8.	1.00		
<i>Mann,CM</i> . "Maggots". <i>New Contrast</i> . 2003. 31(3),31-32.	1.00		
<i>Mann,CM</i> . "Jellyfish". <i>New Contrast</i> . 2003. 31(3),33-33.	1.00		
<i>Mann,CM</i> . "Dicynodont". <i>New Contrast</i> . 2003. 31(3),34-35.	1.00		
<i>Mann,CM</i> . "Tortoise". <i>New Contrast</i> . 2003. 31(3),36-37.	1.00		
Wright,LS			
<i>Wright,LS</i> . "Language as a 'Resource' in South Africa: The economic life of language in a globalising society". <i>English</i>	1.00		

<i>Academy Review</i> . 2002. 19,2-19.			
Wright,LS. "Can formal language planning link to grassroots cultural initiatives?: An informal investigation". <i>Per Linguam</i> . 2002. 18(2),1-18.	1.00		
Wright,LS. "A checklist of South African theses and dissertations on Shakespeare". <i>Shakespeare in Southern Africa</i> . 2002. 14,43-47.	1.00		
Wright,LS. "Taking language issues to the people': Language development in context". <i>Southern African Linguistics and Applied Language Studies</i> . 2002. 20,337-347.	1.00		
Wright,LS. "Shakespeare's The Tempest ('Sebastian's apple') The Tempest 2.1:89-92". <i>The Explicator</i> . 2003. 61(2 (Winter),75-77.	1.00		
TOTAL FOR INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA	12.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INSTITUTE FOR WATER RESEARCH

This first section summarises the quantifiable achievements of the Institute in the three core areas of research, teaching and consultancies. It is followed by a section on each of the Institute's research groups: 7WRC and 2 DWAF research projects are being addressed; 1 major consultancy project and several small ones have been undertaken; 7 MSc and 3 PhD students are being supervised by members of the Institute. Institute staff in the Departments of Zoology and Entomology, Geography and Environmental Science has undertaken a total of 204 hours of undergraduate lecturing and field trips. Members of the Institute at Rhodes have published 5 papers in refereed journals, submitted 3 papers for publication, written 7 reports, made 15 conference presentations and 1 workshop presentation.

HYDROLOGY SECTION

Professor Hughes presented an invited keynote paper at the international conference on Integrated Water Resource Management held during January in Stellenbosch. The title of the paper was 'Sustainable Regional Water Resource Development in the SADC Region'. While it was the intention to publish the papers as an IAHS 'Red Book' (the associations series of conference proceedings), this has unfortunately yet to happen. Professor Hughes travelled to Sapporo, Japan to attend the XXIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) and present a paper in the IAHS symposium on Water Resource Systems: Global Change, Risk Assessment and Water Resources. During the conference Professor Hughes was confirmed as one the three Vice Presidents of the International Commission on Surface Water, a position that he will hold for three years.

The hydrology section (Professor Hughes, Mrs McLean and Mr Forsyth) organised the 11th SANCIAHS National Hydrology Symposium (3rd to 5th September) at PE Technikon with the able assistance of the Technikon's Civil Engineering Department.

ECOLOGY SECTION

In February this year Jay O'Keeffe was invited as keynote speaker to the annual research meeting of the Norwegian Environmental Flows Programme in Oslo. He delivered two papers, participated in a review workshop, and attended meetings with the Norwegian Department of Water Affairs to discuss future directions for environmental flow implementation. In June Jay was invited to the Second International Seminar on Watershed Management in Wisconsin, USA. The seminar was organized as a tour of the watersheds and natural resources of the state, with 22 invited participants from 15 countries. Jay presented a paper, jointly authored with Tally Palmer, on the 1998 South African Water Act. As a result of this seminar, a joint research proposal has been submitted to the Water Research Commission, proposing a partnership with the College of Natural Resources, University of Wisconsin, who organized the seminar. Jay has been invited back to Wisconsin next year, to participate in a series of environmental workshops, which the College is organizing. In October, Jay was one of 15 international scientists who were invited to a "Task Force Meeting on Freshwater Biodiversity" sponsored by UNESCO, among others, in Portsmouth, New Hampshire, USA. The purpose of the meeting is to initiate international partnership research projects into freshwater biodiversity.

The Thukela Water Project has been completed this year, using the newly developed Flow Stressor-Response method for the assessment of environmental flows. A report of a joint project on the Breede River, to compare a number of methods for environmental flow determination has been submitted to the WRC. An intermediate Reserve determination for the Great Kei River is planned for October this year.

A 3 year project has been funded by the WRC on behalf of the Kat River Water Users Association, to develop a strategic plan for the use of the water resources of the Kat River. The Institute will provide the technical and scientific input to the project.

WETLANDS GROUP

The Wetland group has undertaken two major projects during this past year. The Inventory of the Eastern Cape wetlands occurring in the water delivery areas of the Nelson Mandela Metropole and Buffalo City was started in September 2002. GIS maps are being completed and the present state reports for each catchment have either been completed or are being researched.

The inventory of the Baviaanskloof catchment was augmented by additional funding from Working for Wetlands. The report first draft was completed in May and the final edited version was handed over in September.

UNILEVER CENTRE FOR ENVIRONMENTAL WATER QUALITY

Each project and consultancy undertaken by UCEWQ contributes to an overall research effort to develop methods, approaches, data and integrated knowledge that will contribute to the protection and wise use of water quality in southern African fresh waters. This direction is informed by the South African National Water Act (NWA) (No 36 of 1998), which advocates water resource protection to ensure sustainable water resource use. The following tables summarise UCEWQ research efforts. They demonstrate that UCEWQ staff work together across projects and consultancies, the wide national collaboration and the inclusion of MSc research.

Table 1: A summary of the research being undertaken in the UCEWQ

Project	Contribution	Researchers
Comparative biomonitoring in two eastern Cape rivers	Application of biomonitoring in the national River Health Programme.	WJ Muller P-A Scherman (CES) A Gordon S Lerotholi (MSc) P Maseti (MSc)
Aquatic component of the Tsetse control programme in the Okavango delta: the effects of deltamethrin spraying. (Consultancy: University of Botswana)	A biomonitoring project which has provided the opportunity for international collaboration and the development of technical partnerships enabling further development of rapid bioassessment methods.	CG Palmer H Davies-Coleman WJ Muller JM Dangerfield (BioTrack Australia)

Table 2: These projects are focussed on research that will provide for future applications.

Project	Contribution	Researchers
The development of methods to assess chronic responses to toxicants	Setting both objectives and controls requires knowledge of the subtler, long-term effects of toxicants. Measuring chronic responses is difficult and protracted. This is the new focussed research area within the Centre.	WJ Muller CG Palmer E Okuthe A Slaughter (MSc) N Ketse (MSc)
A research programme to promote environmental water quality and aquatic toxicology	Co-ordination of EWQ and aquatic toxicology research in SA; synthesis of research goals and priorities; consolidating salt tolerance applications; promoting an ethical basis for applied aquatic toxicology and supervising a manual for the implementation of the new DWAF effluent control policy.	CG Palmer WJ Muller S Browne (MSc) S Jooste L Slabbert (CSIR)
A study of the effects of instream detergent-use on two South African streams. (Consultancy: Unilever UK)	Integrated application using all three EWQ aspects – a pioneering EWQ case study.	WJ Muller CG Palmer A Gordon
Aquatic component of the Tsetse control programme in the Okavango delta: the effects of deltamethrin spraying. (Consultancy: University of Botswana)	A biomonitoring project which has provided the opportunity for international collaboration and the development of technical partnerships enabling further development of rapid bioassessment methods.	CG Palmer H Davies-Coleman WJ Muller JM Dangerfield (BioTrack Australia)
Integrated assessment of salinity in the Kat River	Integrated EWQ study including a community based involvement.	CG Palmer WJ Muller A Gordon S Lerotholi (MSc)

PROFESSOR J. O'KEEFFE
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

O'Keeffe, JH

O'Keeffe, JH and Rogers, KH. "Heterogeneity and Management of the Lowveld Rivers". In: du Toit, J, Biggs, H, Mills, G, Naiman, B and Rogers, K(eds) *The Kruger Experience: Ecology and management of savanna heterogeneity*. Island Press. California. 2003. 447-468.

Rogers, KH and *O'Keeffe, JH*. "River heterogeneity: Ecosystem structure, function and management". In: du Toit, J, Biggs, H, Mills, G, Naiman, B and Rogers, K(eds) *The Kruger Experience: Ecology and management of savanna heterogeneity*. Island Press. California. 2003. 189-218.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Hughes,DA

Hughes,DA and Hannart,P. "A desktop model used to provide an initial estimate of ecological instream flow requirements of rivers in South Africa". *Journal of Hydrology*. 2003. 167-181.

Hughes,DA, Hannart,P and Watkins,D. "Continuous baseflow separation from time series of daily and monthly streamflow data". *Water SA*. 2003. 29(1),43-48.

Muller,WJ and Palmer,CG

Scherman,P-A, Muller,WJ and Palmer,CG. "Links between ecotoxicology, biomonitoring and water chemistry in the integration of water quality into environmental flow assessments". *River Research and Applications*. 2003. (19),1-11.

Palmer,CG and Gordon,AK

Palmer,CG, Gordon,AK and Williams,ML. "Riverine macroinvertebrate responses to chlorine and chlorinated sewage effluents - Community structure in the Umsunduze and Umbilio Rivers, KwaZulu-Natal, SA". *Water SA*. 2003. 29(4),473-481.

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Chavala,MS

Newenham,J and Chavala,MS. "Determining the instream flow requirement monitoring protocol". Water Research Commission. Pretoria. 2003. 1-194.

Davies-Coleman,H

Davies-Coleman,H. "The growth and reproduction of the freshwater limpet *Burnupia stenochorias* (Pulmonata, Ancyliidae), and an evaluation of its use as an ecotoxicology indicator in whole effluent testing". Rhodes University Grahamstown. 2002.

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O'Keeffe,JH

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O'Keeffe,JH. "The role of science - underlying theoretical development and assumptions". Review of environmental water allocations. Land and Water Australia, Canberra, ACT, Australia. 2003. (5), 1-19.

O'Keeffe,JH. "The Future water supply of South Africa". The World and I. Washington Times. Washington DC. 2003.

O'Keeffe,JH. "External review of overall environmental methodology, as described in the draft inception report". TMG Aquifer Feasibility study. Cape Town. 2003.

Forster,L, O'Keeffe,JH, Mitchell,S, Belcher,A, Oelofse,S and Hill,L. "Resource Directed Measures: Introductory Module". Training Manual for the Department of Water Affairs and Forestry. Pretoria. 2003.

O'Keeffe,JH and Newenham,J. "Summary of the proceedings of the IFR Monitoring protocol Workshop". The Water Research Commission. Pretoria. 2003. 1-17.

Palmer,CG

Palmer,CG and *Jang,SW*. "The classification system of river rehabilitation for environmental water quality management". Korea Water Resources Association. 2003. (3), 259-267.

Palmer,CG and *Jang,SH*. "The classification system of river health for the environmental water quality management". Water Engineering Research. 2002. 3(4), 259-267.

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

Haigh,EH. "Wetlands are the mirrors of the catchment. What do they reflect?". *The VII International Rangeland Conference*. Durban. August 2003.

Haigh,EH and Illgner,PM

Haigh,EH and *Illgner,PM*. "The land use history and rehabilitation of a small upper catchment seep of an Eastern Cape river". *Working for Water Inaugural Research Symposium*. Kirstenbosch, Cape Town. August 2003.

Haigh,EH, Grudling,P-L and Illgner,PM

Haigh,EH, *Grudling,P-L* and *Illgner,PM*. "Tracking Change in the Hudsonvale Peat basin, Kromme river, Eastern Cape with aerial photographs". *Working for Water Inaugural Research Symposium*. Kirstenbosch, Cape Town. August 2003.

Hughes,DA

Hughes,DA. "Sustainable regional water resource development in the SADC region". International Symposium, Stellenbosch. February 2003.

Hughes,DA. "Environmental flow requirements in water resource planning and operation. Water Resources Systems - hydrological risk, management and development". *Proceedings of symposium HSO2b held during IUGG2003*. Sapporo, July 2003. 281. 261-268.

Muller,WJ

Maseti,PP, *Muller,WJ* and *Scherman,P-A*. "The use of selected biomonitoring methods for water resource management in two contrasting catchments of the Eastern Cape". *Joint Conference of SASAQS and ZSSA*. Cape Town. 2003.

Muller,WJ and Pakhomov,EA

Ketse,N, *Muller,WJ* and *Pakhomov,EA*. "Embryonic development of the freshwater shrimp *Caridina nilotica* Roux 1926 (Decapoda: Atyidae)". *Joint Conference of SASAQS and ZSSA*. Cape Town. 2003.

Muller,WJ and Palmer,CG

Muller,WJ and *Palmer,CG*. "Using indigenous mayflies (*Ephemeroptera*) for water quality management of freshwater resources in South Africa". *Annual Conference of the Association of Botanists*. Pretoria. 2003.

Palmer,CG

Palmer,CG. "Convenors of a WRC supported, 7-paper session on 'Rangeland and water resources - the road to integrated catchment management'. *The 7th International Rangeland Congress*. International Conference Centre, Durban. 2003.

Browne,S, *Palmer,CG* and *Shackleton,CM*. "Salinity tolerances of selected South African freshwater invertebrates". *Joint Conference of SASAQS and ZSSA*. Cape Town. June/July 2003.

Lerotholi,S, *Palmer,CG* and *Rowntree,K*. "Bioassessment of a river in a semi-arid agricultural catchment, Eastern Cape". *Joint Conference of SASAQS and ZSSA*. Cape Town. 2003.

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

ii. International Conferences (Outside South Africa)

Muller,WJ and Palmer,CG

Muller,WJ and Palmer,CG. "A potential new indigenous test species for regulatory aquatic toxicity testing in South Africa: *D pulex* and *C nilotica neonates*". *Proceedings of Interact 2002*. Sydney. Australia. July 2002.

O'Keeffe,JH

O'Keeffe,JH. "Global drivers and the status of the world's aquatic ecosystems". *2nd National Conference on Aquatic Environments*. Townsville. Australia. 2003.

O'Keeffe,JH. "The South African Water Law - Integrated Catchment Management". *The 2nd International Seminar on Watershed Management*. US Department of Agriculture, USA. 2003.

O'Keeffe,JH. "New methods for the determination of environmental flows for rivers". *Norwegian R & D Programme on Environmental Flows*. Oslo. Norway. February 2003.

O'Keeffe,JH. "Environmental flows - a review of methods". *Norwegian R & D programme on Environmental Flows*. Oslo. Norway. February 2003.

O'Keeffe,JH and Palmer,CG

O'Keeffe,JH and Palmer,CG. "Some, for all, for ever - implementing the South African Water Act, No36 of 1998". *The 2nd International Seminar on Watershed Management*. Wisconsin. USA. June 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

IWR

IWR. "Unilever Course". Applied Aquatic Toxicology. CSIR Conference Centre. Pretoria. 1 September 2003 - 1 September 2003.

Palmer,CG and Muller,WJ

Palmer,CG and Muller,WJ. Participation. "Current Status of Ecotoxicology in South Africa". Endocrine Disrupting Compounds. Stellenbosch. 5 - 7 May 2003.

Palmer,CG, Muller,WJ and Berold,R

Palmer,CG, Muller,WJ and Berold,R. Designer. "Environmental Water Quality for Water Resource Managers". WRC TT Seminar. DWAF Regional Office. 2003.

SUBSIDY UNITS CLAIMED

INSTITUTE FOR WATER RESEARCH	UNITS	IN PRESS	NON SAPSE
Hughes,DA			
<i>Hughes,DA and Hannart,P.</i> "A desktop model used to provide an initial estimate of ecological instream flow requirements of rivers in South Africa". <i>Journal of Hydrology</i> . 2003. 167-181.	1.00		
<i>Hughes,DA, Hannart,P and Watkins,D.</i> "Continuous baseflow separation from time series of daily and monthly streamflow data". <i>Water SA</i> . 2003. 29(1),43-48.	1.00		
Muller,WJ and Palmer,CG			
<i>Scherman,P-A, Muller,WJ and Palmer,CG.</i> "Links between ecotoxicology, biomonitoring and water chemistry in the integration of water quality into environmental flow assessments". <i>River Research and Applications</i> . 2003. (19),1-11.	0.67		
Palmer,CG and Gordon,AK			
<i>Palmer,CG, Gordon,AK and Williams,ML.</i> "Riverine macroinvertebrate responses to chlorine and chlorinated sewage effluents - Community structure in the Umsunduze and Umbilio Rivers, KwaZulu-Natal, SA". <i>Water SA</i> . 2003. 29(4),473-481.	0.67		
<i>Williams,ML, Palmer,CG and Gordon,AK.</i> "Riverine	0.67		

macroinvertebrate responses to chlorine and chlorinated sewage effluents - Acute chlorine tolerances of <i>Baetis harrisoni</i> (Ephemeroptera) from two river in KwaZulu-Natal, SA". <i>Water SA</i> . 2003. 29(4),483-488.			
TOTAL FOR INSTITUTE FOR WATER RESEARCH	4.01		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INTERNATIONAL CHAIR IN ENTREPRENEURSHIP

BOOKS/CHAPTERS/MONOGRAPHS

Maas,G

Maas,G. "Entering the family business". In: Nieman,G, Hough,J and Nieuwenhuizen, C(eds) Entrepreneurship: A South African perspective. Van Schaik Publishers. 2003. 181-193.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Maas,G

Boschoff,HC, Venter,E and Maas,G. "The influence of relational factors on successful succession in family business: A comparative study of owner-managers and successors". *South African Journal of Business Management*. 2003. 34(4),1-13.

Venter,E, Maas,G and Boshoff,C. "The influence of organisational factors on successful succession in family businesses". *Management Dynamics: Contemporary Research Journal of the Southern Africa Institute for Management Scientists/Bestuursdinamika: Kontemporêre Navorsing Tydskrif Van Die Suider-Afrika Instituut Vir Bestuurwetenskaplikes*. 2003. 12(4),2-17.

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

i. Local Conferences (Within South Africa)

Maas,G

Amos,TL and Maas,G. "The Delphi Technique and its research application". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference*. University of Potchefstroom, Potchefstroom. September 2003.

Elliot,RM, Maas,G and Sewry,DA. "Developing an internet marketing model for small businesses in the tourism sector". *2003 Southern Africa Institute for Management Scientists (SAIMS) Annual Conference*. University of Potchefstroom, Potchefstroom. September 2003.

Elliott,RM, Maas,G and Sewry,DA. "Developing an Internet Marketing Model For Small Businesses In The Tourism Sector". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference*. Mpkweni Sun. October 2003.

SUBSIDY UNITS CLAIMED

INTERNATIONAL CHAIR IN ENTREPRENEURSHIP	UNITS	IN PRESS	NON SAPSE
Maas,G			
Boschoff,HC, Venter,E and Maas,G. "The influence of relational factors on successful succession in family business: A comparative study of owner-managers and successors". <i>South African Journal of Business Management</i> . 2003. 34(4),1-13.	0.17		
Venter,E, Maas,G and Boshoff,C. "The influence of organisational factors on successful succession in family businesses". <i>Management Dynamics: Contemporary Research Journal of the Southern Africa Institute for Management Scientists/Bestuursdinamika: Kontemporêre Navorsing Tydskrif Van Die Suider-Afrika Instituut Vir Bestuurwetenskaplikes</i> . 2003. 12(4),2-17.	0.17		
TOTAL FOR INTERNATIONAL CHAIR IN ENTREPRENEURSHIP	0.34		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

INVESTEC BUSINESS SCHOOL

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Staude,GE

Boshoff,C and *Staude,GE*. "Satisfaction with service recovery: Its measurement and its outcomes". *South African Journal of Business Management*. 2003. 34(3),9-16.

DISTINGUISHED VISITORS

Professor D Flynn. University of Cape Town, Cape Town. Lecture. January and June 2003.

Mr C Koepke. Daimler Chrysler (South Africa), Pretoria. Lecture. June 2003.

Mr B Whittaker. The Business Trust, Johannesburg. Lecture. November 2003.

SUBSIDY UNITS CLAIMED

INVESTEC BUSINESS SCHOOL	UNITS	IN PRESS	NON SAPSE
Staude,GE			
Boshoff,C and <i>Staude,GE</i> . "Satisfaction with service recovery: Its measurement and its outcomes". <i>South African Journal of Business Management</i> . 2003. 34(3),9-16.	0.50		
TOTAL FOR INVESTEC BUSINESS SCHOOL	0.50		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

JOURNALISM AND MEDIA STUDIES

2003 was another good year for Journalism and Media Studies, with staff publishing one co-edited book, nine chapters in edited books, and three articles in peer-reviewed journals. Staff also published about 20 articles in a variety of technical publications and the mass media. One staff member maintained a weekly newspaper column, while another had his journalists' guide translated to Arabic, the fourth language thus far. Our conference participation was strong, with 14 papers presented at a broad range of academic and professional meetings throughout the year. In all, our staff participated in over 40 academic or professional meetings including our two annual conferences, Highway Africa and the African Economics Editors Forum.

The year's highlights include:

- The Department's flagship bi-annual publication, *Rhodes Journalism Review*, published two special editions; the first on journalism education and training and the second on African media in the Information Society (commemorating the World Summit on Information Summit in Geneva, Switzerland).
- About two hours of television programmes was produced by our Television School during the 2003 National Arts Festival. The programmes included two documentaries about life at the festival – Isithunzi People and Isithunzi Places – and seven “festival hits” consisting of studio interviews and packaged inserts for SABC Africa's “Today in Africa”.
- The department successfully convened the 7th Highway Africa conference and the 4th African Economics Editors conference. The two conferences, the largest annual gatherings of African media professionals were supported by about two dozen sponsors, including South Africa's Department of Communication, the World Bank, and many pan-African corporate organizations.
- Two staff members completed higher degrees – one Doctorate and one MA. The department also admitted its first PhD students – one on a full-time basis and another on part-time basis.
- Liezel Vermuelen's documentary video, *Unmasking Mavis*, was presented at the Amsterdam Gay and Lesbian Film Festival (Netherlands), the 9th Films gays et lesbiens de Paris (France) and the Thessaloniki Film Festival (Greece). Her two other documentaries, *Changing Lands* and *Out of Order*, were well received by audiences during their international premiers at the 3 Continents Human Rights Film Festival in Johannesburg and Cape Town.
- Our students' production, *Word Up* won a Media Creativity Award in the “television documentary” category at the Ibda'a Media Awards in Dubai, United Arab Emirates. *Word Up* is about South African hip hop culture. The Ibda'a is the highest award for student work for learners from India, North Africa, the Levant, South Africa and Gulf countries. The project was one of 37 finalists drawn from 1819 entries from 20 countries in nine media categories.

PROFESSOR N. KARIITHI
HEAD OF RESEARCH

BOOKS/CHAPTERS/MONOGRAPHS

Christie,C

Christie,C. "The Focus of an Undergraduate Social Science Curriculum for Southern Africa: Historical Consciousness, Human Rights and Social Development Issues". In: Naude,P and Cloete, N(eds) *A Tale of Three Countries: Social Sciences Curriculum Transformations in Southern Africa*. Juta. Cape Town.

Garman,A

Garman,A. "Guidelines for Gender Sensitive Reporting in the Print Media". In: *Handbook on Gender Sensitive Reporting for Media Practitioners*. Gender Advocacy Programme. Cape Town.

