

UNIVERSITY OF CAPE TOWN

Research Report

2007



OUR MISSION

statement

OUR MISSION IS TO BE AN OUTSTANDING TEACHING AND RESEARCH UNIVERSITY, EDUCATING FOR LIFE AND ADDRESSING THE CHALLENGES FACING OUR SOCIETY.

EDUCATING FOR LIFE MEANS THAT OUR EDUCATIONAL PROCESS MUST PROVIDE:

- a foundation of skills, knowledge and versatility that will last a lifetime, despite a changing environment;
- research-based teaching and learning;
- critical enquiry in the form of the search for new knowledge and better understanding; and
- an active developmental role in our cultural, economic, political, scientific and social environment.

Addressing the challenges facing our society means that we must come to terms with our past, be cognisant of the present, and plan for the future.

IN THIS, IT IS CENTRAL TO OUR MISSION THAT WE:

- recognise our location in Africa and our historical context;
- claim our place in the international community of scholars;
- strive to transcend the legacy of apartheid in South Africa and to overcome all forms of gender and other oppressive discrimination;
- be flexible on access, active in redress, and rigorous on success;
- promote equal opportunity and the full development of human potential;
- strive for inter-disciplinary and inter-institutional collaboration and synergy; and value and promote the contribution that all our members make to realising our mission.

TO EQUIP PEOPLE WITH LIFELONG SKILLS WE MUST AND WILL:

- promote the love of learning, the skill of solving problems, and the spirit of critical enquiry and research; and
- take excellence as the benchmark for all we do.

We are committed to academic freedom, critical scholarship, rational and creative thought, and free enquiry. It is part of our mission to ensure that these ideals live; this necessarily requires a dynamic process of finding the balance between freedom and responsibility, rights and obligations, autonomy and accountability, transparency and efficiency, and permanence and transience; and of doing this through consultation and debate.

APRIL 1996

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FOREWORD

Since assuming the role of Vice-Chancellor of the University of Cape Town (UCT) in 2000, I have witnessed impressive advances in the research arena. In the past seven years, the University has earned increased international respect as a research-led university and has consolidated its position as one of Africa's leading research institutions.

Evidence of our research-led status is evident, from the steadily increasing lists of publications that make up the bulk of this report to the number of national and international awards made to UCT and its academics in the past year.

Since 2003, UCT has been the highest-ranked South African and African university, according to the Academic Ranking of World Universities (ARWU) conducted by the Institute of Higher Education at Shanghai Jiao Tong University in China. In 2007 we also earned a place in the top 200 of the respected Times Higher Education – QS World University Rankings, moving up 57 places from 2006.

UCT is now well positioned to continue to improve its research output and impact thanks to growth in all sectors of research at UCT. We have seen an increase in research income from R240 million in 2001 to R547 million in 2007. Our government subsidy for research publications increased from 563 units in 2003 to 907 units in 2006 and our postgraduate scholarships grew from R10 million in 2003 to R21 million in 2007.

Central to our programme of boosting and supporting ongoing research excellence at the University has been the Emerging Researcher Programme that offers mentoring and funding support to junior and mid-level academics. The programme has now ended its fifth year of operation and has expanded from an initial 44 participants recorded in 2003 to 262 participants at present.

I would like to extend my deepest appreciation to researchers and staff members at UCT for their support during my tenure. A special thanks to Professor Cheryl de la Rey, Deputy Vice-Chancellor, who is leaving UCT to take up the position of



CEO of the Council on Higher Education, for her leadership and management of research at UCT. I wish to thank to all donors, funders, research partners and collaborators.

UCT is now well positioned to continue to improve its research output and impact thanks to growth in all sectors of research at UCT.

We take pride in the quality and impact of the research conducted at UCT, but we could not achieve such success without the commitment, hard work and dedication of the entire university community.

Professor Njabulo S. Ndebele
Vice-Chancellor and Principal

VOORWOORD

Sedert ek in 2000 die posisie van Visekanselier van die Universiteit van Kaapstad aanvaar het, het ek indrukwekkende vordering in die navorsingsarena beleef. In die afgelope sewe jaar het die Universiteit toenemende internasionale respek as 'n navorsinggedrewe universiteit te beurt geval, en het hy sy posisie as een van Afrika se toonaangewende navorsingsinstansies verstewig.

Bewyse van ons navorsinggedrewe status blyk uit die gestadig groeiende lys van publikasies wat die grootste deel van hierdie verslag behels, asook die aantal nasionale en internasionale toekennings wat die UK en sy akademië in die afgelope jaar te beurt geval het.

Die UK is nou goed geplaas om voort te gaan om, danksy groei in alle navorsingsektore by die Universiteit, sy navorsingsuitsette en -impak te verhoog.

Volgens die *Academic Ranking of World Universities (ARWU)* wat deur die Instituut vir Hoër Onderwys by die Shanghai Jiao Tong Universiteit in China uitgevoer is, was die UK sedert 2003 die hoogste geplaas van alle Suid-Afrikaanse en Afrika-universiteite. In 2007 het ons ook 'n plek in die boonste 200 van die gerekende *Times Higher Education – QS World University Rankings* gekry, en sedert 2006 het ons plasing met 57 plekke verbeter.

Die UK is nou goed geplaas om voort te gaan om, danksy groei in alle navorsingsektore by die Universiteit, sy navorsingsuitsette en -impak te verhoog. Wat navorsingsinkomste betref, het ons 'n toename vanaf R249 miljoen in 2001 tot R547 miljoen in 2007 gesien. Ons regeringsubsidie vir navorsingspublikasies het van 563 eenhede in 2003 tot 907 eenhede in 2006 toegeneem, en ons nagraadse beurse het van R10 miljoen in 2003 tot R21 miljoen in 2007 gegroei.

Sentraal in ons program om voortdurende navorsings-uitnemendheid by die Universiteit te verstewig en te ondersteun, was ons Program vir Ontluikende Navorsers, wat mentorskap en befondsingsondersteuning aan junior- en middelvlak-akademië bied. Die program het nou sy vyfde bedryfsjaar afgesluit, en van die aanvanklike 44 deelnemers in 2003 het dit tot die huidige 262 deelnemers uitgebrei.

Ek wil graag aan navorsers en personele by die UK my diepe waardering betuig vir hul ondersteuning tydens my diensyd. Spesiale dank aan Professor Cheryl de la Rey, Adjunkvisekanselier wat die UK verlaat het om die posisie van HUB by die Hoër Onderwysraad te beklee, vir haar leierskap en bestuur van navorsing by die UK. Ek wil ook graag alle donateurs, befonders, navorsingsvennote en medewerkers bedank.

Ons is trots op die gehalte en impak van die navorsing wat by die UK onderneem word, maar sonder die betrokkenheid, harde werk en toewyding van die hele universiteitsgemeenskap sou ons nie sulke welslae kon behaal het nie.

Professor Njabulo S. Ndebele
Visekanselier en Prinsipaal

IMBULA MBETHE

Ukususela oko ndaqala umsebenzi wam wokuba nguSekela-Tshansela weYunivesithi yaseKapa ngo-2000, ndibe nokubonela imitsi ebonakalayo kwicandelo lophando. Kule minyaka isixhenxe idlulileyo iyunivesithi le izuze ukuhlonitshwa nangakumbi kwizizwe zehlabathi yaye isibethelele isidima sayo sokuba yeyona yunivesithi inkqenkeza phambili ngezophando e-Afrika.

Ubungqina bewonga lethu lokuba yeyona yunivesithi inkqenkeza phambili, libubungqina boluhlu lwamapapasho enza indikimba yale ngxelo ukuya kutsho kwinani lamawonga kazwelonke nawehlabathi afikelele eUCT kunye nenkcubabuchopho zayo kulo nyaka uphelileyo.

IUCT ngoku isendaweni entle ekuqhubekeni iphucula iziphumo zophando lwayo yaye idlulisela umbulelo wayo kukhulo kuwo onke amacandelo ophando eUCT.

Ukususela ngo-2003, iUCT yeyona yunivesithi igqwesileyo eMzantsi Afrika nase-Afrika iphela, ngokwe-*Academic Ranking of World Universities (ARWU)* ebiqhutywa yiInstitute of Higher Education eShanghai Jiao Tong University eChina. Ngowe-2007 siphinde sabalwa kuluhlu lwama-200 eeyunivesithi ezihloniphekileyo kwi-*Times Higher Education-QS World University Rankings*, sinyuka amanqwaqwa angama-57 eendawo ukusuka ngo-2006.

IUCT ngoku isendaweni entle ekuqhubekeni iphucula iziphumo zophando lwayo yaye idlulisela umbulelo wayo kukhulo kuwo onke amacandelo ophando eUCT. Sibona

ukukhula kwengeniso yophando ukusuka kuma-R240 esigidi ngo-2001 ukuya kutsho kuma-R547 esigidi ngowe-2007. Isabelo sethu semali esiphuma kurhulumente semisebenzi epapashiweyo siye sakhula ukusuka kwinani eliyi-563 yemivo ngo-2003 ukuya kuma-907 yemivo ngo-2006 yaye inkxaso yezifundo zezidanga eziphakamileyo iye yakhula nge-R10 yesigidi ngo-2003 ukuya kuma-R21 ezigidi ngo-2007.

Njengentsika kwinkqubo yokunyusa nokuxhasa impumelelo ethe gqolo kuphando kwiYunivesithi yi-Emerging Researcher Programme enika inkxaso yokutatamisa abaphandi abasakhulayo nasele bekhulile. Le nkqubo ngoku igqiba unyaka wayo wesihlanu isebenza yaye sele ikhule ukusuka kuma-44 abathathi nxaxheba ababhalisiweyo ngonyaka wama-2003 ukuza kutsho kuma-262 abathathi nxaxheba abakhoyo ngoku.

Ndingathanda ukubulela ngokungazenzisiyo kubaphandi nakumalungu abasebenzi baseUCT ngenkxaso yabo nokuthembeka kwabo ngexesha lokuphatha kwam. Umbulelo owodwa kuNjingalwazi Cheryl de la Rey, osiSandla-seSekela Tshansela, oyishiyayo iUCT ukuya kuthabatha isikhundla sobuCEO kwiCouncil on Higher Education, negegalelo alenzileyo lokubeka i-UCT kwimephu yehlabathi. Okokugqibela, kungeyo nto incinci noko, umbulelo omkhulu kubo bonke abantu abathe bafaka isandla abafana nababoneleli ngezimali, abahlulelani ngophando kunye namahlakani.

Siyazingca ngexabiso negalelo lophando olwenziwa eUCT, kodwa oko bekungenakuze kube yimpumelelo ngaphandle kokuzinikezela nokubhalisa koluntu lwalo mzi luphela.

