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PREFACE

It is very important that research is encouraged and flourishes at a University. Lecturers who are active researchers and are at the cutting edge of their disciplines are better teachers. There is a high correlation between researchers who receive awards for their research and those who are recognised as excellent teachers. Active researchers attract Master’s and Doctoral students to study under their supervision, and on graduating provide the intellectual capital for a country to be competitive in the knowledge age. Research also attracts scholars from other institutions, the development of exchange schemes and national and international research collaboration. It also enhances community involvement in that this involvement should grow out of teaching and research and feed back into teaching and research.

It is gratifying that in a national climate of decreasing research outputs that Rhodes’ research outputs are not declining and are actually increasing. I would like to congratulate and thank active staff, researchers and postgraduates for their contribution to the research effort of the University.

DR. D.R. WOODS
VICE-CHANCELLOR
INTRODUCTION

Rhodes University has had another successful year in terms of research activities and outputs in what has been an exciting Centenary year and I would like to add my congratulations and thanks to those of the Vice-Chancellor to all staff and postgraduate students for their research efforts in 2004.

This report documents the research highlights and outputs in its many forms during 2004. Research which is not disseminated in this manner is wasted and I would like to encourage all staff and students to continue to publish their research in the most appropriate way. I would particularly like to stress the importance of publishing research findings in subsidy earning journals and of converting conference papers into journal articles where possible. Outputs in accredited journals are one of the principle means by which the University earns research subsidy and increasing the subsidy earned in this way will directly benefit internally funded research activities. In terms of journal publications 2004 has been a very good year with the audited but still to be awarded journal units increasing to 202 units from 165 awarded in 2003. I am confident that this is a sustainable trend and it is particularly encouraging in the context of a national trend of declining research outputs. A particularly successful publication was the special edition of the SA Journal of Science which was dedicated to the Rhodes University Centenary. I would like to thank all of those staff and students who submitted articles for publication in this edition and Professor Barker for initiating and co-ordinating this publication.

An aspect of research outputs which remains a serious concern is the continued poor recognition by the Department of Education of publications in the form of books, chapters, refereed conference proceedings and patents. Not only are a small fraction of these outputs accepted for subsidy purposes but to date no feedback has been given in terms of which books, chapters, etc have in fact been subsidised or why the majority of submissions are not accepted. The Department of Education has, however, indicated that such feedback will be forthcoming from 2005.

A further, and possibly even more problematic, aspect of recognition of research outputs (and NRF rating) is the inability to assess outputs in the Performing and Visual Arts. Attempts have been made to address this issue at a national level but no solution appears to be likely in the near future.

A concerted and unified national approach to addressing the issue of recognition of research outputs other than articles in accredited journals is urgently needed at the highest level if the research efforts in many disciplines are not to be undermined.

My thanks once again to all staff and students for their continued commitment to research.

PROFESSOR J.R. DUNCAN
DEAN OF RESEARCH
2004 has been a year of many changes with the most significant being the loss of our East London campus which has impacted on certain fields of research. The implementation by the Department of Education of the new funding formula has placed more emphasis on the importance of research with the redefining of a research output which now takes into account subsidisable publications and graduated Master’s and PhD students. Previously, Rhodes University received a block grant for research plus publication subsidy which together amounted to approximately 16% of the total Rhodes University Government subsidy. In the new funding formula the proportion granted for research outputs has more than doubled. The result is a significant pressure to increase research outputs. Currently comparisons by various analysts continue to show that we are one of South Africa’s most productive universities and are the leading research institution in the Eastern Cape.

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 postgraduates have excelled with their research achievements during 2004. The most notable have been:

• The recipients of the Vice-Chancellor Awards for research and books were: Distinguished Senior Research Award: Professor Vivian de Klerk (English Language & Linguistics) and the Book Award: Dr Tom Martin (Philosophy) for his book entitled Oppression and the Human Condition: An Introduction to Sartrean Existentialism. The Distinguished Research Award was not awarded this year.

• Professor Tebello Nyokong (Chemistry) won the Shoprite Checkers/SABC 2 Woman of the Year award in the Science and Technology category.

• Professor Jay O’Keeffe, (Institute for Water Research) was awarded the Gold Medal of the Southern African Society of Aquatic Scientists.

• Professor Pat Scott (Human Kinetics & Ergonomics) was awarded the IEA Fellow, the highest and most prestigious award of the International Ergonomics Association (IEA).

• The Rhodes University Centre for Distributed Multimedia, headed by Professor Peter Clayton (Computer Science) together with the University of Fort Hare, was awarded the national THRIP collaboration award. The joint recipients were Dr Alfredo Terzoli of Rhodes University and Professor Hippolyte Muyingi, University of Fort Hare.

• Sam Naidu (English) received an Associated Commonwealth University (ACU) Split-Site Doctoral Fellowship tenable at the School of Oriental and African Studies, London University, and Justin Lupele (Education) received the ACU Commonwealth Scholarship tenable at Manchester Metropolitan University.
Three scientists, Dr Lee-Anne McKinnell (Physics & Electronics), Dr Ané Oosthuizen (Ichthyology & Fisheries Science) and Dr Susanne Vetter (Botany), were nominated for the L’Oreal-UNESCO South Africa Women in Science Awards.

Dr Brett Pletschke (Biochemistry, Microbiology & Biotechnology) was recognised by the American Water Works Research Foundation through their Emerging Technologies XI project for his innovative research. The Water Research Commission selected Pletschke’s research as one of South Africa’s top 10 Emerging Technology Projects.

Professor George Euvrard’s (Education) educational and training project “Ready for Business” was recognised by the American Chamber of Commerce by winning gold in the Education and Training category. The project went on to win the overall Star of Stars Award for best Corporate Social Investment Programme run by a company with US links in South Africa.

Professor Vivian de Klerk (English Language & Linguistics) was elected onto the Council of the Academy of Science of South Africa.

Professors John Duncan (Dean of Research) and Peter Vale (Political & International Studies) were elected as members of the Academy of Science of South Africa.

Professor Peter Vale (Political & International Studies) was awarded the Utrecht University International Medal.

Dr Marc Schaefer (Education) has been appointed the new editor of Pythagoras, the journal of the Association for Mathematics Education of South Africa.

Professor Paul-Henri Bischoff (Political & International Studies) was awarded a place on distinguished Fulbright Scholar Programme at the Walker Institute of International Affairs at the University of South Carolina.

Dr Jo Burgess (Biochemistry, Microbiology and Biotechnology) received the Messel Trust Award by the Society for Chemical Industry.

Michael Akomaye Yanou (Law) was one of five scholars appointed as a visiting fellow at the Centre for African Studies at Cambridge University.

Amanda Ellis (Zoology & Entomology) was awarded the S2A3 Bronze Medal for the top science Master’s degree by thesis.

Carla Niermann (History) received the prestigious Patrick and Margaret Flanagan Scholarship.

Seth Cumming (Philosophy) received the Abe Bailey Travel Bursary.

The University continues to actively promote innovation and entrepreneurship in its research activities. The Centre for Entrepreneurship successfully participated in the National Innovation Fund Competition with seven business plans submitted from postgraduate and undergraduate students. The first prize of R50 000 was awarded to Jason Penton, Jonathan Hitchcock (both Computer Science) and Sonwabile Nomnganga (Fort Hare) for a business plan entitled “iLanga: A Next-
Generation Communication System for Small and Medium Enterprise”; second prize of R30 000 went to Johanna Janse van Rensburg and Jonathan Leigh (Computer Science); and third prize of R20 000 went to Sebastian Reynold (Biochemistry, Microbiology & Biotechnology).

Rhodes researchers and departments continued to receive significant funding from a wide variety of sources for research programmes including over R13 million from National Funding Councils and over R15 million from private and industry sources.

Funding for postgraduate students at all levels has been significantly enhanced by the continued scholarship support schemes funded by Sasol, Atlantic Philanthropies and the Andrew Mellon Foundation. As a result the University has been able to award a number of prestigious scholarships from its own funding schemes to Honours, Master’s, Doctoral and Postdoctoral students to a total value of approximately R6 million.

The Postgraduate Liaison Committee (PGLC), which is a sub-committee of the Joint Research Committee liaising directly with the Dean of Research, has had a productive year. With Matthew Charlesworth in the chair, the PGLC has organised a number of workshops relating to theses writing, supervision, proposal submission, etc which have been beneficial to the Master’s and PhD students who participated. Postgraduate students from a number of departments excelled at both local and international conferences in being awarded best student awards for both paper and poster presentations.

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

PROFESSOR J.R. DUNCAN
DEAN OF RESEARCH
ACADEMIC DEVELOPMENT CENTRE

ADC research interests lie in the development of academic staff as professional educators in the higher education sector and in students’ engagement with the teaching and learning environment.

In June Chrissie Boughey presented a paper at an international conference held in Havana, Cuba while Lynn Quinn, Jo-Anne Vorster and Kevin Williams all presented at conferences here in South Africa.

2004 saw the first ADC graduates. Eight Postgraduate Diplomas in Higher Education were awarded at the Education Faculty graduation ceremony along with one Master’s and one Doctoral degree. ADC staff members continue to offer the PGDHE, an Honours level qualification, and to supervise at Master’s and Doctoral levels.

PROFESSOR C. BOUGHEY
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Quinn,L  Quinn,L. "Reflections on a theoretical framework for a professional development course for lecturers at a South African university”. International Journal of Academic Development. 2004. 8(1&2),61-75.


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

i. Local Conferences (Within South Africa)


Quinn,L  Quinn,L. "Leave us in peace to research and teach our chosen topics: An analysis of lecturers' attitudes to professional development courses for teaching in higher education". South African Academic Development Association. Port Elizabeth Technikon , Port Elizabeth. December 2004.

Williams, K
Williams, K. "Enabling pharmacy students' epistemological access to patients' experiences of chronic illness and medicine taking behaviour". Reinventing the University. Rhodes University, Grahamstown. December 2004.

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

ii. International Conferences (Outside South Africa)

Boughey, C

DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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8
ACCOUNTING

The research profile of the Department of Accounting continued to grow in 2004. The introduction of a course in research methodology and design as well as two new research based postgraduate programs turned out to be extremely successful and bodes well for the future.

The following is a list of highlights for 2004:

1. Staff achievements

   ▪ Lilla Stack has been appointed as Extraordinary Professor at the University of Pretoria and will be acting as supervisor to their doctoral students. Lilla was also responsible for the successful introduction of the course in research methodology and design and the two new research based postgraduate courses in the department. She continues to serve as a member of the Special Consumer Court and also sits on the Advisory Board to the Financial Services Board and the Audit and Finance Committee of the Water Research Commission.

   ▪ Mark Bunting is currently working on the research component of his Master’s in Financial Markets and successfully presented a paper at the international conference of the S AAA/IAAER in June. Mark also successfully published the 2004 edition of his textbook on financial reporting in South Africa. He continues to consult 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. He continues to write a weekly column for the Business Times. Matthew presents the annual income tax update offered by the South African Institute of Chartered Accountants.

   ▪ Jonathan Lancaster co-authored an article published in Meditari and has another awaiting review with the same journal. He also had an article published in Accountancy SA, the accounting journal of the profession in South Africa.

   ▪ The department hosted Dr. Sheila Killian from the University of Limerick as a visiting lecturer in 2004. Sheila presented a paper at the international conference of the SAAA/IAAER in June. She has also had two articles accepted for publication.

   ▪ Candice Mullins presented the preliminary findings of her Master’s research into the administration of a land tax in South Africa to a meeting of the regional farming community.

   ▪ Richard Poole is presently working on his Master’s thesis looking at taxation issues in mining in South Africa.

   ▪ Lilla Stack, Mark Bunting, Kevin Maree and Candice Mullins were all appointed to the East Cape regional committee of the SAAA. These members will be involved in arranging the SAAA regional conference to be held in 2005.

   ▪ Nine members of the department attended the SAAA/IAAER international conference held in Durban.

2. Postgraduate students

   ▪ Registrations for 2005 include:

       | Course                  | 2005 |
       |-------------------------|------|
       | PhD                     | 1    |
       | Master’s in Taxation    | 15   |

   ▪ Postgraduate students graduating in 2005 include:

       | Course                        | 2005 |
       |--------------------------------|------|
       | Master’s in Taxation           | 1    |
       | Postgraduate Diploma in Accounting | 29   |
       | Postgraduate Diploma in Taxation | 4    |
       | BCom Honours in Financial Accounting | 2    |
       | BCom Honours in Financial Management | 4    |

PROFESSOR K. MAREE
HEAD OF DEPARTMENT
OTHER PUBLICATIONS

Killian,S

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

i. Local Conferences (Within South Africa)

Bunting,M

Killian,S

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

ii. International Conferences (Outside South Africa)

Killian,S

JOURNAL SUBSIDY UNITS

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ANTHROPOLOGY

This has been a year of inputs more than outputs: Professor Chris de Wet and Dr Rose Boswell each have books accepted (coincidentally) by Berghan Press, Oxford, but only due to be published in 2005. De Wet also has a chapter for a book accepted by Kyoto University Press for 2005. Otherwise, de Wet and Boswell have concentrated on conference papers. Professor Robin Palmer who took over from De Wet as Head of Department at mid-year, had chapters commissioned for an interdisciplinary reference volume on minority entrepreneurs around the world and for a proposed book on land reform by Wisconsin University Press, both only due in 2005; his only research output for 2004, besides a conference paper, is a co-authored output on a Mellon-financed follow-up project at Dwesa-Cwebe on the Wild Coast published by the ISER. However, Mrs Penny Bernard has had two chapters in books published in 2004, and three contributions accepted by the forthcoming Encyclopaedia of Religion and nature. Dr Aleksandar Bošković had a paper published in a book overseas; several entries published in a major international encyclopaedia, has had a paper accepted for Anthropology Today, and has refereed papers for several other international journals, besides participation in international conferences (see below). Ms Joy Owen has a chapter accepted for a book on the social sciences in South Africa since 1994. Emeritus Professor Michael Whisson published a book, a chapter and read a paper the annual conference of Southern African anthropologists (see below).

While we had no visitors to the Department in 2004, it was a year of staff travel: De Wet spent the second semester as Nelson Mandela Professor of African Studies at Jawaharlal Nehru University at New Delhi in India, where he also co-organised a conference on Indo-African Relations; Bošković convened a two-day workshop at the European Association of Social Anthropology conference in Vienna and gave a paper at the Association of Social Anthropologists conference in Durham (UK). Boswell, who was on sabbatical in the first half of 2004, undertook fieldwork in Mauritius and Zanzibar. Owen went to Ethiopia to receive a US$5 000 research grant and to the Human Movements and Immigration World Congress in Barcelona (Spain). Bernard undertook field trips to Zimbabwe as well as KwaZulu-Natal. Our postgraduates have also had a chance to attend a conference: Six postgraduate students were included with the four staff who attended the annual conference of Anthropology Southern Africa at Bloemfontein, all 10 presenting papers.

Among our thesis students, Bernard has made good progress in the writing-up her Ph.D. dissertation on water spirits and their role in the ‘calling’ of traditional healers during her sabbatical in the first half of the year and Owen completed her first six months ‘in the field’ among Congolese migrants in Cape Town. In addition, three non-staff Ph.D.s continue (with one about to submit); three MA students submitted dissertations in January and are likely to graduate in 2005; three MA students continue in 2005; and we have had three new MA candidates accepted and one who has just applied. That’s a total of 15 ‘on the books’ in 2005.

PROFESSOR R. PALMER
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Bernard,PS

Boskovic,A


Whisson, MG


OTHER PUBLICATIONS

Bernard, PS


Boskovic, A

Boswell, MJR

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

i. Local Conferences (Within South Africa)

Boskovic, A

Boswell, MJR
Boswell, MJR. "Island Style: Taarab and Sega as Sources of Resistance, Meaning and Heritage in the Indian Ocean Region". 18th Symposium of Ethnomusicology. ILAM (Rhodes University), Grahamstown. October 2004. 1-17.


Palmer, RCG

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

ii. International Conferences (Outside South Africa)

Boskovic, A


de Wet, CJ


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Boswell, MJR

OVERSEAS RESEARCH OR FURTHER STUDY

Boskovic, A


Boswell, MJR


de Wet, CJ
de Wet, CJ. Jawaharlal Nehru University, New Delhi, India. Postdoctoral research and Course. July-December 2004.

JOURNAL SUBSIDY UNITS

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The past year saw an increase in the international activity of the department with a number of research visits and exchanges taking place. Dr Pletschke made a collaborative research visit to the University of Jyvaskyla in Finland, and Dr Bradley to Semmelweis University, Hungary. Professor Whiteley spent sabbatical time at the National University of Taiwan in Taipei as a visiting scientist, during which he presented seminars at National Chiao Tung University and Nanyang Technical University. Professor Dorrington was awarded a Fulbright scholarship to carry out research during her sabbatical at the University of Alabama at Birmingham, and also gave invited research lectures at The Scripps Institute and the University of Oregon.

Professor Greg Blatch has been making the most of his Wellcome Trust International Senior Research Fellowship, was the recipient of an Ernest Oppenheimer Memorial Trust Sabbatical award, and spent a productive six months hosted by his collaborators, Dr Mike Cheetham (UCL, UK) and Professor Richard Zimmermann (Universität des Saalanderes, Germany). During this time he was also hosted for seminars by Professor Bernd Bukau (University of Heidelberg, Germany), and Professor Jörg Höhfeld (University of Bonn, Germany). Professor Blatch also became president of the South African Society of Biochemistry and Molecular Biology, with Dr Bradley and Miss Gentz from the department serving on the committee.