Garman,A. "Reporting non-stop violence in South Africa: The need for a different kind of journalism". In: *Media and Peace*. Makerere University & Fountain Publishers. Kampala, Uganda. (In Press).

Kariithi,N

Kariithi,N. "Economics and business journalism". In: Johnston, D(eds) *Encyclopedia of International Media and Communications*. Academic Press. San Francisco. 2003. 153-162.

Kariithi,N. "Media content, Ownership and Democracy in Sub-Saharan Africa". In: Kupe, T(eds) *Broadcasting Policy and Practice in Africa*. Article XIX. London. 2003. 162-180.

Kariithi,N and Bouchet,N. *Media and Parliament: Building Informed Democracies*. World Bank Institute Working Papers Series. Washington, DC. 2003.

Kariithi,N. "Media, State and Society in Africa". In: Seleti, Y(eds) General History of Africa. New Africa Books. Cape Town. 9. (In Press).

Prinsloo,J

Prinsloo,J. "Considerations of Differences: South African Media Education". In: Tufte, B(eds) Proceedings of the Media Education Research Section - International Association of Mass Communication Research. Hampton Press. London. 2003. 45-66.

Strelitz,L

Strelitz,L. "Global Media/Local Meanings". In: Linde, R&A(eds) Race/Gender/Media: Considering Diversity Across Audiences, Content, Producers. University of Chicago. Chicago. 2003.

Strelitz,L. "The Hybridity of South African Youth Identity". In: Kraidy,M and Murphy, P(eds) Global Media Studies. Routledge. New York. 2003.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Prinsloo,J

Prinsloo,J. "Childish images. The gendered depiction of childhood in popular South African magazines". *Agenda*. 2003. 56,26-37.

Prinsloo,J. "Schooled inequalities - a comparison of the language syllabuses for English, Afrikaans and Bantu Languages of the 1970s". *Journal of Education*. 2003. 30,57-79.

Strelitz,L

Strelitz,L. "Global Media and Symbolic Distancing". *Ecquid Novi*. 2003. 24(2),136-156.

OTHER PUBLICATIONS

Berger,G

Berger,G. "In war, trust your own scepticism". City Press. 2003.

Berger,G. "Mono Badela - South African journalistic legend". City Press. 2003.

Berger,G. "Overstating the libertarian model". *Enterprise*. 2003. 17(4).

Berger,G. "Press vs Public Enemy no. 1". Garman, A(eds) Rhodes Journalism Review. Grahamstown. 2003. 22.

Berger,G. "Local reporting still gets the story. Mondis show what's happening in SA as Iraq war damages media credibility". *Saturday Star*. 2003.

Berger,G. "Fight for a Free Press – Mbeki". *Sowetan*. 2003.

Berger,G. "The All-Africa Editors Conference opens in Johannesburg this weekend". *Sowetan*. 2003.

Berger,G. "Don't mess with editors' independence". *Sunday Times*. 2003.

Berger,G. "Defending preachers of freedom". *The Star*. 2003.

Garman,A

Garman,A. "Better by design". *Mail & Guardian*. Johannesburg. 2003.

Garman,A. "Weekly column". *Weekend Witness*. Durban. 2003.

Kanyegirire,ATS

Kanyegirire,ATS. "African Broadcast Cultures: Radio in Transition". *The Radio Journal: International Studies in Broadcast and Audio Media*. 2003. 1(2), 147-150.

Mitchell,D

Mitchell,D. "Selling off to infomercials". *Mail & Guardian*. Johannesburg. 2003.

Prince,E

Prince,E. "Hip hop is for the kids ... or is it?". Y Magazine. Johannesburg. 2003.

Vermeulen,L

Vermeulen,L. "Cape to Rio". AV Specialist. Doddington Direct. Johannesburg. 2003. 71(March/April).

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

Berger,G. "The journalism of poverty and the poverty of journalism". *The International Communications Forum*. Cape Town. April 2003.

Berger,G. "Reporting our biggest problem". *Metropolitan Life Eastern Cape Media Indaba*. Fish River Sun. June 2003.

Berger,G. "A half-told story: Developing a research agenda into representation of poverty in the South African news media". *2003 Annual SACOMM conference*. Durban. June 2003.

Berger,G. "Whose poll is it - the politicians' or the people's? Ethical implications for the media". *MISA Elections Seminar*. Johannesburg. October 2003.

Berger,G. "A strategy for covering poverty". *Peninsula Technikon Media Students Conference*. Cape Town. October 2003.

Berger,G. "Conceptualising convergence". *Media Convergence in Africa Conference*. Cape Town. October 2003.

Berger,G. "Finding pearls in pools: The flow of environmental journalism after the WSSD". *Sustaining Environmental Journalism*. Cape Town. November 2003.

Berger,G. "Media's impact on AIDS, public opinion, policy and people. Implications for journalists". *Reuters Foundation course*. Cape Town. November 2003.

Christie,C

Christie,C. "Foxes and Hedgehogs: Journalists, sociologists and novelists". *Media in Africa: Current Issues, Future Challenges Conference*. Stellenbosh. September 2003.

Strelitz,L

Strelitz,L. "Global Media and Symbolic Distancing". *2003 Annual SACOMM Conference*. Durban. June 2003.

Strelitz,L. "Media Consumption and Identity Formation: The Case of the *Homeland Students*". *East Cape - Historical Legacies and New Challenges Conference*. East London. August 2003.

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

Berger,G. "Media training: Maximising triumphs and minimising travesties: Some lessons from the experience of impact assessment from Southern Africa". *Impact Indicators Seminar*. Chisinau. Moldova. May 2003.

Kariithi,N

Kariithi,N. "A General Framework for Reporting on Capital Markets". *CMA Annual Financial Journalism Seminar*. Nairobi. Kenya. October 2003.

Strelitz,L

Strelitz,L. "Against Cultural Essentialism: Media Reception Amongst South African Youth". *Globalisation, Regionalisation and Information Society Conference*. Bruges, Belgium. October 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Berger,G

Berger,G. Co-Convenor. "7th Highway Africa Conference". Grahamstown. 8 - 10 September 2003.

Berger,G. Nominee. "SABC Board of Directors". Johannesburg. 2003.

Berger,G. Nominee. "World Technology Award". 2003.

Berger,G. Chairman. "David Rabkin Experiential Journalism Project (Pty) Ltd. Publishers of Grocott's Mail". Grahamstown. 2003.

Berger,G. Convenor Judge. "Mondi Paper Newspaper Journalism Awards". Johannesburg. 2003.

Berger,G. Judge. "US-SA Health Journalism Awards". Johannesburg. 2003.

du Toit,P

du Toit,P. Trainer. "Conflict Management Workshop". Uganda Human Right Focus/Conciliation Resources (UK) Workshops. Kabale, Uganda. June 2003.

du Toit,P. Course coordinator/Trainer. "Broadcast Management course". Sol Plaatje Media Leadership Institute/NSJ Centre. Grahamstown. June 2003.

du Toit,P. Trainer. "Reporting for Peace". Internews Middle East Programme. Cairo, Egypt. September 2003.

du Toit,P. Trainer. "Conflict and Advocacy course". Uganda Media Womens' Association/Conciliation Resources (UK). Gulu, Uganda. November 2003.

du Toit,P. Course coordinator/Trainer. "Broadcast Management course". Sol Plaatje Media Leadership Institute/NSJ Centre. Grahamstown. November 2003.

Garman,A

Garman,A. Participant. "6th International Design Indaba". Cape Town. 26 - 28 February 2003.

Garman,A. Chair. "The Info-haves vs have-nots". 7th Highway Africa Conference. Grahamstown. September 2003.

Garman,A. Editor. "Rhodes Journalism Review". Special Edition: Education and Training of Journalists. Grahamstown. September 2003.

Garman,A. Editor. "Rhodes Journalism Review". Special Edition: African Media in the Information Society. Grahamstown. December 2003.

Garman,A. Director. "David Rabkin Experiential Journalism Project (Pty) Ltd. Publishers of Grocott's Mail". Grahamstown. 2003.

Garman,A. Judge. "Vodacom Journalist of the Year ward". Johannesburg. 2003.

Kariithi,N

Kariithi,N. Panelist. "Future of business journalism education". 36th Annual convention of the Society of American Business Editors & Writers. Boston, USA. 27 - 30 April 2003.

Kariithi,N. Chair. "Showcasing African ICT success stories". 7th Highway Africa Conference. Grahamstown. 8 - 10 September 2003.

Kariithi,N. Conference Convenor and Director. "4th African Economics Editors Conference". Johannesburg. 26 - 30 October 2003.

Kariithi,N. Director. "David Rabkin Experiential Journalism Project (Pty) Ltd. Publishers of Grocott's Mail". Grahamstown. 2003.

Kariithi,N. Judge. "First Annual MISA Namibia Media Awards". Cape Town. 2003.

Kariithi,N. Judge. "Africa Small Medium and Micro Enterprises (ASMME) Journalism Awards". Cape Town. 2003.

Kariithi, N. Convenor and Moderator. *"Black Hole: The U.S. Press and Africa"*. Baruch College International Media Issues Seminar. New York, USA. 2003.

Mitchell, D

Mitchell, D. Workshop leader. *"TV studio production"*. National Schools Festival. Grahamstown. July 2003.

Mitchell, D. Executive Producer. *"Isithunzi Places"*. Cue-TV Project, South Africa National Arts Festival. Grahamstown. July 2003.

Mitchell, D. Executive Producer. *"Isithunzi People"*. Cue-TV Project, South Africa National Arts Festival. Grahamstown. July 2003.

Mitchell, D. Trainer. *"Broadcast Management course"*. Sol Plaatje Media Leadership Institute/NSJ Centre. Grahamstown. December 2003.

Mitchell, D. Executive Producer/Director. *"Listen while we grow"*. Umthathi Training Project corporate video. December 2003.

Mitchell, D. Judge. *"Vodacom Journalist of the Year Award"*. Johannesburg. 2003.

Prince, E

Prince, E. Producer/Presenter. *"Art on the edge"*. National Arts Festival Show, SAFM. Grahamstown. July 2003.

Prince, E. Consultant. *"Rhodes Music Radio"*. Grahamstown. 2003.

Steenveld, L

Steenveld, L. Director. *"David Rabkin Experiential Journalism Project (Pty) Ltd. Publishers of Grocott's Mail"*. Grahamstown. 2003.

Vasques, V

Vasques, V. Trainer. *"Basic Website Design"*. Steve Biko Media Week 2003. Grahamstown. March 2003.

Vasques, V. Workshop organiser. *"7th Highway Africa Conference"*. Grahamstown. 8 - 10 September 2003.

Vasques, V. Trainer. *"Workshop on Computer Aided Research for African journalists"*. 7th Highway Africa Conference. Grahamstown. 8 - 10 September 2003.

Vasques, V. Trainer. *"Creating websites for African radio stations"*. Sol Plaatje Institute/NSJ Training Programme. Grahamstown. December 2003.

Vermeulen, L

Vermeulen, L. Executive Producer. *"Unmasking Mavis"*. Out in Africa Gay And Lesbian Film Festival. Cape Town. January - October 2003.

Vermeulen, L. Co-ordinator. *"Rhodes Film Club"*. Grahamstown. February - June 2003.

Vermeulen, L. Participant. *"Short Films @ Stellenbosh"*. Cape Town. March 2003.

Vermeulen, L. Executive Producer. *"Unmasking Mavis"*. Thessaloniki, Greece. June 2003.

Vermeulen, L. Participant. *"5th Encounters International Documentary Film Festival"*. Cape Town. 25 - 29 July 2003.

Vermeulen, L. Executive Producer. *"Unmasking Mavis"*. Put Africa in the Picture Film Festival. Amsterdam, Netherlands. August 2003.

Vermeulen, L. Participant. *"3 Continents Human Rights Film Festival"*. Cape Town. 19 - 26 September 2003.

Vermeulen, L. Executive Producer. *"Changing Lands"*. 3 Continents Human Rights Film Festival. Cape Town. 19 - 26 September 2003.

Vermeulen, L. Executive Producer. *"Out of Order"*. 3 Continents Human Rights Film Festival. Cape Town. 19 - 26 September 2003.

Vermeulen,L. Coordinator. "*Grahamstown section:*". 3 Continents Human Rights Film Festival. Grahamstown. 8 - 9 October 2003.

Vermeulen,L. Executive Producer. "*Unmasking Mavis*". 9th Films gays et lesbiens de Paris. Paris, France. November 2003.

Vermeulen,L. Trainer. "*Broadcast Management course*". Sol Plaatje Media Leadership Institute/Thomson Foundation. Grahamstown. December 2003.

Vermeulen,L. Winner. "*TV Documentary Category*". IBDA'A Media Awards United Arab Emirates. Dubai, United Arab Emirates. 2003.

Vermeulen,L and Lindsay,N. Producers. "*South Africa rewards you*". First National Bank/ Combined Artists project. August 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Christie,C

Christie,C. Campus Norrköping, Linköpings University, Norrköping, Sweden. Linnaeus-Palme Institute Exchange Programme lecturer. December 2003.

du Toit,P

du Toit,P. Internews, East Timor. Impact Assessment of Internews. July 2003.

Garman,A

Garman,A. Media Loan Development Fund, Prague, Czech Republic. Open source software workflow systems. 2 - 6 December 2003.

Kariithi,N

Kariithi,N. Baruch College, City University of New York, New York City, USA. Visiting Professor of Business Journalism. 13 January - 12 July 2003.

Kariithi,N. University of Houston, Houston, USA. Completion of PhD. May 2003.

Vermeulen,L

Vermeulen,L. Sveriges Television (SVT), Stockholm, Sweden. Collaboration/networking. November 2003.

Vermeulen,L. Campus Norrköping, Linköpings University, Norrköping, Sweden. Linnaeus-Palme Institute Exchange Programme lecturer. 6 November - 1 December 2003.

DISTINGUISHED VISITORS

Mr D Bell. Pearson plc, London UK. Networking. March 2003.

Ms N Clarke. Pearson Education South Africa, Cape Town. Networking. March 2003.

Ms P Clay. Johnnic Publishing, Johannesburg. Lecture. August 2003.

Ms A Costello. National Public Radio, Cape Town. Lecture. August 2003.

Ms P Green. SAfm Radio Station, Johannesburg. external examiners. November 2003.

Mr B Hughes. Financial Times Ltd, London UK. Networking. March 2003.

Mr S Macozoma. New Africa Investments Ltd, Johannesburg. Lecture. February 2003.

Ms N Magau. South African Broadcasting Corporation, Johannesburg. Networking. May 2003.

Ms M Mbetse. 702 FM Radio Station, Johannesburg. Lecture. August 2003.

Mr A Miller. Pearson plc, London UK. Networking. March 2003.

Mr S Naude. Pearson Education South Africa, Johannesburg. Networking. March 2003.

Mr G Oberholzer. SAfm Radio Station, Johannesburg. external examiners. June 2003.

Ms M Peters. Utrecht School of Journalism, Utrecht Netherlands. Networking. 2003.

SUBSIDY UNITS CLAIMED

JOURNALISM AND MEDIA STUDIES	UNITS	IN PRESS	NON SAPSE
Prinsloo,J			
<i>Prinsloo,J.</i> "Childish images. The gendered depiction of childhood in popular South African magazines". <i>Agenda</i> . 2003. 56,26-37.	1.00		
<i>Prinsloo,J.</i> "Schooled inequalities - a comparison of the language syllabuses for English, Afrikaans and Bantu Languages of the 1970s". <i>Journal of Education</i> . 2003. 30,57-79.	1.00		
Strelitz,L			
<i>Strelitz,L.</i> "Global Media and Symbolic Distancing". <i>Ecquid Novi</i> . 2003. 24(2),136-156.	1.00		
TOTAL FOR JOURNALISM AND MEDIA STUDIES	3.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

LAW

A Faculty highlight was the accreditation of *Speculum Juris* by the Department of Education. The journal appears as no.174 in the list of approved journals contained in a DOE document dated September 2003 titled "Policy and Procedures for measurement of Research Output of Public Higher Education Institutions".

Papers read at Conferences

The following staff members presented papers at the Law Teachers Congress held at the University of Namibia: Professor R. Midgley delivered two papers entitled: "The National Research Foundation's Rating System Researchers" and "Recent Decisions on Deprivation of Liberty, Deprivation of Property and Malicious Prosecution"; Professor RB Mqoke "Patriarchy and the Bill of Rights"; Professor Kulundu-Bitonye "Corporate Governance, the King II Report and the Structure and Operations of Limited Liability Companies"; Ms R Kruger "Prostitution from a Feminist Perspective: a Visit to the Jordan Case", and Mr H Mandlana "A Clarion Call for the Expansion of the Scope of the Environmental Court". Professor R Mqoke also delivered a keynote address entitled "Reclaiming the Heritage of Freedom a Legal Historical Perspective" at the 2003 International Conference of Legal Historians held at the University of Stellenbosch in January 2003.

Publications in Law Journals

Professor Meintjes van der Walt "Expert Odyssey: Thoughts on the presentation and evaluation of scientific evidence" (2003) 120 SALJ 352.

Ms S Driver and Professor C Plasket published a chapter on Administrative Law in 2002 Annual Survey of South African Law. Ms R Kruger published "Appearance and Reality: Constitutional Protection of the Institutions of Marriage and the Family" 2003 THRHR 285". Professor R Midgley co-authored "Schadensersatz bei Boykottmaßnahmen und ähnlichen Aktoinen nach Sudafrikanischem Recht" (2003) 3 Zeitschrift für Vergleichende Rechtswissenschaft 366-386.

Publications in Print

Ms R Kruger "Sex Work From a Feminist Perspective: a Visit to the Jordan Case" to be published in the South African Journal on Human Rights. Professor Kulundu-Bitonye "Corporate Theories, Structures and the Dilema of Public Enterprises in Lesotho: The Privatisation Debate" to be published in *Speculum Juris*. Mr G Glover "The sharing of Pension Benefits on Divorce: an Inevitable Affair? Obiter. Professor R Mqoke "Patriarchy and the Bill of Rights" Obiter.

Books and Chapters in Books

Professor R Mqoke Customary Law and the New Millenium, Lovedale Press.

Postgraduate Students

There were 11 Masters and PhD students of which 1 Masters and 1 PhD student will graduate in April 2004.

PROFESSOR R. MIDGLEY
DEAN OF FACULTY

BOOKS/CHAPTERS/MONOGRAPHS

Driver,SEH

Driver,SEH. "Law of Succession". In: Clark, BJ(eds) Family Law Service. Butterworths. Cape Town. 2003. 1(H), 1-58.

Glover,GB

Glover,GB. "Division D - Divorce". In: Clark, BJ(eds) Family Law Service. Butterworths. Durban. 2003. 40, 1-29.

Mqoke,RB

Mqoke,RB. Customary Law and the New Millenium. Lovedale Press. Alice. 2003. 141 pp.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Clark,BJ

Clark,BJ. "Post Divorce Relocation by a Custodian Parent: Are Legislative Guidelines for the Exercise of Judicial Discretion Desirable?". *South African Law Journal*. 2003. 120,80-89.

Driver,SEH and Plasket,CM

Driver,SEH and Plasket,CM. "Administrative Law". *Annual Survey of South African Law*. 2002. 81-126.

Glover,GB

Glover,GB. "The Sharing of Pension Benefits on Divorce: An Inevitable Affair?". *Obiter*. 2003. 24,469-478.

Kerr,AJ

Kerr,AJ. "Customary Law at the Beginning of the Twenty-First Century: More systems of law than one in a single court structure". *Speculum Juris*. 2002. 1(1),1-25.

Kruger,R

Kruger,R. "Sex work from a feminist perspective: A visit to the Jordan case". *South African Journal on Human Rights*. 2003. (In Press).

Meintjes-van der Walt,L

Meintjes-van der Walt,L. "Experts Testifying in Child Abuse: The Need for A Code of Ethics". *Child Abuse Research in South Africa*. 2002. 3(2),24-33.

Meintjes-van der Walt,L. "Expert and Ethics: Some suggestions for South Africa". *Child Abuse Research in South Africa*. 2003. 4(2),42-54.

Meintjes-van der Walt,L. "The Proof of the Pudding: Presenting and Proving Expert Evidence in South Africa". *Journal of African Law*. 2003. 47,88-106.

Meintjes-van der Walt,L. "Expert Odessey: Thoughts on the presentation and evaluation of scientific evidence". *South African Law Journal*. 2003. 120(2),352-372.

Midgley,JR

Ring,G, Midgley,JR and Pfaff,SO. "Schadensersatz bei Boykottmaßnahmen und ähnlichen Aktoinen nach sudafrikanischem Recht". *Zeitschrift Fur Vergleichende Rechtswissenschaft*. 2003. 3,366-386.

Mqeke,RB

Mqeke,RB. "Legal pluralism and family law in the new constitutional dispensation". *Speculum Juris*. 2002. 1(1),47-57.

Plasket,CM

Plasket,CM. "Administrative Justice and Social Assistance". *South African Law Journal*. 2003. 120(3),494-524.

Plasket,CM. "Administrative Justice and Women's Rights". *Speculum Juris*. 2002. 181-207.

Plasket,CM and Euijen,M. "Constitutional Protection of Property and Land Reform". *Annual Survey of South African Law*. 2002. 438-456.

OTHER PUBLICATIONS

Clark,BJ

Clark,BJ. "Cohabitation - The Facts". *Family Law*. 2003. 33, 784-787.

Meintjes van der Walt,L

Meintjes van der Walt,L. "DNA Generic Testing in South Africa". Chalmers, D(eds) *Generic Testing: The use of DNA in Criminal Cases: A Comparative Study Guide*. Cavendish Publishing. Australia. 2003. (In Press).

Meintjes-van der Walt,L

Meintjes-van der Walt,L. "The Effect of the ICC on the African Continent". Law Students' Society(eds) *In Camera*. Rhodes University. Grahamstown. 2003. 7-15.

Midgley, JR

Midgley, JR, Ring, G and Pfaff, SO. "The Coega/Ngqura Environmental Monitoring Committee". Law Students' Society(ed)s In Camera. Rhodes University. Grahamstown. 2003. 20-22.

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

ii. International Conferences (Outside South Africa)

Kruger, R

Kruger, R. "Prostitution from a feminist perspective: A visit to the Jordan case". *Law Teachers Conference*. University of Namibia, Windhoek. Namibia. July 2003.

Midgley, JR

Midgley, JR. "Recent Decisions on Deprivation of Liberty, Deprivation of Property and Malicious Prosecution". *Law Teachers Conference*. University of Namibia, Windhoek. Namibia. July 2003.

Midgley, JR and Du Plessis, W. "The National Research Foundation's Rating System for Researchers". *Law Teachers Conference*. University of Namibia, Windhoek. Namibia. July 2003.

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Midgley, JR

Midgley, JR. Presenter. "Use of assessment Grids". Registration of Assessors' Course. ADC, Rhodes University. Grahamstown. 13 March 2003.

Midgley, JR. Presenter. "The Role of Monitoring Committees in Ensuring Sound Relationships between Management and Environmentalists". Conference on Economic Processing Zones. Park Hyatt Hotel. Rosebank. 16 October 2003.

Midgley, JR. Presenter. "Understanding the need for Monitoring Committees by Defining the Role and Function of these Bodies". Conference of Successfully Conducting Environmental Impact Assessments. Volkswagen Convention Centre. Midrand. 24 November 2003.