UNjingalwazi Njabulo S. Ndebele
ISekela-Tshansela & neNqununu

INTRODUCTION

I am pleased to report that in 2007 the University of Cape Town showed considerable progress towards the institutional strategic objective of being a research-led university with international and national impact.

A number of milestones were achieved last year. Chief among these was the outcome of the second round of South African Research Chairs. UCT was awarded a further 19 Research Chairs (out of 51 nationally). Also pleasing were the results of the 2007 National Research Foundation (NRF) ratings. There were five new A-rated researchers – Professors Drucilla Cornell, Cyril O’Connor, Clifford Shearing, Dan Stein and Danie Visser – as well as an overall increase in the total number of rated researchers such that UCT now has 279 NRF-rated scholars. Moreover, the new A ratings mean that UCT now has 30 A-rated scholars, out of a national total of 71.

Total research income increased from R399.7 million in 2006 to R547.5 million in 2007. This is primarily attributed to major increases in the value and the number of research-related contracts entered into over the last two years. During 2007, UCT entered into 890 research-related contracts to the value of R496 million. Over the last few years there was a notable increase in funding from international sources, and for the first time in 2007, the value of contracts entered into with foreign entities has surpassed that of local funders.

A total number of 3,178 awards to the value of R67 million were offered to 4,737 honours, masters and doctoral students who were registered for full-time study in 2007. The NRF remains the major funder of postgraduate students at UCT. Postgraduate study and research received focused attention in 2007 with the consideration of specific developmental initiatives to improve coordination and optimise resources.

The emphasis on high quality and impact has enabled us to increase UCT’s international visibility

One of the aims of our research strategy has been to position UCT favourably in relation to national priorities and simultaneously increase the international profile of the scholarly output. The information covered in this report indicates that the strategy has been successful in meeting these objectives. It appears that UCT’s signature research themes initiative as well as the focus on research priorities has enabled us to take full advantage of new national programmes and opportunities, while the emphasis on high quality and impact has enabled us to increase UCT’s international visibility.



Three new signature themes were developed in 2007. These include: Cities in Africa, Drug Discovery and Minerals to Metals. These three new themes add to the existing initiatives in Brain-Behaviour and Marine Research that were selected as the first two themes in 2006. The three new signature themes have been recognised as Research Niche Areas (RNAs) by the NRF and two of them have been awarded Institutional Research Development Grants for 2007 under these RNAs.

Looking ahead, a key focus for further strategic development research endeavour in 2008/9 will be the opportunities arising from the Technology Innovation Agency (TIA), a new Government initiative seeking to stimulate innovation. The University will also need to continue to ensure that its framework for research development is strengthened. To this end, our Emerging Researchers Programme continues to go from strength to strength. The programme now has 262 active participants and is fulfilling a vital skills transfer role as retired academics give of their time and expertise to the next generation of researchers.

This is my final report as Deputy Vice-Chancellor at UCT as I am about to assume office as the Chief Executive Officer at the Council on Higher Education. Thank you to all researchers for your support during the past six years and especially to the staff of the Department of Research and Innovation. I also wish to thank the numerous agencies and sponsors with whom I have worked. It has been a privilege and pleasure to contribute to the research endeavours at UCT.

Best wishes for the future.

Professor Cheryl de la Rey
Deputy Vice-Chancellor

RESEARCH & innovation

DEPARTMENT OF RESEARCH AND INNOVATION

The Department of Research and Innovation consists of three cognate areas of service provision for research.

RESEARCH OFFICE

The Research Office is responsible for grants funding, research quality assurance and the management of an information system that serves multiple research-specific purposes. The Office supports research planning and policy implementation, and manages the government requirements for research subsidy. Besides contributing to academic staff development through a series of targeted interventions to enhance research capacity, the Office is responsible for a range of annual reports, international research exchange and a series of research benchmarking activities. It further drives and supports the research activities that ensue from strategic partnerships and formal agreements with research councils, research institutions and government departments.

The Framework for Research Development, described in previous reports, includes support structures that are designed to serve researchers at different levels of their research careers, and includes the Emerging Researcher Programme (ERP), which has now ended its fifth year of operation. The ERP continues to operate within a structure that combines one-on-one interaction, a seminar and retreat programme, and the support to apply for capacity-building grants. The transfer of research skills from an experienced to an inexperienced generation of researchers remains central to the programme, with a small cadre of retired academics (the 'Senior Research Scholars') providing a hands-on mentoring service. October saw the launch by UCT Press/ Juta of a book documenting the ERP. Entitled *The Emerging Researcher: Nurturing Passion, Developing Skills, Producing Output*, the book serves as a resource for both emerging researchers and those mentoring them, with relevance at UCT and at higher education institutions nationally, as well as in other parts of Africa.

The three-year Mellon Visiting Mentors Project entered its second year in 2007. Conceived as an extension of the Emerging Researcher Programme, the project aims to extend discipline-specific mentorship to a cohort of developing academics. To this

end, selected senior mentors are matched with individual staff members, postdoctoral fellows or postgraduate students to strengthen their research with a view to a career in academia. The faculties identify the 'mentees' as well as suitable high-level experts (mostly from abroad) who spend up to six months at UCT and help them achieve their goals through a series of clearly defined mentoring activities. Five scholars were selected to visit the University in the course of 2007, where the outcome of their mentoring interventions ranged from higher degree completion and debut publications to introducing a research culture in professionally orientated disciplines.

The University's 57 formally constituted research groupings are submitted to a quality assurance review once every five years. Based on a self-evaluation portfolio and a site visit, the external panellists produce a review report that informs the relevant grouping's subsequent endorsement or the development of an improvement plan. Whilst the first cycle of reviews (anticipated to be completed at the end of 2008) is formative and helps to shape each faculty's objectives in relation to the relevant groupings, the second round (to commence in 2009) will be more ambitious in scope and will assess the international competitiveness of each grouping.

Support to prepare applications for National Research Foundation rating – a national benchmarking system whereby researchers are rated in terms of their national standing – is provided by the Research Office in conjunction with senior academic staff. The Office similarly draws on senior researchers to advise on the preparation of competitive funding applications. This includes proposal development for flagship programmes such as the South African Research Chairs Initiative and international or bilateral granting opportunities. As a service department the Research Office continues to work closely with the faculties to implement selected mechanisms such as research signature themes and institutional partnerships.

Dr Marilet Sienaert
Director: Research Office

RESEARCH & innovation

RESEARCH CONTRACTS AND INTELLECTUAL PROPERTY SERVICES

Research Contracts and Intellectual Property Services (RCIPS) is responsible for co-ordinating the research contract and intellectual property activities.

The past year has again been a busy and productive year for the Office. A record 890 research contracts were approved in 2007, valued at a new high of over R490 million. This includes contracts to the value of R290 million with entities from 26 foreign countries, the remainder being from local entities.

We have revisited our technology transfer and commercialisation strategy during 2007 and have adopted a proactive approach versus the previous strategy of advocacy and information provision. The new approach pursues a more intimate working relationship between the faculties and RCIPS and relies on institutional commitment and faculty buy-in. Efforts will increasingly focus on identifying those structural arrangements and behavioural practices that will best support the achievement of successful commercialisation of the university's research.

An immediate spin-off of our new strategy was the establishment of the "Pre-Seed" Fund with support from the University Research Committee. The purpose of this fund is to bridge the funding gap that exists in the innovation chain, before other funding streams can be accessed (such as the Innovation Fund, Biotechnology Regional Innovation Centres (BRICS), Industrial Development Corporation, venture capital, etc.) or a rounded technology package can be licensed.

There is an increasing focus by government on the effective management of Intellectual Property by universities and the dissemination of research results through commercialisation. In this regard, cognisance should be taken of the Bill on Intellectual Property Rights from Publicly Financed Research. The promulgation of the Bill, which is expected to occur during the second half of 2008, will have a dramatic impact on the operations of RCIPS. However, we remain optimistic that the Bill will stimulate disclosure and raise awareness about securing inventions.

Piet Barnard

Director: Research Contracts and Intellectual Property Services

POSTGRADUATE CENTRE AND FUNDING OFFICE

The Postgraduate Centre and Funding Office are accountable to the University's Postgraduate Studies Funding Committee, which in turn reports to the Board for Graduate Studies, both of which are in the academic cluster of committees, reporting to Senate.

The Office is responsible for monitoring the postgraduate sector and the development of policies and procedures for financial and other types of support to the postgraduate sector. This includes selection of candidates for the disbursement of awards sourced from central university funds, donations and investments, as well as the administration of awards funded by the National Research Foundation and the Medical Research Council. The Office and Centre have also had interim responsibility for the provision of infrastructural and financial support to the Postgraduate Students Association (PGSA). The PGSA will in future be incorporated – as a body – into the Student Representative Council, at which time responsibility for the PGSA will revert to the Department of Student Affairs.

Linda Vranas

Director: Postgraduate Centre and Funding Office



"The Emerging Researcher: Nurturing Passion, Developing Skills, Producing Output" was published in 2007, co-authored by senior research scholar Emeritus Professor John de Gruchy and Dr Lyn Holness, manager of the Emerging Researcher Programme. The book stems from UCT's successful Emerging Researcher Programme, one that caught the attention of other institutions grappling with similar problems. The programme was launched in 2003 in response to an urgent need to build research capacity – and a new generation of researchers. The book is an account of that process and the challenges and lessons learnt. The publication was underpinned by a grant from Atlantic Philanthropies and funding from the National Research Foundation.

STRATEGIC *initiatives*

SIGNATURE THEMES FOR RESEARCH

UCT Signature Themes provide a framework for interdepartmental and interfaculty research and contribute to cultural and operational transformation on various levels. Selected to drive research in a strategic manner, they are grounded in existing areas of internationally recognised excellence whilst being aligned to institutional, regional and national priorities.

The following Signature Themes have been formally established at UCT and are recognised as Research Niche Areas (RNAs) by the National Research Foundation: Cities in Africa, Drug Discovery, Minerals to Metals, the Brain-Behaviour Initiative (BBI) and the Marine Research (MA-RE) Institute.

CITIES IN AFRICA

There is growing recognition worldwide of the importance of cities, and particularly cities in the developing world. In South Africa, this is reflected in the increasingly urban emphasis in policy documents at both national and provincial level. The sense is one of impending crisis; with the realisation that rapid urbanisation also raises issues of adequate food supply, affordable shelter, employment opportunities, water and waste management, public transportation, crime and disease, and environmental degradation and climate change. These challenges intertwine with critical social processes such

as exclusion and conflict, which require effective political management of institutions and processes. Achieving well-governed and sustainable cities is becoming increasingly important to the future health of the planet.

The Cities in Africa Signature Theme has twin objectives: Firstly, to partner closely with African policy-making centres in the public sector in order to provide an alternative perspective on dealing with critical urban issues. Secondly, to provide an intellectual base and home for interdisciplinary, urban-related research at UCT, from which relations can be established with selected international funders and think tanks.