The departmental outputs have been suppressed slightly owing to intellectual property constraints for Professor Rose, Dr Pletschke and Dr Burgess, but still consisted of twenty-eight peer-reviewed articles in journals with an average article impact factor of 1.554 and average journal impact factor of 2.04. Two of the articles appeared in journals in the list of top 200 science journals in the world (Bioessays, impact factor 8.314 and Journal of Cell Science, 6.213). There were a number of additional contributions at national and international conferences, fourteen of which resulted in peer-reviewed published proceedings. Conference presentations took staff and students to Greece (Dr Limson), Australia (Professor Blatch, Dr Burgess), India (Professor Blatch), Switzerland (Professor Blatch), the USA (Professor Dorrington) and Singapore (Professor Whiteley). Dr Burgess’ paper on sensor technology for control of wastewater treatment processes was invited for presentation as a keynote address at the European Symposium on Environmental Biotechnology in Belgium. Dr Dames organised and ran a two day Mycorrhizal Symposium in Grahamstown in collaboration with Prof. Finlay, Dr Taylor and Dr Paul from the Swedish Agricultural University.

One of the key outputs of a current research study by Dr Pletschke was the design of a suitable bioprobe strip for the rapid detection of faecal contamination, which was recognized by the American Water Works Research Foundation and Water Research Commission as one of the ten emerging technologies currently under development in South Africa. The Environmental Biotechnology Research Unit continues to go from strength to strength under the leadership of Professor Rose, whose Rhodes BioSURE process was commissioned at full scale for the first time and will be launched amid much well-deserved media attention early in 2005.

PROFESSOR R. DORRINGTON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Burgess,JE and Pletschke, BI


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Blatch, GL


Boshoff, A and Blatch, GL


Boshoff, A, Nicoll, WS, Bradley, G and Blatch, GL

Burgess, JE and Duncan, JR

Burgess, JE, Antunes, APM, Whiteley, CG and Duncan, JR

Clarke, AM and Rose, PD

Dames, JF

Daniel, S

Dorrington, RA


Dorrington, RA and Blatch, GL

Duncan, JR and Rose, PD

**Goyvaerts,EMA**

**Jiwaji,M**

**Leukes,WD**


**Limson,JL** and Blatch,GL

**Pletschke,Bl and Leukes,WD**

**Rose,PD**

**Whiteley,CG, Pletschke,Bl, Rose,PD and Whittington-Jones,K**

**Whiteley,CG, Rose,PD and Pletschke,Bl**

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

**Wilhelmi,BS**

OTHER PUBLICATIONS

Whiteley, CG, Pletschke, BI, Burgess, JE, Whittington-Jones, K and Rose, PD

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

i. Local Conferences (Within South Africa)

Blatch, GL

Burgess, JE and Duncan, JR


Dames, JF
Hawley, GI and Dames, JF. "Characterisation and identification of ectomycorrhizal roots". South African Microbiology Society Congress. Stellenbosch University, Stellenbosch. April 2004. 134.

Limson, JL

Pletschke, BI and Whiteley, CG

Rose, PD


Whittington-Jones, KJ and Rose, PD
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES
(PROCEEDINGS, BOOKLETS and ATTENDANCE)

ii. International Conferences (Outside South Africa)

Blatch, GL


Blatch, GL and Bradley, G

Burgess, JE


Limson, JL and Burgess, JE

Rose, PD

Whiteley, CG, Burgess, JE and Pletschke, BI

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Burgess, JE
Dames, JF


OVERSEAS RESEARCH OR FURTHER STUDY

Blatch, GL

Blatch, GL. Department of Pathology, Institute of Ophthalmology, University College London, UK. Sabbatical Research with collaborator Dr ME Cheetham. 17 May - 6 August 2004.

Blatch, GL. Department of Medical Biochemistry, Universitüt des Saarlandes, Germany. Sabbatical Research with collaborator Professor R Zimmermann. 9 August - 26 October 2004.

Bradley, G

Bradley, G. Semmelweis University, Budapest, Hungary. Visiting scientist. 3 - 17 July 2004.

Pletschke, BI


Whiteley, CG

Whiteley, CG. National University Taipei, Tai Pei, Taiwan. Visiting scientist. 1 February - 30 April 2004.

DISTINGUISHED VISITORS


Dr B Oppert. ARS Grain Marketing and Production Research Center, Manhattan, Kansas, USA. Collaborative research and seminars. July 2004.


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<td>Edkins, AL, Ludewig, MH and Blatch, GL. &quot;A Trypanosoma cruzi heat shock protein 40 is able to stimulate the adenosine triphosphate hydrolysis activity of heat shock protein 70 and can substitute for a yeast heat shock protein 40&quot;. International Journal of Biochemistry and Cell Biology. 2004. 36, 1585-1598.</td>
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<td>Longshaw, VM, Chapple, JP, Balda, M, Cheetham, ME and Blatch, GL. &quot;Nuclear translocation of the Hsp70/Hsp90 organizing protein mSTI1 is regulated by cell cycle kinases&quot;. Journal of Cell Science. 2004. 117, 701-710.</td>
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<td>Odunuga, OO, Longshaw, VM and Blatch, GL. &quot;Hop: More than an Hsp70/Hsp90 adaptor protein&quot;. Bioessays.</td>
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Boshoff, A and Blatch, GL


Boshoff, A, Nicoll, WS, Bradley, G and Blatch, GL


Burgess, JE and Duncan, JR


Burgess, JE, Antunes, APM, Whiteley, CG and Duncan, JR


Clarke, AM and Rose, PD


Dames, JF


Dorrington, RA


Dorrington, RA and Blatch, GL


Duncan, JR and Rose, PD


Goyvaerts, EMA


Jiwaji, M


Leukes, WD


Limson, JL and Blatch, GL

Limson, JL, Odunuga, OO, Green, H, Höök, F and Blatch, GL. "The use of Quartz Crystal Microbalance with Dissipation for the measurement of protein-protein interactions: A qualitative and quantitative analysis of the
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<td>South African Journal of Science</td>
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<td>Jordaan, J, Pletschke, BI and Leukes, WD</td>
<td>Purification and partial characterization of a thermostable laccase from an unidentified basidiomycete</td>
<td>Enzyme and Microbial Technology</td>
<td>2004</td>
<td>34,635-641</td>
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<td>Rose, PD</td>
<td>Development of the floating sulphur biofilm reactor for sulphide oxidation in biological water treatment systems</td>
<td>Water SA</td>
<td>2004</td>
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<td>Whiteley, CG, Pletschke, BI, Rose, PD and Whittington-Jones, K</td>
<td>Activation of proteases in an anaerobic sulphidogenic bioreactor</td>
<td>Biotechnology Letters</td>
<td>2004</td>
<td>26(1),55-59</td>
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<td>Whiteley, CG, Rose, PD and Pletschke, BI</td>
<td>Primary sludge floc degradation is accelerated under biosulphidogenic conditions: Enzymological aspects</td>
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<td>2004</td>
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<td>Whittington-Jones, K and Rose, PD</td>
<td>An investigation into the mechanism underlying enhanced hydrolysis of complex carbon in a biosulphidogenic recycling sludge bed reactor (RSBR)</td>
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**TOTAL FOR BIOCHEMISTRY MICROBIOLOGY & BIOTECHNOLOGY** | 18.63 |
BOTANY

In 2004 staff and students published or have in press 6 book chapters, 17 journal papers and 11 popular articles. Staff and students presented at 7 papers at international and 13 papers at local conferences. Two staff proceeded overseas on research and the Department received several international visitors. Staff members made successful funding applications to the NRF and international funding organisations and this is anticipated to simulate research in 2005. In 2005 the Department will have 3 Honours, 9 MSc, 5 PhD and 4 post-doctoral students.

Individual staff members achievements include:

**Professor CEJ Botha:** Ted maintained international links and established a new collaboration with Professor Lisbeth Jonsson of Södertörn University, Sweden on a programme jointly funded by the Swedish Government and the NRF. He attended the 4th International Plasmodesmal Biology Conference in California delivering a plenary lecture and with his students continued with research in the NRF Unlocking the Future Programme.

**Professor RA Lubke:** Roy continued research on the coastal environment with an MSc being successfully completed and the joint publication of three journal articles. His research on the Brenton-Blue butterfly at Nature’s Valley has produced evidence that the butterfly may return. He has continued with rehabilitation studies at Coega and on a SANPAD (South Africa-Netherlands Research Programme on Alternatives in Development) project investigating the cultivation of medicinal plants.

**Professor NP Barker:** Nigel acted as opponent in a PhD thesis defence at Uppsala, Sweden and presented guest lectures at Uppsala and Stockholm Universities. He co-ordinated scientific submissions for the Rhodes University centenary issue of SAJS and received NRF funding for two major research programmes on plant systematics and biogeography, and the phylogeography of marine organisms. Nigel raised, through the Mellon Foundation-African Plants Initiative, much need funding for the Schonland herbarium.

**Dr BS Ripley:** Brad continued to develop research collaboration on the evolution and competitive advantage of C₄ photosynthesis with colleagues from Sheffield University, successfully obtaining NRF funding and attracting further postgraduate students. Brad and his student’s continued with collaborative research on the ecophysiology of coastal dune and medicinal plants.

**Dr S Vetter:** Susi published research from her PhD and presented at the Congress of the Grassland Society of Southern Africa. Susi and collaborators have developed a research programme on the ecology of rare and threatened plant species which has attracted two postgraduate students.

**Mr CI Peter:** Craig continued work on the pollination biology of the genus *Eulophia*, and other plants, publishing results and attracting a postgraduate student. Craig’s research is primarily field based and he has been working throughout the eastern parts of South Africa and on the Swedish island of Öland in the Baltic.

**Mr AP Dold:** Tony was promoted to the position of Herbarium Curator, described two new species of plants and contributed to taxonomic and plant utilisation research publishing book, journal and popular articles. Tony continued to collaborate with researcher from ISER and SANBI (Threatened spes programme).

DR. B. RIPLEY
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Dold, AP


Lubke, RA


Ripley, BS

Vetter, S

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barker, NP


Botha, CEJ


Dold, AP

Knevel, IC, Lans, T and Hertling, UM

Lubke, R and Brink, E

Lubke, RA
*Lubke, RA*. "Reproductive phenology of *Scaevola plumieri*; a key coloniser of the coastal foredunes of South Africa". *Plant Ecology*. 2004. 175,137-145.

Peter, CI
*Johnson, SD, Neal, PR, Peter, CI* and *Edwards, TJ*. "Fruiting failure and limited recruitment in remnant populations of the hawkmoth-pollinated tree *Oxyanthus pyriformis* subsp *pyriformis* (Rubiaceae)". *Biological Conservation*. 2004. 120,31-39.


Peter, CI, Dold, AP, Barker, NP and Ripley, BS

Ripley, BS
*Ripley, BS* and Pammenter, NW. "Do low standing biomass and leaf area index of sub-tropical coastal dunes ensure that plants have an adequate supply of water?". *Oecologia*. 2004. 139,535-544.

Ripley, BS and Dames, J

Vetter, S

**OTHER PUBLICATIONS**

Dold, AP


Dold, AP and Brink, E

Dold, AP


Lubke, RA


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

i. Local Conferences (Within South Africa)

Barker, N P

Botha, C E J


Dold, A P

Dold, A P and Lubke, R A
Lubke, RA

Ripley, BS


Vetter, S


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

ii. International Conferences (Outside South Africa)

Barker, NP

Linder, HP and Barker, NP. "From Nees to now changing questions in the systematics of the grass subfamily Danthonioideae". Leopoldina meeting: "From Plant Taxonomy to Evolutionary Biology". Halle. Germany. June 2004.


Botha, CEJ and Liu, L

Dold, AP

Lubke, RA
CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Dold, AP


OVERSEAS RESEARCH OR FURTHER STUDY

Barker, NP
Barker, NP. Institute for Systematic Botany, Zurich, Switzerland. 10 November 2004 - 8 February 2005.

Peter, CI

JOURNAL SUBSIDY UNITS

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<td>Barker, NP, Muller, EM and Mill, RR. &quot;A Yellowwood by any other name: Molecular systematics and the taxonomy of Podocarpus and the Podocarpaceae in Southern Africa&quot;. South African Journal of Science. 2004, 100,629-632.</td>
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<td>Barker, NP, Vanderpoorten, A, Morton, CM and Rourke, JP. &quot;Phylogeny, biogeography, and the evolution of life-history traits in Leucadendron (Proteaceae)&quot;. Molecular Phylogenetics and Evolution. 2004, 33,845-860.</td>
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<td>Ade-Ademilua, OE and Botha, CEJ. &quot;The effects of elevated CO₂ and nitrogen availability supersedes the need for nodulation in peas grown under controlled environmental conditions&quot;. South African Journal of Botany. 2004, 70(5),816-823.</td>
<td>1.00</td>
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<td>Botha, CEJ and Matsiliza, B. &quot;Reduction in transport in wheat (Triticum aestivum) is caused by sustained phloem feeding by the Russian wheat aphid Diuraphis noxia&quot;. South African Journal of Botany. 2004, 70,249-254.</td>
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<td>Dold, AP and Brink, E. &quot;Drimia chalumnensis (Hyacinthaceae - Urgineoideae) a new species from Eastern Cape South Africa&quot;. South African Journal of Botany. 2004, 70(4),631-634.</td>
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<td>Lubke, R and Brink, E. &quot;One hundred years of botany at Rhodes University&quot;. South African Journal of Science. 2004. 100,609-614.</td>
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<td>Lubke, RA</td>
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<td>Lubke, RA. &quot;Reproductive phenology of Scaevola plumieri; a key coloniser of the coastal</td>
<td>1.00</td>
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Peter, CI, Dold, AP, Barker, NP and Ripley, BS

Ripley, BS
- *Do low standing biomass and leaf area index of sub-tropical coastal dunes ensure that plants have an adequate supply of water?*. *Oecologia*. 2004. 139,535-544.

Ripley, BS and Pammenter, NW

TOTAL FOR BOTANY 9.69
CHEMISTRY

The highlight of 2004 for the Chemistry Department was the award of both the Vice Chancellor’s Senior Research Award and the SABC2 Shoprite-Checkers Woman of the Year Award (Science and Technology) to Professor Tebello Nyokong whose research on the development of photosensitizers for photodynamic cancer therapy has received considerable attention. The postgraduate research programme in the Department continues to attract international students from the African continent, including; Lesotho, Nigeria and Zimbabwe, and as far afield as New Zealand and China. A total of 2 post-doctoral research fellows, 17 PhD, 8 MSc and 6 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 nuclear magnetic resonance (NMR) data processing programme (MestreC) was jointly developed with the Department of Chemistry at the University of Santiago de Compostela (USC) in Spain and has greatly enhanced NMR research capacity within the Department. Staff and post-graduate students presented their research results at international conferences in the United States, England, France, Italy, Sardinia, Spain and Greece. The Department of Chemistry and the student Chemistry Society continue to be actively involved in local schools, the Albany Museum’s Khanya Maths and Science Club and elsewhere in the community.

PROFESSOR P. KAYE
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Antunes, EM and Davies-Coleman, MT


Brown, ME


Brown, ME, Eve, DJ, Kaye, PT, Rivett, DEA and Watkins, GM


Davies-Coleman, MT


Kaye, PT


Kaye, PT and Musa, MA. "Regioselectivity of Reactions of Nitrogen and Carbon Nucleophiles with Coumarin Derivatives". Synthetic Communications. 2004. 34(18),3409-3417.

Keyzers, RA and Davies-Coleman, MT


Nyokong, T


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

i. Local Conferences (Within South Africa)

Davies-Coleman, MT


Nykong, T


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

ii. International Conferences (Outside South Africa)

Brown, ME


Davies-Coleman, MT


Kaye, PT, Beukes, E and Davies-Coleman, MT


Maree, DM


Nykong, T


**DISTINGUISHED VISITORS**


**JOURNAL SUBSIDY UNITS**

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<td>Brown, ME, Eve, DJ, Kaye, PT, Rivett, DEA and Watkins, GM. &quot;100 Years of Chemistry at Rhodes University&quot;. <em>South African Journal of Science</em>. 2004. 100,530-538.</td>
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<td>Davies-Coleman, MT and Beukes, DR</td>
<td>&quot;Ten years of marine natural products research at Rhodes University&quot;</td>
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<td>Kaye, PT and Musa, MA</td>
<td>&quot;Regioselectivity of Reactions of Nitrogen and Carbon Nucleophiles with Coumarin Derivatives&quot;</td>
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<td>Kaye, PT, Samaai, T and Davies-Coleman, MT</td>
<td>&quot;A New Species of Strongylodesma Levi, 1969 (Porifera; Demospon Poecilosclerida; Latrunculidae) from Aliwal Shoal on the east coast of South Africa&quot;</td>
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<td>Samaai, T, Keyzers, RA and Davies-Coleman, MT</td>
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<td>Nyokong, T and Isago, H</td>
<td>&quot;The renaissance in optical spectroscopy of phthalocyanines and other tetra azaporphyrins&quot;</td>
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<td>&quot;Electrochemical and catalytic properties of chromium tetraaminophthalocyanine&quot;</td>
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<td>Ozoemena, KI, Stephan, R and Nyokong, T</td>
<td>&quot;Determination of 2',3'-dideoxyinosine using iron(II) phthalocyanine modified carbon paste electrode&quot;</td>
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COMPUTER SCIENCE

The primary research project in Computer Science continues to be the Centre of Excellence in Distributed Multimedia, funded by Telkom, Business Connexion, Converse, Verso Technologies, and THRIP. Additional funded research awards were received in 2004 from Yamaha in Japan for the joint development of MLAN, from the NRF’s Focus Area Programme, and from Verso Technologies in the form of equipment.