SUBSIDY UNITS CLAIMED

LAW	UNITS	IN PRESS	NON SAPSE
Clark, BJ			
<i>Clark, BJ</i> . "Post Divorce Relocation by a Custodian Parent: Are Legislative Guidelines for the Exercise of Judicial Discretion Desirable?". <i>South African Law Journal</i> . 2003. 120,80-89.	1.00		
Driver, SEH and Plasket, CM			
<i>Driver, SEH</i> and <i>Plasket, CM</i> . "Administrative Law". <i>Annual Survey of South African Law</i> . 2002. 81-126.	1.00		
Glover, GB			
<i>Glover, GB</i> . "The Sharing of Pension Benefits on Divorce: An Inevitable Affair?". <i>Obiter</i> . 2003. 24,469-478.	1.00		
Kerr, AJ			
<i>Kerr, AJ</i> . "Customary Law at the Beginning of the Twenty-First Century: More systems of law than one in a single court structure". <i>Speculum Juris</i> . 2002. 1(1),1-25.	1.00		
Kruger, R			
<i>Kruger, R</i> . "Sex work from a feminist perspective: A visit to the Jordan case". <i>South African Journal on Human Rights</i> . 2003. (In Press).	1.00	Y	
Meintjes-van der Walt, L			
<i>Meintjes-van der Walt, L</i> . "Expert and Ethics: Some suggestions for South Africa". <i>Child Abuse Research in South Africa</i> . 2003. 4(2),42-54.	1.00		
<i>Meintjes-van der Walt, L</i> . "Expert Odessey: Thoughts on the presentation and evaluation of scientific evidence". <i>South African Law Journal</i> . 2003. 120(2),352-372.	1.00		
Midgley, JR			

Ring,G, Midgley, JR and Pfaff, SO. "Schadensersatz bei Boykottmaßnahmen und ähnlichen Aktoinen nach sudafrikanischem Recht". <i>Zeitschrift Fur Vergleichende Rechtswissenschaft</i> . 2003. 3,366-386.	0.34		
Mqeke, RB			
Mqeke, RB. "Legal pluralism and family law in the new constitutional dispensation". <i>Speculum Juris</i> . 2002. 1(1),47-57.	1.00		
Plasket, CM			
Plasket, CM. "Administrative Justice and Social Assistance". <i>South African Law Journal</i> . 2003. 120(3),494-524.	1.00		
Plasket, CM. "Administrative Justice and Women's Rights". <i>Speculum Juris</i> . 2002. 181-207.	1.00		
Plasket, CM and Euijen, M. "Constitutional Protection of Property and Land Reform". <i>Annual Survey of South African Law</i> . 2002. 438-456.	0.50		
TOTAL FOR LAW	10.84		
TOTAL IN PRESS	1.00		
TOTAL NON SAPSE	0.00		

MANAGEMENT

Research continues to be an integral function in the Department of Management and the members of staff have excelled in this respect. Each member of staff (with a single exception) has either published in a refereed journal or presented a paper at a conference.

We continue to have an increasing number of students at Honours and BBS IV level and these students either write a paper suitable for publication in a refereed journal or undertake a business report. In this respect, work was undertaken for South African Breweries, Coca-Cola and Johnson and Johnson. Of the research activity undertaken, some of the work produced by the students was presented at local conferences. We have seventeen students registered for 2004.

We shall have fourteen students graduating during 2004. In addition, we have one student graduating with a Masters degree while one student will graduate with a PhD.

In addition, the Department runs a post-graduate Diploma course in Enterprise Management and we shall have 11 students receiving their Diplomas this year. The numbers for 2004 have more than doubled and now stands at twenty-three.

Finally, one member of the Department is registered for the MCom degree while four members of the Department are registered as PhD students. This is an encouraging number as it provides the Department with on-going research and the capacity to produce journal articles. Externally we have a student registered for a Masters degree and one student registered for a PhD.

As regards the publication of journal articles, the Department has an article written by Messrs Pearse and Malherbe published in a refereed journal. A number of other articles have been submitted and are awaiting acceptance. The members of staff have also published numerous articles in non-refereed journals and Professor Harvey and Messrs Amos and Pearse have been active in this respect.

The Department has been very active in presenting papers at local conferences. Unfortunately, no members of staff have presented at International Conferences during 2003.

PROFESSOR P. COURT
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Pearse,NJ

Malherbe,MD and Pearse,NJ. "The relationship between job enrichment, job satisfaction and service quality: An exploratory study in the retail industry of South Africa". Management Dynamics: Contemporary Research Journal of the Southern Africa Institute for Management Scientists/Bestuursdinamika: Kontemporêre Navorsing Tydskrif Van Die Suider-Afrika Instituut Vir Bestuurwetenskaplikes. 2003. 12(2),2-12.

OTHER PUBLICATIONS

Amos,TL

Amos,TL. "From personnel Management to Human Resource Management". Bowker, R(eds) Achiever. Cape Media Corporation. Claremont. 2003. Issue 4, 71-75.

Amos,TL and Pearse,NJ

Amos,TL and Pearse,NJ. "Competitiveness of nations". Bowker, R(eds) Achiever. Cape Media Corporation. Claremont. 2003. Issue 6, 61-62.

Amos,TL and Pearse,NJ. "Business leadership and NEPAD". Bowker, R(eds) Achiever. Cape Media Corporation. Claremont. 2003. Issue 7, 87-89.

Harvey,N

Harvey,N. "Core competencies: 1". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. April, 22-23.

Harvey,N. "Core competencies: 5". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. August, 16-17.

Harvey,N. "Core competencies: 4". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. July, 20-20.

Harvey,N. "Core competencies: 3". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. June, 16-17.

Harvey,N. "Core competencies: 2". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. May, 14-15.

Harvey,N. "Core competencies: 6". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. September, 19-19.

Harvey,N. "Core competencies: 7". Wood, B(eds) Professional Management Review. Creda Communications. Johannesburg. 2003. Spring, 18-18.

Pearse,NJ and Amos,TL

Pearse,NJ and Amos,TL. "Strategic Human Resource Management". Bowker, R(eds) Achiever. Cape Media Corporation. Claremont. 2003. Issue 5, 78-83.

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

i. Local Conferences (Within South Africa)

Amos,TL

Amos,TL. "Developing the business leadership of tomorrow". Eskom African Business Leaders forum. Sandton Convention Centre, Johannesburg. October 2003.

Amos,TL and Maas,G. "The Delphi Technique and its research application". 2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference. University of Potchefstroom, Potchefstroom. September 2003.

Berger,K, Burmeister,L and Amos,TL. "The effect of brand trust and brand affect on brand loyalty". 2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference. University of Potchefstroom, Potchefstroom. September 2003.

Court,PW

Maree,KW, Stack,EM and Court,PW. "Intellectual Capital: Measuring an Unrecognised Resource". South African Accountants Association Regional Conference. Mpekwini Sun. October 2003.

Elliot,RM

Elliot,RM, Maas,G and Sewry,DA. "Developing an internet marketing model for small businesses in the tourism sector". 2003 Southern Africa Institute for Management Scientists (SAIMS) Annual Conference. University of Potchefstroom, Potchefstroom. September 2003.

Elliott,RM

Elliott,RM, Maas,G and Sewry,DA. "Developing an Internet Marketing Model For Small Businesses In The Tourism Sector". 2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference. Mpekwini Sun. October 2003.

Larkin,K and Elliott,RM. "A Study of the Marketing Practices Used in Some South African SMME's: A Qualitative Approach". 2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference. University of Potchefstroom, Potchefstroom. September 2003.

Hayward,B, Davidson,A, Pascoe,J, Tasker,M, Amos,TL and Pearse,NJ

Hayward,B, Davidson,A, Pascoe,J, Tasker,M, Amos,TL and Pearse,NJ. "The relationship between leadership and employee performance in a South African Pharmaceutical Company". Society for Industrial and Organisational Psychology 6th Annual Industrial Psychology Conference incorporating the Psychometric Conference. Sandton Convention Centre, Johannesburg. June 2003.

Jere,MG

Jere,MG and Jere,AK. "Services advertising: A comparison of advertising appeals and executions employed in services and goods print advertisements". 2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference. University of Potchefstroom, Potchefstroom. September 2003.

Pearse,NJ

Pearse,NJ and Smith,CO. "An organisational social capital perspective of leader succession in churches". *Sixth Annual Conference of the Society for Industrial & Organisational Psychology of SA.* June 2003.

Pearse,NJ and Smith,CO. "The origin and development of grounded theory and its use in management research". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference.* University of Potchefstroom, Potchefstroom. September 2003.

Stevens,C, Tembo,RG, West,MR and Pearse,NJ

Stevens,C, Tembo,RG, West,MR and Pearse,NJ. "Management perceptions of new technology and managing its introduction: The case of an underutilised intranet". *2003 Southern African Institute of Management Scientists (SAIMS) Annual Conference.* University of Potchefstroom, Potchefstroom. September 2003.

SUBSIDY UNITS CLAIMED

MANAGEMENT	UNITS	IN PRESS	NON SAPSE
Pearse,NJ			
<i>Malherbe,MD and Pearse,NJ.</i> "The relationship between job enrichment, job satisfaction and service quality: An exploratory study in the retail industry of South Africa". <i>Management Dynamics: Contemporary Research Journal of the Southern Africa Institute for Management Scientists/Bestuursdinamika: Kontemporêre Navorsing Tydskrif Van Die Suider-Afrika Instituut Vir Bestuurwetenskaplikes.</i> 2003. 12(2),2-12.	1.00		
TOTAL FOR MANAGEMENT	1.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

MATHEMATICS

The Fuzzy Algebra research team headed by Professor V. Murali produced ten publications: five published, three accepted and two submitted. His collaborators are Dr. G. Lubczonok and Dr. B. Makamba from the University of Fort Hare. Dr. Lubczonok also collaborated with Dr. C. Rensing, publishing a paper on geometric fuzzification.

Professor M. H. Burton continues his involvement with Biochemistry and Bioinformatics and a paper on an application of neural networks to process engineering was published.

Mr. P. Jacot-Guillarmod completed his M.Sc. thesis under the supervision of Professor W. Kotzé.

There are currently 3 Honours, 2 Master's and 1 PhD student of which one Master's student graduated in April 2004.

PROFESSOR M. BURTON
ACTING HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Burton,MH

Boshoff,A, Burton,MH and Burton,SG. "Optimisation of catechol production using membrane-immobilised polyphenol oxidase - a modeling approach". *Biotechnology and Bioengineering*. 2003. 83,1-7.

Lubczonok,G and Rensing,CC

Lubczonok,G and Rensing,CC. "Geometric Fuzzification". *Quaestiones Mathematicae*. 2003. 26(2),147-161.

Murali,V

Murali,V and Makamba,BB. "On an equivalence of fuzzy subgroups II". *Fuzzy Sets and Systems*. 2003. (1),93-104.

Murali,V and Makamba,BB. "On an equivalence of fuzzy subgroups III". *International Journal of Mathematics and Mathematical Sciences*. 2003. (36),2303-2313.

Murali,V and Makamba,BB. "On krull intersection theorem of fuzzy ideals". *International Journal of Mathematics and Mathematical Sciences*. 2003. 4(1),251-262.

Murali,V and Makamba,BB. "Counting the number of fuzzy subgroups of an abelian group of order $pnqm$ ". *Fuzzy Sets and Systems*. 2003. (In Press).

Murali,V and Lubczonok,G

Murali,V and Lubczonok,G. "On fuzzy subbundles of vector bundles". *International Journal of Mathematics and Mathematical Sciences*. 2003. (40),2553-2565.

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

i. Local Conferences (Within South Africa)

Lubczonok,G

Lubczonok,G. "Fuzzy preference relations". *Eastern Cape Postgraduate Seminar in Mathematics*. University of Port Elizabeth, Port Elizabeth. September 2003.

Murali,V

Murali,V. "Umbral Calculus and Finite Fuzzy Subsets". *Eastern Cape Postgraduate Seminar in Mathematics*. University of Port Elizabeth, Port Elizabeth. September 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Rensing,C C

Rensing,C C. "Workshop". Campinas, Brazil. 14 - 26 July 2003.

Shepherd,GJ

Shepherd,GJ. Presenter. "Engineering aspects of the World Trade Centre Twin Towers". Public Lecture. Red Lecture Theatre. Grahamstown. 22 May 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Murali,V

Murali,V. Madras University Vivekananda College, Chennai (Madras), India. Research. 1 - 15 March 2003.

SUBSIDY UNITS CLAIMED

MATHEMATICS	UNITS	IN PRESS	NON SAPSE
Burton,MH			
<i>Boshoff,A, Burton,MH and Burton,SG. "Optimisation of catechol production using membrane-immobilised polyphenol oxidase - a modeling approach". <i>Biotechnology and Bioengineering</i>. 2003. 83,1-7.</i>	0.34		
Lubczonok,G and Remsing,CC			
<i>Lubczonok,G and Remsing,CC. "Geometric Fuzzification". <i>Quaestiones Mathematicae</i>. 2003. 26(2),147-161.</i>	1.00		
Murali,V			
<i>Murali,V and Makamba,BB. "On an equivalence of fuzzy subgroups II". <i>Fuzzy Sets and Systems</i>. 2003. (1),93-104.</i>	0.50		
<i>Murali,V and Makamba,BB. "On an equivalence of fuzzy subgroups III". <i>International Journal of Mathematics and Mathematical Sciences</i>. 2003. (36),2303-2313.</i>	0.50		
<i>Murali,V and Makamba,BB. "On krull intersection theorem of fuzzy ideals". <i>International Journal of Mathematics and Mathematical Sciences</i>. 2003. 4(1),251-262.</i>	0.50		
<i>Murali,V and Makamba,BB. "Counting the number of fuzzy subgroups of an abelian group of order $pnqm$". <i>Fuzzy Sets and Systems</i>. 2003. (In Press).</i>	0.50	Y	
Murali,V and Lubczonok,G			
<i>Murali,V and Lubczonok,G. "On fuzzy subbundles of vector bundles". <i>International Journal of Mathematics and Mathematical Sciences</i>. 2003. (40),2553-2565.</i>	1.00		
TOTAL FOR MATHEMATICS	4.34		
TOTAL IN PRESS	0.50		
TOTAL NON SAPSE	0.00		

MUSIC AND MUSICOLOGY

The department's most active researcher in 2003 was ethnomusicologist Dr. Diane Thram whose chapter on Zimbabwean Dandanda Song and Dance was published with Mellon Press in Lewiston, New York. A further chapter on Xhosa music of South Africa was accepted for publication by McGraw Hill in America. In addition she presented a paper at the *International Symposium on the Music of Africa* at Princeton University, New Jersey.

Dr. Radloff, President-elect of the South African Society of Music Teachers, was a colloquium participant at the 81st Annual Conference of the Society, which was run on the theme "*Music Education in South Africa and its Relevance*"

Daniela Heunis' research into aspects of the Flute yielded two publications in Unisa's SAMUS Journal, and she also submitted a book review for the Musicological Society of South Africa.

Staff members were also highly active in the performing sphere, with numerous solo recitals, chamber music performances, and orchestral concerts featuring during the calendar year. Of particular note were the debut recital in the Monument Theatre by newly appointed piano lecturer Catherine Foxcroft, the Zinthatu trio performances with Ms Heunis, the solo organ recitals and accompaniments of Christopher Cockburn, and the East Cape Philharmonic Orchestra Symphony Concert conducted by Professor Scarr.

Other important events

Rhodes University Chamber Choir 50th Anniversary Reunion Celebrations, July 2003

PROFESSOR D. SCARR
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Thram,D

Thram,D. "Performance as Ritual, Performance as Art: Therapeutic Efficacy of Dandanda Song and Dance in Zimbabwe". In: Avorgbedor, D(eds) *The Interrelatedness of Music, Religion, and Ritual in African Performance Practice*. Mellon Press. Lewiston, NY, USA. 2003. 99-125.

Thram,D. "Music of Southern Africa - Xhosa". In: Goetze, M(eds) *Global Voices in Song*. McGraw Hill. USA. 2003. (In Press).

OTHER PUBLICATIONS

Heunis,D

Heunis,D. "The history, instrumental development and repertoire of the flute trio". Van der Spuy, H(eds) *Musicus*. UNISA. Pretoria. 2002. 30(2), 103-106.

Heunis,D. "Flute Solos by South African Composers: An Overview (1967-2000)". Van der Spuy, H(eds) *Musicus*. UNISA. Pretoria. 2002. 30(2), 54-58.

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

i. Local Conferences (Within South Africa)

Radloff,T

Radloff,T. "Music Education in South Africa and Its Relevance". *81st Annual Conference of The South African Society of Music Teachers*. University of Pretoria, Pretoria. March 2003.

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

ii. International Conferences (Outside South Africa)

Thram,D

Thram,D. "Accessing Resources from the International Library of African Music". *International Symposium on the Music of Africa*. Princeton University, Princeton, New Jersey. USA. October 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Cockburn,C

Cockburn,C. Organ Accompanist. "Choral concert by Chanticleer Singers". Holy Trinity Church. Johannesburg. 27 February 2003.

Cockburn,C. Solo Organ. "Recital". Solo organ recital. Feathermarket Hall. Port Elizabeth. 18 March 2003.

Cockburn,C. Organ Accompanist. "Messiah from Scratch". St. Stithian's Chapel. Johannesburg. 3 May 2003.

Cockburn,C. Organ accompanist. "Choral concert by Chanticleer Singers". Commemoration Church. Grahamstown. 27 June 2003.

Cockburn,C. Organ Solo. "Multimedia Presentation". In Praise of the Shades. Grahamstown Cathedral. Grahamstown. 29 June - 1 July 2003.

Cockburn,C. Solo Organ. "Farewell Concert". Solo organ recital. Grahamstown Cathedral. Grahamstown. 17 August 2003.

Foxcroft,C

Foxcroft,C. Pianist in Quartet Anglais. "Konzertarbeitswochen". Masterclass. Goslar, Germany. 16 - 23 August 2003.

Foxcroft,C. Piano Accompanist. "Music Dept. Open Day". Open Day. Beethoven Hall, Rhodes University. Grahamstown. 20 September 2003.

Foxcroft,C. Piano Accompanist. "Jazz gig". private function. 7 Worcester St. Grahamstown. 22 November 2003.

Foxcroft,C. Piano Accompanist. "Rotary Concert". Rotary Concert. Guy Butler Theatre/Monument. Grahamstown. October 2003.

Foxcroft,C. Solo Pianist. "Debut Concert". Solo Recital. Guy Butler Theatre/Monum. Grahamstown. October 2003.

Heunis,D

Heunis,D. Flutist. "Heartlands". Solo flute in Heartlands. Rhodes Theatre. Grahamstown. 18 February 2003.

Heunis,D. Flutist. "Heartlands". Solo flute in Heart lands. Rhodes Theatre. Grahamstown. 25 February 2003.

Heunis,D. Flutist. "Heartlands". Solo flute in Heartlands. Cathedral. Grahamstown. 3 March 2003.

Heunis,D. Violist. "Rhodes University String Orchestra". Garden concert. VC's Garden. Grahamstown. 9 March 2003.

Heunis,D. Flutist. "Heartlands". Solo flute in Heartlands. Eden Grove. Grahamstown. 29 March 2003.

Heunis,D. Violist. "Rhodes University String Orchestra". Rhodes University Graduation. Monument Theatre. Grahamstown. 11 April 2003.

Heunis,D. Violist. "Rhodes University String Orchestra". Rhodes University Graduation. Monument Theatre. Grahamstown. 12 April 2003.

Heunis,D. Violist. "Rhodes University String Orchestra". Matric Farewell. Victoria Girls High School. Grahamstown. 10 May 2003.

Heunis,D. Violist. "Rhodes University String Orchestra". Matric Farewell. Kingswood College. Grahamstown. 7 June 2003.

Heunis,D. Flutist. "Solo Recital". Solo Recital with Zintathu. Beethoven Hall/Music Dept. Grahamstown. 13 June 2003.

Heunis,D. Flutist. "Solo Recital". Solo Recital with Zintathu. National Arts Festival. Grahamstown. 29 June 2003.

Heunis,D. Flutist. "Solo Recital". Solo Recital with Zintathu. National Arts Festival. Grahamstown. July 2003.

Heunis,D. Flutist. "String Trio". Haydn Mass. Cathedral. Grahamstown. 24 August 2003.

Heunis, D. Violist. "*Rhodes University String Orchestra*". VC's Concert. Monument Theatre. Grahamstown. 27 August 2003.

Heunis, D. Violist. "*Rhodes University String Orchestra*". Rhodes University Special Graduation. Monument Theatre. Grahamstown. 4 September 2003.

Heunis, D. Violist. "*Rhodes University String Orchestra*". Linde Concert. Inwenkwezi. East London. 4 October 2003.

Heunis, D. Violist. "*Rhodes University String Orchestra*". Composer's Concert. Beethoven Hall, Music Dept. Grahamstown. 19 October 2003.

Heunis, D. Flutist. "*Solo Recital*". Solo Recital with Zintathu. Anglican Church Hall. Port Alfred. 23 November 2003.

Radloff, T

Radloff, T. Adjudicator-Music Examiner. "*UNISA music examinations*". UNISA practical music examinations. Aliwal North /Burgersdop highschoools. Aliwal North/Burgersdorp. 20 - 26 August 2003.

Radloff, T. Adjudicator-Music Examiner. "*UNISA music examinations*". UNISA practical music examinations. George High School. George. 6 - 18 September 2003.

Scarr, D

Scarr, D. Conductor. "*Lodge garden concert*". Conductor and French Horn soloist. VC's Lodge garden. Grahamstown. 9 March 2003.

Scarr, D. Conductor. "*Symphony concert*". Eastern Cape Philharmonic Orchestra concert. Feathermarket Hall. Port Elizabeth. 16 March 2003.

Scarr, D. Conductor. "*Rhodes Chamber Choir*". Rhodes Graduation Ceremonies. Monument. Grahamstown. 11 April 2003.

Scarr, D. Conductor. "*Rhodes Chamber Choir*". Rhodes Graduation Ceremonies. Monument. Grahamstown. 12 April 2003.

Scarr, D. Conductor. "*Rhodes Brass and String Ensembles*". Vice Chancellor's Concert. Monument. Grahamstown. 27 August 2003.

Scarr, D. Conductor. "*Brass Section Training*". East Cape Philharmonic Youth Orchestra Project. Feathermarket Hall. Port Elizabeth. 1 - 3 October 2003.

Scarr, D. Adjudicator. "*East Cape Youth Concerto Festival auditions*". East Cape Youth Concerto Festival auditions. Feathermarket Hall. Port Elizabeth. August 2003.

Scarr, D. Adjudicator. "*East Cape Eskom Schools Music Competition*". East Cape Eskom Schools Music Competition. Guild Hall. East London. August 2003.

DISTINGUISHED VISITORS

Brien Masters, Memorial Lecture in honour of the late Jean Mierowski, who bequeathed an enormous personal music collection (both literary and sheet music) to the Rhodes Music Library. March 2003

Duo Paganini, Denmark, Violin and Guitar Masterclasses. March 2003

Professor Robert Rollin, Youngstown State University, Youngstown, USA. Lectures in composition. April 2003.