Located in the Faculty of Engineering and the Built Environment (EBE), the Signature Theme builds on an interdisciplinary network of academics across EBE, Science and Humanities and has a DST/NRF Research Chair in Urban Policy as Director, Professor Edgar Pieterse.



STRATEGIC *initiatives*

DRUG DISCOVERY

The burgeoning burden of disease on the one hand and the huge market for leading therapeutic drugs of over \$350 billion per year on the other is driving the pursuit of new methods in synthesis and drug development and drug target identification. The need for safe, effective medicines must take into account the fierce competition in the drug-development industry, that is experiencing considerable cost pressures. A traditional drug-discovery approach is to identify a therapeutic target, link this to a specific biological mechanism, and thereby provide a focus for a discovery effort. Identification of effective or lead compounds has benefited from the advent of high-throughput screening methods that enable a large number of compounds to be screened in a relatively short time. Recent advances in the methodology of synthetic chemistry have facilitated the rapid construction of lead analogs. These lead compounds can then be subjected to a variety of substrate binding and toxicological tests to determine their efficacy as drugs.

The Drug Discovery Signature Theme aims to foster new collaborations and strengthen existing ones between UCT researchers, build enabling technological platforms to increase research capacity, provide interdisciplinary undergraduate and postgraduate training in drug-discovery to drive research and build a critical mass of future scientists, and create mechanisms for securing interdisciplinary and overarching funding.

Professor Edward Sturrock of the Institute of Infectious Disease and Molecular Medicine (IIDMM) was appointed the Director of the Signature Theme, with team member Professor Kelly Chibale being awarded a DST/NRF Research Chair in the area of Drug Discovery.

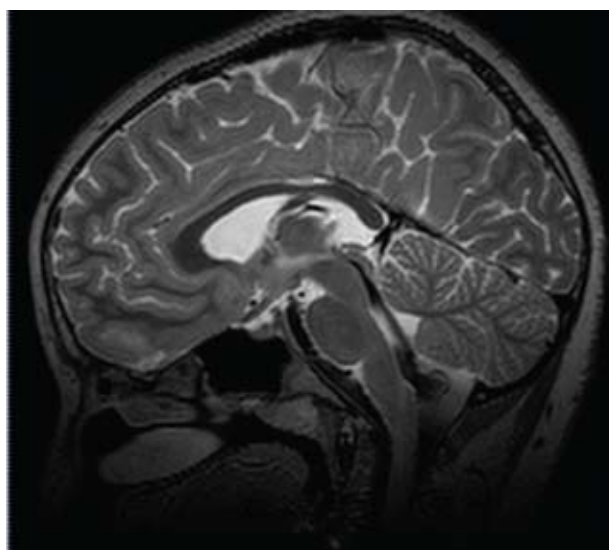
MINERALS TO METALS

South Africa's economic growth is greatly dependent on the efficiency and sustainability of its mining industry. In that regard the efficient and sustainable processing of ores in the entire beneficiation chain from 'Minerals to Metals' is of paramount importance. Worldwide there is an ever-increasing focus on ensuring that minerals are processed more efficiently, especially in the context of a much greater emphasis on three important imperatives, viz. preserving water resources, minimising power consumption and the need to beneficiate lower-grade ores in remote areas.

The main aim of this Signature Theme is to integrate, synchronise and enhance the activities of four major research units located within the Department of Chemical Engineering, all of which presently enjoy international reputations for their research in the general area of the beneficiation of minerals i.e. the complete extraction of metals, from ore to final saleable metal, in a clean and sustainable manner. These groups are the Minerals Processing Research Unit, the Bioprocess Engineering Research Unit, the Precipitation and Crystallisation Research Unit and the Environmental Process Engineering Research Unit. These units/groups are actively involved in mineral-related research at various stages of the mineral beneficiation value chain. Most are funded by the world's five large mining groups and all are funded by the major South African mining companies. The director of the Theme is Professor Cyril O'Connor. As research area, the theme is supported by two DST/NRF Research Chairs, namely Professor J-P Franzidis in Minerals Beneficiation, and Professor Sue Harrison in Bioprocess Engineering.

BRAIN BEHAVIOUR INITIATIVE

The Brain-Behaviour Initiative (BBI) is a cross-faculty, multidisciplinary, collaborative framework to promote research in the cognitive and affective neurosciences and bring together expertise on phenotyping, genotyping, cognotyping, brain imaging and molecular signatures to address brain-behaviour issues. New experimental techniques – including brain imaging, genetic testing



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and neuropsychological assessment – combined with new theoretical insights have opened up significant potential for the advancement of novel diagnostic tools and treatments for people with mental disorders. The initial focus is on trauma and resilience to help understand why some people develop conditions such as post-traumatic stress disorder or substance abuse in response to stressors.

Two researchers have been awarded DST/NRF Research Chairs in 2007 under the auspices of the BBI. Associate Professor Ernesta Meintjes occupies the Chair in Brain Imaging from 1 January. Dr Marc Combrinck was appointed Chair of Clinical Neuroscience in September.

The BBI has been instrumental in establishing two new neuroscience degrees for 2008, Master's in Medicine (Neuroscience), and Master's in Neuropsychiatry. These degrees will foster research capacity development in the area of neuroscience, and graduates will supplement the body of postgraduate researchers currently employed on BBI projects (including two postdoctoral fellows, several PhD students, and a number of master's and honours students).

Key players in the BBI are generating substantial funds that help build critical mass in this area and that include grants from the National Institutes of Health, the Medical Research Council, the University of Michigan, the Hope Depression Foundation and the National Research Foundation. A one-day symposium on the topic of "Trauma and resilience" was attended by over 130 people (including more than 30 postgraduate students), and provided an opportunity for members of the BBI to showcase their projects. The keynote speaker was Professor Jaak Panksepp of Washington State University, an internationally recognised scholar in the field of cognitive-affective neuroscience.

MARINE RESEARCH INSTITUTE

The Marine Research Institute (MA-RE) was instrumental in making successful nominations for two DST/NRF Research Chairs: Professor George Philander (Department of Oceanography) and Associate Professor Astrid Jarre (Department of Zoology). The MA-RE Institute hosted five international conferences and various seminar series and workshops in 2007, bringing together researchers from oceanography, marine biology, fisheries and conservation

groups. Formal partnerships were established with Scripps, Plymouth Marine Laboratory, National Geography Centre (Southampton, United Kingdom) and the University of Bergen, and four research contracts were concluded during this period.

At a national level MA-RE has contributed to the establishment of the Africa Centre for Climate and Earth System Science (ACCESS) and was a driving force in negotiations with the Department of Science and Technology, the National Research Foundation, the South African Weather Service, Marine and Coastal Management, the Centre for Scientific and Industrial Research and other academic research stakeholders to co-ordinate climate change, atmospheric and marine research under one umbrella. There have also been ongoing discussions with the management of the Two Oceans Aquarium about a joint research venture to develop an Antarctic Gateway.

International highlights include its membership of the Euro-Oceans network of Excellence, through which several students have benefited; representing GOOS-Africa at the launch of the DELOS underwater observatory in Scotland to be deployed at 1400m depth off the Angolan oilfields by BP-Angola; and representing IBSA-Ocean in the India-Brazil-South Africa trilateral programme.



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SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE

The 2006 report introduced the South African Research Chairs Initiative (SARChI), a brain gain and research capacity development intervention by the Department of Science and Technology that is being administered by the National Research Foundation.

The first seven Chairs awarded to UCT were Professor Erwin de Blok (Astrophysics and Space Science), Professor Daya Reddy (Computational Mechanics), Professor George Philander (Modelling of the Coupled Ocean-Land-Atmosphere Phenomena Related to Climate), Associate Professor Kevin Naidoo (Scientific Computing), Professor Iqbal Parker (Cancer Biology), Associate Professor Ernesta Meintjes (Brain Imaging) and Professor Clifford Shearing (Security and Justice). The outcomes of the second round, which were announced in September 2007, secured 19 Chairs for UCT (out of 51 Chairs awarded nationally).

PROFESSOR JONATHAN BLACKBURN APPLIED PROTEOMICS AND CHEMICAL BIOLOGY

Professor Blackburn, located in the Institute of Infectious Disease and Molecular Medicine (IIDMM) at UCT, was awarded this Chair in view of the increasing strategic importance internationally of pursuing molecular approaches to personalised medicine. He will continue his role as Director of the Centre for Proteomic and Genomic Research, a DST-funded, R20 million core technology facility located in the IIDMM, and will also play a key role in the development of a new National Functional Genomics Network.

PROFESSOR FRANK BROMBACHER IMMUNOLOGY OF INFECTIOUS DISEASES IN AFRICA

Professor Brombacher is a molecular biologist, immunologist and parasitologist, Fellow of the University of Cape Town, acting Head of the Division of Immunology, Director of a Medical Research Council Unit on Immunology of Infectious Disease and Member of the IIDMM, as well as designated programme co-ordinator on Immunology and Infectious Diseases for the International Centre for Genetic Engineering and Biotechnology. He and his team work on immunological mechanisms in health and disease and generate experimental transgenic murine models. Major diseases under investigation include tuberculosis, African trypanosomiasis (sleeping sickness), leishmaniasis, schistosomiasis (bilharzia) and, more recently, inflammatory bowel disease and pulmonary diseases, including allergic asthma.

PROFESSOR KELLY CHIBALE DRUG DISCOVERY

Professor Chibale was appointed as Chair in view of the national strategic significance of drug discovery in addressing the many challenges associated with the burden of disease in the country. He is also one of the co-directors of the UCT Signature Theme in Drug Discovery. Professor Chibale will continue with his joint appointments in the Department of Chemistry and the IIDMM. His UCT laboratory hosts the World Health Organisation Tropical Diseases Research Synthetic Medicinal Chemistry Centre.

DR MARC COMBRINCK CLINICAL NEUROSCIENCES RESEARCH

Dr Combrinck is a neurologist who trained in medicine and biochemistry at the University of Cape Town and Groote Schuur Hospital. He was a Research Fellow at the University of Oxford before returning to South Africa in 2004. His interests are dementia, neuro-inflammation and mechanisms of neuro-degeneration. He will continue this work in Cape Town using clinically-based observational studies of cognitive impairment in the elderly and in HIV-associated brain disorders.

PROFESSOR DRUCILLA CORNELL CUSTOMARY LAW, INDIGENOUS VALUES, AND DIGNITY JURISPRUDENCE

Professor Cornell joined UCT as a professor in private law in July 2007. As Chair, she will focus on developing jurisprudence adequate to the complex demands of the South African Constitution. Work under the Chair will involve ethnography in six of the nine provinces to study the on-the-ground developments of the customary law.