Seven PhD students, nineteen Master’s students, and twenty-two Honours students worked on research in the department in 2004. The numbers of students expected to graduate in April 2004 are: six Master’s, and twenty-one Honours. In 2005, the department expects to register seven PhD students, nineteen Master’s students, and twenty Honours students.

2004 was another good year for research in the Department of Computer Science, with a notable number of achievements by our students. In particular, the first ever award for the best research student in the national Centres of Excellence Programme was presented to Jason Penton, one of our PhD students. In October 2004, two Computer Science postgraduate project commercialization proposals were announced as the first and second prize winners in the regional round of the Innovation Fund competition. First prize went to Jason Penton for a commercialization proposal of his research into Voice over IP (VoIP) softswitching. His team members in the proposal were Jonathan Hitchcock (MSc student) and Sonwabile Nomnganga (from the University of Fort Hare). The second prize went to two Honours students, Jonathan Leigh and Jo Janse van Rensburg, for their proposal to commercialize the use of RFID (Radio Frequency Identification) technology in a national animal tracking system. The winning proposals in the regional competition go forward to the national competition.

During 2004 Converse and Verso Technologies joined Telkom and Business Connexion as sponsors of the Centre of Excellence in Distributed Multimedia. The partnership between the Centre of Excellence and the sister centre at the University of Fort Hare received two national THRIP (Technology and Human Resources for Industry Programme) awards during 2004, one for collaboration in a capacity building research programme, and the other for the best research display at the annual THRIP awards ceremony. In a televised ceremony at the South African Telecommunications, Networks, and Applications Conference in September, Rhodes University signed collaboration agreements with the Graduate School of Telecommunications and Information Technology of the Ethiopian Telecommunications Corporation, and with the University of Namibia, as part of a NEPAD initiative in ICT to strengthen links with the rest of Africa. These collaborations will be funded by Telkom and Business Connexion.

A number of distinguished international guests visited the Department of Computer Science in 2004, including Jun-ichi Fujimori of Yamaha, Japan, Dr. Denis Riordan from Dalhousie University, Canada, Dr. Barry Cornelius, of the University of Durham in the U.K. and Mr. Ian Dore of Airways New Zealand. During the Sasol SciFest, the Department hosted international cybernetics expert Professor Kevin Warwick of Reading University, who was one of the keynote lecturers at the Festival. The Department also hosted a seminar on Computer Graphics in November, with a special emphasis on the involvement of women in this field. This was a part of the ACM SIGGRAPH Computer Graphics Tour of South Africa and included several distinguished visitors including Professor Wolfgang Strasser, Head of the Department of Graphical-Interactive Systems at the Wilhelm Schickard Institute for Computer Science at Tuebingen University, Germany, Dr. Marie-Claude Frasson from INRIA, France, Dr. Katja Buehler, Head of the Medical Visualization Group at VRVis in Vienna, Professor Barb Helfer, Vice President of ACM SIGGRAPH, from the Advanced Computing Center for the Arts and Design (ACCAD) at Ohio State University, and Ms. Colleen Case, SIGGRAPH Director for Education, from Schoolcraft College in Michigan.

On the publication side, 2 papers were published in Journals, 9 at Foreign International conferences, 15 at SATNAC 2004, and 8 at other local conferences. Several internal technical reports and poster presentations were produced.

PROFESSOR G. WELLS
HEAD OF DEPARTMENT
BOOKS/CHAPTERS/MONOGRAPHS

Terry, PD

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Foss, RJ

Wells, GC and Clayton, PG

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

i. Local Conferences (Within South Africa)

Bangay, S

Bangay, S, Lobb, A and Wells, GC

Clayton, PG


Clayton, PG and Wells, GC

Foss, RJ and Klinkradt, B

Foster, G

Foster, G and Clayton, PG


Irwin, B


Terzoli, A


Tsegaye, M

Wentworth, EP and Terzoli, A


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

ii. International Conferences (Outside South Africa)

Brandt, I

Clayton, PG, Wentworth, E. P., Foster, G. and Terzoli, A

Foss, RJ

Terzoli, A

Wells, GC

Wentworth, EP

Wright, M

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Foss, RJ
**Wentworth, EP**


**DISTINGUISHED VISITORS**


**JOURNAL SUBSIDY UNITS**

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<td><em>Wells, GC, Chalmers, AG and Clayton, PG.</em> &quot;Linda implementations in Java for concurrent systems&quot;. <em>Concurrency and Computation Practice and Experience</em>. 2004. 16(10),1005-1022.</td>
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DRAMA

Professional outputs in the theatre industry have been quite outstanding. Professor Andrew Buckland performed *The Well Being* in Canada, New York and Johannesburg. His new work, *Fuse* formed part of the Rhodes Centenary Celebrations at the National Arts Festival. *Fuse* was also presented at the Hilton Arts Festival and the Edinburgh International Arts Festival. It was nominated for the Stage Online Awards for Acting Excellence. A reviewer described *Fuse* as “…a brilliant and sophisticated piece of physical theatre”. Further performances were presented in South Africa at Schools’ Festivals, in Kwa-Zulu Natal and Gauteng. Seasons were also presented at Baxter Theatre (Cape Town) and Market Theatre (Johannesburg).

Professor Reza de Wet’s play *African Gothic* had a successful run in Sydney, Australia during January. Her new play, *Breathing In*, was directed by Marthinus Basson and featured acclaimed South African actress, Antoinette Kellerman. The play was part of the Rhodes Centenary Celebrations and was presented at the National Arts Festival and at the Baxter Theatre, Cape Town.

International connections also featured in the teaching programme. Assistant Professor John Allan and Postgraduate Design Director, Diana Cupsa - both from Tulane University, New Orleans - taught postgraduates and performers of the First Physical Theatre Company. Kenneth Tharp, a Churchill Fellow of 2003, interacted with First Physical on choreographic and performance issues. Professor Gary Gordon taught a visiting group of dancers from the Tel Aviv, Israel who wrote back later describing their “unforgettable” experience and “understanding of a unique style”.

Lecturer Alex Sutherland extended her research investigations into Theatre for Development. She presented research papers at University of Kwa-Zulu Natal (Pietermaritzburg) and Ottawa, Canada. The papers centered on her work with young people of the Eluxolweni Shelter for street children in Grahamstown. She directed a street theatre production for the National Arts Festival – a collaborative venture with the department’s Ubom! Eastern Cape Drama Company. She also directed a theatre-in-education piece for Ubom!. Over 8000 high school learners around South Africa saw this work on the public understanding of biotechnology.

Heike Gehring, new staff member collaborated with a theatre group from the University of Cape Town. They performed *African Sta!r!* as part of the South African Embassy’s *Ten Years of Freedom Celebrations* in Copenhagen, Denmark.

First Physical and Ubom have continued to innovate in theatre forms, creating new works and performing at Arts Festivals and Schools’ Festivals throughout the country. These companies ran extremely successful Skills Programmes on Dance Production and Theatre Production. These programmes – in collaboration with CreateSA and the Provincial Department of Arts and Culture – involved 40 young adults from the Eastern Cape.

Professor Gary Gordon re-constructed *The Unspeakable Story* for First Physical as part of the Rhodes Centenary Celebrations. It was performed at the Graduation Celebrations and at the National Arts Festival. A reviewer described the company as “…one of the most invigorating and inspired dance companies in South Africa”. Professor Gordon performed in *The Unspeakable Story* with colleague Juanita Finestone-Praeg. Adrienne Sichel described them as “…mesmerizing audiences with their matured virtuosity”. Juanita Praeg was commissioned by the Dance Factory to create a work for 12 distinctive South African female dancers. *37 degrees of fear* premiered at the Women in Arts Festival, Johannesburg.

Academic investigations into theatre were promoted through collaboration with Professor Fred Hagemann from the University of Pretoria. A feature of the year was the Honorary PhD awarded to internationally acclaimed actress, Alice Krige who was in the first Honours class of 1975.

PROFESSOR G. GORDON
HEAD OF DEPARTMENT
BOOKS/CHAPTERS/MONOGRAPHS

de Wet, R


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

i. Local Conferences (Within South Africa)

Sutherland, AEM

Tang, A

ii. International Conferences (Outside South Africa)

Sutherland, AEM

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Buckland, A


Gehring,H


Gordon,GE


Praeg,J


Sutherland, AEM


DISTINGUISHED VISITORS


**JOURNAL SUBSIDY UNITS**

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Following the introduction of a new format for Honours students’ research projects in 2002 once again produced excellent results in the form of journal articles. Two publications flowed from this innovation and several more have been submitted for publication. Philip Black, a former Head of Department and Honorary Professor in the Department, was the keynote speaker at the post-graduates conference, which has now become an important fixture on our calendar.

The year was one of the most productive in recent years in research terms. Mr Dinty Mather completed a PhD. Ms Jen Snowball presented two papers at an international Cultural Economics Conference held in Chicago and had three papers published during the year, two of which were joint papers with overseas colleagues. Professor Hugo Nel and Honours student Ms Lekalake; David Fryer and Master’s candidate Patrick Duff; Mr James Juana; and Mr Meshach Aziakpono all had journal articles published.

Mr Simon Hess was awarded the 2004 Founders’ Medal for the best Master’s thesis by the Economic Society of South Africa.

PROFESSOR H. NEL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Aziakpono,M


Fryer,DC

Juana,JS

Nel,H


Snowball,J

OTHER PUBLICATIONS

Antrobus, GG and Snowball, J


Webb, ACM


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

i. Local Conferences (Within South Africa)

Fryer, DC


ii. International Conferences (Outside South Africa)

Aziakpono, M


Snowball, J


DISTINGUISHED VISITORS


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EDUCATION

Our return for 2004 reveals a picture that is generally pleasing, yet it reveals some concerns.

In some respects the profile that emerges is very similar to previous years, with more emphasis on non-accredited publications than on SAPSE approved ones, and healthy conference activity, both in terms of attending and presenting. The return gives the sense of a fairly healthy and robust research climate in the department.

However, closer examination reveals worrying trends that have been developing over the last few years. One of these is the fact that the same few names tend to dominate. This is particularly the case with the EESU staff in this return. It is again exciting to note the excellence of the unit’s research work, particularly in environmental education in the curriculum and in indigenous knowledge. This research is internationally cutting edge, and deserves to be commended. However, ways need to be found to make research a staff-wide concern in the department. With over 120 Master’s students and 42 PhDs, the Department’s post-graduate capacity and input has risen sharply and impressively. What needs to follow suit now is output. Two accredited journals are edited by staff of the Education Department.

It is exciting to note that the Department’s strategic plan for the next 5 years places particular emphasis on research output and publication. A recent deliberation on research in the Department has identified that much research conducted within the Department is smaller scale, localised research, with little broader, systemic impact. This is due partly to a lack of support for broad-based dissemination of research findings, and partly to the primarily localised nature of the research undertaken. The strategic plan thus envisages to seek support to enable programmes that strengthen broader dissemination of our research, as well as strengthen the external impact of the Department’s research.

PROFESSOR H. VAN DER MESCHT & DR. M. SCHÄFER
DEAN AND HEAD OF THE FACULTY

BOOKS/CHAPTERS/MONOGRAPHS

Lotz-Sisitka,HB


Lotz-Sisitka,HB and Irwin,P

O'Donoghue,R

Van Harmelen,U
Wilmot, D

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Babikwa, D

Farrington, K
Farrington, K and Davies, K. "The gentle art of letting the other fellow have your own way. Viewpoints on a media narrative used to promote the proposed 2 toll road". Southern African Journal of Environmental Education. 2004. 21,162-169.

Irwin, P
Fraser, C, Murray, H, Hayward, B and Irwin, P. "The development of the common fraction concept in Grade Three learners". Pythagoras. 2004. 59,26-33.

Lotz-Sisitka, H.B

O'Donoghue, R

Price, L


Schäfer, M

Van der Mescht, H

OTHER PUBLICATIONS

Euvrard, G

Lotz-Sisitka, H.B


Timmermans, I.

Wilmot, D.
Wilmot, D. "Emerging models of Teacher Training: The Case of South Africa". 2004, 13 (eds) International Research in Geographical and Environmental Education. 2. 39. 44.


Wilmot, D and Van Harmelen, U.

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

i. Local Conferences (Within South Africa)

Hodgkinson, C.A.


Kachilonda, D.

Lotz-Sisitka, H.B.


Murray, S

Nhámo, G


Schäfer, M

Smith, C

Southwood, S

Stevens, A


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

ii. International Conferences (Outside South Africa)

Dalvit, L


Euvrard, G

Irwin, P, Lotz-Sisitka, HB and O'Donoghue, R
Lotz-Sisikta,HB and O'Donoghue,R

Nhamo,G


O'Donoghue,R, Timmermans,I and Lotz-Sisitka,HB

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Lotz-Sisika,HB


O'Donoghue,R


Olivitt,L

Schäfer,M

Smith,CO

Stevens,A

Timmermans, I


OVERSEAS RESEARCH OR FURTHER STUDY

Lotz-Sisitika, HB

Lotz-Sisitika, HB. Danish Pedagogical University, Copenhagen, Denmark. 1 - 10 June 2004.

O' Donoghue, R

O' Donoghue, R. Danish Pedagogical University, Copenhagen, Denmark. 1 - 10 June 2004.

O' Donoghue, R. Manchester Metropolitan University, Manchester, UK. 1 September - 15 October 2004.

DISTINGUISHED VISITORS


Professor B Parker. Dean, University of Fort Hare, East London. Address at PhD week programme. October 2004.

JOURNAL SUBSIDY UNITS

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PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cross,RHM

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

ii. International Conferences (Outside South Africa)

Cross,RHM

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ENGLISH

In 2004 the Department enjoyed a full and varied research seminar programme, with both staff and postgraduate students from the English and Philosophy departments participating prominently. Visiting speakers included the renowned South African author Stephen Gray, and Dr Robin Visel from Furman University, South Carolina, who has created a framework for future faculty exchange between Rhodes and Furman.

Professor John Gouws continued to pioneer Book and Text Studies in South Africa by holding two workshops at Rhodes: the first – which concentrated on electronic textuality and editing – was led by Professor Paul Eggert of the University of New South Wales, and the second, which focused specifically on book history in Southern Africa, by Professor Isabel Hofmeyr from the University of the Witwatersrand.

Another significant new research direction in the Department, ecocriticism (which combines literary study with ecological concerns), came under the spotlight in September when Dr Dan Wylie organized a successful colloquium on the topic. Invited speakers from Cape Town and Johannesburg were joined by Grahamstown academics, writers and performers in an exciting, multi-media and interdisciplinary programme of events.

Publications in 2004 were relatively few, but members of the Department are in the process of completing at least 3 book-length projects, and there are in addition a number of articles awaiting publication in 2005.

PROFESSOR G. CORNWELL
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Beard, M M

Cornwell, G

Easton, K

Everitt, M

Gouws, J


Hacksley, G
Wylie, D.

OTHER PUBLICATIONS

Cornwell, G.


Gouws, J.


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

i. Local Conferences (Within South Africa)

Naidu, S.

Stevens, M.

Wylie, D.

ii. International Conferences (Outside South Africa)

Cornwell, G.

Gouws, J.


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Gouws, J.


Wylie, D

OVERSEAS RESEARCH OR FURTHER STUDY

Naidu, S

Wylie, D

JOURNAL SUBSIDY UNITS

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This, again, was a productive year for members of the Department of English Language & Linguistics. Professor de Klerk (Italy) and Ms Hunt (Cornell, US) presented papers on their work at international conferences, while Professor de Klerk and Ms Niven reported on their research locally as well. From the point of view of publications, members of the department published 4 articles in peer reviewed journals, 2 book chapters and 2 reviews. We look forward to a number of others appearing in print early in 2005.

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 was awarded the Vice Chancellor’s Distinguished Senior Researcher award for 2004 in recognition of her research performance to date. She currently sits as Ministerial representative on the South African Geographical Names Council, she is a board member of the Academy of Science of South Africa, and in 2004 she chaired the joint Literary Studies and Linguistics rating panel of the NRF. During November she helped to convene a seminar series representing research in Humanities for AsSAf in Cape Town. She, along with Dr Simango and Professor Adendorff, contributed to the NRF’s process of researcher evaluation. Dr Simango continued his collaborative research project on anaphora in African languages with Ken Safir of Rutgers University, USA; and started research on Xhosa-English code-switching; Mr Bekker has begun a PhD focussed on testing the hypothesis that South African English has regional varieties.

As far as post-graduate students are concerned, the department maintains steady numbers of Honours and Master’s students. Although no Master’s or PhD students completed their theses, the following post-graduate students were registered in 2004.

- Postgraduate Diploma in English Language Teaching: 1
- Honours in Linguistics & Applied Language Studies: 8
- Coursework Master’s in Linguistics & Applied Language Studies: 1
- Master’s by thesis: 6
- PhD: 4

PROFESSOR V. DE KLERK
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Adendorff,R

Simango,SR

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Adendorff,R

Bekker,I
de Klerk, V


**OTHER PUBLICATIONS**

Bekker, I

Simango, S.R

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

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

de Klerk, V


Niven, P

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

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

de Klerk, V
*de Klerk, V*. "WELL Xhosa English speakers seem to be using WELL pretty well". *25th International Conference on English Language research on computerised corpora of modern and medieval English*. Verona. Italy. May 2004.