Aldo Lagrutta, Germany, Classical Guitar Masterclasses. May 2003

David Briggs, International English Organist, Arranger and Conductor, Recital in St Georges Cathedral. May 2003

Cavatina Quartet, Cape Town, Performance and Masterclasses. September 2003

SUBSIDY UNITS CLAIMED

MUSIC AND MUSICOLOGY	UNITS	IN PRESS	NON SAPSE
TOTAL FOR MUSIC AND MUSICOLOGY	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

NON ACADEMIC DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Smout,M and Stephenson,S

Smout,M and Stephenson,S. "Quality Assurance in South African Higher Education: A new beginning". Quality in Higher Education. 2002. 8(2),197-206.

SUBSIDY UNITS CLAIMED

NON ACADEMIC DEPARTMENT	UNITS	IN PRESS	NON SAPSE
Smout,M and Stephenson,S			
<i>Smout,M and Stephenson,S. "Quality Assurance in South African Higher Education: A new beginning". Quality in Higher Education. 2002. 8(2),197-206.</i>	1.00		Y
TOTAL FOR NON ACADEMIC DEPARTMENT	1.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	1.00		

PHARMACY

Several members of staff and 3 post-graduate students attended the 17th Annual SAAHIP conference in Natal (Drakensberg) and made 6 presentations (3 oral & 3 posters) on their research carried out in Pharmacy Practice & Administration. Ms Nikky Rockcliffe, an MSc student received the Afrox Healthcare Award for the BEST POSTER presentation. A further 6 presentations were made at the Psychopharmacology 2003 Congress held in Stellenbosch. Staff and post-graduate students of the Faculty of Pharmacy made 11 scientific presentations at the 24th Annual Congress of the Academy of Pharmaceutical Sciences held in Durban during 2003.

Several members of staff as well as some postgraduate students participated in several international conferences where the results of their research were presented. Professor Walker (Glasgow, Scotland), Professor Daya (Prague), Dr Beukes (Minneapolis, USA), whilst Professor Kanfer and his PhD student, Mary-Jean Dubber and Professor Haigh and Dr. Dowse attended the World Congress of Pharmacy & Pharmaceutical Sciences in Sydney, Australia where several presentations were made by that group. Professor Kanfer and Dr. Michael Skinner attended the 2003 BioInternational Conference held at the Royal Pharmaceutical Society in London, U.K. where they presented their work.

Staff and postgraduate students in the Faculty made 40 podium and poster presentations at local and international conferences and had 17 papers accepted for publication or published in peer-reviewed journals in 2003. A further 6 papers were published in professional journals during the year.

The Faculty of Pharmacy held its 3rd Annual Research Day in September at which sixteen postgraduate students in the Faculty presented their research data.

During 2003 there were 20 post-graduate students registered in the Faculty of Pharmacy; 13 registered for the MSc and 7 for the PhD degrees.

PROFESSOR I. KANFER
DEAN OF FACULTY

BOOKS/CHAPTERS/MONOGRAPHS

Kanfer, I

Kanfer, I and Shargel, L. "Introduction to Generic Drug Development". In: Kanfer, I and Shargel, L (eds) *Generic Drug Development: Solid Oral Dosage Forms*. Marcel Dekker Inc. New York, USA. 2003. 1. (In Press).

Kanfer, I and Walker, RB

Kanfer, I, Persicaner, PHR and *Walker, RB*. "Experimental Formulation Development". In: Kanfer, I and Shargel, L (eds) *Generic Drug Development: Solid Oral Dosage Forms*. Marcel Dekker Inc. New York, USA. 2003. 1. (In Press).

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Daya, S

Anoopkumar-Dukie, S, *Lack, B*, *McPhail, K*, *Lambat, Z*, *Maharaj, D*, *Nykong, T* and *Daya, S*. "Indomethacin reduces lipid peroxidation in rat brain homogenate by binding Fe²⁺". *Metabolic Brain Disease*. 2003. 18(1), 1-9.

Dairam, A and *Daya, S*. "Tolmetin reduces lipid peroxidation and superoxide anion generation in rat brain homogenate and protects against quinolinic acid induced neurotoxicity in rat hippocampus". *South African Journal of Psychiatry*. 2003. 9(2), 15-15.

Kadanthode, R, *Dairam, A* and *Daya, S*. "Melatonin affords protection against rotenone induced neurotoxicity". *South African Journal of Psychiatry*. 2003. 9(2), 15-15.

Maharaj, DS and *Daya, S*. "6-Hydroxymelatonin converts Fe³⁺ to Fe²⁺ and reduces iron induced lipid peroxidation". *South African Journal of Psychiatry*. 2003. 9(2), 10-10.

Maharaj, H, *Maharaj, DS*, *Saravanan, K*, *Mohanakumar, KP* and *Daya, S*. "Acetaminophen and aspirin inhibit superoxide anion generation and lipid peroxidation and protect against MPTP induced dopaminergic neurotoxicity in rats". *South African Journal of Psychiatry*. 2003. 9(2), 10-10.

Pillay, R, *Maharaj, DS*, *Daniel, S* and *Daya, S*. "Acetylcholine reduces cyanide induced superoxide anion generation and lipid peroxidation in rat brain homogenate". *Progress in Neuro-Psychopharmacology and Biological Psychiatry*. 2003. 27(1), 61-64.

Ramsunder,A, Maharaj,DS and Daya,S. "Metrifonate potentiates quinolinic acid and potassium cyanide induced neurotoxicity". *South African Journal of Psychiatry*. 2003. 9(2),10-10.

Wu,J and Daya,S. "17-Beta Estradiol reduces lipid peroxidation and superoxide anion induced by Homocysteine". *South African Journal of Psychiatry*. 2003. 9(2),15-15.

Dowse,R

Mansoor,LE and Dowse,R. "Effect of pictograms on the readability of patient information materials". *Annals of Pharmacotherapy*. 2003. 37,1003-1009.

Dowse,R and Ehlers,MS

Dowse,R and Ehlers,MS. "The influence of education on the interpretation of pharmaceutical pictograms for communicating medicine instructions". *International Journal of Pharmacy Practice*. 2003. 11,11-18.

Haigh,JM

Purdon,CH, Haigh,JM, Surber,C and Smith,EW. "Foam drug delivery in dermatology: Beyond the scalp". *American Journal of Drug Delivery*. 2003. 1,71-75.

Limson,JL and Daya,S

Maharaj,DS, Limson,JL and Daya,S. "6-Hydroxymelatonin converts Fe (III) to Fe (II) and reduces iron-induced lipid peroxidation". *Life Sciences*. 2003. 72(12),1367-1375.

Daniel,S, Limson,JL, Dairam,A and Daya,S. "Through metal binding curcumin protects against lead and cadmium induced lipid peroxidation in rat brain homogenates and against lead induced tissue damage in rat brain". *Journal of Inorganic Biochemistry*. 2003. (In Press).

Walker,RB and Daya,S

Maharaj,DS, Walker,RB, Glass,BD and Daya,S. "6-Hydroxymelatonin protects against KCN-induced free radical attack in rat brain homogenates". *Journal of Chemical Neuroanatomy*. 2003. 26,103-107.

OTHER PUBLICATIONS

Dowse,R and Ehlers,MS

Dowse,R and Ehlers,MS. "Pharmaceutical pictograms. Part 1: Communicating medicine information to the low-literate patient". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. 70, 34-36.

Dowse,R and Ehlers,MS. "Pharmaceutical pictograms. Part 2: Weird and wonderful interpretations". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. 70, 42-45.

Futter,WT

Futter,WT. "The Naked Manager: The Power Of Why?". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. (10), 34-38.

Futter,WT. "The Naked Manager: Am I Delivering Gimmes or Gripes?". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. 70.

Futter,WT. "The Naked Manager: Delegation - Letting and Getting Others To Do The Work". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. 70.

Futter,WT. "The Naked Manager: Setting Priorities". Osman, L(eds) SA Pharmaceutical Journal. Medpharm Publications. Pretoria. 2003. 70.

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

i. Local Conferences (Within South Africa)

Beukes,DR

Antunes,EM, Beukes,DR, Davies-Coleman,MT, Nyokong,T, Maree,DM and Maree,SE. "Structural, Physical and Photophysical Studies of Pyrroloiminoquinone Alkaloids from Marine Sponges of the Family Latrunculiidae". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003.

Knott,M and Beukes,DR. "An Investigation of South African Marine Algae as a Potential Source of New Pharmaceuticals". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003. 111.

Mdlalo,YL and Beukes,DR. "Synthesis of Marine Indoles, Dilemmaones A-C". *Frank Warren Organic Chemistry Conference*. Rhodes University, Grahamstown. April 2003. 112.

Dairam,A

Dairam,A, Beyssac,EW, Marsin,C and Aiache,JM. "Tolmetin reduces lipid peroxidation and superoxide anion generation in rat brain homogenate and protects against quinolinic acid induced neurotoxicity in rat hippocampus". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 6.

Daya,S

Kadanthode,R, Dairam,A and Daya,S. "Melatonin affords protection against rotenone induced neurotoxicity". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 5.

Maharaj,DS and Daya,S. "6-Hydroxymelatonin converts Fe³⁺ to Fe²⁺ and reduces iron induced lipid peroxidation". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 6.

Maharaj,H, Maharaj,DS, Saravanan,K, Mohanakumar,KP and Daya,S. "Acetaminophen and aspirin inhibit superoxide anion generation and lipid peroxidation and protect against MPTP induced dopaminergic neurotoxicity in rats". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 5.

Ramsunder,A, Maharaj,DS and Daya,S. "Metrifonate potentiates quinolinic acid and potassium cyanide induced neurotoxicity". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 5.

Wu,J and Daya,S. "17-Beta Estradiol reduces lipid peroxidation and superoxide anion induced by Homocysteine". *Psychopharmacology 2003 Congress*. Spier Estate, Stellenbosch. September 2003. 5.

Dowse,R

Mansoor,LE and Dowse,R. "An approach to designing patient information leaflets for low-literate patients". *17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Central Drakensberg. March 2003.

Rockcliffe,N, Parrish,AG and Dowse,R. "Decision analysis techniques and their use in clinical pharmaceutical services". *17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Central Drakensberg. March 2003.

Rockcliffe,N, Parrish,AG and Dowse,R. "What is the most cost-effective way to treat multi-drug resistant TB?". *17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Central Drakensberg. March 2003.

Dowse,R and Allan,L

Mwingira,B, Dowse,R and Allan,L. "Health, illiteracy and pharmaceutical pictograms: A student perspective". *24th Annual Congress of the Academy of Pharmaceutical Sciences*. Durban. September 2003.

Dowse,R and Ehlers,MS

Dowse,R, Ehlers,MS and Patel,UJH. "The influence of colour on the interpretation of warning pharmaceutical pictograms". *17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists*. Champagne Sports Resort, Central Drakensberg. March 2003.

Kanfer,I

Dubber,M-J, Sewram,V and Kanfer,I. "The Presence of Rutin Isomers in some commercially available Ginkgo biloba Products assayed by LC/MS/MS". *Academy of Pharmaceutical Sciences Conference*. Elangeni Hotel, Durban. September 2003.

Prasad Nair,V D and Kanfer,I. "Identification of Hypoxoside in an Extract of African Potato and Quantitative Analysis of some Commercial Preparations Containing Extracts of Hypoxis Hemerocallidea". *Academy of Pharmaceutical Sciences Conference*. Elangeni Hotel, Durban. September 2003.

Mohammadi,A, Kanfer,I and Walker,RB

Mohammadi,A, Kanfer,I and Walker,RB. "A micro-sample technique for the rapid determination of cyclizine in human serum using HPLC with coulometric detection". *24th Annual Congress of the Academy of Pharmaceutical Sciences*. Elangeni Hotel, Durban. September 2003.

Mohammadi,A, Walker,RB and Kanfer,I

Mohammadi,A, Walker,RB and Kanfer,I. "Assay of cyclizine tablets and suppositories using a stability-indicating capillary zone electrophoresis (CZE) method". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Oltmann,C

Oltmann,C. "Creating an awareness of Ethical Principles". 17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists. Champagne Sports Resort, Central Drakensberg. March 2003. 46.

Oltmann,C and Futter,WT

Oltmann,C and Futter,WT. "An investigation into the recording of data at Primary Health Care clinics in the Makana District". 17th Annual Conference of the SA Association of Hospital and Institutional Pharmacists. Champagne Sports Resort, Central Drakensberg. March 2003. 33.

Walker,RB

Walker,RB. 58th Pharmaceutical Society of South Africa Annual Conference and Annual General Meeting. Boardwalk Conference Centre, Port Elizabeth. May 2003.

Khamanga,S and Walker,RB. "Development and validation of an HPLC method for the analysis of verapamil (VRP) using carbamazepine (CBZ) as an internal standard". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Kieser,LF and Walker,RB. "Retardant effect on release rates of beta blockers from direct compression sustained release matrix tablets by freeze-drying with ethylcellulose". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Patel,F and Walker,RB. "Investigation of a direct compression method for the manufacture of carbamazepine matrix tablets". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Patel,F and Walker,RB. "The development and evaluation of a novel delivery system for the anticonvulsant drug carbamazepine". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Walker,RB, Ambler,L and Naidoo,V. "Are generics really substitutable?". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

Wright,JA and Walker,RB. "The development and validation of an HPLC method for the in vitro analysis of pseudoephedrine sulfate (PSS) using phenylpropanolamine as an internal standard". 24th Annual Congress of the Academy of Pharmaceutical Sciences. Elangeni Hotel, Durban. September 2003.

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

Pather,S, Beukes,DR and Leukes,WD. "The Fermentation, Isolation and Characterisation of Secondary Metabolites produced by a Marine Algicolous Fungus: A Biotechnological Approach". Society for Industrial Microbiology Annual Meeting 2003. Hyatt Regency Hotel, Minneapolis. USA. August 2003. 89.

Daya,S

Heideman,L and Daya,S. "An Investigation into the effect of quercetin on the N-Methyl D-aspartate receptors in the rat brain". 6th International Brain Research Organisation Conference. Conference Centre, Prague. July 2003.

Dowse,R and Ehlers,MS

Dowse,R, Sahadev,S, Singh,S, Ehlers,MS and Mansoor,LE. "Labelling medicines for patients with poor reading skills". World Congress of Pharmacy and Pharmaceutical Sciences. Conference Centre, Sydney. Australia. September 2003.

Haigh,JM

Haigh,JM, Purdon,CH and Smith,EW. "Comparison of the in vitro delivery of ibuprofen from commercially available gels from three countries through silicone membrane using the diffusion cells of the European Pharmacopoeia". World Congress of Pharmacy and Pharmaceutical Sciences. Conference Centre, Sydney. Australia. September 2003. 55.

Haigh, JM, Purdon, CH, Smith, EW and Surber, C. "Corticosteroid delivery to the skin under conditions of occlusion and non-occlusion". *World Congress of Pharmacy and Pharmaceutical Sciences*. Conference Centre, Sydney. Australia. September 2003. 55.

Haigh, JM, Smith, EW and Purdon, CH. "Comparative in vitro release of ibuprofen from cream and gel formulations through silicone membrane utilising the diffusion cells of the European Pharmacopoeia". *World Congress of Pharmacy and Pharmaceutical Sciences*. Conference Centre, Sydney. Australia. September 2003. 55.

Haigh, JM, Smith, EW, Purdon, CH, Beyssac, EW, Marsin, C and Aiache, JM. "Comparison of the in vitro delivery of progesterone and ibuprofen from gels through the shed skin of the forest cobra using Franz diffusion cells". *World Congress of Pharmacy and Pharmaceutical Sciences*. Conference Centre, Sydney. Australia. September 2003. 55.

Kanfer, I

Dubber, M-J, Sewram, V and Kanfer, I. "Quality control of relevant flavonoids reveals the presence of rutin isomers in some commercially available Ginkgo biloba products assayed by lc/ms/ms". *FIP World Congress of Pharmacy & Pharmaceutical Sciences*. Conference Centre, Sydney. Australia. September 2003.

Kanfer, I, Skinner, MF and Walker, RB

Kanfer, I, Skinner, MF and Walker, RB. "Safety and efficacy requirements for the registration of multisource (generic) medicines in South Africa". *FIP World Congress of Pharmacy & Pharmaceutical Sciences*. Conference Centre, Sydney. Australia. September 2003.

Kanfer, I, Skinner, MF and Walker, RB. "Guidelines for bioavailability and bioequivalence: An innovative South African approach". *BioInternational 2003: Towards harmonisation in bioavailability and bioequivalence*. The Royal Pharmaceutical Society, London. United Kingdom. October 2003.

Srinivas, S

Srinivas, S and Thielke, T. "Development of Clinical Pharmacy Services in India". *Federation of International Pharmacists Meeting*. Conference Centre, Sydney. Australia. September 2003.

Walker, RB

Kieser, LF and Walker, RB. "Freeze-drying of beta blockers with ethylcellulose for the manufacture of sustained release matrix tablet formulations". *30th Annual Meeting and Exposition of the Controlled Release Society*. Scottish Exhibition and Conference Centre, Glasgow. Scotland. July 2003. 753.

Patel, F and Walker, RB. "Development of a sustained release carbamazepine matrix tablet". *30th Annual Meeting and Exposition of the Controlled Release Society*. Scottish Exhibition and Conference Centre, Glasgow. Scotland. July 2003. 766.

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Kanfer, I

Kanfer, I. Designer and Performer. "*Bioequivalence - the link to safety and efficacy of generic medicines*". MC Consultants Legislation Forum. VW Conference Centre. Midrand. 15 April 2003.

Kanfer, I. Designer and Performer. "*Assessing the Quality, Safety and Efficacy Criteria Generic Medicines Need To Meet and Comparing These To The Originals*". The Generics Medicines Market Summit. VW Conference Centre. Midrand. 24 - 25 June 2003.

Kanfer, I. Designer and Performer. "*Requirements for the assessment of safety and efficacy of generic medicines*". South African Pharmaceutical Regulatory Affairs Association (SAPRAA). Randpark Golf Club. Randburg. 18 September 2003.

Oltmann, C

Oltmann, C. Designer and Performer. "*Intern-tutor training workshop on behalf of the South African Pharmacy Council*". Eastern Cape Health Resource Centre. East London. March 2003.

Oltmann, C. Designer and Performer. "*Amendments to the Medicines and Related Substances Act (no 101 of 1965) and the Pharmacy Act (no. 53 of 1974)*". Seagulls Hotel. Seagulls. 9 May 2003.

Oltmann, C and Allan, L

Oltmann, C and Allan, L. Designer and Performer. "*Proposed amendments to the Medicines and Related Substances Act (no. 101 of 1965) and the Pharmacy Act (no. 53 of 1974)*". Albany District Health offices. Grahamstown. 8 April 2003.

Oltmann,C and Allan,L. Designer and Performer. "Getting your Acts together: Legal changes to prescribing and dispensing medicines". Fort England Hospital. Grahamstown. 24 April 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Dairam,A

Dairam,A. Indian Institute of Chemical Biology, Calcutta, India. Research for PhD. 1 - 20 October 2003.

Daya,S

Daya,S. Indian institute of Chemical Biology, Calcutta, India. Research. October 2003.

SUBSIDY UNITS CLAIMED

PHARMACY	UNITS	IN PRESS	NON SAPSE
Daya,S			
Anoopkumar-Dukie,S, Lack,B, McPhail,K, Lambat,Z, Maharaj,D, Nykong,T and Daya,S. "Indomethacin reduces lipid peroxidation in rat brain homogenate by binding Fe ²⁺ ". <i>Metabolic Brain Disease</i> . 2003. 18(1),1-9.	0.57		
Pillay,R, Maharaj,DS, Daniel,S and Daya,S. "Acetylcholine reduces cyanide induced superoxide anion generation and lipid peroxidation in rat brain homogenate". <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> . 2003. 27(1),61-64.	1.00		
Dowse,R			
Mansoor,LE and Dowse,R. "Effect of pictograms on the readability of patient information materials". <i>Annals of Pharmacotherapy</i> . 2003. 37,1003-1009.	1.00		
Haigh,JM			
Purdon,CH, Haigh,JM, Surber,C and Smith,EW. "Foam drug delivery in dermatology: Beyond the scalp". <i>American Journal of Drug Delivery</i> . 2003. 1,71-75.	0.25		Y
Limson,JL and Daya,S			
Maharaj,DS, Limson,JL and Daya,S. "6-Hydroxymelatonin converts Fe (III) to Fe (II) and reduces iron-induced lipid peroxidation". <i>Life Sciences</i> . 2003. 72(12),1367-1375.	1.00		
Daniel,S, Limson,JL, Dairam,A and Daya,S. "Through metal binding curcumin protects against lead and cadmium induced lipid peroxidation in rat brain homogenates and against lead induced tissue damage in rat brain". <i>Journal of Inorganic Biochemistry</i> . 2003. (In Press).	1.00	Y	
Walker,RB and Daya,S			
Maharaj,DS, Walker,RB, Glass,BD and Daya,S. "6-Hydroxymelatonin protects against KCN-induced free radical attach in rat brain homegenates". <i>Journal of Chemical Neuroanatomy</i> . 2003. 26,103-107.	0.75		
TOTAL FOR PHARMACY	5.57		
TOTAL IN PRESS	1.00		
TOTAL NON SAPSE	0.25		

PHILOSOPHY

The Philosophy Department organised and hosted the Annual Conference of the *Philosophical Society of Southern Africa*. Three keynote and 50 other papers were read, 9 from post-graduate and 12 from overseas participants. Mathew Kieran (Leeds, UK) edited a Special Number of *Philosophical Papers* – the international journal edited and published by the Philosophy Department - on “Narrative Understanding”. In April a symposium was held at Rhodes University on Dr Thomas Martin's recently published book, *Oppression and the Human Condition*. Professor Debra Bergoffen (George Mason University, USA) and Dr Samantha Vice (Rhodes University) presented critical papers to which Dr Martin responded. In November Dr Martin presented a paper on "Role-Playing and Self-Deception in Sartre and Ishiguro" at the *Australasian Society for Continental Philosophy* conference held at the University of Queensland, Australia. Dr Ward Jones published a paper (“Is Scientific Theory-Commitment Epistemic or Practical”) in the prestigious journal, *Synthese*. Dr Jones was appointed Visiting Research Fellow in the Philosophy Department of the University of Reading (UK) for a period of three years. He also read various papers to audiences in the UK (Birkbeck College, Exeter, the Open University, York, Leeds, Birmingham) and Sweden (Stockholm, Uppsala). Mr Francis Williamson presented a paper (“Just War Theory and the Problem of Abortion”) at a colloquium on Just War Theory and Applied Ethics at the Royal Military Academy (Brussels, Belgium) in June. Dr Samantha Vice was appointed Post-Doctoral Fellow. She published a paper on “Literature and the Narrative Self” in *Philosophy*, the journal of the *Royal Institute of Philosophy*. Distinguished visitors to the Philosophy Department included Professor John Cottingham (Reading) and Dr Peter Goldie (King’s College, London).

In 2003 the Department had 8 full Honours and 6 MA students. Three of the MA students will graduate in April 2004.

PROFESSOR M. VERMAAK
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jones,W

Jones,W. "Is Scientific Theory-Commitment Epistemic or Practical?". *Synthese*. 2003. 137(3),325-344.

Ryan,D

Ryan,D. "Discourse Structure and Cartesian Scepticism". *South African Journal of Philosophy*. 2003. 22(1),40-50.

Vice,S

Vice,S. "Literature and the Narrative Self". *Philosophy*. 2003. 78(303),93-108.

OTHER PUBLICATIONS

Jones,W

Jones,W (eds). Rhodes University. Grahamstown. 2003. 32(1, 2 and 3).