ASSOCIATE PROFESSOR KEERTAN DHEDA LUNG INFECTION AND IMMUNITY IN POVERTY- RELATED DISEASES

Associate Professor Dheda directs a lung-health-research programme focusing on the pulmonary immunology, pathology and physiology of four diseases (tuberculosis, HIV, pneumonia and chronic obstructive pulmonary disease), which predominantly or significantly involve the lung, and are public health priorities in South Africa. He serves as the Director of the Lung Infection and Immunity Unit within the

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Division of Pulmonology, Department of Medicine. The Unit's activities, encompassing diagnosis and control of poverty-related disease, drive disease-related strategic objectives outlined by the Medical Research Council, HIV/AIDS/STD Strategic Plan for South Africa and the National Research and Development Strategy.

PROFESSOR J-P FRANZIDIS

MINERALS BENEFICIATION

Professor J-P Franzidis was recruited to this position in the Department of Chemical Engineering from the Julius Kruttschnitt Mineral Research Centre at the University of Queensland in Australia. He aims to work together with four major established research groupings within the Department to research minerals beneficiation across the whole value chain, to address key challenges facing the minerals industry in South Africa such as improving process performance, minimizing power/water/waste and promoting cleaner production process options and technologies.

PROFESSOR CAROLYN HAMILTON

ARCHIVE AND PUBLIC CULTURE

Professor Hamilton was awarded this Chair in view of the strategic significance of the country's archival estate, the importance of its interpretation in open and critical ways and the national priority of developing social cohesion. The appointment was made in view of UCT's already significant investments and achievements across a number of disciplines, in critical archival engagements, archive curation projects and collaborations with public culture institutions, including collaborations in heritage training carried out in partnership with the University of the Western Cape.

PROFESSOR SUSAN HARRISON

BIOPROCESS ENGINEERING

Professor Harrison was appointed to strengthen her contribution to an integrated approach to optimisation and modelling of bioprocess systems and sub-processes for use in bioprocesses for economic, environmental and social benefit. The research programme centres on the establishment of generic knowledge at the molecular and metabolic, unit operation and the sustainable process levels, for benefit across specific bioprocesses. These contribute across water treatment, human health, minerals beneficiation, resource productivity and renewable resources. Professor Harrison will continue in her role as Director of the Bioprocess Engineering Research Unit.

PROFESSOR BRUCE HEWITSON

CLIMATE CHANGE

Professor Hewitson leads the Climate System Analysis Group. This is one of the largest climate research groups in Africa with a core focus on climate change, arguably one of the major long-term challenges facing the continent. The appointment strengthens this key strategic activity in its core research to increase understanding of regional implications of climate change, and to build the relevant science-society linkages. The Chair also explicitly links across scientific disciplines and the social dimension of impacts and adaptation.

ASSOCIATE PROFESSOR DAVID JACOBS

ANIMAL EVOLUTION AND SYSTEMATICS

Associate Professor Jacobs was appointed to this position as a researcher of international standing in animal evolution and systematics. Prof Jacobs' research, which combines organismal field biology with molecular approaches to address questions of evolution, is strongly aligned with the National Research and Development Strategy in terms of its specific reference to the geographical advantage for biodiversity research in South Africa.

ASSOCIATE PROFESSOR ASTRID JARRE

MARINE ECOLOGY AND FISHERIES

Associate Professor Astrid Jarre was recruited for this Chair from the National Institute of Aquatic Resources at Denmark's Technical University. The focus of her Chair is threefold: (i) Marine Ecology of the Benguela Current and comparable ecosystems, (ii) Fisheries management and conservation, and (iii) Capacity-building in South Africa and the SADC region. Having worked in well-recognised international research institutes, as well as national and intergovernmental fisheries agencies, Professor Jarre brings to UCT international experience that will make a critical contribution to the management of human activities in marine ecosystems under climate change. Her Chair is established as part of the MA-RE Institute (one of the UCT Signature Themes), and has very strong ties with Marine and Coastal Management. Furthermore, Professor Jarre's focus on interdisciplinary natural and social research will be a cornerstone in developing an ecosystem approach to fisheries, as required by South African National Policy.

PROFESSOR MURRAY LEIBBRANDT

POVERTY AND INEQUALITY RESEARCH

There is widespread recognition of the importance of ensuring that South Africa's growth processes embrace the

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poor and those in the bottom half of the income distribution. The appointment of Professor Murray Leibbrandt, Director of the Southern African Labour and Development Research Unit (SALDRU), facilitates a sustained programme of research to measure and analyse South Africa's unfolding poverty and inequality dynamics. For the last thirty years, SALDRU has been conducting large social surveys to generate the data needed to inform such analysis of poverty and inequality. An ambitious programme of new data gathering, with a particular emphasis on longitudinal data, will underpin the work of Prof. Leibbrandt and his team.

PROFESSOR DI MCINTYRE HEALTH AND WEALTH IN SOUTH AFRICA

Professor McIntyre was appointed to this position in view of the strategic significance of health economics. Her research contributes to identifying ways of improving the health status of South Africans (both through equitable economic development and through health-system improvements) as well as providing important insights into how economic growth in South Africa can be strengthened through population health status improvements.

PROFESSOR RAJEND MESTHRIE MIGRATION, LANGUAGE AND SOCIAL CHANGE

Professor Mesthrie was awarded this Chair in view of the significance of Sociolinguistics in understanding heritage, culture and social change in a multilingual society. The chief focus of the Chair will be on migration, language and social change, examining sociolinguistic practices "from below" in relation to the fostering of multilingualism, the further intellectualisation of local languages and the continuing prestige of English. Professor Mesthrie will continue as Head of the Linguistics Section of the Department of English Language and Literature and as President of the Linguistics Society of Southern Africa.

PROFESSOR LUNGISILE NTSEBEZA LAND REFORM AND DEMOCRACY IN SOUTH AFRICA: STATE AND CIVIL SOCIETY DYNAMICS

Professor Ntsebeza is Principal Researcher in a major partnership initiative with the Human Sciences Research Council that focuses on the Land Reform programme in South Africa with specific reference to the lands rights of rural women. This initiative will be used as a base to develop and highlight the importance of conducting research on the land question, a topic that is often marginalised in South Africa.

PROFESSOR EDGAR PIETERSE URBAN POLICY

Professor Edgar Pieterse was appointed to drive the establishment of a new interdisciplinary research centre on the sustainability challenges associated with differential patterns of urbanisation in the global south, especially in Africa. This work seeks to respond to the globally recognised challenges of deepening urban inequality associated with urban-anchored processes of economic globalisation. The work forms a central part of UCT's Signature Theme 'Cities in Africa'.

PROFESSOR ABDULKADER TAYOB ISLAM, AFRICAN PUBLICS AND RELIGIOUS VALUES

Professor Tayob's appointment to this position in the Humanities Faculty strengthens the study of Islam in Africa. He will draw on his considerable international experience, most recently as named Chair at the Dutch-based International Institute for the Study of Islam in the Modern World from 2002 to 2006, to develop a community of researchers in this field. The research will enhance South Africa's capacity in international relations with regard to national, regional and global Islamic developments.

PROFESSOR ANNA-LISE WILLIAMSON VACCINOLOGY

Professor Williamson is on the joint staff of the National Health Laboratory Service and UCT and is a founding member of the IIDMM. Her major research interests are human papillomavirus and HIV/AIDS vaccine development. She has headed a large multidisciplinary research group making candidate HIV vaccines since 2000. The first two vaccines are due to enter clinical trials in 2008.



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PROGRESS ON CENTRES OF EXCELLENCE

Since 2004 the University of Cape Town has hosted two out of the six Centres of Excellence awarded nationwide by the Department of Science and Technology through the National Research Foundation.

The aim of these centres is to act as nodes for research and development in fields identified as strategically important to South Africa. The centres hosted at UCT include members from universities around South Africa. They enjoy significant student involvement and serve as important research training sites for postgraduate students.

DST-NRF CENTRE OF EXCELLENCE IN CATALYSIS, C*CHANGE

The technical scope of c*change is now exceeding the capacity originally anticipated in the Centre of Excellence Proposal of 2004 in terms of the number of postgraduate students (now 45 compared to a minimum target of 30), further comprising five postdoctoral researchers, and nominally 22 academics from 14 research groupings in 10 participating South African higher education institutions. Three institutions were active in the Syngas Programme, four institutions were active in the Paraffin and Small Volume Chemicals Programmes respectively and five institutions were active in the RSA Olefin Programme. A total of 18 projects were funded during the course of 2007, of which nine were multiinstitutional and/or interdisciplinary projects. Several joint venture postgraduate student-training initiatives were undertaken to forge closer ties in collaborative projects. Working relationships between the host institution and the participating institutions as well as between the participating institutions themselves continue to strengthen as evidenced by a significant growth in scientific collaboration, with half of all projects now being multi-institutional ones.

In meeting its goal in terms of the development of its Scientific Programmes and the targets set by the NRF, c*change supported some 45 postgraduate students (of whom 78% were South African, with 44% and 60% of the South African student target being female and black respectively) and five postdoctoral fellows. A total of 11 publications, three published conference proceedings and 35 unpublished conference contributions form part of the specific 2007 c*change-related research output of the participating catalysis community, which exceeds targets set by the NRF.

In terms of the non-scientific key performance areas (KPA), policies and guidelines in respect of both the Knowledge

Brokerage and Service Rendering KPA have successfully been implemented in 2007. c*change held its third annual Symposium in November 2007 in Richards Bay, an occasion which brought together academic, postdoctoral and postgraduate researchers to report on the technical output of the Scientific Programmes. This has now become a well-established event in the c*change calendar. Moreover, the year 2007 also saw several initiatives to establish international collaboration/interaction, including a Royal Society Chemistry-NRF-funded workshop with members of c*change and study leaders from several UK universities.

Professor Jack Fletcher relinquished the c*change directorship in the light of his additional commitments with effect from 1 January 2008, and Associate Professor Michael Claeys has been appointed as new director.

DST/NRF CENTRE OF EXCELLENCE AT THE PERCY FITZPATRICK INSTITUTE, "BIRDS AS KEYS TO BIODIVERSITY CONSERVATION"

The Centre of Excellence at the Percy FitzPatrick Institute undertakes scientific studies involving birds that contributes to the theory and practice affecting the maintenance of biological diversity and the sustained use of biological resources. The Centre continued to increase the number and quality of its scientific publications, with 70 peer-reviewed papers published in Science Citation



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Index (SCI) rated journals in 2007, including 14 in journals with a SCI impact factor rating of at least 3.5. Three books, 21 technical reports and 50 semi-popular articles were also published. The Centre supported 8 postdoctoral fellows, 18 PhD, 34 MSc, and 6 BSc honours students. Three Centre members received awards during 2007. Dr Andrew McKechnie (Wits) was awarded a prestigious President's Award rating by the NRF for his research in the field of ecological physiology. Professor Graeme Cumming (UCT), the Pola Pasvolsky Chair in Conservation Biology, received (1) the Meiring Naudé Medal from the Royal Society of South Africa for scientific excellence exhibited by a scientist under the age of 35 and (2) a UCT Fellow's Award as an academic under the age of 40 who has made significant independent contributions to research in his research fields of landscape ecology and spatial parasitology and epidemiology. Professor Timothy Crowe was awarded a UCT Fellowship for original and distinguished academic work in his research field on the taxonomy, phylogeny and biogeography of game birds. After guiding the formation of the Centre so successfully, Professor Morné du Plessis (Director) left the Centre in August to take up the position of CEO of the World Wide Fund for Nature (WWF) South Africa. Professor Phil Hockey will lead activities as interim director until the appointment of a new director in the course of 2008.