Hunt, S.A

**DISTINGUISHED VISITORS**


**JOURNAL SUBSIDY UNITS**

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<td>de Klerk, V and Lagonikos, I</td>
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**TOTAL FOR ENGLISH LANGUAGE AND LINGUISTICS**

3.00
ENVIRONMENTAL SCIENCE

It has been another good year for the Department of Environmental Science with 20 book chapters, two books and 10 journal papers published during the year. The key highlight was definitely the publication of two edited books, one each by Professors Fabricius and Shackleton.

Professor Fabricius was the lead editor of a compilation of seventeen southern African case studies on Rights, Resources and Rural Development: community-based natural resource management in southern Africa. It is a landmark text that has been well received nationally and internationally. Professor Shackleton was a co-editor of a 30 chapter text on Indigenous forests and woodlands in South Africa: policy, people and practice. It includes over 80 authors from South Africa. Other significant milestones were (i) the completion of our contribution to the southern African component of the International Millennium Assessment, which will result in several publications in the next few years as well as strong international research links, (ii) the award of a research grant for bi-lateral cooperation with Bangalore University in India, and (iii) staff and student participation in the preparation of the Local Environmental Action Programme (LEAP) for the local Makana municipality.

For 2005, the department has 11 Master’s students and five PhDs. It is anticipated that four Master’s will be graduating in April 2005. They are Samantha Browne, Georgina Cundill, Helen Fox and Masego Madzwamuse.

PROFESSOR C. SHACKLETON
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Fabricius,C


Scheepers,K

Shackleton,CM


Shackleton, SE


Shackleton, SE and Shackleton, CM


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Shackleton,CM


Shackleton,CM and Shackleton,SE

Shackleton,SE

OTHER PUBLICATIONS

Gambiza,J

Shackleton,CM

Shackleton,SE
Shackleton,SE. "Making a difference to the lives of rural women in Limpopo". Kruger 2 Canyon News. 2004. 2(9), 10.


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

i. Local Conferences (Within South Africa)

Fabricius,C


Shackleton,CM


Shackleton,SE


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

ii. International Conferences (Outside South Africa)

Fabricius,C


Whittington-Jones,K


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<td>Botha,J, Witkowski,ETF and Shackleton,CM. &quot;Harvesting impacts on two commonly used medicinal tree species (Catha edulis and Rapanea melanophloeois) under different land management regimes in</td>
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<td>Dovie, D.B.K., Witkowski, E.T.F. and Shackleton, C.M.</td>
<td>&quot;The fuelwood crisis in southern Africa - relating fuelwood use to livelihoods in a rural village&quot;</td>
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<td>Shackleton, C.M., Guthrie, G. and Main, R.</td>
<td>&quot;Estimating the potential role of commercial over-harvesting in resource viability: a case study of five useful tree species in South Africa&quot;</td>
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<td>Shackleton, S.E.</td>
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**TOTAL FOR ENVIRONMENTAL SCIENCE** | 4.61 |
FINE ART

*Through the looking glass: Representations of self by South African women artists*, a book authored by Brenda Schmahmann, was published in 2004. Also significant have been two articles in accredited journals – one by Maureen de Jager (in *Art South Africa*) and the other by Gerhard Schoeman (in *Acta Varia*).

Mark Hipper and Brent Meistre have had solo exhibitions, the former in Germany and the latter in Grahamstown. Michael Herbst wrote a catalogue essay to accompany Brent Meistre’s show. Brenda Schmahmann curated a touring exhibition (which will extend into 2005) and Michael Herbst curated an exhibition on campus. A number of staff members have participated in group exhibitions.

Staff have also been active at local conferences, and Dominic Thorburn participated in a printmaking conference at Rutgers University in the USA. Papers that three staff members contributed to the “Visual Culture/Explorations” conference in Pretoria have been accepted into peer-reviewed proceedings.

The Fine Art Department expects that there will be seven MFA students and one MA (History of Art) student registered in the Department in 2005. One MFA student will be graduating in April 2005 and the Department expects at least another four postgraduates to have submitted their work for examination by the end of 2005.

**Please note:** The Department has not included in its returns items that are in press but not yet published. These include *Between Union and Liberation: women artists in South Africa, 1910-1994* (Ashgate Publishers), which Brenda Schmahmann co-edited and which will include two chapters by her, and *Popular Visual Culture in South Africa* (Van Schaik), which includes chapters by Michael Herbst and Brenda Schmahmann. The former will be published by May 2005 and the latter by March 2005.

PROFESSOR B. SCHMAHMANN
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

**Herbst,M**

**Schmahmann,BL**


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

**De Jager,M**


**Schoeman,G**
OTHER PUBLICATIONS

**Herbst,M**

**Schoeman,G**


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

i. Local Conferences (Within South Africa)

**De Jager,M**

**Herbst,M**

**Schmahmann,BL**
*Schmahmann,BL. "You’re born naked and the rest is drag’: Gendered enactments in the works of South African women artists". Annual Conference of SA Association of Art Historians. University of KwaZulu Natal, Durban. September 2004.*

**Schoeman,G**

**Thorburn,D**

ii. International Conferences (Outside South Africa)

**Thorburn,D**

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

**Dixie,C**


Herbst, M

Hipper, M


Meistre, B


Schmahmann, BL


Thorburn, D

DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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GEOGRAPHY

Staff members in the department had a productive research year, producing a total of nine journal articles, three book chapters, one paper published in a conference proceedings and one book. The 2004 graduation ceremony was marked by the graduation of four Master’s students, two with distinctions, and one PhD student. Professor Roddy Fox received the Vice Chancellor’s Distinguished Teaching Award as well as a Post Graduate Certificate in Higher Education. His interest in developing innovative teaching methods has lead to three conference presentations and a first international publication in an educational journal with Professor Kate Rowntree. Another highlight of Professor Fox’s research in 2004 was seeing the published results of a number of collaborations sponsored through the British Council’s Link programme and the Dutch government’s SANPAD programme.

Professor Etienne Nel added to his publication list through two journal articles and three book chapters. He has contributed key inputs to a new government policy paper on Local Economic Development.

Professor Lewis actively pursued his research into the Quaternary of southern Africa and initiated research into environmental change on the island of St Helena. His book on the ‘Origins and development of the Irish Draught Horse.’ was published by Geography Publications, Dublin.

Professor Rowntree is collaborating with the Institute for Water Research as a member of the project management team for a pilot project applied to the Kat River, Eastern Cape Province, to develop methods for the cooperative evolution of a catchment management strategy involving stakeholders, government agencies and specialists. This research has arisen out of the capacity building work by the Department of Geography that has been ongoing in the Kat Valley since 1997. Applied research in Fluvial Geomorphology has continued through the WRC project on the assessment of a geomorphological reference condition. The outputs from this research are being developed and tested in collaboration with researchers from the Resource Quality Services, DWAF, for application to river classification for water resource protection.

Professor Rowntree spent two months in the UK as part of her sabbatical leave where she met up with Professor Ian Foster from Coventry University who has been awarded a Hugh Kelly Fellowship for 2005. We are looking forward to establishing a collaborative research programme between the two Universities. Together with Professors Fox and Nel she attended the International Geographical Congress Conference and the Joint International Geomorphological Conference, both in Glasgow in August.

PROFESSOR K. ROWNTREE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Lewis, CA

Nel, EL


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Fox, RC


Rowntree, K.M

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

i. Local Conferences (Within South Africa)

*Bere, U*

*du Preez, L*

*Fox, R.C*

*Fox, R.C* and *Rowntree, K.M*
Freeman, J
Freeman, J. "The geomorphological changes exhibited by the Nkwenkwe sugar estates portion of the Mthlatuzi river, a sand bed river, as consequence of upstream impoundment". SAAG Biennial Conference. Knysna. April 2004.

Rowntree, KM

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

ii. International Conferences (Outside South Africa)

Fox, RC

McGregor, GK


Rowntree, KM


Thornes, J and Rowntree, KM

OVERSEAS RESEARCH OR FURTHER STUDY

Fox, RC


Lewis, CA

Nel, EL

Rowntree, KM

DISTINGUISHED VISITORS


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<td><em>Fox, R.C</em> and Southall, R.C. &quot;The general election in Lesotho, May 2002: Adapting to MMP&quot;. <em>Electoral Studies</em>. 2004. 23(3), 545-550.</td>
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GEOLOGY

Despite staff turnovers and the arrival of new staff during 2004 the research outputs of the Department of Geology have been maintained at solid level. Research carried out within the department is reflected in 10 full length peer-reviewed journal publications (including 3 for the Rhodes Centenary issue of the South African Journal of Science) and 9 conference presentations. One of the department’s new lecturers, Dr Bordy, published an additional 5 papers in 2004 on research done prior to joining the university. In view of the increased subsidy the University will receive for recognized research outputs this augurs well for the department being able to contribute significantly to the subsidy-earning capacity of the university in the future. In 2005 the department anticipates having 10 MSc students registered and 1 PhD and 9 MSc students in the April graduation in 2005. One area of concern is poor rate at which we are able to convert research thesis material into subsidy earning publications. Two international research projects which include departmental staff members as collaborators received funding for 2004-2005. The first, entitled “Emplacement mechanisms and magma flow in sheet intrusions in sedimentary basins” involves Professor J.S. Marsh from the Geology Department and scientists from Norway, France, UK and South Africa, and is funded by the Research Council of Norway. The second, involving one of the department’s new staff members, Dr S. Prevec in collaboration with Dr Tuomo Alapieti of the University of Finland, has been funded by the Science Academy of Finland and is entitled “Controls of PGE-base metal sulphide and chromite mineralization in Fennoscandia 2.5-2.4 Ga mafic-ultramafic rocks”. Finally, the international journal, Lithos (Elsevier), has published the research proceedings of the 2003 International Kimberlite conference in two volumes totalling over 1500 pages. Each volume is named for an outstanding kimberlite researcher, and those being honoured are Barry Hawthorne and Roger Clement, both alumni of the Geology Department of Rhodes University.

PROFESSOR J. MARSH
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jacobs, RE

Marsh, JS


Moore, JM

Prevec, SA

Skinner, EMW

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

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

**August, RB**

**Bordy, EM**


**Moore, JM and Jacob, RE**

**Moore, JM and Sheets, RW**

**Prevec, SA**


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

**Prevec, SA**
OVERSEAS RESEARCH OR FURTHER STUDY

Büttner, SH

DISTINGUISHED VISITORS


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HISTORY

Gary Baines gave five different papers at conferences held at Queen's University in Canada, Stellenbosch, Wits, UNISA and Rhodes. He continues to focus his main attention on representations of the South African border war, on which he is preparing a co-edited book for publication.

Julian Cobbing gave a paper and a series of three lectures on Global Crisis at the University of Natal, Pietermaritzburg.

Paul Maylam completed a manuscript on commemorations and representations of Cecil Rhodes in the twentieth century. The book will be published by David Philip in 2005.

Julia Wells completed a book on Makana's escape from Robben Island, to be published by UNISA in 2005. She was also appointed as a member of the National Heritage Council by Minister of Arts and Culture as representative of the Eastern Cape. Elected chairperson of its portfolio committee on Research, Development, Languages and Living Heritage and is a member of the Executive Committee.

Isaac Tarus obtained his PhD degree for a thesis on colonial taxation in Kenya. Jürg Richner is expected to graduate with an MA in 2005. The department currently has four registered MA students and one PhD student.

PROFESSOR J. COBBING
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Baines, G.


OTHER PUBLICATIONS

Baines, G.

Maylam, P.R.


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

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

**Baines, G.**


**Wells, J.**


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

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

**Baines, G.**


**Wells, J.**


**JOURNAL SUBSIDY UNITS**

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<th>JOURNAL SUBSIDY UNITS</th>
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<tr>
<td><strong>Baines, G.</strong></td>
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<tr>
<td><em>Baines, G.</em> &quot;A Progressive South African City? Port Elizabeth and Influx control ca.1923-1953&quot;. <em>Journal of Urban History</em>, 2004. 31(1), 75-100.</td>
<td>1.00</td>
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<tr>
<td><strong>TOTAL FOR HISTORY</strong></td>
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HUMAN KINETICS AND ERGONOMICS

We are proud to have a Scott and Christie paper in the Rhodes Centenary issue of the South African Journal of Science. Our main areas of research at present are on the musculoskeletal stresses resulting from the poor working postures of manual labourers, and the energy expenditure of the human operator working under extreme conditions. As these working conditions are virtually impossible to simulate in the laboratory, we have had many challenges to overcome in order to make every effort to conduct field experimentation as rigorously as possible. From these experiences it was evident that there was a critical need to establish reliable indirect methods of assessing workers’ responses in situ; and this was the focus of the SAJS article. Probably the major publication of the year was the invited Chapter in “Cultural Ergonomics”, by Scott and Charteris which focuses on the problems and successes of Ergonomics in Industrially Developing Countries (IDCs), and which has been well received.

Keeping our international profile active, Jon James attended the British Ergonomics Conference in Wales in April, and his two papers with colleagues in the department were both published in the proceedings, as were the two papers Pat Scott presented at the Human Factors and Ergonomics Conference held in New Orleans, USA in September. Pat Scott received the prestigious honour of being made a Fellow of the International Ergonomics Association in recognition of her drive to promote the need for both the research and the practice of Ergonomics in IDCs.

There were several overseas visitors to the department during the year, the most notable being Professor Mital (USA), who lectured and ran three workshops at Rhodes and around the country. His visit and national activities were all organised by the department. The other distinguished visit was Dr Mackau from Germany who gave lectures and joined the Honours group on a couple of field trips.

Miriam Renz was awarded her MSc with distinction at graduation in 2004. There are four PhDs, three MSc’s and six Honours students registered for Ergonomics in 2005, and we will have one MSc graduating in April 2005.

PROFESSOR P.SCOTT
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Scott, PA and Charteris, J.

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Charteris, J.

Scott, PA
Scott, PA and Renz, MC. "Crate off-loading tasks: Kinematic and metabolic analysis". Ergonomics SA. 2004. 16(2),2-17.

Scott, PA and Christie, CJ

ii. International Conferences (Outside South Africa)

James, JP and Todd, AI

Scott, PA and Christie, CJ


Todd, AI, James, JP and Scott, PA

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Scott, PA

Scott, PA and Christie, CJ

DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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<td>Charteris, J.</td>
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<td>Scott, PA</td>
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<td>Renz, MC and Scott, PA. &quot;Crate off-loading tasks: Kinematic and metabolic analysis&quot;. Ergonomics SA. 2004. 16(2),2-17.</td>
<td>1.00</td>
</tr>
<tr>
<td>Scott, PA and Christie, CJ. &quot;‘Optimal’ speed-load combinations for military manoeuvres&quot;. International Journal of Industrial Ergonomics. 2004. 33(1),63-68.</td>
<td>1.00</td>
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<tr>
<td>TOTAL FOR HUMAN KINETICS AND ERGONOMICS</td>
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</tbody>
</table>
ICHTHYOLOGY AND FISHERIES SCIENCE

A wide range of ichthyological, fisheries, and aquaculture research projects were undertaken by DIFS staff, and its body of 34 MSc and PhD research students. The DIFS’ research collaboration with the South African Institute for Aquatic Biodiversity (SAIAB) grew with 6 MSc and 2 PhD students supervised or co-supervised by SAIAB staff in 2004. Emeritus Professor Tom Hecht’s research group successfully spawned and reared our local sole species paving the way for commercial aquaculture trials. With industry/ THRIP funding, Professor Pete Britz and Dr Cliff Jones developed a “low pollution” abalone feed which has successfully been commercialised. Professor Warwick Sauer in collaboration with University of London made novel field and laboratory observations on squid mate choice and genetics, which provide insights into the animals evolution and life history strategy. Professor Tony Booth initiated a project which employs a novel hypothesis-driven method for quantifying the productivity of estuaries and small water bodies. DrHorst Kaiser obtained support from the BIOPAD technology development fund to test the efficacy of “probiotics” developed by the CSIR on fish health. Dr Olaf Weyl, in collaboration with the Icelandic International Development Agency (ICEIDA) initiated research into the feasibility of developing an artisanal fishery for offshore fish species in Lake Malawi. Dr Ané Oosthuizen performed research on the hatching success of squid eggs on deep water spawning grounds and supervised a survey on “transformation” in the South African squid fishery. MrQurban Rouhani of the Rural Fisheries Programme undertook a Water Research Commission project on the contribution of aquaculture to rural livelihoods. Mr Martin Davies supervised and Water Research Commission funded project to develop “fishway” designs suitable for promoting the migration of South African fish species up dams and weirs.

PROFESSOR P. BRITZ
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Booth,AJ


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Booth,AJ


Booth,AJ and Weyl,OLF


Brouwer,SL


Davis,JA and Hecht,T

Kaiser,H


Kaiser,H and Britz,PJ

Kaiser,H and Hecht,T

Oosthuizen,A


Sauer,WHH

Simon,CA

Weyl,OLF


Davies,MTT
Davies, MTT and Jones, CLW

Oosthuizen, A

Rouhani, Q

Rouhani, Q and Britz, PJ

Rouhani, Q and Davies, MTT

Rouhani, Q and Jones, CLW

Rouhani, Q, Britz, PJ and Vine, NG

Weyl, OLF


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

i. Local Conferences (Within South Africa)

Weyl, OLF, Rouhani, Q and Britz, PJ

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

ii. International Conferences (Outside South Africa)

Booth, AJ
Kaiser,H and Britz,PJ

Oosthuizen,A

Weyl,OLF

CONCERTS,EXHIBITIONS,PERFORMANCES,WORKSHOPS ETC.