Jones,W. "Book review of Jonathan Adler's Beliefs Own Ethics". *Times Literary Supplement*. 2003. December.

Vice,S

Vice,S. "Review of Integrity and the Fragile Self by Damian Cox, Marguerite La Caze and Michael P. Levine". *Philosophical Papers*. Jones, W(eds) Rhodes University. Grahamstown. 2003. 32(2), 229-234.

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

i. Local Conferences (Within South Africa)

Jones,W

Jones,W. "Indignation, Immodesty, and Immoral Believing". *Annual Philosophy Spring Colloquium*. Rhodes University, Grahamstown. September 2003.

Martin,T

Martin,T. "Responses to Papers Presented". *Colloquium on Oppression and the Human Condition*. Rhodes University, Grahamstown. April 2003.

Martin,T. "Self-Deception in *Remains of the Day*". *Interdisciplinary Colloquium on Remains of the Day*. Rhodes University, Grahamstown. September 2003.

Vice,S

Vice,S. "Dignity and Narrative Control in Ishiguro's *Remains of the Day*". *Interdisciplinary Colloquium on Remains of the Day*. Rhodes University, Grahamstown. September 2003.

Vice,S. "Ethics and the Phenomenology of Self". *Annual Philosophy Spring Colloquium*. Rhodes University, Grahamstown. September 2003.

Williamson,F

Williamson,F. "Sex, Disorder and Perversion". *PSSA Annual Congress*. Rhodes University, Grahamstown. January 2003.

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

Jones,W. *American Philosophical Assoc East Div. Conference*. Washington DC. United States. December 2003.

Martin,T

Martin,T. "Role-Playing and Self-Deception in Sartre and Ishiguro". *Australasian Society for Continental Philosophy Conference*. University of Queensland, Australia. November 2003.

Williamson,F

Williamson,F. "Just War Theory and the Problem of Abortion". *Just War Theory and Applied Ethics Conference*. Royal Military Academy, Brussels. Belgium. June 2003.

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

Jones,W. Presenter. "*Our Accountability for Believing*". Departmental Seminar. University of Birmingham. Birmingham, UK. October - December 2003.

Jones,W. Presenter. "*The Space of Reasons and Our Agency as Believers*". Departmental Seminar. University of Reading. Reading, UK. October - December 2003.

Jones,W. Presenter. "*Indignation, Immodesty and Immoral Believing*". Departmental Seminars. Birkbeck College. London, UK. October - December 2003.

Jones,W. Presenter. "*Indignation, Immodesty and Immoral Believing*". Open University. London, UK. October - December 2003.

Jones,W. Presenter. "*Our Accountability for Believing*". Departmental Seminar. Uppsala University. Uppsala, Sweden. October - December 2003.

Jones,W. Presenter. "*The Space of Reasons and Our Agency as Believers*". Departmental Seminar. Leeds University. Leeds, UK. October - December 2003.

Jones,W. Presenter. "*The Space of Reasons and Our Agency as Believers*". Departmental Seminar. York University. York, UK. October - December 2003.

Jones,W. Presenter. "*Indignation, Immodesty and Immoral Believing*". Stockholm University. Stockholm, Sweden. October - December 2003.

Jones,W. Presenter. "*Indignation, Immodesty and Immoral Believing*". University of Exeter. Exeter, UK. October - December 2003.

Vice,S

Vice,S. Presenter. "*The Tedium of the Good*". Departmental Seminar. Rhodes University. Grahamstown. September 2003.

Williamson,F

Williamson,F. Presenter. "Beliefs about Immoral Beliefs". Departmental Seminar. Rhodes University. Grahamstown. October 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Jones,W**

Jones,W. University of Reading, Reading, UK. Visiting Researcher and Lecturer as part of Teaching Exchange. October - December 2003.

DISTINGUISHED VISITORS

Professor D Berghoffen. George Mason University, Fairfax, Virginia USA. Visiting Lecturer. 21 April - 5 June 2003.

Professor L Code. York University, Toronto, Canada. Keynote Speaker and Visiting Lecturer. 17 January - 16 February 2003.

Professor J Cottingham. Reading University, Reading, UK. Visiting Lecturer. 15 February - 4 April 2003.

Dr P Goldie. Kings College London, London UK. Visiting Lecturer. 5 September - 1 November 2003.

Professor T Metz. Wits University, Johannesburg. Visiting Lecturer. 30 March - 4 April 2003.

SUBSIDY UNITS CLAIMED

PHILOSOPHY	UNITS	IN PRESS	NON SAPSE
Jones,W			
Jones,W. "Is Scientific Theory-Commitment Epistemic or Practical?". <i>Synthese</i> . 2003. 137(3),325-344.	1.00		
Ryan,D			
Ryan,D. "Discourse Structure and Cartesian Scepticism". <i>South African Journal of Philosophy</i> . 2003. 22(1),40-50.	1.00		
Vice,S			
Vice,S. "Literature and the Narrative Self". <i>Philosophy</i> . 2003. 78(303),93-108.	1.00		
TOTAL FOR PHILOSOPHY	3.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

PHYSICS AND ELECTRONICS

The long-standing link between the Radio Astronomy research group and the Hartebeesthoek Radio Astronomy Observatory (HartRAO) was strengthened in 2003 with Professor Justin Jonas being appointed as Managing Director of this national facility for a period of two years. During this secondment to the National Research Foundation (NRF) Professor Jonas continues as Chair and Head of the Department, splitting his time between Rhodes and HartRAO. One of his mandates is to replicate the symbiotic relationship between Rhodes and HartRAO with other universities.

This secondment allows Prof Jonas time and resources to manage South Africa's involvement in the \$1 billion international Square Kilometre Array (SKA) radio telescope project. He is the project scientist/engineer for the South African SKA steering committee, and will oversee the establishment of a research and technology centre that will facilitate South African participation in international SKA science and technology programmes. During 2003 he represented South Africa at SKA-related meetings at the Arecibo radio telescope in Puerto Rico and in Geraldton, Western Australia. Professor Jonas represented the interests of both the South African Department of Science & Technology and the international SKA project at Global Science Forum meetings in Paris in July and in Munich in December.

The Department has maintained its international profile over the past year with staff and students contributing to the international scientific milieu. Professor Jonas and Adrian Tiplady, a PhD student, attended the International Astronomical Union (IAU) General Assembly in Sydney during August. Tiplady presented a paper on his work on radio pulsars. Prof Allon Poole and Dr Lee-Anne Mckinnell organized and hosted the very successful 2003 International Reference Ionosphere (IRI) workshop at the Continuing Education Centre on the Rhodes campus in October. Professor Poole, Dr Mckinnell and two postgraduate students presented papers at this workshop that was attended by widely representative international participants.

Dr Makaiko Chithambo was awarded a research grant of US\$9000 by the Third World Academy of Sciences in 2003. This grant is to assist in the establishment of a research laboratory for time-resolved optical stimulation of luminescence for application in radiation dosimetry. Dr Chithambo presented papers at the 5th European Conference on Luminescent Detectors and Transformers of Ionizing Radiation in Prague, Czech Republic, the annual UK Luminescence and ESR research meeting held at the University of Wales, and at the 9th International Symposium on Radiation Physics held in Cape Town. Dr Chithambo and Dr Paul Nathanson made a research visit to the Centre for Scientific and Industrial Research, Pretoria to use facilities at the Centre carry out measurements on natural and synthetic dosimeters.

During 2003 the Department had two PhD and two MSc students.

PROFESSOR J. JONAS
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Chithambo,ML

Chithambo,ML. "Dependence of the thermal influence on luminescence lifetimes from quartz on the duration of optical stimulation". *Radiation Measurements*. 2003. 37,167-175.

Chithambo,ML. "The influence of annealing and partial bleaching on luminescence lifetimes in quartz". *Radiation Measurements*. 2003. 37,467-472.

McKinnell,LA and Poole,AWV

McKinnell,LA and Poole,AWV. "A neural network based electron density model for the E layer". *Advances in Space Research*. 2003. 31(3),589-595.

OTHER PUBLICATIONS

Stone,DB

Kolesov,E and Stone,DB. "Paleomagnetic paleolatitudes for Upper Devonian rocks of the Omolon massif, northeastern Russia". *Geological Society of America Special Paper*. 2002. 360, 243-257.

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

i. Local Conferences (Within South Africa)

Chithambo,ML

Chithambo,ML. "Comparative features of exponential models for the analysis of time-resolved luminescence spectra from quartz". *9th International Symposium on Radiation Physics*. Cape Town. October 2003.

Jonas,JL

Jonas,JL. "South Africa and the SKA Radio Telescope". *South African Institute of Physics Annual Conference*. Stellenbosch University, Stellenbosch. June 2003.

McKinnell,LA

McKinnell,LA, Friedrich,M and Steiner,RJ. "A New Approach to Modelling the daytime Ionospheric D-Region". *2003 International Reference Ionosphere Workshop*. Rhodes University, Grahamstown. October 2003.

Poole,AWV

Jacobs,L and Poole,AWV. "Improvements to the foF1 modelling of bottomside N-h profiles over Grahamstown". *2003 International Reference Ionosphere Workshop*. Rhodes University, Grahamstown. October 2003.

Oyeyemi,EO and Poole,AWV. "A new global foF2 prediction program". *2003 International Reference Ionosphere Workshop*. Rhodes University, Grahamstown. October 2003.

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

ii. International Conferences (Outside South Africa)

Chithambo,ML

Chithambo,ML. "Time-resolved luminescence from annealed synthetic quartz". *Luminescence and Electron Spin Resonance Research Seminar*. Aberystwyth. UK. September 2003.

Chithambo,ML. "Some features of time-resolved luminescence from synthetic quartz". *5th European Conference on Luminescent Detectors and Transformers of Ionizing Radiation*. Prague. Czech Republic. September 2003.

Jonas,JL

Jonas,JL. *Global Science Forum*. Paris. France. June 2003.

Jonas,JL. *SKA Workshop*. Ocean View Hotel, Geraldton. Australia. July 2003.

Jonas,JL. *IAU General Assembly*. Sydney Conference Centre, Sydney. Australia. July 2003.

Jonas,JL. *Global Science Forum*. Munich. Germany. December 2003.

McKinnell,LA

McKinnell,LA. "South African Ionospheric Data Holdings". *2003 International Reference Ionosphere Task Force Activity*. Trieste. Italy. June 2003.

McKinnell,LA and Friedrich,M. "Towards Neural Network Based Models for the Ionospheric D-Region". *16th European Space Agency symposium on Rocket and Balloon programmes*. St Gallen. Switzerland. June 2003. 369-373.

McKinnell,LA and Poole,AWV

McKinnell,LA and Poole,AWV. "Using Neural Networks to determine the statistical variation on a prediction". *2003 International Reference Ionosphere Task Force Activity*. Trieste. Italy. June 2003.

Tiplady,AJ

Tiplady,AJ and Frescura,FAM. "On the effect of electromagnetic torque on pulsar precession". *IAU symposium 218 - Young Neutron Stars and their Environments*. Sydney Conference Centre, Sydney. Australia. July 2003.

Tiplady,AJ and Jonas,JL

Tiplady,AJ and Jonas,JL. "Development of a digital pulsar timer". Radio Pulsars. Mediterranean Agronomic Institute of Chania, Crete. Greece. August 2002. 323.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**McKinnell,LA**

McKinnell,LA. Graz University of Technology, Gratz, Austria. Research. 1 March - 31 December 2003.

SUBSIDY UNITS CLAIMED

PHYSICS AND ELECTRONICS	UNITS	IN PRESS	NON SAPSE
Chithambo,ML			
<i>Chithambo,ML. "Dependence of the thermal influence on luminescence lifetimes from quartz on the duration of optical stimulation". Radiation Measurements. 2003. 37,167-175.</i>	1.00		
<i>Chithambo,ML. "The influence of annealing and partial bleaching on luminescence lifetimes in quartz". Radiation Measurements. 2003. 37,467-472.</i>	1.00		
TOTAL FOR PHYSICS AND ELECTRONICS	2.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

POLITICAL AND INTERNATIONAL STUDIES

Members of the department of Political and International Studies were engaged in a rich seam of research interests that span both the theoretical and practical end of the political and the international discipline.

Louise Vincent's work on both gender and on the pedagogy of politics continues to attract much attention. Although her work is usually rooted in sociological theory, during this year she published a piece on the discourse of women in conflict. Thabisi Hoeane has energetically contributed to popular discussion on political issues in the popular press and completed his PhD at the University of the Witwatersrand on "Reinterpretation of South African Electoral Studies: Race, Ethnicity and Democracy in the 1994 and 1999 Elections". He presented a paper on a theme drawn from this work at the International Political Science Association (IPSA) Convention that was held in Durban in July.

Professor Paul Bischoff published an article on South Africa's foreign policy in the South African journal of political studies, *Politikon*. Another piece, drawn from his first-hand experience with working for the UN in Bosnia-Herzegovina, was published by the journal of the South African Institute of International Affairs. In addition, he published a chapter on regionalism in Africa in a collection edited and published in the United States. Paul Bischoff also delivered a paper at the IPSA Convention in Durban. And he attended a colloquium entitled "Nations d' Europe et d' Asie: Les nouveaux enjeux geopolitiques" in France.

The Nelson Mandela Professor of Politics also visited France during the course of the year where he participated in the annual exchange between South African and French researchers. In addition, Professor Vale delivered a paper at the IPSA convention and another at the International Studies Convention that was held in Portland Oregon. A chapter jointly written by Peter Vale and Larry A Swatuk appeared in a collection on public policy and the environment edited by the Norwegian academic, Helge Hveem. Vale's co-authored article on the African Renaissance written together with the late Siphon Maseko was re-issued in a collection published in South Africa and he published an individually-written chapter in the book "What holds us together: Social Cohesion in South Africa" published by the HSRC Press. Two book reviews by Vale on the international relations of South Africa's transition were published by the journal *International Affairs* in London, and he published an article in South Africa's transition in the Turkish journal, *Birikim*. He was invited to join the editorial board of the journal, *International Relations*. Lynne Rienner Publishers in the United States and the University of Cape Town Press published Peter Vale's book, "Security and Politics in South Africa: the regional dimension".

PROFESSOR P. VALE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Bischoff,PH

Bischoff,PH. "Regionalism and Regional Cooperation in Africa: New Century Challenges and Prospects". In: Mbaku, J(eds) *Africa at the Crossroads*. Praeger. New York. 2003.

Vale,PC

Vale,PC. Gurney Safrika devrimine ne oldu?. *Birikim*, Aylık Soisyalist Kultur Dersigi. 2003. (175/176), 121 pp.

Vale,PC. "Postscript. From the African Renaissance to NEPAD". In: Jacobs,S and Calland, R(eds) *Thabo Mbeki's World: Critical Perspectives on the Ideology and Politics of the South African President*. Natal University Press. Durban. 2002. 139-142.

Vale,PC. *Security and Politics in South Africa: The Regional Dimension*. Lynne Rienner Publishers. London. 2003. 250 pp.

Vale,PC. *Security and Politics in South Africa: The Regional Dimension*. Boulder. Colorado. 2003. 250 pp.

Vale,PC. "Sovereignty, identity and the prospects for southern Africa's people". In: Chidester,D, Dexter,P and James, W(eds) *What Holds Us Together? Social Cohesion in South Africa*. HSRC Press. Cape Town. 2003. 23-41.

Swatuk,L and *Vale,PC*. "Sunset or Sunrise: Regime Change and Institutional Adjustment in South Africa - a Critical Analysis". In: Hveem,H and Nordhaugen, K(eds) *Public Policy in the Age of Globalisation: Responses to Environment and Economic Crisis*. Palgrave. London. 2002. 163-197.

Vale,PC and Maseko,S. "Thabo Mbeki: South Africa and the African Renaissance Idea". In: Jacobs,S and Calland, R(eds) *Thabo Mbeki's World: Critical Perspectives on the Ideology and Politics of the South African President*. Natal University Press. Durban. 2002. 121-138.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Bischoff,PH

Bischoff,PH. "External and Domestic sources of foreign policy ambiguity: South African Foreign Policy and the project of pluralist middle power". *Politikon*. 2003. 30(2),183-201.

Bischoff,PH. "Intervention in Bosnia-Herzegovina: Lessons of Peace Maintenance for Africa". *South African Journal of International Affairs*. 2003. 2(10),109-126.

Vale,PC

Vale,PC. "The Movement, the Masses and New International Relations Writing in South Africa". *International Affairs*. 2002. 78/2,585-593.

Vale,PC. "Migrancy, Xenophobia and Security-making in post-Apartheid South Africa". *Politikon*. 2002. 29/1,1-35.

Venter,D

Venter,D. "Foreword to special edition on globalisation". *Society in Transition*. 2003. 34(2),197-205.

Venter,D. "An Eclectic Selection of Internet Resources for the Study of Globalisation". *Society in Transition*. 2003. 34(2),370-382.

OTHER PUBLICATIONS

Vincent,LD

Vincent,LD. "Current Discourse on the Role of Women in Conflict Prevention and Conflict Transformation: A critique". *Conflict Trends*. 2003. (In Press).

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

i. Local Conferences (Within South Africa)

Bischoff,PH

Bischoff,PH. "The road towards a foreign peacekeeping commitment: South African foreign policy approaches to conflict resolution in Africa". *19th International Political Science Association Annual Conference*. Durban. June-July 2003.

Hoeane,T

Hoeane,T. "The Demise of Militant African Nationalism and Black Consciousness?: The PAC, Azapo and Sopa in". *19th International Political Science Association Annual Conference*. Durban. June-July 2003.

Vale,PC

Vale,PC. "Sovereignty, identity and the prospects for southern Africa's People". *19th International Political Science Association Annual Conference*. Durban. June-July 2003.

Vale,PC. "Engendering Gender in a Democratic Southern Africa". *Centre for Policy Studies*. Johannesburg. November 2003.

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

ii. International Conferences (Outside South Africa)

Vale,PC

Vale,PC. "Cold War and South Africa". *International Studies Association Convention*. Portland, Oregon. USA. February 2003.

Vale,PC. "What ever happened to the post-Apartheid Moment?". *Catholic Institute for International Relations*. Windhoek. Namibia. August 2003.

DISTINGUISHED VISITORS

Dr S Buhlungu. University of Witwatersrand, Johannesburg. Seminar. October 2003.

Professor T Campbell. Charles Stuart University, Australia. Seminar. May 2003.

Ambassador M Lake. European Union, Johannesburg. Lecture. September 2003.

Mr S Naidoo. Ministry of Defence, Pretoria. Lecture/Seminar. March 2003.

Professor T Shaw. Institute of Commonwealth Studies, University of London, London. Lecture/Seminar. April 2003.

Professor H Solomon. University of Pretoria, Pretoria. Lecture/Seminar. April 2003.

SUBSIDY UNITS CLAIMED

POLITICAL AND INTERNATIONAL STUDIES	UNITS	IN PRESS	NON SAPSE
Bischoff,PH			
<i>Bischoff,PH</i> . "External and Domestic sources of foreign policy ambiguity: South African Foreign Policy and the project of pluralist middle power". <i>Politikon</i> . 2003. 30(2),183-201.	1.00		
<i>Bischoff,PH</i> . "Intervention in Bosnia-Herzegovina: Lessons of Peace Maintenance for Africa". <i>South African Journal of International Affairs</i> . 2003. 2(10),109-126.	1.00		
Venter,D			
<i>Venter,D</i> . "Foreword to special edition on globalisation". <i>Society in Transition</i> . 2003. 34(2),197-205.	1.00		
<i>Venter,D</i> . "An Eclectic Selection of Internet Resources for the Study of Globalisation". <i>Society in Transition</i> . 2003. 34(2),370-382.	1.00		
TOTAL FOR POLITICAL AND INTERNATIONAL STUDIES	4.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

PSYCHOLOGY (GRAHAMSTOWN)

During 2003, nine staff (out of the total of fifteen) produced published research, which appeared in either refereed journals, book chapters or conference proceedings and, in particular, two of our staff members (D J A Edwards and AP Moerdyk) each had a book published. Additionally, a total of ten papers were published in a variety of professional journals ranging from on-line journals through to social science and clinical experimental neuropsychology journals. This research profile displays a healthy spread across the full range of staff. Moreover, several of the relatively junior staff were very productive, either in terms of producing published research or presenting papers at national psychology conferences. In addition to research that appeared in subsidised journals, there were ten further publications covering a diverse spectrum of interest. Such diversity is to be encouraged since it reflects the heterogeneity of staff interests which, in turn, serves to enrich our undergraduate and postgraduate teaching programmes. In addition to the formal engagement with research, several staff were also involved with various symposia and panel discussions, in particular, Professor Ann Edwards who was involved in a symposium held in Johannesburg dealing with current developments in the neuropsychology of sports concussion while Professor Stones was involved in an SABC Current Affairs interview dealing with the issue of the reintroduction of rifle target shooting as an extra-mural sporting activity in schools. Additionally, he spoke in a radio panel discussion (in L'viv, Ukraine) which explored the role of the Social Sciences, particularly psychology and psychotherapy with respect to healing the emotional scars of traumatic socio-political change in the Soviet regime in the aftermath of its decline. Also involved in presenting workshops was Professor Mark Welman who, under the auspices of the MTN CPC, presented workshops to the SAPS and several NGOs on the topic of violence against women and children.

The number of postgraduate students continues to be high, with our Honours class comprising 32 students, while the various Master's degree programmes have a total of 24 students. There are also 4 doctoral students. Finally, the Department of Psychology will see a total of 41 postgraduates receiving their degrees at the 2004 ceremonies.

PROFESSOR C. STONES
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Edwards,DJA

Edwards,DJA and Jacobs,M. Conscious and unconscious. Jacobs, M(eds) Open University Press. England. 2003. 165 pp.

Moerdyk,AP

Moerdyk,AP. "Introduction Chapter 1 Chapter 3 Chapter 11 Chapter 12 Chapter 13". In: van Aardt, CA(eds) Organizational Development: New models from Southern Africa. Pinpoint. Johannesburg. 2003.

Shuttleworth-Edwards,AB and Border,M

Shuttleworth-Edwards,AB, Border,M, Reid,I and Radloff,SE. "South African Rugby Union". In: Lovell, MR(eds) Traumatic Brain Injury in Sports. Swets & Zeitlinger. Netherlands. 2003. (9), 149-168.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Edwards,DJA

Edwards,DJA. "Mythic and theoretic aspects of the concept of the unconscious in popular and psychological discourse". *The Indo-Pacific Journal of Phenomenology*. 2003. 3(Edition 1),1-14.

Edwards,DJA, Henwood,J and Kannan,S. "Cognitive therapy for social phobia: The human face of cognitive science". *Alternation*. 2003. 10(2),122-150.

Edwards,DJA and Welman,M

Edwards,DJA, D'Agrela,A, Geach,M and Welman,M. "Eating disordered attitudes and behaviours in black and white females at high school and university in South Africa". *Journal of Psychology in Africa*. 2003. 13(1),16-33.

Knight,ZG

Knight,ZG and Bradfield,BC. "The experience of being with a psychiatric disorder: Living the label". *The Indo-Pacific Journal of Phenomenology*. 2003. 3(Edition 1),1-20.

Stones,CR

Stones,CR. "I am not your friend. I am your therapist. Difficult hermeneutics and psychodynamic psychotherapy (or the word of transference - living in it or working with it)". *The Journal of Critical Psychology, Counselling and Psychotherapy*. 2003. 3,229-238.