CENTRE FOR HIGH PERFORMANCE COMPUTING

The Centre for High Performance Computing (CHPC) is a national joint initiative funded by the Department of Science and Technology and co-managed by UCT and the Meraka Institute of the Centre for Scientific and Industrial Research. Under the supervision of the CHPC executive, which includes Dr Happy Sithole (interim director), Professor Daya Reddy (interim Head of Research) and Dr Khomotso Kganyago (Technical Operations Manager), the Centre has made significant progress in the 2007-2008 financial year. The building plan for Phase II of the CHPC refurbishment was completed and the refurbishment process will commence from May 2008 in order to accommodate the Phase II CHPC computational resource as well as the IBM Blue Gene donation. A Request for Proposals for the Phase II CHPC computational resource was circulated for open tender and the procurement progress is currently on track.

In December 2007, the CHPC hosted its annual National Meeting in the Cape Town International Convention Centre,

which attracted the participation and support of more than 250 researchers, students and vendors. Three peer-reviewed publications in noteworthy international journals as well as numerous conference proceeding papers were published by the existing three Flagship Projects. In an attempt to stimulate the innovation aspect of computational research in South Africa, while emphasising human capital development within the field, a call for project proposals commenced at the end of September 2007. Four Flagship Projects and two Consortium Projects were approved for financial and technical support. These projects cover a wide range of scientific domains and encompass multiple research organisations and tertiary educational institutions. Four UCT staff members are involved in the projects.

Four Research Scientists have been appointed to support the communities whilst establishing their own research records of accomplishment. They are Dr Kevin Colville (computational mathematics and software engineering), Dr Daniel Moeketsi (computational physics and outreach), Mrs Mary-Jane Kgate (computational meteorology and natural earth science) and Mr Sebastiaan Wyngaard (computational graphics and virtual reality). Together they have hosted four workshops and two scientific training courses. With the implementation of the Advanced Computer Engineering Laboratory, Professor Michael Inggs has accepted a joint appointment between CHPC and UCT. Six postgraduate students have been recruited to investigate topics such as Field Programmable Gate Array, Cell Computing, Hypertransport and other advanced computational fabrics.

Official visits were made by the CHPC staff to international high performance computing partners including the NCSA (US), ESC (Japan), NCHC (Taiwan), EPCC (UK) and HPCx (UK). Numerous collaborative projects and staff exchange programmes will be implemented in the upcoming financial year. It is expected that in the same financial year the CHPC will also focus on similar collaborations with India, Brazil and other African countries.

AFRICA EARTH OBSERVATORY NETWORK

The Africa Earth Observatory Network (AEON) is a centre for Earth Systems Science that provides a research and educational environment for consilience between earth and life sciences, engineering, resource economics and the

human sciences. AEON is developing Earth Stewardship as a science and cultivates cutting-edge globally competitive research and analytical learning, using advanced tools and technologies. The purpose is to promote an interdisciplinary view and exploration of our Earth, and society, particularly in Africa. An AEON science advisory group comprises 18 members spread across four continents, five South African universities and industry.

Over the last two years, AEON has taken delivery of and commissioned three of the four state-of-the-art instruments purchased through a R25 million grant from the Innovation Fund. The fourth instrument was delivered at the end of 2007, but for lack of adequate space has not yet been installed. Two AEON scientific research officers, funded through the Faculty of Science, were appointed to run two of the instruments – the only ones of their kind in Africa. One of these will be used to age-date geological materials. Significant groups of academic and industry professionals have been keenly waiting for this new national and African facility to materialise, and AEON has started to host the first visiting researchers using these instruments. Fundraising for a new AEON building is ongoing. Lonmin Plc has donated R7 million towards this R30 million project. Meetings with companies and foundations in South Africa, the UK and Europe are in the pipeline and AEON hopes to reach its fundraising target in the course of 2008.

Forty articles were published in international peer-reviewed journals during 2007, bringing the total number of peer-reviewed publications by AEON researchers to 52. Nine MSc and PhD students and two postdoctoral researchers work as a core AEON-group at UCT and the University of Fort Hare. This group has now solidified a robust integration between geology and biology with a prime focus to understand the



PRESIDENT MBEKI UNVEILS ICGEB CAPE TOWN COMPONENT

On 10 September 2007, President Thabo Mbeki officially opened the third component of the International Centre for Genetic Engineering and Biotechnology (ICGEB), which will be based in UCT's Faculty of Health Sciences. Joining its sister components in Trieste, Italy, and New Delhi, India, the Cape Town component will be part of one of the most powerful international facilities for scientific research and training in bioscience. The ICGEB is an autonomous organisation operating within the United Nations framework.



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paleo-ecodynamics and evolution of south-central Africa and Madagascar. AEON has started a Report Series aimed at bridging a gap between its research and the wider community and has appointed its first outreach officer, based at the University of the Free State, to focus on training of high school teachers in earth, rock and mineral systems, and to develop new training tools.

AEON formally twinned with the GeoforschungsZentrum (GFZ) in Potsdam, Germany's national Helmholtz centre for geosciences research (earth and environment). The GFZ has pledged to second 3 to 4 senior postdoctoral researchers to work at AEON for a 5-year period and help with technical developments. It is anticipated that these posts will be taken up in 2008/2009. In 2007, AEON established Earth Stewardship Science fellowships for African nationals and/or permanent residents in African countries with funding of R3 million per year through the John Ellerman Foundation, the Eranda Foundation, and Lonmin Plc. AEON will appoint its first postdoctoral and senior fellows in 2008.

AEON continues to lead the German-RSA multidisciplinary 'Inkaba yeAfrica' (IyeA) project. The first 5-year phase of this project was successfully concluded at the end of 2007. A special issue of the South African Journal of Geology was published in time for the fifth joint scientific workshop in KwaZulu-Natal. This volume comprises 23 joint papers, with contributions from 14 students, five of whom are first authors. A second 5-year science plan, to start in 2008, was submitted to the respective governments for a €20 million total investment. IyeA is now well recognised globally as a role-model research programme linking first and third-world research communities to train a new generation of multidisciplinary geoscientists. At the end of 2007, a similar France-RSA collaborative project, named !Khure Africa, was initiated. This 3-year, R15 million project is co-ordinated by AEON and the world-class French Institute Physique du Globe in Paris (IPGP), and aims to incorporate up to 20 graduate students. Both IyeA & !Khure Africa are financed through bilateral funding and have the support of the DST and the NRF. These two projects act as 'blueprints' for plans to further twin AEON formally with other world-class institutions, for which competitive interest is growing. The concepts of a third AEON project, 'African Corridors', will be presented at the Africa launch of the International Year of Planet Earth (2008) in Arusha, Tanzania. This project will form the backbone of AEON's Pan African science and cultural collaborations and networking.

INSTITUTE OF INFECTIOUS DISEASE AND MOLECULAR MEDICINE (IIDMM)

The IIDMM has maintained its position as one of the premier centres of research excellence in South Africa. The research output of the members, including publications and research grant income, increased significantly compared to the previous year.

Members of the IIDMM secured five of the DST/NRF Research Chairs awarded to UCT in the past two rounds. The recipients are Professors Jonathan Blackburn, Frank Brombacher, Kelly Chibale, Iqbal Parker and Anna-Lise Williamson. In addition, a number of emerging research scientists in the IIDMM have received prestigious awards from international funding agencies, including the Wellcome Trust (UK) and the National Institutes of Health (USA).

One of the highlights of the year was the official opening on 10 September of the third component of the International Centre for Genetic Engineering and Biotechnology (ICGEB) by President Thabo Mbeki. This African component of the ICGEB is hosted in UCT's Faculty of Health Sciences. Together with its older sister components in Trieste, Italy, and New Delhi, India, it operates as an influential international facility for scientific research and training in the biosciences.

A number of Institute members are actively involved in translational research, which ensures that discoveries are taken from our laboratories and applied to our communities. Of particular significance is a HIV vaccine developed at UCT by the South African AIDS Vaccine Initiative, under the leadership of Prof Anna-Lise Williamson, and approved by the USA Food and Drug Administration for testing in humans. These trials are due to start in 2008 in the USA and South Africa.



BENCHMARKING *of uct's research*

The University's benchmarking practice is informed by internationally accepted indicators such as the number and quality of peer-reviewed journal articles and books, the success rate and quality of postgraduate students, the income generated through agency funding (quality is a significant criterion in their evaluation procedures), the income generated through contracts, and the international standing of our researchers (NRF rating).

RESEARCH FUNDING

The main sources of research funding are awards made by national funding agencies, contracts with external constituencies and awards made internal to the institution by the University Research Committee. The figures reported in the sections below are primarily for new awards, and do not necessarily include income received or accrued for the reporting period.

NATIONAL AGENCY FUNDING

The NRF continues to be a major source of funding for UCT researchers. At the end of 2007, UCT had a total of 352 NRF grantholders across a variety of funding categories, holding 584 grants with a cumulative value in excess of R107 million. The annual Focus Area awards was the main funding programme from the NRF, having allowed researchers to apply for comprehensive 'block' grants to cover most aspects of required funding such as student bursaries, equipment, running expenses, etc. Because this programme is in the process of being phased out, awards made under the last

call for applications (in 2007) were made for a period of up to four years, with UCT being awarded a total amount of R32,285,542.