Britz,PJ and Godfrey,B

Davies,MTT


Godfrey,B and Britz,PJ

Weyl,OLF
### DISTINGUISHED VISITORS


### JOURNAL SUBSIDY UNITS

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<td>Booth,AJ</td>
<td>&quot;Determination of cichlid-specific biological reference points&quot;. <em>Fisheries Research</em>. 2004. 67(2),307-316. 1.00</td>
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<td>Rutaisire,J and Booth,AJ. &quot;A histological description of ovarian recrudescence in two populations of <em>Labeo victorianus</em> populations&quot;. <em>African Journal of Aquatic Science</em>. 2004. 29(2),221-228. 0.50</td>
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<td>Brouwer,SL</td>
<td>&quot;Age and growth of <em>Argyrozoa argyrozoa</em> (Pisces Sparidae) in a Marine Protected Area: An evaluation of methods based on whole otoliths, sectioned otoliths and mark recapture&quot;. <em>Fisheries Research</em>. 2004. 67(1),1-12. 0.50</td>
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<tr>
<td>Davis,JA and Hecht,T</td>
<td>&quot;Spawning characteristics of the South African mudcrab <em>Scylla serrata</em> (Forskal) in captivity&quot;. <em>Journal of the World Aquaculture Society</em>. 2004. 35(2),121-133. 0.75</td>
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<td>Vine,NG, Leukes,WD and Kaiser,H. &quot;In vitro growth characteristics of five candidate aquaculture probiotics and two fish pathogens grown in fish intestinal mucus&quot;. <em>Fems Microbiology Letters</em>. 2004. 231,145-152. 0.67</td>
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<tr>
<td>Vine,NG, Leukes,WD, Kaiser,H, Daya,S, Baxter,J and Hecht,T. &quot;Competition for attachment of aquaculture candidate probiotic and pathogenic bacteria on fish intestinal mucus&quot;. <em>Journal of Fish Diseases</em>. 2004. 27(6),319-326. 0.50</td>
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<tr>
<td>Oosthuizen,A, Jiwaji,M and Shaw,P. &quot;Genetic analysis of the <em>Octopus vulgaris</em> population on the coast of South Africa&quot;. <em>South African Journal of Science</em>. 2004. 100,603-607. 0.34</td>
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<td>Sauer,WHH</td>
<td>&quot;Multiple paternity and complex fertilisation dynamics in the squid <em>Loligo vulgaris reynaudii</em>&quot;. <em>Marine Ecology Progress Series</em>. 2004. 270,173-179. 0.50</td>
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<td>Weyl, OLF, Mwakinyongo, KR and Mandere, DS.</td>
<td>&quot;An assessment of the nkacha net fishery of Lake Malombe, Malawi&quot;</td>
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INFORMATION SYSTEMS

A total 37 post-graduate Honours (23), Master’s (8) 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 (Master’s – 2) and the Rhodes Investec Business School (RIBS) (Master’s – 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, IT career development, alignment of business and IT strategy.


Mrs Mallinson continued with the open Webinar series held on an ad hoc basis in 2004. The webinars consist of live streamed web seminars (comprising audio, video, slides, shared desktop 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

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PROFESSOR J. MCNEILL
ACTING HEAD OF DEPARTMENT

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

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

**De La Rey, E, Mallinson, BJ and Sunassee, NN**

*De La Rey, E, Mallinson, BJ and Sunassee, NN. Microsoft Research Academic Days – Port Elizabeth. Port Elizabeth. November 2004.*

**Freeme, DM**


**Krull, G and Mallinson, BJ**

**Lannon, J.**  

**Mallinson, BJ and Sewry, DA**  


**Sewry, DA**  


**Sunassee, NN**  

**RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES**  
**ii. International Conferences (Outside South Africa)**

**Lannon, J.**  

**Mallinson, BJ and Sewry, DA**  

**Palmer, L.**  

**DISTINGUISHED VISITORS**


**JOURNAL SUBSIDY UNITS**

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INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

Quality of Life Program
During 2004 six research projects were ran under the Quality of Life Program under the leadership of Professor Valerie Möller. Professor Möller also presented at the opening plenary session at the international conference on Social Indicator Trends in Africa held during November in Philadelphia Pennsylvania, USA. During the conference she was made President-Elect of the International Society for Quality of Life Studies, a position that she will hold from 2006-2008. Professor Möller will be hosting the next ISQOLS conference in Grahamstown in July 2006.

People Program (Program for the Empowerment of People, Land and the Environment)
During 2004 six research projects were running under the PEOPLE Program under the leadership of Herman Timmermans and Michelle Cocks.

Herman Timmermans travelled to Ghana and Mozambique to undertake environmental impact studies as part of the Formative Monitoring and Evaluation of IBIS' Regional Environmental Program. He has also initiated and received funding for two new research projects under the PEOPLE program which are to be based in the Eastern Cape and neighbouring provinces of Mpumalanga and Kwa-Zulu Natal. The projects aim to evaluate the contribution of government poverty alleviation to rural development.

Michelle Cocks presented a paper at the 9th International Congress of Ethnobiology at the University of Kent, Canterbury, United Kingdom and she has developed her current research focus on Bio-Cultural Diversity by writing up the results of her field work as a series of five peer reviewed articles.

MS. M. COCKS
ACTING DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Cocks, ML


Moller, V

Moller, V

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Cocks, ML

Moller, V

OTHER PUBLICATIONS

Cocks, M


Cocks, ML


Timmermans, HG, Nongwe, N and Hamer, N

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

i. Local Conferences (Within South Africa)

Cocks, ML


Moller, V


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

ii. International Conferences (Outside South Africa)

Cocks, ML


DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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</table>
INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA

The Director, Professor Laurence Wright, launched ‘The Southern Hemisphere Spread of Shakespeare’, an international collaborative research and publication programme which sets out to document and analyse the impact of Shakespeare over two centuries in Australia, New Zealand and South Africa. More than thirty scholars are participating. He has to date contributed an overview of South African Shakespeare for an e-book, Shakespeare Around the Globe, published by the University of Victoria; an archive of production materials documenting Yael Farber’s 2001 production, SeZaR; and a review article entitled ‘Apartheid Shakespeare on Trial’ to the publishing programme.

In language policy research, the Director contributed by invitation a piece on ‘Language and Value: Towards accepting a richer language ecology for South Africa’ to the journal Language Problems and Language Planning, in a special issue focused on South Africa.

He also published a special issue of English in Africa devoted to his research into the Eastern Cape writer R.L. Peteni, which includes Peteni’s own reflections on his well-known novel, Hill of Fools (1976), plus analyses of the political, social, and publishing background to this work.

Alan Macintosh Research Fellow Margie Probyn’s field work is now substantially complete. Funding was obtained form the NRF in July 2003 for research into teachers’ classroom practice when teaching science through the medium of English as an additional language. The fieldwork was conducted in seven rural schools in the Butterworth and Lady Frere districts and at three township schools in Mdantsane in the East London district. Five consecutive lessons for each teacher were videotaped and the teachers interviewed, using the videotapes for stimulated recall. The lessons are being transcribed and will be analysed using VPrism software.

Cossie Rasana is in the process of publishing papers based on her M.Ed dissertation, incorporating additional research into library provision and usage in Grahamstown township schools. In the longer term, she will be pursuing doctoral research into the achieved reading levels of Grade 10 learners in some Grahamstown schools for her Ph.D studies at Maquarie University in Sydney.

Monica Hendricks is completing doctoral research into how children learn to write in additional languages (Afrikaans, English and isiXhosa) in primary school. Her provisional thesis title is, ‘The Rites of Writing: Factors which enable the acquisition of written competence in additional language(s).’

Research Associate Chris Mann spent considerable time researching the natural sciences and astronomy. This led to the preparation of a new book of animal poems, to be published by the University of KwaZulu Natal Press in 2005, and a play-in-verse called Walking on Gravity. The play was performed at the 2004 National Arts Festival and a CD of the text incorporating the images was published by Grahamstown Cathedral.

In addition, the Chris Mann’s play Thuthula was prepared for publication by Ad. Donker and will be forthcoming in 2005. The play and the introduction by Laurence Wright required considerable reading in nineteenth century South African history, Xhosa literature and anthropology.

PROFESSOR L.S. WRIGHT
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Berold, R

Wright, LS

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Hendricks, MG

Mann, CM
Mann, CM. "Weaver-birds and lilies". English Academy Review. 2003. 20(December),183.

Mann, CM. "Faces in Grahamstown Cathedral". English Academy Review. 2003. 20(December),184.


Mann, CM. "Blesbuck". Scrutiny 2. 2004. 9(1),100.


Probyn, MJ

Wright, LS


Wright, LS. "Language and Value: Towards accepting a richer language ecology for South Africa". Language Problems and Language Planning. 2004. 28(2),175-197.


OTHER PUBLICATIONS

ISEA


Mann, CM


Slinger, H

Wright, LS


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

i. Local Conferences (Within South Africa)

Hendricks, MG


Mann, CM

Wright, LS


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

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

**Hendricks, MG**


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

**Mann, CM**


**DISTINGUISHED VISITORS**


| JOURNAL SUBSIDY UNITS |
|------------------------|--------|
| **INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA** | **UNITS** |
| Hendricks, MG |  |
| *Hendricks, MG. "Literacy and Social Justice". Education as Change. 2004. 8(1),109-145.* | 1.00 |
| Mann, CM |  |
| *Mann, CM. "Weaver-birds and lilies". English Academy Review. 2003. 20(December),183.* | 1.00 |
| *Mann, CM. "Ideas of Modernity in Singapore". English Academy Review. 2003. 20(December),184-186.* | 1.00 |
| *Mann, CM. "Faces in Grahamstown Cathedral". English Academy Review. 2003. 20(December),184.* | 1.00 |
| *Mann, CM. "Blesbuck". Scrutiny 2. 2004. 9(1),100.* | 1.00 |
| *Mann, CM. "Dragonfly". Scrutiny 2. 2004. 9(1),101.* | 1.00 |
| *Mann, CM. "Finches". Scrutiny 2. 2004. 9(1),99.* | 1.00 |
| Wright, LS |  |
| *Wright, LS. "The Early Reception of Hill of Fools". English in Africa. 2004. 31(2),101-118.* | 1.00 |
| *Wright, LS. "Hill of Fools: Notes Towards a Publishing History". English in Africa. 2004. 31(2),43-54.* | 1.00 |
| *Wright, LS. "Politics, Latent and Overt, in Hill of Fools". English in Africa. 2004. 31(2),55-72.* | 1.00 |
| *Wright, LS. "An Introduction: Peteni in Context". English in Africa. 2004. 31(2),7-24.* | 1.00 |
| *Wright, LS. "Hill of Fools: A South African Romeo and Juliet?". English in Africa. 2004. 31(2),73-88.* | 1.00 |
| *Wright, LS. "Language and Value: Towards accepting a richer language ecology for South Africa". Language Problems and Language Planning. 2004. 28(2),175-197.* | 1.00 |
| *Wright, LS. "Shakespeare in South Africa: "Alpha and Omega"". Postcolonial Studies. 2004. 7(1),63-81.* | 1.00 |
| TOTAL FOR INSTITUTE FOR THE STUDY OF ENGLISH IN AFRICA | 15.00 |
INSTITUTE FOR WATER RESEARCH

During 2004 the Institute staff contributed to 8 papers in international journals, with several more in press. More than 20 research or consultancy reports were produced, as well as a number of paper presentations at local and international conferences.

Hydrology Group
The hydrology group focus has remained on water resource estimation in the SADC region, the development and application of methods for applying RDM policy associated with environmental flow requirements and the on-going development of the SPATSIM software. The main focus of water resource modelling has been on developing a model for the Okavango basin as part of two EU funded projects. During 2004, the WRC project on the development of a computer based decision support system for quantifying the components of the ecological Reserve was completed. This project was the main platform for the development of a range of analysis and estimation methods to support ecological Reserve determinations, all of which have been integrated into the SPATSIM system.

Ecology Group
The ecology group focussed on the application of the Flow-Stressor Response approach to determining the ecological Reserve for rivers. Professor Jay O’Keeffe was awarded the SASAQS Gold Medal during 2004, but has now moved to a Professorial appointment at the University of Delft, Netherlands.

Wetlands Group
The “Inventory of the wetlands in eight selected Eastern Cape catchments” was completed and distributed to relevant government departments, municipalities and conservation bodies in July 2004. This report consists of eight sections each containing a catchment description, wetland location maps, as well as a GIS database. During the course of the investigation 23562 hectares were investigated and 580 wetlands recorded. Floodplains and seeps represent the largest category of wetlands. The report includes a preliminary assessment of the identified wetlands and management recommendations in terms of conservation and rehabilitation.

Unilever Centre for Environmental Water Quality
During 2004 UCEWQ published the "Environmental Water Quality in Water Resources Management" handbook. This technical handbook is the product of the realisation that an integrated approach provides the best solution for managing environmental water quality. The approach has been well received by water managers and regulators and forms the basis not only for graduate teaching but for a professional short course offered by UCEWQ staff as well. Publication of the UCEWQ toxicology database will contribute significantly to the development of water quality guidelines for salinity in South Africa, particularly because the database contains data for many indigenous invertebrate species and is the only one of its kind in South Africa.

Postgraduate students
Expected to graduate in 2005
Patrick Valimba: PhD (Rainfall variability in southern Africa, its influences on streamflow variations and its relationships to climatic variations). The thesis has been accepted and the corrected document is about to be submitted.

Elenestina Mwela: MSc (The application of the monthly time step Pitman rainfall-runoff model to the Kafue River basin of Zambia). The thesis is with the examiners.

Andrew Slaughter: MSc (The contribution of chronic toxicity data for indigenous aquatic macroinvertebrates to the development of protective salinity guidelines for South African freshwater resources). The thesis is with the examiners.

Nhlanhla Mbatha: MA (Defining relationships between individual environmental economic values, property rights and participation trends for integrated water resource management: Kat River case study). The thesis is with the examiners.

Registered in 2005
Marius Claassen: PhD (The development and application of ecological risk assessment in South African water resource management). Examination in process.
Irene Naigaga: PhD (co-supervisor) (Use of bioindicators and biomarkers to assess aquatic environmental contamination in selected wetlands receiving urban runoff).

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


Nosiphiwo Ketse: MSc (Embryonic development of the freshwater shrimp Caridina nilotica and the effect after exposure to reference toxicants).

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


Babalwa Zani: MSc (application pending)

Naomi Richardson: MSc (application pending; co-supervisor)

PROFESSOR D.HUGHES
ACTING DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Allanson,B

Illgner,PM

Muller,WJ and Palmer,CG

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barnes,RSK

Hughes,DA
Hughes,DA. "Incorporating ground water recharge and discharge functions into a existing monthly rainfall-runoff model". Hydrological Sciences Journal. 2004. 49(2),297-311.


Palmer, CG

Palmer, CG, Muller, WJ, Gordon, AK, Davies-Coleman, HD and de Kock, E

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

i. Local Conferences (Within South Africa)

Davies-Coleman, HD and Palmer, CG


Gordon, AK, Muller, WJ and Palmer, CG

Muller, WJ and Palmer, CG

Palmer, CG, Muller, WJ and Davies-Coleman, HD

Slaughter, AR, Palmer, CG and Muller, WJ
Williams, ML, Palmer, CG and Gordon, AK

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

ii. International Conferences (Outside South Africa)

Hughes, DA

JOURNAL SUBSIDY UNITS

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<td>Barnes, RSK</td>
<td>Barnes, RSK. &quot;The distribution and habitat in the Knysna Estuary of the endemic South African mudsnail Hyrobia knysnaensis and the influence of intraspecific completion and ambient salinity on its abundance&quot;. African Journal of Aquatic Science. 2004. 29(2),205-211. 0.50</td>
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<tr>
<td>Hughes, DA</td>
<td>Hughes, DA. &quot;Incorporating ground water recharge and discharge functions into a existing monthly rainfall-runoff model&quot;. Hydrological Sciences Journal. 2004. 49(2),297-311. 1.00</td>
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<td></td>
<td>Hughes, DA. &quot;Three decades of hydrological modelling research in South Africa&quot;. South African Journal of Science. 2004. 100,638-642. 1.00</td>
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<td></td>
<td>Hughes, DA. &quot;Problems of estimating hydrological characteristics for small catchments based on information from the SA national surface water resource database&quot;. Water SA. 2004. 30(3),393-398. 1.00</td>
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<td></td>
<td>Andersson, L, Gumbricht, T, Hughes, DA, Kniveton, D, Ringrose, S, Savejie, H, Todd, M, Wilk, J and Wolski, P. &quot;Water flow dynamics in the Okavango River Basin and Delta - a pre requisite for the ecosystems of the Delta&quot;. Physics and Chemistry of the Earth. 2003. 28,1165-1172. 0.11</td>
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<td>TOTAL FOR INSTITUTE FOR WATER RESEARCH</td>
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INTERNATIONAL CHAIR IN ENTREPRENEURSHIP

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

i. Local Conferences (Within South Africa)

Maas, G.
Amos, T. L. and Maas, G. "Responding to South Africa’s need for entrepreneurs: What should higher education do?". Reinventing the University. Rhodes University, Grahamstown. December 2004.

JOURNAL SUBSIDY UNITS

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</table>
INVESTEC BUSINESS SCHOOL

Because the Rhodes Investec Business School (RIBS) does not have any full time academic staff, apart from the Director, it has to rely for research output on those contract members of staff who teach for RIBS. The University has ruled that any research in the broad area of Business Administration published by members of staff who teach on the MBA programme should be credited to RIBS, as well as to the staff member’s home department. Thus, when it comes to research activities, RIBS is currently in a position of dependency to a significant extent.