Smith,TB, Stratton,J, *Stones,CR* and Naidoo,A. "Ethnic identity and racial attitudes in a minority group of mixed racial origin". *Psychological Reports*. 2003. (92),284-290.

Stones,CR, Smith,TB and Naidoo,A. "Racial attitudes among South African young adults: A four-year follow-up study". *South African Journal of Psychology*. 2003. (33),39-43.

OTHER PUBLICATIONS

Earl-Taylor,M and Thomas,L

Earl-Taylor,M and *Thomas,L*. "The Long Term Neurological and Developmental Effects of Sexual Abuse of Infant Children". *Science in Africa*. <http://www.scienceinAfrica.co.za/2003/March/abuse.htm>. 2003.

Painter,D

Painter,D. "Dis niks anders as subtiele rassisme nie, Mnr Kombuis!". Du Plessis, T(eds) Rapport. 2003. 11-11.

Painter,D. "Afrocentrism in Psychology: Celebrating or entrenching difference? A review of re-examining psychology: critical perspectives and African insights". Stam, HJ(eds) *Theory and Psychology*. Sage Publications. London. 2003. 13(3), 426-428.

Painter,D. "Kies vir jou 'n taal: Engels, liberale ideologie en rassisme". van Heerden, E(eds) LitNet. <http://www.litnet.co.za/taaldebat/painter1.asp>. 2003. (In Press).

Painter,D. "Amerikaanse sielkunder en die liberale ideaal". van Heerden, E(eds) LitNet. <http://www.litnet.co.za/seminaar/amsiel.asp>. (In Press).

Shuttleworth-Edwards,AB

Shuttleworth-Edwards,AB. "Never say Never: Additive and Variability effects in Sports Concussion Research". *Journal of the International Neuropsychology Society*. (In Press).

Stones,C

Stones,C and *Van der Mescht,H* (eds). *The Indo-Pacific Journal of Phenomenology*. RU (Web publication). 2003.

Stones,CR

Stones,CR. "Editorial". *The Indo-Pacific Journal of Phenomenology*. *Stones, CR*(eds) www.ipjp.org. 2003. 3(1), 1-3.

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

i. Local Conferences (Within South Africa)

Edwards,DJA

Edwards,DJA. "Mythic and theoretic aspects of the concept of the unconscious in popular and psychological discourse". *Second South African Conference for Psychotherapy*. Rhodes University, Grahamstown. June 2003.

Edwards,DJA. "Understanding the psychological effects of trauma: Implications for supportive counselling debriefing and psychotherapy". *Second South African Conference for Psychotherapy*. Rhodes University, Grahamstown. June 2003.

Moerdyk,AP

Moerdyk,AP. "The nature and importance of employee values in determining organisational effectiveness". *Conference on Corporate Social Responsibility and Diversity*. Breakwater Business School, Cape Town. June 2003.

Moerdyk,AP and Hill,ME. "The Development of an instrument to measure intrapreneurship: Entrepreneurship within the corporate setting". *Society for Industrial and Organisational Psychology Conference*. Sandton Convention Centre, Johannesburg. June 2003.

Moerdyk,AP and Hill,ME. "Measuring Intrapreneurship: Entrepreneurship within the corporate setting". *Management Science Conference*. University of Potchefstroom, Potchefstroom. September 2003.

Painter,D

Painter,D. "Ethnic trash: Social psychology, liberal utopias and the politics of recognition". *9th Annual Conference of the Psychological Society of South Africa*. Caesar's Palace, Johannesburg. September 2003.

Shuttleworth-Edwards,AB

Shuttleworth-Edwards,AB. "Cumulative mild head injury in the contact sports: How fine is fine?". *Joint Neurological Rehabilitation Conference and Clinical Neuropsychology Conference.* University of the Witwatersrand, Johannesburg. October 2003.

Welman,M

Welman,M. "Keynote Address". *South African Security Association National Conference.* Durban. June 2003.

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

Appalsamy,P. "The process and phases of Arthur Crew Inman's suicidal career". *36th Annual American Association of Suicidology Conference.* Sante Fe. USA. April 2003.

Knight,ZG

Knight,ZG. "The narcissistic patient revisited". *11th European Association for Psychotherapy Congress.* L'viv. Ukraine. July 2003.

Painter,D

Painter,D. "A human science for an inhuman time? Failures of phenomenology in South African psychology 1970-1990". *10th Biennial Conference of the International Society of Theoretical Psychology.* Bogazici University, Istanbul. Turkey. June 2003.

Stones,CR

Stones,CR. "Upward displacement revisited: Hair today, gone tomorrow: Hair as symbolized sexuality". *11th European Association for Psychotherapy Congress.* L'viv. Ukraine. July 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.**Shuttleworth-Edwards,AB**

Shuttleworth-Edwards,AB. Symposium. "*Current developments in the Neuropsychology of Sports Concussion*". Joint Neurological Rehabilitation Conference and Clinical Neuropsychology Conference. Johannesburg. 20 - 24 October 2003.

Stones,CR

Stones,CR. Interview SABC Current Affairs. "*The pressing issue of the re-introduction of rifle target-shooting as an extramural sporting activity in schools at a time of increasing violence within South African society*". Current Affairs - Newsbreak (Lotus FM). 26 March 2003.

Stones,CR. Panel discussion. "*The role of the social sciences, especially psychology and psychotherapy, in a post-soviet regime in healing the emotional wounds of living in a deeply repressive society*". Radio/television discussion. L'viv, Ukraine. 10 July 2003.

Welman,M

Welman,M. Training programme. "*Investigative interviewing*". SARS. Pretoria. March 2003.

Welman,M. Training programme. "*Profiling skills*". Client Confidential. Johannesburg. April 2003.

Welman,M. Training programme. "*Investigative interviewing*". NPA. Pretoria. May 2003.

Welman,M and Thomas,R

Welman,M and *Thomas,R.* Supervised workshops. "*Violence against women and children*". MTN workshops for police and NGO personnel. Port Elizabeth,Durban, Cape Town. May - August 2003.

DISTINGUISHED VISITORS

Dr L Holzman. Side Institute for Short-term Therapy, New York USA. Workshops and Seminars. May 2003.

SUBSIDY UNITS CLAIMED

PSYCHOLOGY	UNITS	IN PRESS	NON SAPSE
Edwards,DJA			
<i>Edwards,DJA</i> . "Mythic and theoretic aspects of the concept of the unconscious in popular and psychological discourse". <i>The Indo-Pacific Journal of Phenomenology</i> . 2003. 3(Edition 1),1-14.	1.00		
<i>Edwards,DJA</i> , Henwood,J and Kannan,S. "Cognitive therapy for social phobia: The human face of cognitive science". <i>Alternation</i> . 2003. 10(2),122-150.	0.34		
Edwards,DJA and Welman,M			
<i>Edwards,DJA</i> , <i>D'Agrela,A</i> , <i>Geach,M</i> and <i>Welman,M</i> . "Eating disordered attitudes and behaviours in black and white females at high school and university in South Africa". <i>Journal of Psychology in Africa</i> . 2003. 13(1),16-33.	1.00		
Knight,ZG			
<i>Knight,ZG</i> and <i>Bradfield,BC</i> . "The experience of being with a psychiatric disorder: Living the label". <i>The Indo-Pacific Journal of Phenomenology</i> . 2003. 3(Edition 1),1-20.	1.00		
Stones,CR			
<i>Stones,CR</i> . "I am not your friend. I am your therapist. Difficult hermeneutics and psychodynamic psychotherapy (or the word of transference - living in it or working with it)". <i>The Journal of Critical Psychology, Counselling and Psychotherapy</i> . 2003. 3,229-238.	1.00		Y
<i>Smith,TB</i> , <i>Stratton,J</i> , <i>Stones,CR</i> and <i>Naidoo,A</i> . "Ethnic identity and racial attitudes in a minority group of mixed racial origin". <i>Psychological Reports</i> . 2003. (92),284-290.	0.25		
<i>Stones,CR</i> , <i>Smith,TB</i> and <i>Naidoo,A</i> . "Racial attitudes among South African young adults: A four-year follow-up study". <i>South African Journal of Psychology</i> . 2003. (33),39-43.	0.34		
TOTAL FOR PSYCHOLOGY	4.93		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	1.00		

PSYCHOLOGY (EAST LONDON)

The year 2003 represented a challenging one for staff on the East London campus in the light of the incorporation of this campus into Fort Hare and the contingent amount of work that was required to prepare for this event. Nevertheless, the Psychology Department remained active in the research field. We produced eight publications amongst six staff members. Four of these were papers published in peer-reviewed journals, one of which was co-authored by a recently graduated Masters student. One was a chapter in a book, and three were papers published in conference proceedings. Our staff was also active in presenting at conferences with four papers being delivered to international and two to national audiences.

A highlight for the department was the successful rating of Professor Catriona Macleod by the National Research Foundation (NRF). In addition to this, two applicants, Professor Gilbert and Professor Macleod, were successful in the applications to the NRF for research funding.

The research expertise of our staff members is being utilised by national and local organisations, with one staff member completing a substantive literature review for Gauteng-based educational NGO, and another being contracted to complete a long-term evaluation of a programme run by a local NGO. There were 17 Masters students registered in the department (with four probably graduating in 2004) and three doctoral students.

Professor Kevin Durrheim, our visiting professor, was with us for a week again in 2003. He conducted research workshops and theoretical seminars with post-graduate students and staff, consulted with staff members concerning their research, and delivered a public lecture, all of which were well received.

PROFESOR C. MACLEOD
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Macleod,C

Macleod,C. "Psycho-medical expertise: The governmental interstice in the private/public, individual/society divide". In: Shohov, S(eds) *Advances in Psychology Research*. Nova Science Publishers. New York. 2003. 28, 181-195.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Macleod,C

Macleod,C. "Teenage pregnancy and the construction of adolescence: Scientific literature in South Africa". *Childhood: A Global Journal of Child Research*. 2003. 10(4),419-437.

Macleod,C. "The conjugalisation of reproduction in South African teenage pregnancy literature". *Psychology in Society*. 2003. 29,23-37.

Connelly,M and Macleod,C. "Waging war: Discourses of HIV/AIDS in South African media". *African Journal of Aids Research*. 2003. 2(1),63-73.

Macleod,C and Durrheim,K. "Psycho-medical discourse in South African research on teenage pregnancy". *Transformation*. 2003. 51,74-100.

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

i. Local Conferences (Within South Africa)

Rankin,J

Rankin,J and Rankin,JEFF. "Drawing Rich Descriptions: Telling stories through the visual arts. Restoried". *The South African Association of Marital and Family Therapy*. 2003. 121-130.

Tutani,L and Rankin,J. "Lets Talk About Sex Baby...' while condoms explode in our faces Social practices and beliefs restoried". *The South African Association of Marital and Family Therapy*. 2003. 131-142.

Van Ommen,C

Van Ommen,C. "Pursuing mindfulness: The concept of positionings in considering the practice of Narrative Therapy". *The South African Association of Marital and Family Therapy*. 2003. 158-173.

Van Ommen,C. "Putting the PC in IQ: Images in the WAIS III". *Indigenous Knowledge Systems Conference, Perspectives on African indigenous knowledge systems*. University of South Africa, Pretoria. September 2003.

Van Ommen,C. "A fox in the aviary: Wittgenstein and memory". *South African Neuropsychological Association's Joint Neurological Rehabilitation and Clinical Neuropsychology Conference*. Birchwood Conference Centre, Johannesburg. October 2003.

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

ii. International Conferences (Outside South Africa)

Henderson,J

Henderson,J. "Getting 'layed'? New professional positions in South African Psychology". *International Society of Theory and Psychology conference*. Askari Conference Centre, Istanbul. Turkey. July 2003.

Macleod,C

Macleod,C. "The insidious unwed signifier in South African teenage pregnancy literature". *International Society of Theory and Psychology conference*. Askari Conference Centre, Istanbul. Turkey. July 2003.

Macleod,C. "Taken-for granted assumptions in knowledge production on teenage pregnancy in South Africa". *International Society of Theory and Psychology conference*. Askari Conference Centre, Istanbul. Turkey. July 2003.

Rankin,J

Rankin,J. "Celebrating relationships sex and sexuality in the Maluti Mountains of South Africa". *International Narrative Therapy and Community Work Conference*. University of Liverpool, Liverpool. Britain. July 2003.

DISTINGUISHED VISITORS

Professor K Durrheim. University of Natal, Pietermaritzburg. Workshops, seminars, lectures. August 2003.

SUBSIDY UNITS CLAIMED

PSYCHOLOGY (East London)	UNITS	IN PRESS	NON SAPSE
Macleod,C			
Macleod,C. "Teenage pregnancy and the construction of adolescence: Scientific literature in South Africa". <i>Childhood: A Global Journal of Child Research</i> . 2003. 10(4),419-437.	1.00		
Macleod,C. "The conjugalisation of reproduction in South African teenage pregnancy literature". <i>Psychology in Society</i> . 2003. 29,23-37.	1.00		
Connelly,M and Macleod,C. "Waging war: Discourses of HIV/AIDS in South African media". <i>African Journal of Aids Research</i> . 2003. 2(1),63-73.	1.00		
Macleod,C and Durrheim,K. "Psycho-medical discourse in South African research on teenage pregnancy". <i>Transformation</i> . 2003. 51,74-100.	0.50		
TOTAL FOR PSYCHOLOGY (East London)	3.50		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

RU MATHEMATICS EDUCATION PROJECT

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

i. Local Conferences (Within South Africa)

Brown,B

Brown,B. "Developing informal understanding of rational numbers". *Third International Conference on Science, Mathematics and Technology Education.* Regent Hotel, East London. January 2003.

Penlington,T

Penlington,T. "Mathematics activities in a matchbox". *National Congress for the Association of Mathematics Educators of South Africa.* University of Cape Town, Cape Town. July 2003. 2. 156.

Sainsbury,M and Brown,B

Sainsbury,M and Brown,B. "Working to link rural communities via the internet". *Third International Conference on Science, Mathematics and Technology Education.* Regent Hotel, East London. January 2003.

Spanneberg,R

Spanneberg,R. *Third International Conference on Science, Mathematics and Technology Education.* Regent Hotel, East London. January 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Spanneberg,R

Spanneberg,R. Curtin University of Technology, Perth, Australia. Completion of PhD. 5 - 30 June 2003.

SUBSIDY UNITS CLAIMED

RU MATHEMATICS EDUCATION PROJECT	UNITS	IN PRESS	NON SAPSE
TOTAL FOR RU MATHEMATICS EDUCATION PROJECT	0.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

SCHOOL OF LANGUAGES

The following members of staff undertook research during 2003:

Ms C Cordell

Ongoing research for doctoral thesis on 16th century French tragic tales

Professor P Fein, French Studies

Monograph on Crébillon fils

Professor F Jaques, French Studies

- a) Ongoing research on novels of F Mauriac
- b) The decolonization of French territories as reflected in the South African press.
- c) The memoirs of General Charles de Gaulle.

Mr J Jackson, Classical Studies

Preparation of articles on Suetonius' *The Twelve Caesars*:

- a) Suetonius and the First Person
- b) Suetonius' presentation of the Caesar outside his *Life*
- c) Irony in Suetonius

Mr W Krueger, German Studies

Research into Franz Kafka: Heiner Müller: "Der Horatier", Bertold Brecht: "*Der kaukasische Kreidekreis*", Günter Grass: "Katz und Maus" and the mediation of German grammar to English speakers.

Ms U Weber, German Studies

Max Frisch: "*Andorra*", Wolfgang Koeppen: "*Tauben im Gras*", "*Der Tod in Rom*", "*Das Treibhaus*" study of depiction of the holocaust in West German literature after 1945, Existentialism.

Dr G Meintjes, Afrikaans and Netherlandic Studies

Study of inter-textual aspects of a novel *Kikoejoe* by Etienne van Heerden.

Research on Dutch postcolonial literature.

TOTAL NUMBER OF POSTGRADUATE STUDENTS PER SECTION:

	CURRENTLY REGISTERED	GRADUATING 2004
CLASSICAL STUDIES	1 full-time/3 joint	1 full-time
FRENCH STUDIES	2 joint	-
GERMAN STUDIES	2	2
AFRIKAANS	0	0
AFRICAN LANGUAGES	1 joint	0

PROFESSOR F JAQUES

HEAD: SCHOOL OF LANGUAGES

BOOKS/CHAPTERS/MONOGRAPHS

Jaques,F

Jaques,F. "La Presse Sud-Africaine et La Guerre d'Algérie". In: Baudorre, P(eds) *La Plume dans la plaie: Les écrivains journalistes et la guerre d'Algérie*. Presses Universitaires de Bordeaux. Bordeaux, France. 2003. 79-89.

Mtuze,PT

Mtuze,PT. *The Essence of Xhosa Spirituality and the Nuisance of Cultural Imperialism*. Vivlia Publishers and Booksellers (Pty) Ltd. Florida Hills. 2003. 115 pp.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Fein,P L-M

Fein,P L-M. "Vraisemblance et séparation dans le roman par lettres". *French Studies in Southern Africa*. 2003. (32),41-53.

Jaques,F

Jaques,F. "Engagement et séparation chez Vailland et Mauriac". *French Studies in Southern Africa*. 2003. (32),54-64.

Jaques,F. "The NRF: Behind the scenes". *Journal of European Studies*. 2002. (xxxii),389-399.

Jaques,F. "La Presse Sud-Africaine et La Guerre D'Algérie". *La Plume Dans La Plaie*. 2003. 79-89.

Jaques,F. "Dieu et l'ange de lumière (*La Pharisienne*)". *Nouveaux Cahiers Francois Mauriac*. 2003. (11),117-125.

Mtuze,PT

Mtuze,PT. "Mandela's long walk to freedom: The IsiXhosa translator's tall order". *Southern African Linguistics and Applied Language Studies*. 2003. 21(3),141-152.

Weber,U

Weber,U. "Die schwarze Symphonie des schwarzen Erdteils". *Acta Germanica*. 2003. 30/31,31-40.

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

ii. International Conferences (Outside South Africa)**Weber,U**

Weber,U. "Africa in German as a Foreign Language - German as a Foreign Language in Africa". *Association for German Studies in Southern Africa*. University of Namibia, Windhoek. Namibia. April 2003.

Weber,U. "Global narratives -local narratives". *Women in German Studies*. University of Bath, Bath. United Kingdom. September 2003.

Weber,U. "Unifying aspects of culture". *INST-Research Institute for Austrian and International Literature and Cultural Studies*. Austria Centre, Vienna. Austria. November 2003.

SUBSIDY UNITS CLAIMED

SCHOOL OF LANGUAGES	UNITS	IN PRESS	NON SAPSE
Fein,P L-M			
Fein,P L-M. "Vraisemblance et séparation dans le roman par lettres". <i>French Studies in Southern Africa</i> . 2003. (32),41-53.	1.00		
Jaques,F			
Jaques,F. "Engagement et séparation chez Vailland et Mauriac". <i>French Studies in Southern Africa</i> . 2003. (32),54-64.	1.00		
Jaques,F. "The NRF: Behind the scenes". <i>Journal of European Studies</i> . 2002. (xxxii),389-399.	1.00		
Mtuze,PT			
Mtuze,PT. "Mandela's long walk to freedom: The IsiXhosa translator's tall order". <i>Southern African Linguistics and Applied Language Studies</i> . 2003. 21(3),141-152.	1.00		
Weber,U			
Weber,U. "Die schwarze Symphonie des schwarzen Erdteils". <i>Acta Germanica</i> . 2003. 30/31,31-40.	1.00		
TOTAL FOR SCHOOL OF LANGUAGES	5.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

SOCIAL DEVELOPMENT (EAST LONDON)

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Clarke-McLeod,PG

Volsak,N and Clarke-McLeod,PG. "Challenges facing probation officers working with young people in conflict with the law". Social Work Practitioner-Researcher. 2003. 15(3),29-30.

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

i. Local Conferences (Within South Africa)

Clarke-McLeod,PG

Clarke-McLeod,PG. "Restorative Justices". Probation Conference. East London. 2003.

Clarke-McLeod,PG. "The effects of institutions on people". Alternatives to constitutional care. Fort Hare, Alice. 2003.

Clarke-McLeod,PG. "Conceptual research". JUC Social Work Annual Social Work Conference. UNISA, Pretoria. October 2003.

Maistry,SM

Maistry,SM. "Addressing the historical legacies and new challenges for social welfare in the Eastern Cape, South Africa". ISER Rhodes University and St. Anthony's College, Oxford University. Regent Hotel, East London. 2003.

Maistry,SM. "Conceptualising Social Welfare and related concepts for the South African context". Joint Universities Committee Conference. UNISA, Pretoria. October 2003.

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

ii. International Conferences (Outside South Africa)

Clarke-McLeod,PG

Clarke-McLeod,PG. "Aids in South Africa". Public Lecture. Wisconsin University, USA. 2003.

SUBSIDY UNITS CLAIMED

SOCIAL DEVELOPMENT (East London)	UNITS	IN PRESS	NON SAPSE
Clarke-McLeod,PG			
<i>Volsak,N and Clarke-McLeod,PG. "Challenges facing probation officers working with young people in conflict with the law". Social Work Practitioner-Researcher. 2003. 15(3),29-30.</i>	1.00		
TOTAL FOR SOCIAL DEVELOPMENT (East London)	1.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

SOCIOLOGY AND INDUSTRIAL SOCIOLOGY

The Department of Sociology and Industrial Sociology was very active in the area of research during 2003. Two books, six chapters in books, four articles in accredited journals, book reviews and many other kinds of publication were produced. The year started with our department hosting a research workshop involving the United Nations Research Institute for Social Development (UNRISD) on the role of Social Policy in Development. This formed the African part of an ongoing international research project. Many publications are due to emerge from this project.

Staff members participated in a host of conferences and research workshops, both nationally and internationally, in Switzerland, Spain, Canada and Senegal.

Fred Hendricks spent a month on a research trip in Ethiopia doing research on comparing the constitutional trajectories of South Africa and Ethiopia. Jan Coetzee paid a research visit to Eastern Europe for consultations on his ongoing research project on biography and society.

At the start of 2003 we had two PhD graduates, (Lungisile Ntsebeza and Larry Strelitz) and three masters graduates, (Faith Pona, John Reynolds and Siyanda Ngcaba). This year we will probably have two PhD graduates (Monty Roodt and Michael Drewett) and one Masters graduate (Babalwa Sishuta).

The following students will graduate with honours degrees:

Sandra Dos Santos, Danuta Jaworski, Sandra Makwembere, Hlulani Mayayise, Ashley Sarimana, Catherine Sempebwa, Gillian Spence, Danny Herson, Tracey Hammond and Tina Wamala.

PROFESSOR F. HENDRICKS
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Adesina,JO

Adesina,JO. "Relations Etat/syndicats au Nigeria: Neo-liberalisme, autocratie et dilemme de la democratie". In: Lebeau,Y, Niane,B, Piriou,A and de Saint Martin, M(eds) *Etat et acteurs émergents en Afrique*. Karthala -IFRA. Paris. 2003. 57-85.

Coetzee,JK

Coetzee,JK. *Life on the margin: Listening to the squatters*. Rhodes University. Grahamstown. 2003. 234 pp.

Drewett,MD

Drewett,MD. "Music in the struggle to end apartheid: South Africa". In: Cloonan,M and Garofalo, R(eds) *Policing Pop*. Temple University Press. Philadelphia USA. 2003. 153-165.