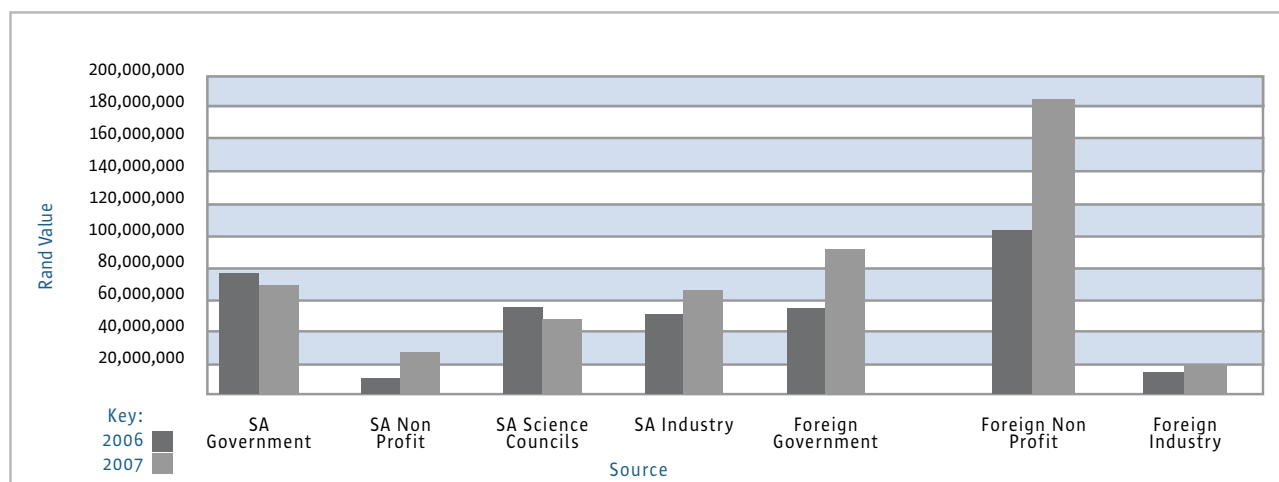
The Thuthuka Programme is a capacity-building programme of the NRF through which young, black and women researchers are supported in a funding partnership between the institution and the NRF. The number of participants in the Thuthuka Programme has trebled in the period from 2004 to 2007 (12 to 47), with funding over the past year remaining relatively consistent, reflecting a small increase from R3,180,000 (2006) to R3,358,000 (2007).

The Technology and Human Resources for Industry Programme (THRIP) is managed by the NRF on behalf of the Department of Trade and Industry (dti). It is a partnership programme which challenges industry to match government funding for innovative research and development in South Africa. Although the number of projects supported by the THRIP Programme decreased from the previous year's 49 to 40 in 2007, funding from THRIP for 2007 increased by 40% to R20,225,942. In addition to this, the industry contributions for 2007 also increased from R19,728,336 (2006) to R31,301,264.



BENCHMARKING *of uct's research*

Figure 1: Value of approved contracts and source of funding: 2006 vs 2007



UCT researchers continue to take advantage of the funding opportunities provided by the NRF's International Science Co-operation (ISC) programme, which aims to forge and maintain strategic and intellectual alliances between individuals, institutions and organisations in research communities nationally and internationally, in order to support the international competitiveness of South Africa. In addition to multiyear funding opportunities, researchers have also been able to access funding through once-off ISC awards via the NRF's various bilateral agreements. In 2007, UCT's ISC awards had a value in excess of R21,250,908, as compared to the previous year's total of R13,847,000.

UCT also receives funding for individual projects, as well as for ten research units, groups and centres, from the Medical Research Council (MRC). The MRC aims to improve the nation's health and quality of life through promoting and conducting relevant and responsive health research. Funding received in 2007 increased by 27% over the previous year, to R11,540,896. This is in addition to the individual research contracts signed between the two institutions.

RESEARCH CONTRACTS

Externally funded research through formal contracts forms an integral part of the University's research endeavour. In the context of this report 'contracts' can be any of the following: Memoranda of Understanding, Collaboration Agreements, Consortium Agreements, Service Agreements, Consultancy Agreements, Grants (e.g. European Commission, National Institutes of Health), Tenders, Material Transfer Agreements and Confidentiality Agreements.

In 2007 the Research Contracts and Intellectual Property Services Office processed a record 844 contracts to the value of R496.7 million, an increase of 40% on the 2006 figure of R354 million. These contracts vary from short-term contracts of under R10 000 to multiyear contracts with multimillion rand budgets and involve a variety of local and foreign clients as shown in Figure 1.

Contracts to the value of R69.21 million were entered into with South African governmental entities during 2007, while South African Science Councils and National Research Centres accounted for R43.6 million worth of income. Contracts to the value of R21.1 million and R68.4 million were respectively concluded with South African non-profit entities and South African companies. At an international level, 250



BENCHMARKING *of uct's research*

contracts to the value of R289.9 million (vs R165.85 million in 2006) were entered into with entities from 26 countries over this period. The major source of foreign funding is the USA (R133.53 million), followed by the United Kingdom (R101.18 million), The Netherlands (R8.3 million), Australia (R6.1 million), Germany (R5.2 million), Canada (R5.1 million), France (R4.1 million) and Switzerland (R3.6 million).

The National Institutes of Health was the most prominent American funder of research contracts to the value of R72.5 million (vs R31.8 million in 2006) which were, directly or indirectly (through collaboration with USA universities), entered into in 2007. Other major sponsors from the USA were Aeras Global TB Vaccine Foundation (R31.6 million in 2007 vs R19.1 million in 2006) and the Population Council (R8.9 million in 2007 vs R11.35 million in 2006).

The major United Kingdom contributor was the Department for International Development, with whom a contract to the value of R47.3 million was signed. A contract to the value of R20.9 million was entered into with the University of Oxford as partner in the European Union's European and Developing Countries Clinical Trials Partnership (EDCTP) programme. The contribution from the Wellcome Trust was R10.1 million (vs R7.9 million in 2006).

UNIVERSITY RESEARCH COMMITTEE

The various University Research Committee (URC) award processes resulted in the allocation of a total of R18,978,362 via the Faculty block grant allocation, conference travel grants, awards to host conferences and visiting scholars, research development awards and grants to purchase new research equipment.

POSTGRADUATE FUNDING AND RESEARCH

Funding for postgraduate study and research is derived from several different sources. In 2007 3, 178 awards to a total value of R66,606,296 were offered to 4, 737 honours, master's and doctoral students who were registered for full-time study. The main categories of award are highlighted below.

The **NRF** continues to be a major funder of postgraduate students at UCT. In 2007, 740 bursaries and scholarships were offered to postgraduate students at UCT, to a total value of R21,634,380. By comparison in 2006, 659 bursaries and scholarships were awarded to a total value of R18,214,680.

The **MRC** provides support for master's and doctoral students who are studying in areas of the Health Sciences. In 2007, 22 awards to a total value of R685,000 were taken up by UCT students. The MRC and the NRF target the same student market for awards and, where students apply for and are offered both, they accept the NRF awards, owing to their higher value.

UCT Research Scholarships. In 2007, 215 UCT Research Scholarships were awarded to a total value of R841,000. These scholarships vary in value and are awarded to honours, master's and doctoral students who are eligible but unsuccessful in their applications to the MRC and the NRF.

The UCT Research Associateship awards are made annually to recognise excellence among master's and doctoral student researchers. Each year a limited number of high-value awards are made. In addition, the Associateships include a monetary contribution to the successful candidate's research costs. In 2007, 21 master's and doctoral students received awards to a total of R637,000 for their work in the following areas of research: Human Biology, Pharmacology, Drama, English, Film and Media Studies, Music, Religious Studies, Commercial Law, Mathematics and Applied Mathematics, and Molecular and Cell Biology.

Conference Travel. Master's and doctoral students and postdoctoral researchers are encouraged to attend conferences to present their work. In 2007, 60 postgraduate students and 10 postdoctoral researchers were awarded totals of R391,600 and R46,850 respectively towards the cost of travelling to local and international conferences.



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Scholarships for International Travel. In addition to the above, 12 master's and doctoral students successfully applied for UCT Scholarships for international travel, which enabled them to spend periods from 2 to 10 months at approved institutions abroad. These awards were made to a total value of R378,857.

The S2A3 Bronze Medal, donated by the South African Association for the Advancement of Science, together with a monetary prize of R15,000 from UCT, was awarded to MSc student Ms Serah Wangari Kimani from the Department of Molecular and Cellular Biology for her thesis entitled *The crystal structure of an aliphatic amidase from Geobacillus pallidus RAPc8i*.

The UCT Equity Development Programme was established to support increased participation rates by students from designated groups. The Programme currently consists of 8 separate fellowships sourced from donated funds, and provided support to 90 master's and doctoral students from designated groups, to a total of R4,172,215. Funds for the UCT Equity Fellowships Programme are sourced from the University's General Operating Budget and, in 2007, 104 awards were made to a total of R1,324,495.

The UCT/CSIR Scholarship Programme. The University of Cape Town and the CSIR entered into a collaborative partnership in 2003. Included in various initiatives is the UCT/CSIR Scholarship Programme. In 2007, Information and Communication Technologies, Environmental Technologies, Natural and Physical Sciences, Materials Science and Engineering were identified by the CSIR as preferred areas of study for the Scholarship Programme. Nine students received awards to a total value of R560,000.

The Commonwealth Scholarships Programme. In 2007, 10 candidates were shortlisted for Commonwealth Scholarships, 5 of whom received offers of Scholarships to register for master's and doctoral degrees at various institutions in the UK, to study in areas of Chemistry, Immunology, Synthetic and Mechanistic Chemistry, and Economics.

The Rhodes Scholarships. Five of UCT's top master's and doctoral students were awarded prestigious Rhodes Scholarships in the following areas of study to enable them to take up their studies at Oxford University in the UK: Astrophysics, English, Economics, Integrative Bioscience and Theoretical Physics.

PRESTIGIOUS FELLOWSHIPS AND SEMINAR PROGRAMMES

UCT has a number of prestigious fellowships that offer full-cost support and provide additional funds to cover research and conference-travel costs. These fellowships are further distinguished by the requirement that fellows plan and present a seminar based on their research-work. The seminar programmes afford students the opportunity to present their work outside of their departments and, in some cases, to contribute to scholarly debate about issues that are socially relevant.

These programmes include:

- **The David and Elaine Potter Charitable Trust Fellowships** provide full-cost fellowships to excellent master's and doctoral students who intend to contribute to civil society in South Africa by leveraging their educational advantage in any discipline. Each student is required to plan and organise one seminar per degree. In 2007, 11 awards were made (including continuing students) to a total value of R750,000.
- **The Harry Crossley Research Fellowships** are full-cost and are available to South African students for full-time study in any research-related degree, with the exception of students whose studies are in the areas of Politics or Religion. The fellowships are granted on the basis of academic merit and financial need to students proceeding to the honours, master's and doctoral degrees. In 2007, 19 students received Harry Crossley Research Fellowships (including continuing students) to a total value of R1,121,500. The Harry Crossley Foundation is one of UCT's most generous and long-standing donors. In addition to the Fellowship Programme, the Foundation provides further support to postgraduate students in the form of need-based bursaries, for research in Health Sciences and for the supply and maintenance of equipment in the Postgraduate Centre.
- **The Thabo Mbeki Leadership in Africa Scholarship Programme.** This Scholarship programme is intended to support master's students who aspire to leadership on the continent of Africa and who intend to become outstanding African leaders. Candidates for these awards must indicate their intended contribution to society and show attributes including courage, honesty, entrepreneurship and social consciousness. Evidence of social responsibility and leadership roles in academic, community and/or civic life is also required. In 2007, 7 students were supported by the Thabo Mbeki LiA Scholarship Programme to a total value of R470,000.