As part of the MBA curriculum, RIBS believes that it has a system in place which will streamline and facilitate the research output of MBA students. Members of staff will be encouraged to allocate research projects to MBA students with the objective of producing publishable research on a joint basis. To mark the start of this proposed collaboration, two papers written by staff and MBA students, were presented at an international conference in 2004.

At the beginning of 2005, RIBS had 72 MBA students across the three year programme (i.e.) first year – 29, second year – 22, third year – 21.

PROFESSOR G. STAUDE
DIRECTOR

BOOKS/CHAPTERS/MONOGRAPHS

Amos, TL


Staude, GE


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

i. Local Conferences (Within South Africa)

Amos, TL and Pearse, NJ
Amos, TL and Pearse, NJ. “Working at the interface between universities and business: Case study of the Rhodes

Mashonganyika, O, Amos, TL and Pearse, NJ

Nyoka, Z and Pearse, NJ

OVERSEAS RESEARCH OR FURTHER STUDY

Staude, GE

DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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JOURNALISM AND MEDIA STUDIES

Of the 17 full-time teaching staff employed in the Department of Journalism and Media Studies, 5 were dedicated primarily to the teaching of media theory (which forms the academic component of the degree) and 12 to the teaching of primarily production-based courses (television, radio, print, new media, photojournalism, and design). The research output figures for 2004 indicate that staff teaching media theory were responsible for book chapters and journal publications, while the production teachers were responsible for creative works. Staff published 6 articles in peer reviewed journals (with another accepted for publication) while a number of articles were also published in technical publications and the mass media. Our conference participation was strong, with 21 papers presented at a broad range of academic and professional meetings throughout the year. In addition, seven of our Master’s students presented papers at the SACCOCM Conference at UPE (29 September – 1 October 2004).

In 2005 we will have 53 MA and 3 PhD students registered in our department. We expect six or seven to graduate in April 2005.

Other highlights include:

- The department successfully convened the 8th Highway Africa conference and the 5th African Economics Editor’s conference. These two conferences represent the largest annual gathering of African media professionals.
- Cue, the official newspaper of the National Arts Festival, produced 10 editions while 3 editions of the newspaper Open Source, were produced during the Highway Africa conference.
- CueTV produced 14 inserts and two documentaries for SABC Africa during the National Arts Festival.
- Mr Rod Amner undertook a 10 day research trip to two prestigious journalism schools based in the USA, the University of Missouri-Columbia and Columbia University in New York, to produce an in-depth case study to help the department best utilise its newly acquired newspaper, Grocott's Mail, as both an educational resource and a local newspaper.
- Professor Guy Berger designed and fundraised for two research projects – one for Catia on the coverage of ICT policy issues in six African countries, and the other for the IDRC on the use of ICTs in eight Southern African countries; as well as managed a research project by visiting Belgian scholar Gebert van der Berghe into SA media coverage of the Convergence Bill.
- Ms Carol Christie managed a research project titled ‘Survey and analysis of Grocott’s Mail readership, June 2004.
- Professor’s Jeanne Prinsloo and Larry Strelitz were commissioned by Gender Links to design their research project, undertaken in 6 Southern African countries, which examined the gendered consumption of news media in Southern Africa.

PROFESSOR L. STRELITZ
DEPUTY-HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAHPHS

Garman, A

Strelitz, L.N

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Berger, G
Prinsloo,J


Steenveld,L


Strelitz, LN

Strelitz, LN. "Understanding University Student Media Preferences through the discourses of ‘Realism’ and ‘Quality’". Communicatio. 2004. 30(2),36-49.


OTHER PUBLICATIONS

Berger,G

Berger,G. "When pride is a virtue". Centennial. 2004. 52-55.


Berger,G. "South Africa”. So This is Democracy?. Windhoek. 2004.


Berger,G. "Journalism wallows in its own muck”. This Day. 2004. 11.


JMS


Mitchell,D


Prince,E

Prince,E. "3 Articles". Y Mag and Hype. 2004.

Vasques,V

Vasques,V. "All wired up and everywhere to go”. Media Toolbox. 2004.
RESEARCH PAPERS PRESENTED AT ACADEMIC/SCIENTIFIC CONFERENCES (PROCEEDINGS, BOOKLETS AND ATTENDANCE)

i. Local Conferences (Within South Africa)

Amner, R


Berger, G


Christie, C


Du Toit, J

Garman, B

Kabwato, C


Mitchell, D

Prince, E

Prinsloo, J


Steenveld, L

Steenveld, L. SACOMM. University of Port Elizabeth, Port Elizabeth. October 2004.

Strelitz, L

Vasques, V

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

ii. International Conferences (Outside South Africa)

Berger, G


Kabwato, C


Prinsloo, J


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Amner, R

Amner, R. Research. "Grocott's Mail". 10 day research trip to two prestigious journalism schools based in the USA, the University of Missouri-Columbia and Columbia University in New York, to produce an in-depth case study to help the department best utilise its newly acquired newspaper, Grocott's Mail, as both an educational resource and a local newspaper. 2004.

Berger, G


Berger, G. Design and fundraising. Catia - coverage of ICT policy issues in six African countries and IDRC - use of ICTs in 8 Southern African countries and managed a research project by visiting Belgian scholar Gebert van der Berghe into SA media coverage of the Convergence Bill. 2004.

Christie, C


DISTINGUISHED VISITORS


M Constant. SAFM. 2004.


Professor J Horgan. Dublin City University, Dublin. 2004.

B Keene-Young. eTV Corporate Affairs. 2004.


T Mazwai. SABC Board Member. 2004.


C Msomi. SABC Board Member. 2004.


### JOURNAL SUBSIDY UNITS

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<th>JOURNALISM AND MEDIA STUDIES</th>
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<tr>
<td>Prinsloo,J. &quot;Examining the examination: The ‘worlding’ of the Matriculation language examinations in KwaZulu-Natal&quot;. <em>Perspectives in Education</em>. 2004. 22(1),81-97.</td>
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<td>Strelitz,LN. &quot;Understanding University Student Media Preferences through the discourses of 'Realism' and 'Quality'&quot;. <em>Communicatio</em>. 2004. 30(2),36-49.</td>
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**TOTAL FOR JOURNALISM AND MEDIA STUDIES**

5.00
LAW

In 2004 the Faculty of Law continued to maintain an impressive research record as will be reflected below.

Papers read at conferences
In 2004 Mr Mandlana presented papers at two international conferences in Kenya. Professor Midgley participated in the NRF project on stimulating research in the humanities, social sciences and law. Professor Mqeke presented a guest lecture at Van Vollenhoven Institutut, University of Leiden. He also presented a paper at an international conference held in Rumbek, South Sudan.

Locally he presented a paper at the Universities of the North and Western Cape. Professor Mqeke also participated at various workshops conducted by the National Department of Provisional and Local Government.

Publications in Accredited Law Journals


Mrs Driver and Judge Plasket contributed Administrative law section in the 2004 Annual Survey of South African law.

Publications in Print
Professor Mqeke “Legal Pluralism in the Eastern Cape from a historical and contemporary perspective”, (2004) 18 (2) Speculum Juris

Books and Chapters in books


Dr G Glover, Mrs Driver and Ms Kruger updated Butterworths’ Family Law Service.

PROFESSOR R. MIDGELY
DEAN OF FACULTY

BOOKS/CHAPTERS/MONOGRAPHS

Driver,S


Kerr,AJ

Kruger,R

Mqeke,RB
PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Driver,S and Plasket,CM

Glover,GB


Kulundu-Bitonye,W

Meintjes-van der Walt,L

Mqeke,RB


Plasket,CM


Roberts,LJ

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

i. Local Conferences (Within South Africa)

Kruger,R and Driver,S

Mqeke,RB


113
ii. International Conferences (Outside South Africa)

Mandlana, W

Mqeke, RB

JOURNAL SUBSIDY UNITS

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<td>Roberts, L.J</td>
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TOTAL FOR LAW: 11.50
MANAGEMENT

Although the Management Department has achieved limited success in its research output during 2004, publications are still regarded as an integral activity of the Department. Two members of staff have articles published in refereed Journals namely Mr T. Amos and Mr N. Pearse and have kept the Departmental flag flying for 2004. A number of staff members have submitted papers for review but the results have not been received from the Journals concerned. Hopefully these will be published in 2005. On the other hand, Professor Harvey has had a number of articles published in non-accredited Journals and has copyrighted a Case Study with Professor Court.

The Department has produced a number of post-graduate students. One member of staff has completed his PhD and should graduate at the 2005 graduation ceremony while another member of staff should graduate with his Master’s degree. The Department has another student graduating with his PhD during the 2005 graduation.

There are another three PhD students registered in the Department as well as there being four Master’s students registered. Within the Department we have five members of staff registered for their PhD degrees of which three are registered in the Management Department.

Attendance at Conferences is encouraged and a number of staff has attended Conferences during 2004. Messrs Amos and Pearse had their papers published in the Conference Proceedings.

The number of fulltime Management students at the Honours/BBS 4 level stood at fourteen during 2004. These students are encouraged to write a research publication or compile a business report for a chosen organization. The process is working satisfactorily and should lead to published research in the future.

PROFESSOR P. COURT
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Amos, TL


OTHER PUBLICATIONS

Harvey, NM

Harvey, NM and Court, PW
Harvey, NM, Court, PW and Volek, T. "NF Die-casting: A case study. (Copyright)". Harvey NM. Grahamstown. 2004.

Pearse, NJ and Amos, TL


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

i. Local Conferences (Within South Africa)

Amos, TL
Amos, TL and Maas, G. "Responding to South Africa’s need for entrepreneurs: What should higher education do?". Reinventing the University. Rhodes University, Grahamstown. December 2004.


Amos, TL and Pearse, NJ


Pearse, NJ


DISTINGUISHED VISITORS

JOURNAL SUBSIDY UNITS

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MATHEMATICS

Professor Murali’s collaboration with Professor B Makamba of University of Fort Hare continued to flourish.

Professor Mabizela presented an invited lecture at the 8th International Conference on Nonlinear Functional Analysis and Applications (2004), held at Kyungnam University and Gyeongsang National University, KOREA. He also presented a paper at the 47th Annual Congress of the South African Mathematical Society (2004) held at the University of North-West (Potchefstroom).

Professor Mabizela and Dr Matutu attended the 19th ‘Summer’ Conference on Topology and its Applications (5-9 July 2004) held at the University of Cape Town.

Professor Burton initiated collaboration with the Faculty of Pharmacy.

Mr G Shepherd presented his popular lecture on the Engineering Aspects of the World Trade Center Twin Towers at the Sasol SciFest Lecture.

2 Honours
1 Master’s
1 PhD

Mr Leigh Nelson completed his joint Honours degree.

PROFESSOR S. MABIZELA
HEAD OF DEPARTMENT

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Murali,V


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

i. Local Conferences (Within South Africa)

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

ii. International Conferences (Outside South Africa)

Mabizela, S


DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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<td><em>Murali, V.</em> &quot;Fuzzy points of equivalent fuzzy subsets&quot;. <em>Information Sciences</em>. 2004. 158,277-288.</td>
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<td><em>Murali, V</em> and Makamba, BB. &quot;Counting the number of fuzzy subgroups of an abelian group of order $p^aq^m$&quot;.  <em>Fuzzy Sets and Systems</em>. 2004. 144(3),459-470.</td>
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<td>TOTAL FOR MATHEMATICS</td>
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MUSIC AND MUSICOLOGY

The Department of Music and Musicology is one of the two essentially Practical Arts Departments on the campus. Pure academic research is a limited area in the department’s work, with the State and NRF accreditation of public performance skills (already standard practice in the greater global tertiary environment) unfortunately still only in the embryonic stage.

Dr Thram was on sabbatical to continue her research in two important areas: Media Control and Censorship of Music under the present government of Zimbabwe, and continuation of original research on the indigenous music of the Shona.

While on a teaching exchange with Queen’s University in Canada, Ms Heunis participated in a music education colloquium, presenting the South African music educator’s experience, and an Academic Poster at the Ontario Music Educator’s Conference.

Professor Scarr was the Department’s most active performer in 2004. As an orchestral conductor he was engaged across the country, most notably for the Final rounds of the Unisa Vodacom International Piano Competition in Pretoria, the Rhodes Centenary Concert at the National Arts Festival (with Ms Foxcroft as soloist), and a two-week symphonic season with the Cape Philharmonic Orchestra in Cape Town. Both Professor Scarr’s orchestral and Ms Foxcroft’s pianistic recordings were widely broadcast on SAFM, Classic FM, and Fine Music Radio.

New staff members Dr van Dijk and Mr Munoz were also nationally active performers, rounding off a high profile performance year for the Department. In addition, Dr van Dijk enjoyed the world premiere of a new two-piano work in Cape Town.

Distinguished visiting lecturers included Professor Laszlo Somfai, former President of the International Society of Musicologists, and Professor Paul Friedlander from Chico University, California. Professor Friedlander presented one of the University’s Centenary Lectures.

PROFESSOR D. SCARR
HEAD OF DEPARTMENT

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

i. Local Conferences (Within South Africa)

Radloff, TR

Thram, D

ii. International Conferences (Outside South Africa)

Heunis,D

CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Foxcroft,C


Heunis,D


Munoz,JL


**Scarr,DJ**


**Van Dijk,PL**

*Van Dijk,PL*. Conductor. "*School of Music Symphony Orchestra & the University of Port Elizabeth Choir*". UPE School of Music Concert. NG Church. Port Elizabeth. 6 May 2004.

*Van Dijk,PL*. Conductor. "*Eastern Cape Philharmonic Orchestra Youth Concerto Festival*". UPE School of Music Concert. Feathermarket Hall. Port Elizabeth. 10 October 2004.


**DISTINGUISHED VISITORS**


The research efforts of the Faculty of Pharmacy continue to play a prominent role in the proceedings of the annual meetings of the South African Academy of Pharmaceutical Sciences, the Pharmacological Society of South Africa, the South African Association of Hospital and Institutional Pharmacists, and the Neuroscience Society. In addition, members of staff regularly participate in international conferences and this has resulted in international liaisons in several areas of the pharmaceutical sciences.

The number of postgraduate students in the Faculty of Pharmacy in 2004 was 28, of which 14 were registered for Master’s and 14 for Doctoral degrees. The number of students registered for higher degrees in 2005 is 24. The high number of postgraduate students and research activities of the academic staff resulted in no fewer than 39 conference presentations being made in 2004.

At present four members of the academic staff are or have been NRF rated scientists: Professor I. Kanfer (B-rated), Professor S. Daya (C-rated), Professor J.M. Haigh (C-rated) and Professor R.B. Walker (C-rated). Dr Beukes is funded by the NRF as part of the Thuthuka programme and some members of the Faculty receive substantial funding from the MRC.

The Faculty of Pharmacy hosted three highly successful conferences and workshops in 2004. The Silver Jubilee conference of the South African Academy of Pharmaceutical Sciences was convened by Professor Walker and hosted 10 international speakers and attracted over 200 delegates. Professor Daya hosted the 6th International Brain Research Organization African Region Neuroscience School and an Epilepsy workshop.

Professor Dowse received the Roche Achievement award for the Best Publication: Pharmacy Practice for her paper, which evaluated the influence of education on the interpretation of pharmaceutical pictograms for communicating medicine instructions.

Professor Kanfer continues to be the Associate Editor of the Journal of Pharmacy and the Pharmaceutical Sciences, Professor Daya continues as the Editor of Metabolic Brain Disease and as the International Editor of the Journal of Cell and Tissue Research and Professor Haigh serves on the Editorial Advisory Boards of the International Journal of Drug Development, International Journal of Generic Drugs and STP Pharma Sciences Journals. Members of the academic staff are regularly solicited to act as referees for articles submitted for publication in both local and international peer reviewed scientific journals whereas some are often invited to deliver Plenary or Keynote research lectures or Chair sessions at local and international conferences and symposia.

PROFESSOR R.B. WALKER
ACTING DEAN OF FACULTY
BOOKS/CHAPTERS/MONOGRAPHS

Kanfer, I


Kanfer, I and Walker, RB

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Beukes, DR


Daya, S


Dowse, R

Dowse, R and Ehlers, MS

Kanfer, I

Kanfer, I and Walker, RB

Limson, JL and Daya, S

Patterson, BD

Srinivas, SC

OTHER PUBLICATIONS

Futter, WT


Haigh, JM, Kanfer, I and Purdon, LH
Haigh, JM, Kanfer, I and Purdon, LH. "A brief history of the Faculty of Pharmacy". Haigh, JM. (eds) Faculty of Pharmacy Annual Review. Faculty of Pharmacy. Grahamstown. 2004. 4-6.

Oltmann, C

Walker, RB

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

i. Local Conferences (Within South Africa)

Dowse, R


Futter, WT


Futter, WT and Oltmann, C

Futter, WT and Srinivas, SC

125
Haigh, JM

Kanfer, I


Karekezi, C

Nontyi, CT, Walker, RB and Kanfer, I

Oltmann, C


Skinner, MF and Kanfer, I

Srinivas, SC

Srinivas, SC and Futter, WT
Walker,RB


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

ii. International Conferences (Outside South Africa)

Daya,S

Dowse,R

Haigh,JM


Kanfer, I


Srinivas, CS

Walker, RB


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Beukes, DR

Kanfer, I


Karekezi, C

Oltmann, C


Walker, RB


OVERSEAS RESEARCH OR FURTHER STUDY

Beukes, DR

Beukes, DR. Gerwick Laboratory, Oregon State University, Corvalis, Oregon, USA. Sabbatical Research. 1 July - 31 December 2004.