Hendricks,FT

Hendricks,FT. "Land inequality in democratic South Africa". In: Bell, MM(eds) *Walking towards justice: Democratisation in rural life*. JAI Elsevier Press. Oxford UK. 2003. 9, 185-202.

Hendricks,FT. *Walking towards justice: Democratisation in rural life*. Bell, M(eds) JAI Elsevier Press. Oxford UK. 2003.

Bell,MM and *Hendricks,FT*. "Introduction". In: Bell, M(eds) *Walking towards justice: Democratisation in rural life*. JAI Elsevier Press. Oxford UK. 2003. 9, 1-19.

Klerck,GG

Klerck,GG and Naidoo,L. "In search of greener pastures: Trade Unionism in the agricultural sector". In: Bramble,T and Barchiesi, F(eds) *Rethinking the labour movement in the "New South Africa"*. Ashgate. Aldershot England. 2003. 150-167.

Roodt,JJ

Roodt,JJ. "Land restitution in South Africa". In: Leckie, S(eds) *Returning home: Housing and property restitution rights of refugees and displaced persons*. Transnational Publishers. Ardsley NY USA. 2003. (8), 243-271.

Ziehl,SC

Ziehl,SC. "The Family and Social Cohesion". In: Chidester,D, Dexter,P and James, W(eds) *What Holds Us Together? Social Cohesion in South Africa*. HSRC Press. Cape Town. 2003. 195-223.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Adesina,JO

Adesina,JO. "Labour policies of a neo-Fuhrer State: The Nigerian case". *Annals of the Social Science Academy of Nigeria*. 2003. 14,49-66.

Drewett,MD

Drewett,MD. "Battling over borders: Narratives of resistance to the South African border war voiced through popular music". *Social Dynamics*. 2003. 29(1),78-98.

Hendricks,FT

Hendricks,FT. "Class and citizenship in contemporary South Africa". *Society in Transition*. 2003. 34(1),1-12.

Klerck,GG

Klerck,GG. "Labour market regulation and the casualisation of the employment in Namibia". *South African Journal of Labour Relations*. 2003. 27(2),63-95.

Ziehl,SC

Ziehl,SC. "On the media, medical research and Gazi - a response". *Society in Transition*. 2003. 34(1),190-196.

Ziehl,SC. "Forging the links: Globalisation and family patterns". *Society in Transition*. 2003. 34(2),320-337.

OTHER PUBLICATIONS

Adesina,JO

Adesina,JO. "Beyond silence and forgetting: African's experience with regional development programmes". *South African Labour Bulletin*. 2003. 27(3), 1-4.

Drewett,MD

Drewett,MD. "Louise Meintjes. Sound of Africa! Making Music Zulu in a South African Studio". Hendricks, FT(eds) *African Sociological Review*. CODESRIA. Dakar, Senegal. 2003. 7(1), 189-191.

Hendricks,FT

Hendricks,FT. "African Sociological Review". Hendricks, FT(eds) *African Sociological Review*. CODESRIA. Dakar, Senegal. 2003. 7(1), 1-192.

Hendricks,FT. "Fault-lines in South African Democracy. Continuing Crises of inequality and injustice". Almen, E(eds) *Discussion Paper 22*. Nordiska Afrikainstitutet. Uppsala, Sweden. 2003. 22, 1-32.

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

i. Local Conferences (Within South Africa)

Adesina,JO

Adesina,JO. "NEPAD and the challenge of Africa's development: Towards the political economy of a discourse". *South African Sociological Association*. University of Natal, Durban. June/July 2003.

Hendricks,FT

Hendricks,FT. "Neither Real nor Imagined: The Nation in Ethiopia and South Africa". *South African Sociological Association*. University of Natal, Durban. June/July 2003.

Hendricks,FT. "Inequality, Research and Academic Freedom in South Africa". *Volkswagen Stiftung Cooperative Research Project: Germany: Sub-Sharan Africa*. University of Cape Town, Cape Town. January 2003.

Roodt,JJ

Roodt,JJ. "Cross-border local governments co-operation for poverty reduction in Africa: The Maputo Development Corridor experience". *South African Sociological Association*. University of Natal, Durban. June/July 2003.

Roodt,JJ. "Land restitution in South Africa". *Institute of Social and Economic Research*. University of Fort Hare, East London. August 2003. 1-29.

Sishuta,HB

Sishuta,HB. "Irrigation management transfer at the Tyhefu Irrigation Scheme". *South African Sociological Association.* University of Natal, Durban. June/July 2003.

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

ii. International Conferences (Outside South Africa)

Adesina,JO

Adesina,JO. "Social policy in African development context: Issues and preliminary research findings". *2nd Coordinators Workshop Research Project on Social Policy in the development context.* UNRISD, Geneva. Switzerland. December 2003.

Adesina,JO. "Intellectuals, nationalism, and the Pan-African ideal". *30th Anniversary Conference of Codesria.* CODESRIA, Dakar. Senegal. December 2003.

Coetzee,JK

Coetzee,JK. "Informal living on society's periphery: Towards policy and planning in South Africa". *6th European Conference of Sociology.* University of Murcia, Murcia. Spain. September 2003.

Drewett,MD

Drewett,MD. "Practising popular music". *12th Biennial Conference of the International Association for the Study of Popular Music.* Montreal. Canada. July 2003.

Hendricks,FT

Hendricks,FT. "Drawing swords in social science arguments: Archie Mafeje in debate". *30th Anniversary Conference of Codesria.* CODESRIA, Dakar. Senegal. December 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY

Hendricks,FT

Hendricks,FT. Addis Ababa University, Addis Ababa, Ethiopia. Research. October 2003.

DISTINGUISHED VISITORS

Dr S Buhlungu. University of the Witwatersrand, Johannesburg. Seminar. October 2003.

Professor J Cock. University of the Witwatersrand, Johannesburg. Lecture. March 2003.

Professor J Grobbelaar. University of Pretoria, Pretoria. Seminar. October 2003.

Dr O Hulec. Oriental Institute, Academy of Sciences of the Czech Republic, Prague, Czech Republic. Research. February 2003.

Professor A Sitas. University of Natal, Durban SA. Seminar. October 2003.

SUBSIDY UNITS CLAIMED

SOCIOLOGY	UNITS	IN PRESS	NON SAPSE
Adesina,JO			
<i>Adesina,JO.</i> "Labour policies of a neo-Fuhrer State: The Nigerian case". <i>Annals of the Social Science Academy of Nigeria.</i> 2003. 14,49-66.	1.00		
Drewett,MD			
<i>Drewett,MD.</i> "Battling over borders: Narratives of resistance to the South African border war voiced through popular music". <i>Social Dynamics.</i> 2003. 29(1),78-98.	1.00		
Hendricks,FT			
<i>Hendricks,FT.</i> "Class and citizenship in contemporary South Africa". <i>Society in Transition.</i> 2003. 34(1),1-12.	1.00		
Klerck,GG			

<i>Klerck,GG. "Labour market regulation and the casualisation of the employment in Namibia". <i>South African Journal of Labour Relations</i>. 2003. 27(2),63-95.</i>	1.00		
Ziehl,SC			
<i>Ziehl,SC. "On the media, medical research and Gazi - a response". <i>Society in Transition</i>. 2003. 34(1),190-196.</i>	1.00		
<i>Ziehl,SC. "Forging the links: Globalisation and family patterns". <i>Society in Transition</i>. 2003. 34(2),320-337.</i>	1.00		
TOTAL FOR SOCIOLOGY	6.00		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

STATISTICS

Members of the Department of Statistics in 2003 were involved in joint research with the Departments of Zoology and Entomology, Ichthyology and Psychology. Seven publications emanated from this collaborative research. In one publication, Professor Sarah Radloff and Mrs Bangay showed the significant effects of colony and individual bee sample sizes on the morphometric variances in honeybee populations of *Apis mellifera* and *Apis cerana*.

International collaborative research was also undertaken with Dr Gerald Kastberger from Karl-Franzens University of Graz, Austria. This research showed, using SOM (Self Organising Map) re-classification analysis, that individual worker bees of a single colony can be re-identified by their wing patterns alone with 100% success.

Professor Sarah Radloff was appointed to the International Scientific Board of the journal, *Apidologie*.

Four members of staff attended the 50th Anniversary Conference of the South African Statistical Association held at Caesars Conference Centre, Gauteng. One of the distinguished international visitors at the conference was an old Rhodian, Professor Trevor Hastie (1973 – 1976) who is presently Professor of Statistics at Stanford University, USA.

PROFESSOR S. RADLOFF
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Radloff,SE

Shuttleworth-Edwards,AB, Border,M, Reid,I and Radloff,SE. "South African Rugby Union". In: Lovell, MR(eds) Traumatic Brain Injury in Sports. Swets & Zeitlinger. Netherlands. 2003. (9), 149-168.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Radloff,SE

*Kastberger,G, Radloff,SE and Kranner,G. "Individuality of wing patterning in Giant honey bees (*Apis laboriosa*)". *Apidologie*. 2003. 34,311-318.*

*Neumann,P, Radloff,SE, Pirk,CWW and Hepburn,HR. "The behaviour of drifted Cape honeybee workers (*Apis mellifera capensis* Esch): Predisposition for social parasitism". *Apidologie*. 2003. 34,585-590.*

*Radloff,SE, Hepburn,HR and Koeniger,G. "Comparison of flight design of Asian honeybee drones". *Apidologie*. 2003. 34,353-358.*

Radloff,SE and Bangay,LJ

*Radloff,SE, Hepburn,HR and Bangay,LJ. "Quantitative analysis of intracolony and intercolony morphometric variance in honeybees, *Apis Mellifera* and *Apis cerana*". *Apidologie*. 2003. 34,339-351.*

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

i. Local Conferences (Within South Africa)

Bangay,LJ

Bangay,LJ. 50th Anniversary Conference of the South African Statistical Association. Caesar's Gauteng Conference Centre, Johannesburg. November 2003.

Baxter,JS

Baxter,JS. 50th Anniversary Conference of the South African Statistical Association. Caesar's Gauteng Conference Centre, Johannesburg. November 2003.

Radloff,SE

Radloff,SE. 50th Anniversary Conference of the South African Statistical Association. Caesar's Gauteng Conference Centre, Johannesburg. November 2003.

Szyszkowski,I

Szyszkowski,I. 50th Anniversary Conference of the South African Statistical Association. Caesar's Gauteng Conference Centre, Johannesburg. November 2003.

DISTINGUISHED VISITORS

Professor D De Waal. University of the Free State, Orange Free State. Lectures. October 2003.

Professor T Hastie. Stanford University, California, United States of America. Lecture. November 2003.

SUBSIDY UNITS CLAIMED

STATISTICS	UNITS	IN PRESS	NON SAPSE
Radloff,SE			
Kastberger,G, <i>Radloff,SE</i> and Kranner,G. "Individuality of wing patterning in Giant honey bees (<i>Apis laboriosa</i>)". <i>Apidologie</i> . 2003. 34,311-318.	0.34		
<i>Neumann,P, Radloff,SE, Pirk,CWW</i> and <i>Hepburn,HR</i> . "The behaviour of drifted Cape honeybee workers (<i>Apis mellifera capensis</i> Esch): Predisposition for social parasitism". <i>Apidologie</i> . 2003. 34,585-590.	0.25		
<i>Radloff,SE, Hepburn,HR</i> and Koeniger,G. "Comparison of flight design of Asian honeybee drones". <i>Apidologie</i> . 2003. 34,353-358.	0.34		
Radloff,SE and Bangay,LJ			
<i>Radloff,SE, Hepburn,HR</i> and <i>Bangay,LJ</i> . "Quantitative analysis of intracolony and intercolony morphometric variance in honeybees, <i>Apis Mellifera</i> and <i>Apis cerana</i> ". <i>Apidologie</i> . 2003. 34,339-351.	0.67		
TOTAL FOR STATISTICS	1.60		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		

ZOOLOGY AND ENTOMOLOGY

Christopher McQuaid spent time in Hong Kong working on a collaborative project at the University of Hong Kong, and also in Bangor at the University of Wales.

Martin Hill presented a keynote lecture at the XIth International Symposium on Biological Control of Weeds in Canberra, Australia.

Ric Bernard and Alan Hodgson completed their term of office as joint editors of the journal *African Zoology*.

Alan Hodgson is president of the Zoological Society of Southern Africa, and president of the International Society for Invertebrate Reproduction. He was awarded a Ray Lankester Visiting Investigatorship to do research at the Plymouth laboratories of the Marine Biological Association of the United Kingdom. Freda Ben-Ami from the Hebrew University of Jerusalem visited the department to continue collaborative research with Alan on reproduction in freshwater snails.

Randall Hepburn was an invited speaker at an IUSSI meeting 'Life cycles in social insects: a behavioural, ecological and evolutionary approach' in St Petersburg, Russia. For the new Asian focus of his honeybee research, Randall has established collaborative agreements with China and Indonesia, and also visited Japan and Borneo. He spent time in Germany with his main experimental collaborator, Peter Neumann, who now holds the title of "visiting professor" in this department. Peter and some of his students spent time at Rhodes doing fieldwork with Eastern Cape honeybees.

William Froneman was invited by the Royal Society of South Africa to give the 2003 Amy Jacot-Guillarmod memorial lecture.

Cécilia Houdelier, a graduate of the University of Rennes, France, spent 2003 in the department as a post-doctoral fellow funded by the NRF. Her doctoral supervisor and head of zoology at Rennes, Martine Hausberger, also visited the department for collaborative research on communication in starlings with Adrian Craig. Martine and Adrian have now been awarded funding for this project under the CNRS/NRF collaborative agreement.

We expect at least 3 PhD and 5 MSc students to graduate in April.

Current post-graduates: 13 Honours students; 26 MSc, 13 PhD still to complete.

PROFESSOR A. CRAIG
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Craig,AJF

Craig,AJF. "Family: Weavers". In: Grzimek's Animal Life Encyclopedia. Thomson Gale. Farmington Hills, MI. 2003. 11(Birds IV), 375-396.

Hill,MP

Cilliers,CJ, *Hill,MP*, Ogwang,JA and Ajuonu,O. "Aquatic Weeds in Africa and their Control". In: Neuenschwander,C, Borgemeister,C and Langewald, J(eds) Biological Control in IPM Systems in Africa. CAB International. Wallingford, UK. 2003. 161-178.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Allanson,BR

Allanson,BR. "Beacons in the limnological landscape". *African Journal of Aquatic Science*. 2003. 28,89-102.

Bernard,RTF

Parker,DM, *Bernard,RTF* and *Colvin,SA*. "The diet of a group of extralimital giraffe". *African Journal of Ecology*. 2003. 41(3),245-253.

Bonnevie,BT, Craig,AJFK and Hulley,PE

Bonnevie,BT, *Craig,AJFK*, *Hulley,PE* and *Underhill,GD*. "Moult, breeding season, mass, wing length, and dispersal in Cape Robins (*Cossypha caffra*) and Olive Thrushes (*Turdus olivaceus*): Results from mist-netting garden birds". *Ostrich*. 2003. 74,81-86.

Brown,CR

Brand,Z, Brand,TS and *Brown,CR*. "The effect of dietary energy and protein levels on production in breeding female ostriches". *British Poultry Science*. 2003. 44(4),598-606.

Downie,DA

Downie,DA. "Effects of short-term spontaneous mutation accumulation for life history traits in grape phylloxera". *Genetica*. 2003. 119,237-251.

Gullan,PJ, *Downie,DA* and Steffan,SA. "A new pest species of the mealybug genus *Ferrisia* Fullaway (Hemiptera: Pseudococcidae) from the USA". *Annals of the Entomological Society of America*. 2003. 96,723-737.

Ellis,JD and Hepburn,HR

Ellis,JD, Delaplane,KS, *Hepburn,HR* and Elzen,PJ. "Efficacy of Modified Hive Entrances and a Bottom Screen Device for Controlling *Aethina tumida* (Coleoptera: Nitidulidae) Infestations in *Apis mellifera* (Hymenoptera: Apidae) Colonies". *Journal of Economic Entomology*. 2003. 96(6),1647-1652.

Ellis,JD and *Hepburn,HR*. "A note on mapping propolis deposits in Cape honeybee (*Apis mellifera capensis*) colonies". *African Entomology*. 2003. 11,122-124.

Ellis,JD, *Hepburn,HR*, Delaplane,KS and Elzen,PJ. "A scientific note on small hive beetle (*Aethina tumida*) oviposition and behaviour during European (*Apis mellifera*) honey bee clustering and absconding events". *Journal of Apicultural Research*. 2003. 42,47-48.

Ellis,JD, *Hepburn,HR*, Delaplane,KS, Neumann,P and Elzen,PJ. "The effects of adult small hive beetles, *Aethina tumida* (Coleoptera: Nitidulidae) on nests and activity of Cape and European honeybees". *Apidologie*. 2003. 34,399-408.

Ellis,JD, *Hepburn,HR*, *Ellis,AM* and Elzen,PJ. "Social encapsulation of the small hive beetle (*Aethina tumida* Murray) by European honeybees (*Apis mellifera* L.)". *Insectes Sociaux*. 2003. 50(3),286-291.

Ellis,JD, *Hepburn,HR*, *Ellis,AM* and Elzen,PJ. "Prison construction and guarding behaviour by European honeybees is dependent on inmate small hive beetle density". *Naturwissenschaften*. 2003. 90,382-384.

Ellis,JD, *Holland,AJ*, *Hepburn,HR*, Neumann,P and Elzen,PJ. "Cape (*Apis mellifera capensis*) and European (*Apis mellifera*) honey bee guard age and duration of guarding small hive beetle (*Aethina tumida*)". *Journal of Apicultural Research*. 2003. 42,32-34.

Ellis,JD, *Richards,CS*, *Hepburn,HR* and Elzen,PJ. "Oviposition by small hive beetles elicits hygienic response from Cape honeybees". *Naturwissenschaften*. 2003. 90(11),532-535.

Froneman,PW

Bernard,K and *Froneman,PW*. "Mesozooplankton community structure and grazing impact in the Polar Frontal Zone during austral autumn". *Polar Biology*. 2003. 26,268-275.

Froneman,PW and Vorwerk,PD. "Predation impact of juvenile *Gilchristella aestuaria* (Clupeidae) and *Atherina breviceps* (Atherinidae) on the zooplankton in the temperate Kariega estuary, South Africa". *African Journal of Aquatic Science*. 2003. 28(1),35-41.

Froneman,PW and McQuaid,CD

Vumazonke,LU, *Pakhomov,EA*, *Froneman,PW* and *McQuaid,CD*. "Diet and daily ration of male and female *Nauticaris marionis* at the Prince Edward Archipelago". *Polar Biology*. 2003. 26,420-422.

Gray,DR and Hodgson,AN

Gray,DR and *Hodgson,AN*. "Growth and reproduction of the high shore South African limpet, *Helcion pectunculus* (Mollusca: Patellogastropoda)". *African Zoology*. 2003. 38,371-386.

Hepburn,HR

Radloff,SE, *Hepburn,HR* and *Bangay,LJ*. "Quantitative analysis of intracolony and intercolony morphometric variance in honeybees, *Apis Mellifera* and *Apis cerana*". *Apidologie*. 2003. 34,339-351.

Radloff,SE, *Hepburn,HR* and Koeniger,G. "Comparison of flight design of Asian honeybee drones". *Apidologie*. 2003. 34,353-358.

Hill,MP

Hill,MP. "The impact and control of alien aquatic vegetation in South African aquatic ecosystems". *African Journal of Aquatic Science*. 2003. 28,19-24.

Baars,J-R, Urban,AJ and Hill,MP. "Biology, host range, and risk assessment supporting release in Africa of *Falconia intermedia* (Heteroptera: Miridae), a new biocontrol agent for *Lantana camara*". *Biological Control*. 2003. 28,282-292.

Coetzee,JA, Byrne,MJ and Hill,MP. "Failure of *Eccritotarsus catarinensis*, a biological control agent of water hyacinth, to persist on pickerelweed, a non-target host in South Africa, after forced establishment". *Biological Control*. 2003. 28,229-236.

McConnachie,AJ, de Wit,MP, Hill,MP and Byrne,MJ. "Economic evaluation of the successful biological control of *Azolla filiculoides* in South Africa". *Biological Control*. 2003. 28,25-32.

Hodgson,AN

Pal,P and Hodgson,AN. "The structure of the egg ribbons of a planktonic and intracapsular developing siphonariid limpet (Gastropoda: Pulmonata)". *Invertebrate Reproduction and Development*. 2003. 43,243-253.

Hunt,BPV, Pakhomov,EA and McQuaid,CD

Hunt,BPV, Pakhomov,EA and McQuaid,CD. "Community structure of mesozooplankton in the Antarctic polar frontal zone in the vicinity of the Prince Edward Islands (Southern Ocean): Small-scale distribution patterns in relation to physical parameters". *Deep-Sea Research Part II*. 2002. 29(16),3307-3325.

Neumann,P, Pirk,CWW and Hepburn,HR

Neumann,P, Radloff,SE, Pirk,CWW and Hepburn,HR. "The behaviour of drifted Cape honeybee workers (*Apis mellifera capensis* Esch): Predisposition for social parasitism". *Apidologie*. 2003. 34,585-590.

Pirk,CWW

Pirk,CWW, Neumann,P and Ratnieks,FLW. "Cape honeybees, *Apis mellifera capensis*, police worker-laid eggs despite the absence of relatedness benefits". *Behavioral Ecology*. 2003. 14(3),347-352.

Pirk,CWW and Hepburn,HR

Neumann,P, Pirk,CWW, Hepburn,HR and Moritz,RFA. "Spatial differences in worker policing facilitate social parasitism of Cape honeybee workers (*Apis mellifera capensis* Esch.) in queenright host colonies". *Insectes Sociaux*. 2003. 50,109-112.

Porri,F

Emmerson,W, Cannicci,S and Porri,F. "New records for *Parasesarma leptosoma* (Higendorf, 1869) (Crustacea: Decapoda: Brachyura: Sesamidae) from mangroves in Mozambique and South Africa". *African Zoology*. 2003. 38(2),351-355.

Robertson,MP

Peter,CI, Ripley,BS and Robertson,MP. "Environmental limits to the distribution of *Scaevola plumieri* along the South African coast". *Journal of Vegetation Science*. 2003. 14,89-98.

Villet,MH

Harvey,ML, Mansell,MW, Villet,MH and Dadour,IR. "Molecular identification of some forensically important blowflies of southern Africa and Australia". *Medical and Veterinary Entomology*. 2003. 17,363-369.

Kelly,CMR, Barker,NP and Villet,MH. "Phylogenetics of advanced snakes (Caenophidia) based on four mitochondrial genes". *Systematic Biology*. 2003. 52,439-459.

Mkize,N, Villet,MH and Robertson,MP. "IsiXhosa insect names from the Eastern Cape, South Africa". *African Entomology*. 2003. 11(2),261-276.

Mosiane,SM, Kfir,R and Villet,MH. "Seasonal phenology of the diamondback moth, *Plutella xylostella* (L.), (Lepidoptera: Plutellidae), and its parasitoids on canola, *Brassica napus* (L.), in Gauteng province, South Africa". *African Entomology*. 2003. 11(2),277-285.

Perissinotto,R, Villet,MH and Stobbia,P. "Revision of the genus *Xiphoscelis* Burmeister 1842 (Coleoptera: Scarabaeidae Cetoniinae), with description of two new species and notes on its phylogeny and ecology". *Tropical Zoology*. 2003. 16,63-82.