- **The Stephen Bantu Biko Leadership Fellowships** have been established to nurture and develop individuals from South Africa and the continent of Africa who differentiate themselves as “makers of history” and who encapsulate the essence of Steve Biko. The programme seeks to develop highly-qualified locally-trained postgraduate teachers, researchers, government and social leaders who will register at the University of Cape Town for full-time study in the Gender Studies, Economics, Politics, Philosophy, Health Sciences, Governance and related disciplines. In 2007, the Fellowship programme supported six honours, master’s and doctoral students to a total value of R365, 000.

Two new categories of honours award were created in 2007, in line with the institutional priority of increasing the proportion of postgraduate students relative to undergraduates for the period 2007 to 2010. To assist the University in achieving this objective, the **Claude Leon Foundation** donated funds to significantly augment the University’s own resources. The University was able to provide 48 merit awards valued at R12,000 each, 58 need-based awards valued at R20,000 each to financially needy honours students and 26 awards to students proceeding from a 4th year Bachelor degree to the master’s degree. A total of 132 awards were made to a combined value of R1,901,000.

POSTGRADUATE FUNDING SUMMARY TABLES

Table 1: Number of honours, master’s and doctoral students registered and awards made in 2007 per faculty

FACULTY	NUMBER OF STUDENTS REGISTERED	NUMBER OF AWARDS MADE
Commerce	745	157
Engineering & the Built Environment	787	534
Health Sciences	958	579
Humanities	1133	778
Law	232	57
Science	882	1073
Total	4737	3178



Prof Heini Dirr, the Research Chair for Structural Biology in South Africa (right) and Electron Microscope Unit director Prof Trevor Sewell (left) with researchers Robert Ndoria, Jason van Rooyen and Serah Kimani.

Three Electron Microscope Unit (EMU) postgraduate students working on atriumvirate of structural biology notched up an exceptional achievement in 2007: their work appeared on the front covers of three respected journals.

PhD student Jason van Rooyen’s research on a type III glutamine synthetase enzyme was selected for the cover of the *Journal of Molecular Biology*, whilst Robert Ndoria’s paper was published in the *FEBS Journal* (April issue). Mr Ndoria is pursuing high-resolution studies by cryo-electron microscopy and X-ray structure analysis of various mutants of the *Rhodococcus rhodochrous* nitrilase. PhD student in the Department of Molecular and Cell Biology, and based at the EMU, Ms Kimani’s paper was published in *Biological Crystallography*. It describes her determination of the crystal structure of the amidase enzyme from *Geobacillus pallidus* RAPc8 thermophilic bacteria. Ms Kimani was also the 2007 recipient of the S2A3 Bronze Medal, donated by the South African Association for the Advancement of Science.

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Table 2: Source of funds for honours, master's and doctoral students

SOURCE OF FUNDS	NUMBER OF AWARDS MADE	VALUE
Research Councils (NRF and MRC)	762	R22,319,380
University Central Funds (GOB)	636	R7,206,885
Income from Donated Funds	543	R11,668,220
Income from University Investments	587	R6,119,157
Income from Departmental Funds	650	R19,292,653
Total	3178	R66,606,295

Table 3: Postdoctoral fellowships by faculty

FACULTY	NUMBERS OF REGISTERED POSTDOCTORAL RESEARCHERS	NUMBER OF AWARDS MADE	VALUE OF AWARD MADE
Commerce	1	1	R20,000
Engineering & the Built Environment	19	23	R1,913,700
Health Sciences	48	61	R8,171,150
Humanities	8	10	R806,500
Law	1	1	R120,000
Science	79	101	R8,184,197
Total	156	197	R19,215,547

POSTDOCTORAL FELLOWSHIPS

The University is continually seeking support to host postdoctoral researchers. In 2007, 197 postdoctoral fellowships were awarded to 156 postdoctoral researchers, to a total value of R19,215,547. Support for postdoctoral research is sourced from the NRF, the MRC, the URC, income from departmental funds, donations and investments. The majority of support for postdoctoral researchers comes from departmental funds. Departmental and donated funds are sourced from corporations and industry, as well as from trusts and foundations. One such Foundation is the Claude Leon Foundation, which contributed R1,382,180 in support of 14 postdoctoral researchers in 2007.



Table 4: Source of funds for postdoctoral fellowships

SOURCE OF FUNDS	NUMBER OF AWARDS MADE	VALUE OF AWARDS MADE
Research Councils: NRF and MRC	58	R3,695,017
University funds	18	R1,650,000
Donated funds	20	R2,002,180
Departmental funds	99	R11,798,350
Investments	2	R70,000
Total	197	R19,215,547

BENCHMARKING *of UCT's research*

NRF EVALUATION AND RATING OF RESEARCHERS

The National Research Foundation's cyclical evaluation and rating of individual researchers provides a benchmark of excellence in terms of international impact and standing. The rating application is based primarily on the quality of the research output in the recent past and is undertaken by national and international peers who are requested to critically scrutinise the completed research. In February 2007, UCT submitted 28 applications for new ratings and 61 applications for re-evaluation to the NRF. The latter included the first re-evaluation cycle for applications submitted in 2002 from the humanities, social sciences and law disciplines.

Five new A-ratings were awarded to UCT during this cycle, bringing the total in this category to 30, out of some 65 A-rated researchers nationally. These were awarded to Professor Cyril O'Connor (Chemical Engineering), Professor Drucilla Cornell (Private Law), Professor Clifford Shearing (Centre of Criminology), Professor Dan Stein (Psychiatry and Mental Health) and Professor Danie Visser (Private Law). Professor Cornell is UCT's first woman to receive an A-rating from the NRF. In addition to these new A-ratings, six applicants retained their A-ratings on re-evaluation: Professor Igor Barashenkov (Mathematics and Applied Mathematics), Professor John de Gruchy (Religious Studies), Professor Gerd Gäde (Zoology), Professor Johann Lutjeharms (Oceanography), Professor Lionel Opie (Medicine) and Distinguished Professor Philippe-Joseph Salazar (Rhetoric Studies). The prestigious NRF President's Award (P-rating) was made to Dr Lindsey Gillson (Botany).

Table 5: Summary of NRF-rated researchers at UCT

	RATING CATEGORIES						TOTAL
	A	B	C	P	Y	L	
2005	21	86	121	7	17	3	255
2006	24	86	133	7	22	3	275
2007	30	87	130	5	26	1	279

DESCRIPTIONS OF NRF RATING CATEGORIES

A - World leaders renowned for the high quality and impact of their research.

B - Researchers with considerable international stature.

C - Established researchers who produce research of an international standard.

P - Young researchers (normally younger than 35 years of age) who obtained their doctoral degrees not more than 5 years ago and who, on the basis on exceptional performance, are recognised internationally as having the potential to become future leaders in their field.

Y - Younger researchers (normally younger than 35 years of age) who obtained their doctoral degrees not more than 5 years ago and who, on the basis of their performance, are recognised as showing promise of establishing themselves as researchers within a 5-year period after evaluation.

L - Academics (normally younger than 55 years) who have demonstrated potential or ability as researchers in the past, and who now can show promise of being able to establish or re-establish themselves as researchers within a 5-year period after submission of evaluation documents.

BENCHMARKING *of uct's research*

NRF-RATED RESEARCHERS AT UCT DURING 2007

Newly rated researchers from the 2007 cycle are listed in bold text.

Abratt, RPA
Abratt, VR
Ackermann, RR
Adhikari, M
Alexander, MG
Alexeeva, N
Allie, MS
Altwegg, R
Ansoorge, IJ
Armitage, NP
Auerswald, L
Barashenkov, IV
Barr, GDI
Beighton, PH
Bennett, TW
Bhorat, HI
Bickford-Smith, JV
Blackburn, JM
Blake, EH
Bolton, JJ
Bond, WJ
Bosch, AN
Bourne, SA
Bowen, PA
Bradshaw, DJ
Branch, GM
Brandt, WF
Brattka, V
Breen, CJ
Britton, DT
Brombacher, FH
Bronner, GN
Brown, ITJ
Brown, GD
Bruyns, PV
Buffler, A
Burgers, W
Burman, SB
Burton, SG
Butler, AM
Butterworth, DS
Caira, MR
Cameron, RG
Case, J
Chakraborty, A
Chan, A
Chibale, K
Chidester, DS
Chinsamy-Turan, A
Claeys, MC
Cleymans, JWA
Cochrane, JR
Collins, M
Combrinck, MI
Compton, JS
Comrie, CM
Cooper, BL
Corder, HM
Cornell, D
Cornille, JL
Coyne, VE
Cramer, MD
Crankshaw, O
Crowe, TM
Cumming, G
Dalvie, MA
Dandara, C
De Gruchy, JW
De Jager, K
De Jager, G
De Villiers, M
De Wit, MJ
Deglon, DA
Denny, LA
Dheda, K
Dominguez, CA
Douglas, TS
Driver, KA
Du Plessis, MA
Dunsby, PKS
Eckardt, FD
Edwards, LJ
Egan, TJ
Ekama, GA
Ellis, GFR
Ensor, P
Farrant, JM
Fearick, RW
February, EC
Fedderke, JW
Field, JG
Firer, C
Flanagan, CA
Fraser, DM
Gade, G
Gain, J
Gammon, DW
Gillson, L
Glazewski, JJ
Gobodo-Madikizela, P
Goedecke, JH
Govan, V
Greenberg, LJHL
Griffiths, CL
Guo, R
Haines, LM
Hapgood, J
Harley, EH
Harris, C
Harris, MC
Harrison, STL
Hart, M
Haerting, M
Hedderson, TAJ
Hellaby, CW
Herman, R
Hewitson, BC
Hockey, PAR
Hoffman, MT
Horwitz, FM
Hunter, R
Hutton, AT
Illing, N
Inggs, SC
Jackson, GE
Jacobs, M
Jacobs, DS
Janelidze, G
Jeebhay, M
Jelsma, J
Joubert, AR
Kalla, AA
Kalula, ER
Kaminer, D
Kidson, S
Klatzow, PJL
Klump, HH
Knutsen, RD
Koelble, TA
Kraan-Korteweg, RC
Kritzinger, PS
Kunzi, H-P A
Lambert, MI
Lang, DM
Lang, CI
Langerman, FS
Laugksch, RC
Le Roex, AP
Lecour, S
Leibbrandt, M
Lewis, AE
Lindsey, G
London, L
Lopata, AL
Louw, J
Low, I
Lutjeharms, JRE
Maartens, G
Mall, AS
Marais, AD
Marco, H
Marsden, G
Martin, DP
Mattes, RB
Mayosi, BN
McIntosh, DB
McIntyre, D
Meadows, ME
Meintjes, EM
Meissner, P
Mesthrie, R
Meyers, PR
Midgley, JJ
Moller, KP
Moloney, CL
Morris, AG
Moss, JR
Moyo, P
Muasya, M
Muller, JP
Myers, TG
Naidoo, KJ
Nassimbeni, MC
Nassimbeni, LR