Kanfer, I

Kanfer, I. Canadian College of Naturopathic Medicine, North York, Ontario, Canada. Sabbatical Research. 1 July - 31 December 2004.

DISTINGUISHED VISITORS


Dr B Patterson. North Dakota State University, Fargo, North Dakota, USA. Lecture/Pharm D. September-November 2004.


Dr V Yanchick. Virginia Commonwealth University, Richmond, Virginia, USA. Lecture/Pharm D. September 2004.
<table>
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<td><strong>Beukes,DR</strong></td>
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<tr>
<td>Davies-Coleman, MT and Beukes, DR. &quot;Ten years of marine natural products research at Rhodes University&quot;. <em>South African Journal of Science</em>. 2004. 100,539-544. 0.50</td>
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<tr>
<td><strong>Daya, S</strong></td>
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<tr>
<td>Vine, NG, Leukes, WD, Kaiser, H, Daya, S, Baxter, J and Hecht, T. &quot;Competition for attachment of aquaculture candidate probiotic and pathogenic bacteria on fish intestinal mucus&quot;. <em>Journal of Fish Diseases</em>. 2004. 27(6),319-326. 0.17</td>
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<td><strong>Dowse, R</strong></td>
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<tr>
<td>Mansoor, LE and Dowse, R. &quot;Design and evaluation of a new pharmaceutical pictogram sequence to convey medicine usage&quot;. <em>Ergonomics SA</em>. 2004. 16,29-41. 1.00</td>
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<td>Dowse, R and Ehlers, MS</td>
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<td><strong>Kanfer, I</strong></td>
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<td><strong>Patterson, BD</strong></td>
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<td>Willows, S, Patterson, BD and Swingler, D. &quot;Prevalence of and risk factors for tardive dyskinesia in a Xhosa population in the Eastern Cape of South Africa&quot;. <em>Schizophrenia Research</em>. 2004. 1-9. 0.34</td>
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<tr>
<td>TOTAL FOR PHARMACY</td>
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PHILOSOPHY

The Philosophy Department organised and hosted the Annual Philosophy Colloquium (this year in winter rather than in spring). The programme comprised 12 papers. Participants included top overseas philosophers: Kai Nielsen (Calgary, Canada), Don Ross (Alabama, USA), Jocelyn Couture (Montreal, Canada) and Drucilla Cornell (Rutgers, USA). Michaela Baker (MA, April 2004) and Dr Rebecca Bamford (Post-Doctoral Fellow) both read papers.

Submissions for Philosophical Papers, the international journal edited and published by the Department, are steadily increasing: 53 submissions for the two regular issues (March and July) were received and eleven were published. There were also 34 submissions for the topic-based issue on “Immoral Believing” (November), of which five were published. Submissions are mostly from the USA, Australia, the UK and European countries, but also from South Africa, Africa, the Middle and Far East.

Dr. Tom Martin received the Vice-Chancellor's 2004 Book Award for Oppression and the Human Condition: An Introduction to Sartrean Existentialism, and was the keynote speaker at a conference on Sartre’s novel Nausea in Newcastle, Australia, in July. Dr. Ward Jones gave papers at the PSSA annual meeting in Pietermaritzburg (January), the Ethics Society of Southern Africa at RAU (April), an international workshop on the “Space of Reasons” at UCT (July), a workshop on “Virtue Epistemology” in Stirling, Scotland (November), and a workshop on “Judgement and Understanding” in Johannesburg (November). Dr. Samantha Vice, a Post-Doctoral Fellow, presented papers at six conferences, one of which was the prestigious annual conference of the British Society of Ethical Theory. Dr. Bamford from Durham University took up a Post-Doctoral Fellowship in July. Dr. Paul Voice (Bennington College, USA) was the Hugh le May Fellow from June to August.


Three students were awarded the MA in Philosophy, all cum laude: Heath Waller (“Moral Reform & the Desiderata of Responses to Wrongdoing”), Nikolai Viedge (“Knowing What We Can’t Believe”), Michaela Baker (“Filling in the Gap: Nietzsche’s Account of Authenticity as a Supplementary Ideal”). There were three second year MA students, nine first year MA students and one research (not coursework) MA student in 2004.

PROFESSOR M. VERMAAK
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Jones,WE

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jones,WE

Ryan,D


Vice,S
Williamson, F

OTHER PUBLICATIONS

Jones, W.E

Martin, T

Vermaak, M


Vice, S


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

i. Local Conferences (Within South Africa)

Bamford, R

Jones, W.E


Vice, S


Williamson, F

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

ii. International Conferences (Outside South Africa)

Bamford, R

Jones, W E

Martin, T

Vice, S


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

Buckland, L


Jones, W E


**DISTINGUISHED VISITORS**


### JOURNAL SUBSIDY UNITS

<table>
<thead>
<tr>
<th>PHILOSOPHY</th>
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<tr>
<td><strong>Jones, WE</strong></td>
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<tr>
<td>&quot;Pragmatic believing and its explanation&quot;. <em>Critica, Revista Hispanoamericana De Filosofia</em>. 2004. 36(108),3-36.</td>
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<tr>
<td><strong>Ryan, D</strong></td>
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<td>&quot;Doing and Allowing: Dispensing with Rights and Agency&quot;. <em>Philosophia</em>. 2004. 31(3-4),557-573.</td>
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<tr>
<td><strong>Vice, S</strong></td>
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<td><strong>Williamson, F</strong></td>
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<td>&quot;Sex, Disorder and Perversion&quot;. <em>Philosophical Papers</em>. 2004. 33(2),203-229.</td>
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PHYSICS AND ELECTRONICS

Professor Justin Jonas continued his dual role as Head of the Department of Physics & Electronics and Director of the Hartebeesthoek Radio Astronomy Observatory (HartRAO) during 2004. In addition to these two positions he is a member of the steering committee that is overseeing South Africa’s involvement in the international Square Kilometre Array (SKA) “Megascience” project. Professor Jonas represents South Africa on the International SKA Steering Committee and serves as Project Scientist/Engineer for all local SKA activities.

As part of his responsibilities at Project Scientist Professor Jonas coordinates the SKA Research and Technology Collaboration Centre, a directed research programme designed to strengthen South Africa’s competence in the scientific goals of the SKA and the advanced electronics and computing systems that the SKA will require. He is also a member of the engineering team that is designing the South African SKA Demonstrator Telescope, a new generation radio telescope that will be built over the next four years. The design effort for this telescope includes partners from Europe, the USA and Australia.

An important development in the second half of the year was the establishment of a formal link between the Department and the Hermanus Magnetic Observatory (HMO) National Facility. Dr Lee-Anne McKinnell was appointed to the scientific staff of HMO and as a Research Associate in the Department, where she is permanently located. Having close ties with both the HartRAO and HMO National Facilities provides our Department with access to cutting edge scientific instrumentation and a source of postgraduate students.

Five postgraduate students from the Department presented papers in the Astrophysics and Space Science session of the annual South African Institute of Physics conference, held at Free State University in Bloemfontein. Adrian Tiplady’s lecture on precession in radio pulsars won him the prize for the best presentation by a PhD student, and Laura Richter’s presentation on Very Long Baseline Interferometry studies of SiO masers was runner-up in the MSc student category.

Dr Makaiko Chithambo presented a paper at the 14th International conference on solid state dosimetry held at Yale University in the USA in June. He co-chaired a plenary session on Materials at the meeting. In addition to developing a dosimetry laboratory at Rhodes Dr Chithambo has been making use of facilities at the CSIR in Pretoria.

Postgraduate Students in 2005:
MSc: 4
PhD: 2

Graduation 2005 – possible graduands:
MSc: 2 (Richter & Jacobs)
PhD: 1 (Tiplady)

PROFESSOR J. JONAS
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

McKinnell,LA

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Chithambo,ML

Haggard, R

Jonas, J.L.

McKinnel, L.A

McKinnel, L.A and Poole, A.W.V

McKinnel, L.A and Poole, A.W.V

Poole, A.W.V

Poole, A.W.V and McKinnel, L.A

Poole, L.M.G

Malinga, S.B., Poole, L.M.G and Vincent, R.A. "Long term variations in the mesospheric mean flow observed at Grahamstown (South Africa) and Adelaide (Australia)". *Journal of Atmospheric and Solar-Terrestrial Physics*. 2004. 66,1745-1754.

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

i. Local Conferences (Within South Africa)

*Jacobs, L.C.*

*Manners, P.*

*McAlpine, K.*

*Oyeyemi, E.O.*
Richter, LL

Tiplady, AJ

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

ii. International Conferences (Outside South Africa)

Chithambo, ML

OVERSEAS RESEARCH OR FURTHER STUDY

McKinnell, LA

JOURNAL SUBSIDY UNITS

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<td>Chithambo, ML. &quot;Time-resolved luminescence from annealed synthetic quartz under 525 nm pulsed green light stimulation&quot;. Radiation Measurements. 2004. 38,553-555.</td>
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<td>Chithambo, ML. &quot;Concerning secondary thermoluminescence peaks in Al₂O₃&quot;. South African Journal of Science. 2004. 100,524-527.</td>
<td>1.00</td>
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<td>Haggard, R</td>
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<td>Haggard, R. &quot;Particle precipitation effects in the daytime E-region in the South Atlantic Anomaly region&quot;. South African Journal of Science. 2004. 100,527-529.</td>
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<td>Jonas, J.L</td>
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<td>McKinnell, L.A</td>
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<td>McKinnell, L.A, Friedrich, M and Steiner, R.J. &quot;A new approach to modelling the daytime lower ionosphere at auroral latitudes&quot;. Advances in Space Research. 2004. 34,1943-1948.</td>
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<td>McKinnell, L.A and Poole, A.W.V</td>
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<td>Poole, A.W.V and McKinnell, L.A</td>
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<tr>
<td>Poole, LMG</td>
<td>&quot;A simplified interferometer design for use with meteor radars&quot;</td>
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<tr>
<td>Malinga, SB, Poole, LMG and Vincent, RA</td>
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POLITICAL AND INTERNATIONAL STUDIES

Every permanent member of the department’s staff was published during the course of 2004: this was a first for the Rhodes department and, probably, for similar departments in South Africa. Another first was the appearance of articles by members of the Rhodes University department staff in three successive numbers of the local political science journal, *Politikon* – two in 2004 and one in 2003.

Dr Greg Ruiters (together with Dr David McDonald of Queens University, Canada) edited a book -- on water privatisation in Southern Africa -- that was published in London by Earthscan. Ruiters’ own chapter to this work was a study of urban water supply in the Eastern Cape. This publication has been well received both in academic literature and within the NGO community. Also issued in London was Professor Vale’s short monograph on the futures of Southern Africa.

Professor Paul Bischoff published a chapter, in New York, in the second of a series of acclaimed edited books on South African foreign policy. Dr Thabiso Hoeane contributed a chapter to a locally published collection on race and identity in South Africa – this is an area of increasing importance in the country and Dr Hoeane is making a strong contribution to its development. In the category of grey literature, Peter Vale turned a conference presentation into a chapter in a book that was issued by the Johannesburg-based Centre for Policy Studies.

Joint research between Professor Vale and, first, Dr Fluxman and, then, Dr Ruiters lead to the publication of two journal articles published in the United Kingdom in *International Relations* and *International Politics*. Both had a South African political theme: the joint Fluxman/Vale piece was an assessment of the life and work of the assassinated South African political scientist, Rick Turner. And the piece with Ruiters was a ten-year assessment of South Africa’s democracy. Dr Louise Vincent published two-gender linked pieces - both will enjoy accreditation: one in the weighty *Journal of Legislative Studies* journal and the other in *Politikon*. Peter Vale returned to his interest in critical security studies in a journal piece that was published in the journal, *International Relations*. Also accredited was Vale’s review article on post-apartheid writing in International Relations that appeared in *Politikon*. Professor Bischoff and Dr Hoeane published further pieces in local journals.

Drs Hoeane, Praeg and Vincent published book reviews in journals both at home and abroad: as did Professors Bischoff and Vale. The latter also contributed an item to a new encyclopaedia published in California.

Aside from South African conferences, members of the department staff attended conferences in Montreal, Tokyo, London, Paris, Toronto, Stockholm, and Moscow. As the year ended, Peter Vale was joined the Board of the *European Journal for International Studies*.

PROFESSOR P. VALE
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

**Bischoff, PH**


**Hoeane, T**


**Vale, PC**


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

**Bischoff, PH**

**Fluxman, AP and Vale, PC**

**Hoeane, T**

**Vale, PC**


**Vale, PC and Ruiters, GD**

**Vincent, LD**
Vincent, LD. "Quotas: Changing the way things look but not the way things are". *Journal of Legislative Studies*. 2004. 10(1), 71-96.


**OTHER PUBLICATIONS**

**Bischoff, PH**

**Hoeane, T**


Praeg, L

Ruiters, G

Vale, P.C

Vincent, L.D

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

i. Local Conferences (Within South Africa)

Fluxman, A.P

Hoeane, T

Ruiters, G

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

ii. International Conferences (Outside South Africa)

Fluxman, A.P

Hoeane, T

Praeg, L

Ruiters, G
Ruiters, M

Vale, P.C.


DISTINGUISHED VISITORS


Professor A Drainville. Laval University, Canada. To teach the Diploma course, also gave a seminar/talk. August-October 2004.


Dr L Swatuk. University of Botswana, Gabarone. To teach the Diploma course, also gave a seminar/talk. May 2004.

JOURNAL SUBSIDY UNITS

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<th>POLITICAL AND INTERNATIONAL STUDIES</th>
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<tr>
<td>Vale, P.C.</td>
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Vincent, LD. "Quotas: Changing the way things look but not the way things are". *Journal of Legislative Studies*. 2004. 10(1), 71-96.


**TOTAL FOR POLITICAL AND INTERNATIONAL STUDIES** 6.00
PSYCHOLOGY

During the 2004 academic year, the Department of Psychology saw four book chapters being published, as well as 18 full-length papers in professional journals. Regarding the book chapters and journal articles, the content areas were very diverse, ranging from traumatic brain injury in sports through to organizational development in African cultures, right-wing authoritarianism regarding prejudice amongst heterosexual males and a range of cross-cultural studies including cognitive assessments, land invasion and discourses of culture and illness.

In addition to the subsidisable publications, there were also eight publications in various formats such as on-line information sites and review articles in a wide range of publication outlets, all of which are of a high professional calibre. Nine staff members presented papers at national and international conferences during the year and there was a further presentation of five workshops at professional meetings.

One of the Department’s staff members (Mr D Painter) proceeded overseas (University of Crete, Greece) during his study leave and Professor R D Schweitzer from the Queensland University of Technology spent some time in the Department as a distinguished visitor.

Overall, given high teaching loads and very large postgraduate school commitments, the Departmental profile reflects an active research endeavour on the part of its staff members.

The Department has 27 Master’s and PhD students registered for 2005, and 12 of the 2004 cohort will be graduating this year.

PROFESSOR C. STONES
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Routledge, MHC


Shuttleworth-Edwards, AB, Border, M and Reid, I

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Appalsamy, P

Edwards, DJA

Knight, Z G

Knight, ZG

Knoetze, JJ

Painter, D


Shuttleworth-Edwards, AB


Swingler, DD


Yen, J


OTHER PUBLICATIONS

Earl-Taylor, MA, Stones, CR and Knight, ZG

Painter, D
Stones, CR and Earl-Taylor, MA


Swingler, DD

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

i. Local Conferences (Within South Africa)

Edwards, DJA

Knoetze, JJ

Steele, G

Swingler, DD

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

ii. International Conferences (Outside South Africa)

Appalsamy, P

Knight,ZG


Shuttleworth-Edwards,AB

Stones,CR


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Knoetze,J

Shuttleworth-Edwards,AB


OVERSEAS RESEARCH OR FURTHER STUDY

Painter,D

DISTINGUISHED VISITORS

### PSYCHOLOGY

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<th>Author(s)</th>
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<tr>
<td>Edwards, DJA</td>
<td>&quot;Developing evidence-based practice: The role of case-based research&quot;.</td>
<td>Professional Psychology: Research and Practice</td>
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<td>35(6)</td>
<td>589-597</td>
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<td>Knight, ZG</td>
<td>&quot;Patients' coaching behaviours, transference testing and the corrective</td>
<td>South African Journal of Psychology</td>
<td>2004</td>
<td>34(1)</td>
<td>84-100</td>
<td>1.00</td>
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<td>Van der Riet, M and Knoetze, J.J.</td>
<td>&quot;Help-Seeking Patterns in Urban and Rural Youth in Two South African</td>
<td>School Psychology International</td>
<td>2004</td>
<td>25(2)</td>
<td>223-240</td>
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<td>Painter, D and Baldwin, R.</td>
<td>&quot;They all speak your language anyway....&quot;: Language and racism in a South</td>
<td>South African Journal of Psychology</td>
<td>2004</td>
<td>34(1)</td>
<td>1-24</td>
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<td>Shuttleworth-Edwards, AB, Donnelly, MJR, Reid, I and Radloff, SE</td>
<td>&quot;A cross-cultural study with culture fair normative indications on WAIS-III Digit Symbol - Incidental Learning&quot;.</td>
<td>Journal of Clinical and Experimental Neuropsychology</td>
<td>2004</td>
<td>26(7)</td>
<td>921-932</td>
<td>0.75</td>
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<td>Willows, S, Patterson, BD and Swingler, D</td>
<td>&quot;Prevalence of and risk factors for tardive dyskinesia in a Xhosa population in the Eastern Cape of South Africa&quot;.</td>
<td>Schizophrenia Research</td>
<td>2004</td>
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RUMEP

With the introduction of the New Curriculum, staff were fully involved in the writing of the Mathematics component of the New Curriculum. RUMEP is also involved in developing resources for the introduction of Maths Literacy in 2006. In spite of their heavy commitments, RUMEP staff continued with their own research.