Phillips,PK, Sanborn,AF and Villet,MH. "Thermal responses and the relationship to plant biomes in South African cicadas (Homoptera: Cicadidae)". *Florida Scientist*. 2003. 66,

Robertson,MP, Peter,CI, Villet,MH and Ripley,BS. "Comparing models for predicting species' potential distributions: A case study using correlative and mechanistic predictive modelling techniques". *Ecological Modelling*. 2003. 164,153-197.

Robertson,MP, Villet,MH, Fairbanks,DHK, Henderson,L, Higgins,SI, Hoffman,JH, Le Maitre,DC, Palmer,AR, Riggs,I, Shackleton,CM and Zimmerman,HG. "A proposed prioritisation system for the management of weeds in South Africa". *South African Journal of Science*. 2003. 99,37-43.

Sanborn,AF, Phillips,PK and Villet,MH. "Analysis of the calling songs of *Platypleura hirtipennis* (Germar, 1834) and *P. plumosa* (Germar, 1834) (Hemiptera: Cicadidae)". *African Entomology*. 2003. 11(2),291-296.

Sanborn,AF, Phillips,PK and Villet,MH. "Thermal responses in some Eastern Cape cicadas". *Journal of Thermal Biology*. 2003. 28,347-351.

Sanborn,AF, Villet,MH and Phillips,PK. "Hot-blooded singers: Endothermy facilitates crepuscular signaling in African platypleurine cicadas (Hemiptera: Cicadidae: Platypleura spp.)". *Naturwissenschaften*. 2003. 90,305-308.

Villet,MH, Sanborn,AF and Phillips,PK. "Endothermy and chorusing behaviour in the African platypleurine cicada *Pyna semiclara* (Germar, 1834) (Hemiptera: Cicadidae)". *Canadian Journal of Zoology*. 2003. 81,1437-1444.

OTHER PUBLICATIONS

Craig,AJF

Craig,AJF. "Size and moult of Streaky-headed Canaries *Serinus gularis* in the Eastern Cape". *Afring News*. South Africa. 2003. 32(1), 32-33.

Craig,AJF. "Emil Holub: A forgotten writer on our birds". *Diaz Diary*. South Africa. 2003. 31(2), 15-17.

Craig,AJF. "25th Michael Bands lecture". *Diaz Diary*. South Africa. 2003. 31(3), 2.

Craig,AJF. "A tribute to Dorothy Sulter". *Diaz Diary*. South Africa. 2003. 31(4), 2.

Craig,AJF. "Grahamstown and surrounding areas; Hogsback; Alexandria Forest". Gibbon, G(eds) Robert's multimedia birds of southern Africa. Southern African Birding cc. 2003. (Version 3).

Craig,AJF and *Parker,DM*. "Ringing and BIRPing in the Mountain Zebra National Park". *Bird Numbers*. South Africa. 2003. 12(1), 23-25.

Galpin,M and *Craig,AJF*. "Capped Wheatears in the Grahamstown area". *Diaz Diary*. South Africa. 2003. 31(3), 17-18.

Craig,AJFK

Craig,AJFK and Harrison,JA. "Eastern Cape Karoo Precinct". Young,DJ, Harrison,JA, Navarro,RA, Anderson,MD and Colahan, BD(eds) Big birds on farms: Mazda CAR report 1993-2001. Avian Demography Unit, University of Cape Town. Cape Town. 2003. 119-122.

Villet,MH

Villet,MH. "Insect Pest Management and Ecological Research". *African Entomology*. 2003. (11), 313-314.

Villet,MH. "Spray Oils Beyond 2000: Sustainable pest and disease management". *African Entomology*. 2003. (11), 311-311.

Villet,MH. "Tropical fruit pests and pollinators: Biology, economic importance, natural enemies and control". *African Entomology*. 2003. (11), 150-151.

Villet,MH. "Field guide to insects of South Africa". *African Zoology*. 2003. (38), 189-190.

Villet,MH. "Who to talk to when you have insects on your mind". *Science in Africa*. www.ScienceInAfrica.co.za/2003/october/insects.htm. 2003. (In Press).

Villet,MH, Sanborn,AF and Phillips,PK. "Singers with hot bodies: African cicadas reveal new tricks". Science in Africa. www.ScienceInAfrica.co.za/2003/february/cicadas.htm. 2003. (In Press).

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

i. Local Conferences (Within South Africa)

Bernard,RTF

Rapson,JA and Bernard,RTF. "Prey selection by large predators in small reserves in the Eastern Cape province". *Symposium of the Southern African Wildlife Management Association*. Western Cape, September 2003.

Downie,DA

Downie,DA. "Effects of short-term spontaneous mutation accumulation for life history traits in grape phylloxera". *Entomological Society of Southern Africa 14th Congress*. Pretoria. July 2003.

Froneman,PW

Burchell,L, Roberts,MJ and Froneman,PW. "Linking the coelacanth (*Latimeria chalumnae*) to its oceanographic environment". *Coastal and Ocean Exploration Conference*. East London. 2003.

Kemp,J and Froneman,PW. "Overtopping events: Evidence towards the recruitment of estuarine dependant marine fish into the temporarily open/closed Kasouga estuary, Eastern Cape". *2003 Southern African Society of Aquatic Sciences/Zoological Society of Southern Africa Conference*. Cape Town. July 2003.

Mbande,S, Froneman,PW and Whitfield,AK. "A preliminary assessment of the primary carbon sources utilized by fishes in the Mngazi and Mngazana estuaries". *2003 Southern African Society of Aquatic Sciences/Zoological Society of Southern Africa Conference*. University of Cape Town, Cape Town. July 2003. 130-131.

Mesher,C and Froneman,PW. "The physiological response of the mysid, *Mesopodopsis wooldridgei*, to changes in salinity and temperature". *2003 Southern African Society of Aquatic Sciences/Zoological Society of Southern Africa Conference*. Cape Town. July 2003.

Tweddle,G and Froneman,PW. "Spatial and temporal variations in ichthyofauna in a temperate, temporarily open/closed estuary". *2003 Southern African Society of Aquatic Sciences/Zoological Society of Southern Africa Conference*. Cape Town. July 2003.

Hill,MP

Hill,MP. "Control of water hyacinth at the landscape level". *31st Annual Biological Control of Weeds Workshop*. Tsitsikama National Park. 26 - 30 May 2003.

Hill,MP. "The integration of biological control in the management of aquatic alien plants". *Working for Water Inaugural Research Symposium*. Kirstenbosch, Cape Town. 19 - 21 August 2003.

Hill,MP. "Report on the WfW water hyacinth project". *31st Annual Biological Control of Weeds Workshop*. Tsitsikama National Park. 26 - 30 May 2003.

Hill,MP. "What are the options for water lettuce on Sunset Dam?". *31st Annual Biological Control of Weeds Workshop*. Tsitsikama National Park. 26 - 30 May 2003.

Besaans,L, Hill,MP and Nesor,S. "Do phalacrids (Coleoptera) hold the key to controlling a South African plant invasive in California?". *Proceedings of the 14th Entomological Congress of Southern Africa*. Pretoria. 6 - 9 July 2003. 86.

Coetzee,JA, Byrne,MJ and Hill,MP. "Is the water hyacinth mirid (Hemiptera: Miridae) physiologically suited to South Africa's climate?". *Proceedings of the 14th Entomological Congress of Southern Africa*. Pretoria. 6 - 9 July 2003. 16.

Foxcroft,L and Hill,MP. "Water hyacinth on Englehardt Dam, what do we do?". *31st Annual Biological Control of Weeds Workshop*. Tsitsikama National Park, 26 - 30 May 2003.

Oberholzer,IG, Hill,MP, Sosa,AJ and Cordo,HA. "*Megamelus scutellaris* (Hemiptera: Delphacidae), an additional natural enemy for water hyacinth in South Africa". *Proceedings of the 14th Entomological Congress of Southern Africa*. Pretoria. 6 - 9 July 2003. 100.

Hodgson,AN

Hodgson,AN. "Attended meeting in his capacity as President of the Society and Editor of African Zoology". *Annual Conference of the Zoological Society of southern Africa*. Cape Town. July 2003.

Hodgson,AN and Villet,MH

Chawanji,AS, Hodgson,AN and Villet,MH. "Polymegaly in some species of African platypleurine cicadas (*Auchenorrhyncha*: Cicadidae)". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 16.

Chawanji,AS, Hodgson,AN and Villet,MH. "Comparative ultrastructure of *Cicada* spermatozoa (*Auchenorrhyncha*: Cicadidae)". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 88.

Houdelier,C and Craig,AJF

Houdelier,C, Craig,AJF and Hausberger,M. "Starling vocalizations: Social adaptations or phylogenetic clues?". *4th Congress of the Southern African Society for Systematic Biology*. Pretoria. 2003. 41.

McQuaid,CD

Barker,NP, McQuaid,CD and Zardi,G. "Genetic diversity of mussel populations along South Africa coast as elucidated by mtDNA sequence data: Preliminary results". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Pakhomov,EA, Froneman,PW and McQuaid,CD

Vumazonke,LU, Pakhomov,EA, Froneman,PW, McQuaid,CD and Jacobs,EP. "An introduction to stable isotopes and the study of the coelacanth". *International Conference of Coastal and Ocean Exploration*. East London. 2003.

Parker,DM

Parker,DM. "Giraffe in the Eastern Cape province, South Africa: Tourism vs. the conservation of biodiversity". *Symposium of the Southern African Wildlife Management Association*. Western Cape, September 2003.

Simon,CA

Simon,CA. "To self, or not to self? That is the question. Sperm structure and fertilisation biology in *Terebrasabella heterouncinata*". *ZSSA Conference*. Cape Town. 2003.

Villet,MH

Bownes,A, Moore,SD and Villet,MH. "Predation by ants of soil-pupating citrus pests as a means of biological control". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 12.

Lunt,N, Villet,MH and Barker,NP. "Estimating development from phylogeny: Predicting developmental parameters of forensically significant flies". *Proceedings of the 4th Congress of the Southern African Society for Systematic Biology*. Pretoria. 9 - 11 July 2003. 26-27.

Lunt,N, Villet,MH and Barker,NP. "Combining phylogeny and development: The use of phylogeny for predicting developmental parameters of forensically important flies". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 52.

Lunt,N, Villet,MH and Barker,NP. "Estimating development from phylogeny: Predicting developmental parameters of forensically significant flies". *South African Society of Systematic Biologists*. University of Pretoria, Pretoria. July 2003.

Mkize,N and Villet,MH. "AmaXhosa beliefs regarding insects in south-eastern South Africa". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 98-99.

Mkize,N, Villet,MH and Robertson,MP. "Dictionary of isiXhosa insect names from the Eastern Cape, South Africa". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 57.

Robertson,MP and Villet,MH. "A comparison of modelling techniques for predicting species' potential geographical distributions". *Proceedings of the 4th Congress of the Southern African Society for Systematic Biology*. Pretoria. 9 - 11 July 2003. 51.

Robertson,MP and Villet,MH. "A comparison of modelling techniques for predicting species' potential geographical distributions". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 66-67.

Sishuba,N, Moore,SD, Villet,MH and Richards,G. "Parasitoids of false codling moth, *Cryptophlebia leucotreta* (Lepidoptera: tortricidae), on citrus". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 103-104.

Smith,TJ and Villet,MH. "The effects of temperature on the development of diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae)". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 70.

Villet,MH, Burger,M, Malherbe,C, Stephen,RD and Robertson,MP. "Cicadas (Hemiptera: Cicadidae) of South Africa". *Proceedings of the 4th Congress of the Southern African Society of Systematic Biology*. Pretoria. 9 - 11 July 2003. 47.

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Williams,KA and Villet,MH. "Seasonal occurrence of forensically important blowflies (Diptera: Calliphoridae) in Grahamstown, South Africa". *Proceedings of the 14th Congress of the Entomological Society of Southern Africa*. Pretoria. 6 - 9 July 2003. 83.

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

ii. International Conferences (Outside South Africa)

Bernard,RTF

Parker,DM and Bernard,RTF. "The diet of extralimital giraffe in the Eastern Cape Province, South Africa: Inappropriate introduction or valuable asset?". *3rd International Wildlife Management Congress*. Christchurch. New Zealand. 2003.

Parker,DM and Bernard,RTF. "Giraffe in the Eastern Cape Province, South Africa: Tourism vs. the conservation of biodiversity". *3rd International Wildlife Management Congress*. Christchurch. New Zealand. 2003.

Froneman,PW and McQuaid,CD

Ansorge,IJ, Froneman,PW, Lutjeharms,JRE and McQuaid,CD. "Source of mesoscale turbulence for the Antarctic Circumpolar Current at the South-West Indian Ridge". *International Union for Geodesy and Geophysics (IUGG) Conference*. Sapporo. Japan. 30 June - 11 July 2003.

Gray,DA and Hodgson,AN

Gray,DA and Hodgson,AN. "How important is a crevice to *Helcion pectunculus*?". *Evolution and Biology of Marine Limpets*. Universities Marine Biological Station, Millport, Isle of Cumbrae. Scotland, UK. 28 - 30 March 2003.

Hill,MP

Baars,J-R, Heystek,F and Hill,MP. "Potential of the petiole-galling weevil, *Coelocephalapion camarae*, to markedly improve biocontrol of *Lanatan camara*". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

Byrne,MJ and Hill,MP. "Climate compatibility of biological control agents". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

Coetzee,JA, Byrne,MJ and Hill,MP. "The influence of herbivory by the mirid, *Eccritotarsus catarinensis*, on the competitive ability of water hyacinth". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

Gillespie,P, Klein,H and Hill,MP. "Establishment of a weed biocontrol implementation programme in South Africa". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

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McConnachie,AJ, Hill,MP, Byrne,MJ and de Wit,MP. "The Successful Biological Control of *Azolla filiculoides* in South Africa: An economic perspective". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

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Sosa,AJ, Cordo,HA, Szudruk,MA, Hernandez,MC and Hill,MP. "Host specificity of *Megamelus scutellaris* Berg (Hemiptera, Fulgoromorpha, Delphacidae) a potential agent for the biological control of water hyacinth". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

Williams,H and Hill,MP. "The trimorphic lantana flea-beetle, *Alagoasa extrema*, not suitable for release in Africa, but is suitable for release in Australia". *Proceedings of the Xith International Symposium on Biological Control of Weeds*. Canberra. Australia. 27 April - 2 May 2003.

Hodgson,AN

Hodgson,AN. "Egg longevity and early events at fertilization in patellid limpets". *Evolution and Biology of Marine Limpets*. Universities Marine Biological Station, Millport, Isle of Cumbrae. Scotland, UK. 28 - 30 March 2003.

Hodgson,AN. "Studies on the reproductive biology of the brooding bivalve *Thecalia concamerata*". *Conference on the Biology of Bivalves*. Cambridge. UK. September 2003.

Hodgson,AN and Pal,P. "The structure of the egg ribbons of a planktonic and direct developing siphonariid limpet (Gastropoda: Pulmonata)". *Evolution and Biology of Marine Limpets*. Universities Marine Biological Station, Millport, Isle of Cumbrae. Scotland, UK. 28 - 30 March 2003.

Pal,P and Hodgson,AN. "The accessory reproductive gland (=glandular complex) of *Siphonaria capensis* and *S. serrata*: structure and possible function". *Evolution and Biology of Marine Limpets*. Universities Marine Biological Station, Millport, Isle of Cumbrae. Scotland, UK. 28 - 30 March 2003.

Vat,L and Hodgson,AN. "Variability in growth rate of *Scutellastra granularis* (Patellogastropoda) from the South-east coast of South Africa". *Evolution of Biology and Marine Limpets*. Universities Marine Biological Station, Millport, Isle of Cumbrae. Scotland, UK. 28 - 30 March 2003.

Villet,MH

Smith,TJ and Villet,MH. "Parasitoid wasps associated with the diamondback moth, *Plutella xylostella*, in the Eastern Cape, South Africa". *Proceedings of the 4th International Workshop*. Department of Natural Resources and Environment, Melbourne. Australia. 2003.

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Craig,AJF

Craig,AJF. Presenter. "*Birds that Cheat*". Focus Week. Albany Museum. Grahamstown. 13 - 17 October 2003.

Froneman,PW

Froneman,PW. Lecturer. "*Why size counts when considering estuaries*". Royal Society of South Africa, Amy Jacot-Gillarmod memorial lecture. Grahamstown. 2003.

Hill,MP

Hill,MP. Organiser. "*31st Annual Biological Control of Weeds Workshop*". 31st Annual Biological Control of Weeds Workshop. Tsitsikama National Park. Tsitsikama. 26 - 30 May 2003.

Villet,MH

Villet,MH. Presenter. "Forensic Entomology". Focus Week. Albany Museum. Grahamstown. 10 - 14 March 2003.

Villet,MH. Interview. "Radio interview". SAfm Stereo, Morning Live. 8 April 2003.

OVERSEAS RESEARCH AND/OR FURTHER STUDY**Hodgson,AN**

Hodgson,AN. Marine Biological Association of the United Kingdom, Plymouth, UK. Studies on fertilization biology of limpets. September 2003.

DISTINGUISHED VISITORS

Mrs F Ben-Ami. Hebrew University of Jerusalem, Jerusalem, Israel. Studies on the structure of the brood chambers of freshwater gastropods. October 2003.

Dr J Donaldson. Kirstenbosch Research Centre, National Botanical Institute, Cape Town. Seminar. October 2003.

Dr M Hausberger. University of Rennes, Rennes, France. Research on starling vocalizations. March 2003.

SUBSIDY UNITS CLAIMED

ZOOLOGY AND ENTOMOLOGY	UNITS	IN PRESS	NON SAPSE
Allanson,BR			
Allanson,BR. "Beacons in the limnological landscape". <i>African Journal of Aquatic Science</i> . 2003. 28,89-102.	1.00		
Bernard,RTF			
Parker,DM, Bernard,RTF and Colvin,SA. "The diet of a group of extralimital giraffe". <i>African Journal of Ecology</i> . 2003. 41(3),245-253.	1.00		
Bonnevie,BT, Craig,AJFK and Hulley,PE			
Bonnevie,BT, Craig,AJFK, Hulley,PE and Underhill,GD. "Moult, breeding season, mass, wing length, and dispersal in Cape Robins (<i>Cossypha caffra</i>) and Olive Thrushes (<i>Turdus olivaceus</i>): Results from mist-netting garden birds". <i>Ostrich</i> . 2003. 74,81-86.	0.75		
Brown,CR			
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Gullan,PJ, Downie,DA and Steffan,SA. "A new pest species of the mealybug genus <i>Ferrisia</i> Fullaway (Hemiptera: Pseudococcidae) from the USA". <i>Annals of the Entomological Society of America</i> . 2003. 96,723-737.	0.34		
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small hive beetle (<i>Aethina tumida</i> Murray) by European honeybees (<i>Apis mellifera</i> L.)". <i>Insectes Sociaux</i> . 2003. 50(3),286-291.			
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Ellis,JD, Richards,CS, Hepburn,HR and Elzen,PJ. "Oviposition by small hive beetles elicits hygienic response from Cape honeybees". <i>Naturwissenschaften</i> . 2003. 90(11),532-535.	0.75		
Froneman,PW			
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Froneman,PW and McQuaid,CD			
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Gray,DR and Hodgson,AN			
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Pal,P and Hodgson,AN. "The structure of the egg ribbons of a planktonic and intracapsular developing siphonariid limpet (Gastropoda: Pulmonata)". <i>Invertebrate Reproduction and Development</i> . 2003. 43,243-253.	1.00		
Hunt,BPV, Pakhomov,EA and McQuaid,CD			
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Neumann,P, Pirk,CWW and Hepburn,HR			
Neumann,P, Radloff,SE, Pirk,CWW and Hepburn,HR. "The behaviour of drifted Cape honeybee workers (<i>Apis mellifera capensis</i> Esch): Predisposition for social parasitism". <i>Apidologie</i> . 2003. 34,585-590.	0.75		
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Porri,F			
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Robertson,MP			
<i>Peter,CI, Ripley,BS</i> and <i>Robertson,MP</i> . "Environmental limits to the distribution of <i>Scaevola plumieri</i> along the South African coast". <i>Journal of Vegetation Science</i> . 2003. 14,89-98.	0.33		
Villet,MH			
Harvey,ML, Mansell,MW, <i>Villet,MH</i> and Dadour,IR. "Molecular identification of some forensically important blowflies of southern Africa and Australia". <i>Medical and Veterinary Entomology</i> . 2003. 17,363-369.	0.25		
<i>Kelly,CMR, Barker,NP</i> and <i>Villet,MH</i> . "Phylogenetics of advanced snakes (Caenophidia) based on four mitochondrial genes". <i>Systematic Biology</i> . 2003. 52,439-459.	0.67		
<i>Mkize,N, Villet,MH</i> and <i>Robertson,MP</i> . "IsiXhosa insect names from the Eastern Cape, South Africa". <i>African Entomology</i> . 2003. 11(2),261-276.	1.00		
Mosiane,SM, Kfir,R and <i>Villet,MH</i> . "Seasonal phenology of the diamondback moth, <i>Plutella xylostella</i> (L.), (Lepidoptera: Plutellidae), and its parasitoids on canola, <i>Brassica napus</i> (L.), in Gauteng province, South Africa". <i>African Entomology</i> . 2003. 11(2),277-285.	0.34		
Perissinotto,R, <i>Villet,MH</i> and Stobbia,P. "Revision of the genus <i>Xiphoscelis Burmeister</i> 1842 (Coleoptera: Scarabaeidae Cetoniinae), with description of two new species and notes on its phylogeny and ecology". <i>Tropical Zoology</i> . 2003. 16,63-82.	0.34		
<i>Robertson,MP, Villet,MH, Fairbanks,DHK, Henderson,L, Higgins,SI, Hoffman,JH, Le Maitre,DC, Palmer,AR, Riggs,I, Shackleton,CM</i> and Zimmerman,HG. "A proposed prioritisation system for the management of weeds in South Africa". <i>South African Journal of Science</i> . 2003. 99,37-43.	0.18		
Sanborn,AF, Phillips,PK and <i>Villet,MH</i> . "Analysis of the calling songs of <i>Platypleura hirtipennis</i> (Germar, 1834) and <i>P. plumosa</i> (Germar, 1834) (Hemiptera: Cicadidae)". <i>African Entomology</i> . 2003. 11(2),291-296.	0.34		
Sanborn,AF, Phillips,PK and <i>Villet,MH</i> . "Thermal responses in some Eastern Cape cicadas". <i>Journal of Thermal Biology</i> . 2003. 28,347-351.	0.34		
Sanborn,AF, <i>Villet,MH</i> and Phillips,PK. "Hot-blooded singers: Endothermy facilitates crepuscular signaling in African platypleurine cicadas (Hemiptera: Cicadidae: Platypleura spp.)". <i>Naturwissenschaften</i> . 2003. 90,305-308.	0.34		
<i>Villet,MH, Sanborn,AF</i> and Phillips,PK. "Endothermy and chorusing behaviour in the African platypleurine cicada <i>Pyna semiclara</i> (Germar, 1834) (Hemiptera: Cicadidae)". <i>Canadian Journal of Zoology</i> . 2003. 81,1437-1444.	0.34		
TOTAL FOR ZOOLOGY AND ENTOMOLOGY	22.02		
TOTAL IN PRESS	0.00		
TOTAL NON SAPSE	0.00		