The Director, Ms Rose Spanneberg, completed her PhD in Mathematics Education (Curtin University, Australia) and will graduate in February 2005. She investigated the impact of the RUMEP ACE (Mathematics) course on teachers’ classroom practices. The Assistant Director, Dr Bruce Brown is in the process of completing his M.Ed in Mathematics Education (Rhodes University). Course Co-ordinator, Mr Tom Penlington submitted his M.Ed in Mathematics Education (Rhodes University) for examination and should graduate in April 2005. Facilitators Mr Thomas Haywood and Mrs Thami Tokwe are currently registered at Rhodes University for M.Ed in Mathematics Teaching. Mr Mwezeni Nela (Facilitator Maths Literacy) completed his PhD dissertation in Management and is awaiting results from the examiners (University of Port Elizabeth).

Dr Bruce Brown presented a paper at the SAARMSTE 12th Annual Meeting in January 2004. Mr Tom Penlington presented a paper at the AMESA 10th National Congress in July 2004.

DR. R. SPANNEBERG
DIRECTOR

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

i. Local Conferences (Within South Africa)

Brown, B

Penlington, T

JOURNAL SUBSIDY UNITS

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SCHOOL OF LANGUAGES

2004 was a successful year for the School of Languages, particularly in the area of conference attendance and participation. Professor François Jaques from French Studies, who was Vice President of the Association of French Studies in Southern Africa, attended and read a paper at the Association’s bi-annual conference in Stellenbosch in September. An invitation has been extended by French Studies at Rhodes to host the Association’s next conference in 2006. Dr Godfrey Meintjes from Afrikaans and Netherlandic Studies, visited the universities of Wroclaw and Warsaw in Poland where courses in Dutch and Afrikaans are offered. Ms Balelw Nosilela from African Languages presented two seminars and a lecture at the University of Duisberg-Essen in Germany. Mr Warren Snowball from Classical Studies organized a study tour of Greece in April.

Two visitors from the University of Duisberg-Essen gave lectures in the School during 2004. Professor R Baur held seminars in German Studies and Dr Micheline Baur taught students at third year and Honours level in French Studies on aspects of contemporary France. Professor Eckhart Momber, University of Kyoto, Japan conducted a seminar in German Studies and Professor J Atkinson from UCT gave lectures to students in Classical Studies.

Research papers by Professor François Jaques, Emeritus Professor Patrick Fein and Ms Undine Weber were published in the course of the year and Ms Claire Cordell submitted her doctoral thesis on the 16th Century frame novel in France.

There were no registered MA or PhD students in the School during 2004.

PROFESSOR F. JAQUES
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Fein, P L-M

Weber, U

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Jaques, F E

OTHER PUBLICATIONS

Fein, P L-M

Weber, U

JOURNAL SUBSIDY UNITS

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SOCIOLOGY AND INDUSTRIAL SOCIOLOGY

The Department of Sociology and Industrial Sociology was very active in the area of research during 2004. Eight chapters in books, two articles in accredited journals, as well as other publications.

Dr Miller participated in a panel discussion on SABC ‘Round Table’ with John Perlman on “South Africa in Africa” on 28 November 2004 (Harold Wolpe Trust, Penguin Films, Cape Town).

Staff attended 16 conferences, nationally and Internationally, the latter includes England, the DRC, Germany, Russia, Canada, USA and China.

The year started with our department celebrating Rhodes Centenary Year with an Exhibition of staff publications over the weekend of graduation and again in the June vacation.

During August 2004, Professor Hendricks and Peter Vale, organized the Academic Freedom Symposium - The Legacy of DCS Oosthuizen and the Critical Tradition Colloquium which formed part of the Rhodes Centenary celebrations.

Professor Adesina coordinated a sponsored short course programme on “Public Policy Analysis Capacity Building” for the Open Society Initiative of Southern Africa (OSISA). Participants came from Southern Africa.

The following students will graduate with Honours degrees:
601C3002 Chisaka, Janet
600E1556 Efstratiou, Andri
600F0218 Forrester, Scott
601K1115 Khama, Tamara
603M2063 Maema, Mapule
601M1683 Mamba, Sbongiseni
601M1209 Mantshule, Thembi
604M5233 Mtero, Farai
601N0777 Nyarenda, Sandra
601P2958 Pfaff, Angela
601P1793 Pringle, Jessica
601S3694 Stirling, Kim

Doctorate
Adv. Gilton Klerck completed his PhD.

PROFESSOR F. HENDRICKS
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Drewett,MD


Hendricks,FT

Ziehl, SC


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Adesina, JOT

Miller, D

OTHER PUBLICATIONS

Miller, D

Ziehl, SC

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

i. Local Conferences (Within South Africa)

Adesina, JOT


Drewett, MD

Miller, D

Sishuta, HB

Ziehl, SC

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

ii. International Conferences (Outside South Africa)

Adesina, JOT


Coetzee, JK
Coetzee, JK. "Qualitative social research with a view to policy formulation and planning in the developing world". *The State of the Art of Qualitative Social Research in Europe*. Technical University, Berlin. Germany. September 2004.

Miller, D


Ziehl, SC
CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Miller, D


DISTINGUISHED VISITORS


JOURNAL SUBSIDY UNITS

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</table>
STATISTICS

Members of the Department of Statistics in 2004 were involved in joint research with the Departments of Zoology and Entomology, Biochemistry, Microbiology and Biotechnology, Pharmacy, Ichthyology and Psychology which resulted in seven publications. Collaborative research with the Department of Zoology and Entomology and some foreign institutions in Germany included a novel solution to studying genetic variation in honeybee population based on thelytokous worker reproduction. In another paper it was shown that honeybees neither have to measure nor construct the highly regular structure of a honeycomb and that the observed pattern of combs can be parsimoniously explained by wax flowing in liquid equilibrium. In a joint research involving four different academic departments a paper was published where five candidate probiotics, isolated from the clownfish, were examined for their ability to attach to fish intestinal mucus and to compete with two pathogens.

Professor Sarah Radloff was elected as National President of SASA at the annual conference held in Bloemfontein in November 2004.

During 2004 the Department had one PhD and three MSc students. Two MSc students will graduate in 2005.

PROFESSOR I. SZYSZKOWSKI
ACTING HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS

Radloff,SE

PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Baxter,J

Radloff,SE

Hepburn,HR, Neumann,P and Radloff,SE. "Genetic variation in natural honeybee populations, Apis mellifera capensis". Naturwissenschaften. 2004. 91(9),447-450.


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

i. Local Conferences (Within South Africa)

**Radloff, SE**


Sypkens, R


**OVERSEAS RESEARCH OR FURTHER STUDY**

**Radloff, SE**


Radloff, SE. Yunnan University, Kunming, China. Collaborative Research. 3 - 10 December 2004.

**DISTINGUISHED VISITORS**


**JOURNAL SUBSIDY UNITS**

<table>
<thead>
<tr>
<th>STATISTICS</th>
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<tr>
<td>Baxter, J</td>
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<tr>
<td>Vine, NG, Leukes, WD, Kaiser, H, Daya, S, Baxter, J and Hecht, T. &quot;Competition for attachment of aquaculture candidate probiotic and pathogenic bacteria on fish intestinal mucus&quot;. <em>Journal of Fish Diseases</em>. 2004. 27(6), 319-326.</td>
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<td>Radloff, SE</td>
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<td>Hepburn, HR, Neumann, P and Radloff, SE. &quot;Genetic variation in natural honeybee populations, Apis mellifera capensis&quot;. <em>Naturwissenschaften</em>. 2004. 91(9), 447-450.</td>
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<td>Hepburn, HR and Radloff, SE. &quot;The wing coupling apparatus and the morphometric analysis of honeybee populations&quot;. <em>South African Journal of Science</em>. 2004. 100, 565-570.</td>
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<td>Rivett, K, Kruger, L and Radloff, SE. &quot;Infracyanine-assisted internal limiting membrane peeling in macular hole repair: Does it make a difference?&quot;. <em>Graefes Archive for Clinical and Experimental Ophthalmology</em>. 2004. 242, 393-396.</td>
<td>0.34</td>
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**TOTAL FOR STATISTICS** | **2.26**
This has been another highly productive year for the department, with more than 40 papers published in peer-reviewed journals. Professor William Froman produced one with 20 co-authors, which may be a new record for us. The future looks bright: currently there are 22 students registered for MSc degrees, and 15 for PhDs, with representatives from six countries outside of South Africa. A new postdoctoral fellow in Marine Biology is due soon from Canada. There is a notable skew in supervisory responsibilities, with three staff members having only one post-graduate student each, and the remaining 34 distributed among five staff members. We anticipate that six MSc students may graduate in April 2005.

Individual highlights included the award of a DSc by Manchester University to Professor Alan Hodgson, based on his published work on invertebrate reproductive structure and function. The final volume of the handbook “The Birds of Africa” appeared, to which Professor Adrian Craig had contributed the bulk of the text for the large weaver family (Ploceidae). We were well represented on the conference circuit. Professor Martin Hill co-authored several papers at the international symposium on biological control in Australia; Professor Martin Villet and Dr Doug Downie presented papers at the international entomological congress in Australia; Professor Alan Hodgson and Carol Simon presented papers at the international congress on invertebrate reproduction and development and Carol presented another paper at a conference of polychaete specialists; Professor Christopher McQuaid was the speaker at two marine biology conferences in Malaysia and Hong Kong; Professor Adrian Craig organised the scientific programme for the Pan-African Ornithological Congress in Tunisia.

International links also flourished. Professor Randall Hepburn visited Malaysia, Borneo and China in pursuit of Asian bees, and his German collaborators descended on the department en masse for several weeks. Dr Martine Hausberger from Rennes in France made two visits to the department in the course of her research on starlings with Professor Adrian Craig, and her new PhD student stayed for several weeks doing fieldwork; Professor Craig in turn visited Rennes. Carol Simon spent some research time in Wales, and Professor Alan Hodgson made a short research visit to the USA.

PROFESSOR A. CRAIG
HEAD OF DEPARTMENT

BOOKS/CHAPTERS/MONOGRAPHS


PUBLICATIONS RESEARCH JOURNALS IN ABSTRACT AND/OR FULL PAPER

Barber-James,HM

Bonnevie,BT
Bonnevie,BT. "Song and breeding observations of suburban Olive Thrushes (Turdus olivaceus olivaceus) in Grahamstown, South Africa". Ostrich. 2004. 75(3),110-117.

Bonnevie,BT, Craig,AJFK and Hulley,PE
Bonnevie,BT, Craig,AJFK and Hulley,PE. "Additional morphological characteristics of Olive Thrushes and Karoo Thrushes". Ostrich. 2004. 75(1 & 2),75-76.

Compton,SG

Craig,AJFK and Hulley,PE

Downie,DA
Downie,DA. "Phlyogeography in a galling insect, grape phylloxera, Daktulosphaira vitifoliae (Phylloxeridae) in the fragmented habitat of the Southwest USA". Journal of Biogeography. 2004. 31,1759-1768.


Ellis,JD, Richards,CS, Hepburn,HR and Elzen,PJ

Erlandsson,J and McQuaid,CD

Froneman, PW

Froneman, PW. "Food web dynamics in a temperate temporarily open/closed estuary (South Africa)". Estuarine Coastal and Shelf Science. 2004. 59,87-95.


Kemp, JOG and Froneman, PW. "Recruitment of ichthyoplankton and macrozooplankton during overtopping events into a temporarily open/closed southern African estuary". Estuarine Coastal and Shelf Science. 2004. 61,529-537.


Froneman, PW and Pakhomov, EA


Gray, DR and Hodgson, AN

Hepburn, HR

Ellis, JD, Hepburn, HR and Elzen, PJ. "Confinement of small hive beetles (Aethina tumida) by Cape honeybees (Apis mellifera capensis)". Apidologie. 2004. 35,389-396.


Hepburn,HR and Neumann,P
Hepburn,HR, Neumann,P and Radloff,SE. "Genetic variation in natural honeybee populations, Apis mellifera capensis". Naturwissenschaften. 2004. 91(9),447-450.

Hill,MP


Hill,MP and Hepburn,HR

Hulley,PE and Craig,AJKF


McQuaid,CD and Froneman,PW

Neumann,P and Hepburn,HR

Pakhomov,EA

Pakhomov,EA and Froneman,PW


Villet,MH


Wells, JD, Lunt, N and Villet, MH. "Recent African derivation of *Chrysomya putoria* from *C. chloropyga* and mitochondrial DNA paraphyly of cytochrome oxidase subunit one in blowflies of forensic importance". *Medical and Veterinary Entomology*. 2004. 18, 445-448.

**OTHER PUBLICATIONS**

Bonnevie, BT

Craig, AJFK


Villet, MH

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

(i) Local Conferences (Within South Africa)

Hill, MP
*Muller, EM, Ripley, BS, Whittington-Jones, G* and *Hill, MP*. "Biomass and photosynthetic productivity of water hyacinth *Eichhornia crassipes* as affected by nutrient supply and biocontrol by the mirid *Eccritotarsus catarrinesis*". SAAB. UKZN, Durban. January 2004.

Hodgson, AN and Villet, MH

McQuaid, CD

Villet, MH

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

ii. International Conferences (Outside South Africa)

Bonnevie, BT

Bonnevie, BT, Hulley, PE and Craig, AJFK

Craig, AJFK

Downie, DA

Hill, MP


Hill, MP and Oberholzer, IG. "The mirid Eccritotarsus catarinensis is an effective agent against water hyacinth in some areas of South Africa". Proceedings of the XIth International Symposium on Biological control of Weeds. CSIRO Entomology, Canberra. Australia. 2004. 545-547.


Hodgson,AN

Houdelier,C and Craig,AJFK

McQuaid,CD

McQuaid,CD and Froneman,PW

McQuaid,CD and Porri,F

Simon,CA


Villet,MH


CONCERTS, EXHIBITIONS, PERFORMANCES, WORKSHOPS ETC.

Craig, AJFK


OVERSEAS RESEARCH OR FURTHER STUDY

Craig, AJFK

University of Rennes, Rennes, France. Professeur invite’ and presented three seminars on his research to post-graduate students. May 2004.

Hodgson, AN


Simon, CA


DISTINGUISHED VISITORS

Professor M Hausberger. France. Collaborating on a project funded by the CNRS (France) and NRF (South Africa). February-March 2004.

JOURNAL SUBSIDY UNITS

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<tr>
<th>ZOOLOGY AND ENTOMOLOGY</th>
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<td><em>Craig, AJFK and Hulley, PE.</em> &quot;Iris coloration in passerine birds: Why be bright-eyed?&quot;. <em>South African Journal of Science</em>. 2004. 100,584-588.</td>
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<td><strong>Ellis, JD, Richards, CS, Hepburn, HR and Elzen, PJ</strong></td>
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<td><em>Ellis, JD, Delaplane, KS, Richards, CS, Hepburn, HR, Berry, JA and Elzen, PJ.</em> &quot;Hygienic behavior of Cape and European Apis mellifera (Hymenoptera: Apidae) toward Aethina tumida (Coleoptera: Nitidulidae) eggs oviposited in Sealed Bee Brood&quot;. <em>Annals of the Entomological Society of America</em>. 2004. 97(4),860-864.</td>
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<td><strong>Erlandsson, J and McQuaid, CD</strong></td>
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<td><strong>Erlandsson, J, McQuaid, CD and Kostylev, VE</strong></td>
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<td><em>Froneman, PW.</em> &quot;Zooplankton community structure and biomass in a southern African temporarily open/closed estuary&quot;. <em>Estuarine Coastal and Shelf Science</em>. 2004. 60,125-132.</td>
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<td><strong>Froneman, PW</strong></td>
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<td><em>Froneman, PW.</em> &quot;In situ feeding rates of the copepods, Pseudodiaptomus hessei and Acartia longipatella in a ...&quot;</td>
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<td>Froneman, PW and Bernard, KS</td>
<td>Trophic cascading in the Polar Frontal Zone of the Southern Ocean in austral autumn 2002</td>
<td><em>Polar Biology</em></td>
<td>2004</td>
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<td>Recruitment of ichthyoplankton and macrozooplankton during overtopping events into a temporarily open/closed southern African estuary</td>
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<td>2004</td>
<td>61</td>
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<td>Gray, DR and Hodgson, AN</td>
<td>The importance of a crevice environment to the limpet Helcion pectunculus (Patellidae)</td>
<td><em>Journal of Molluscan Studies</em></td>
<td>2004</td>
<td>70</td>
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<td>Hepburn, HR</td>
<td>&quot;Variations of biochemical parameters along a transect in the Southern Ocean, with special emphasis on volatile halogenated organic compounds&quot;</td>
<td><em>Deep-Sea Research Part II</em></td>
<td>2004</td>
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<td>Ellis, JD, Rong, IH, Hill, MP, Hepburn, HR and Elzen, PJ</td>
<td>&quot;The susceptibility of small hive beetle (Aethina tumida) pupae to fungal pathogens&quot;</td>
<td><em>American Bee Journal</em></td>
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<td>486-488</td>
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<td>Hulley, PE and Craig, AJFK</td>
<td>&quot;Timing of moult and breeding in the Cape White-eye Zosterops palidus from three different geographical regions in South Africa&quot;</td>
<td><em>Emu</em></td>
<td>2004</td>
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TOTAL FOR ZOOLOGY AND ENTOMOLOGY: 28.66