Nasson, WR
 Noakes, TD
 Novitzky, N
 Nurick, GN
 O'Connor, CT
 Ojuka, E
 Oldfield, SE
 Opie, LH
 O'Riain, MJ
 O'Ryan, C
 Parker, MI
 Parkington, JE
 Parnell, SM
 Passmore, J-A
 Perez, SM
Petersen, J
 Picker, MD
 Pillay, P
Pillay, TS
 Plagányi-Lloyd, E
 Powell, MS
 Prinsloo, MH
 Ramutsindela, MF
 Ravenscroft, N
 Rayner, BL
 Reason, C
 Reddy, BD
 Reid, SJ
 Richardson, SH
 Rochford, K
 Rodgers, AL
 Rogers, J
 Root, DS
 Ross, F
 Ross, DA
 Rouault, M
 Roychoudhury, A
 Russell, VA
 Ryan, PG
 Rybicki, EP
 Salazar, Ph-J
 Saunders, CC
 Saxby, CA
 Sayers, AT
 Schalkwyk, DJ
 Schwikkard, PJ
 Sealy, JC
 Segal, H

Sewell, BT
 Shain, M
Shearing, C
 Shillington, FA
 Simmons, RE
 Solms, ML
 Stein, D
 Stewart, TJ
 Steyn, M
 Sturrock, ED
Suleman, H
 Swingler, GH
 Tait, RB
 Tapson, JC
Tayob, AI
 Thiart, C
 Thomson, JA
 Tredoux, CG
 Turpie, JK
 Uliana, EO
 Underhill, LG
 Van As, AB
 Van der Merwe, NJ
 Van der Merwe, CN
 Van der Spuy, ZM
 Van Sittert, L
 Van Steen, EWJ
 Vaughan, CL
 Verboom, GA
 Vilakazi, ZZ
 Viollier, RD
 Visser, DP
 Von Blottnitz, H
 Waldron, HN
Wardle, D
 Watson, VJ
 Wentzel, MC
 Whitelock, PA
 Williamson, A-L
 Williamson, C
Winkler, H
 Woolard, ID
 Worden, NA
 Woudt, PA
 Younge, JGF
 Zar, HJ
 Zingoni, A



DR LINDSEY GILLSON, RECIPIENT OF THE NRF PRESIDENT'S AWARD

Dr Gillson's research focuses on vegetation dynamics, and how landscapes change over time. She uses fossil pollen, charcoal and other environmental archives to reconstruct vegetation and fire history and the ecological processes that cause vegetation change. She uses these data to address questions of conservation and ecosystem management such as: What determines spatial and temporal variation in tree abundance? Can habitat degradation be distinguished from background variability? What are the critical climatic thresholds and disturbances at which ecosystems undergo rapid change? And at what point should managers intervene? Her current projects are in the Kruger National Park, the Hluhluwe-iMfolozi Park and central Tanzania, and she is also supervising postgraduate research in the Cederberg Wilderness Area and the littoral Forests of Madagascar.

FACULTY OF ENGINEERING & THE BUILT ENVIRONMENT

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ARCHITECTURE, PLANNING AND GEOMATICS
CHEMICAL ENGINEERING
CIVIL ENGINEERING
CONSTRUCTION ECONOMICS AND MANAGEMENT
ELECTRICAL ENGINEERING
MECHANICAL ENGINEERING



DEAN'S *report*

The faculty prides itself on its research activities, which have grown significantly over the last number of years. The research income of the faculty has grown from ± R20 million in 1999 to ±R80 million in 2007 – an annual after-inflation growth rate of about 12%. During this period, staff numbers increased minimally from 98 to 110. To continue producing quality research at this rate to funders who expect delivery ‘on time’ as well represents a major challenge to our academics and research officers.

A significant growth in student numbers continues to place enormous pressure on the physical resources of the faculty for both its teaching and research activities. To sustain and grow our contributions to national research and development remains a major challenge, particularly in critical areas such as power engineering, mineral, chemical and petrochemical processing, bioprocessing, water treatment, concrete and structural engineering, energy, fuels, materials, telecommunications, manufacturing, urban development and the management of cities, procurement policies, transport studies, and infrastructure and facilities management.

The faculty is well positioned to contribute significantly to the country by virtue of the current and planned focus of its research activities.

Noteworthy research achievements in the faculty during the past year include the following: A research team led by Professor Jack Fletcher won the Best Research Collaboration Award from the Technology and Human Resource for Industry Programme (THRIP) for their “substantial and sustained” team work and collaboration with industrial and commercial partners. Professor Sue Harrison from the Department of Chemical Engineering received the DST Distinguished Woman Scientist Award and was also awarded a DST/NRF Research Chair in Bioprocess Engineering. Two further SARCHI Research Chairs were awarded to Professors Edgar Pieterse (Urban Policy) and J-P Franzidis (Minerals Beneficiation). Professor Pragasen Pillay of the Department of Electrical Engineering received the TW Kambule Award for senior black researcher over the past five to 10 years, awarded by the National Science and Technology Form. Finally, Professor Mark Dry from the Department of Chemical Engineering received an honorary doctorate from the University in recognition of his outstanding international reputation as a world leader in the area of synthetic fuel production.



The Centre for Transport Studies was established as a multidisciplinary research and postgraduate teaching body with significant funding from the South African Rail Commuter Corporation (formerly Metro Rail) and the Department of Transport and Public Works (Western Cape).

The African Centre for Cities (Cities in Africa project) continues to grow and attract significant interest and funding from the corporate and public sector. As a research signature theme it serves as a platform for interdisciplinary research on urban issues – both theoretical and applied – across the University.

The Department of Science and Technology awarded R30 million over five years to the Department of Chemical Engineering to establish a Catalysis Competence Centre, a virtual hub that will develop advanced hydrogen and fuel-cell technologies in South Africa.

The faculty is facing some exciting opportunities in terms of its research strategy for the next 10 years. The remarkable growth in the country's economy, coupled with related challenges as most dramatically illustrated recently by the energy supply crisis, represents a broad set of ongoing and exciting opportunities. The faculty is well positioned to contribute significantly to the country by virtue of the current and planned focus of its research activities. Moreover, its researchers are ready and more than competent to respond to these challenges.

Professor Cyril O'Connor
Dean of Engineering & the Built Environment

RESEARCH

groupings

BIOPROCESS ENGINEERING RESEARCH UNIT

The Department of Chemical Engineering has been known for its interest in bioprocess engineering for over 3 decades. The Bioprocess Engineering Research Unit (BERU), constituted in 2001, formalised this research focus and its role in the development of human capacity in this field. BERU aims to underpin the growth and exploitation of the biological sciences in South Africa through a national centre of expertise in bioprocess engineering through maintaining a balance between research centred on the fundamental understanding of biological processes at the mechanistic level, the interaction of these processes with their environment and the application of biological principles to bioprocesses of economic, social and environmental importance. The multidisciplinary team brings together expertise in reactor studies, process modelling, biokinetics, microbial metabolism, biocatalysis, micro- and molecular biology and hydrometallurgy to develop detailed understanding of bioprocess systems. Our key foci include biominerals engineering for the extraction of metals as well as the prevention and remediation of metal-rich effluents, bio-transformation for value addition, bioprocess optimisation through reactor modelling, mass transfer optimisation, product liberation and recovery and bioprocess integration. Application of life-cycle assessment tools to bioprocesses is used to nurture sustainable process development. Current areas of application include heap bioleaching of base metals, bioconversion of hydrocarbons, biofuels, energy and value addition from waste, bioresource productivity diagnostic and synthetic enzymes.

Director: Professor S.T.L. Harrison

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BLAST IMPACT AND SURVIVABILITY RESEARCH UNIT

The Department of Mechanical Engineering has been involved in impact dynamics for over 25 years. In particular, research has focused on experimental and computational techniques to provide solutions for blast and structural impact scenarios. The Blast Impact and Survivability Research Unit (BISRU) has developed experimental facilities, which include a blast chamber, a selection of drop testers, material characterisation systems, and a sled tester for impact biomechanics. This collection of equipment is unique in that no other university laboratory worldwide has this full suite of facilities in one area. The research activities are aimed at promoting

the study and understanding of impact dynamics through projects at senior undergraduate level and master's, doctoral and postdoctoral levels. The research objectives are to reduce the risk of injuries and save lives through fundamental principles of science and engineering using experimental, analytical and computational tools and techniques to understand the mechanics and dynamics of blast and impact loads. BISRU currently has several international interactions through collaborative projects with universities in Australia, Argentina, Europe, and the USA.

Director: Professor G. Nurick

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CENTRE FOR CATALYSIS RESEARCH

The Centre for Catalysis Research concerns itself with both fundamental and applied research and development in the general field of heterogeneous catalysis - encompassing all of catalyst synthesis, physico-chemical characterisation and performance evaluation for industrially interesting chemical conversions. The principal fields of investigation include Fischer-Tropsch synthesis, zeolite/acid catalysis (especially as applied to hydrocracking and the transformation of phenols and derivatives) and catalysis by platinum group metals and gold. In addition, the Centre for Catalysis Research is the host laboratory for the DST-NRF Centre of Excellence in Catalysis (c*change) and the recently announced DST Competence Centre in Hydrogen and Fuel Cell Catalysis.

Director: Professor J.C.Q. Fletcher

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CENTRE FOR MATERIALS ENGINEERING

The Centre for Materials Engineering strives to educate and train students in techniques and fundamentals in the broad field of Materials Engineering. It also seeks to serve a wide range of engineering activities, giving advice concerning material processing, properties and performance whilst maintaining an international profile for its research. The research activities of the Centre are aimed at addressing national needs in terms of both the provision of technological solutions and the development of skilled graduates.

Director: Associate Professor R.D. Knutsen

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Web: <http://www.uct.ac.za/departments/materials/index.php>

RESEARCH

groupings

CENTRE FOR MINERALS RESEARCH

The Centre for Minerals Research is a multidisciplinary, interdepartmental research centre based in the Department of Chemical Engineering. The focus of research is on the processes of froth flotation and comminution, arguably two of the most important unit operations in mineral beneficiation. Inefficiencies in these processes translate into both an enormous loss of revenue and an unnecessary waste of the world's valuable and steadily declining mineral reserves. The Centre enjoys excellent international collaborations with all of the world's leading mining companies.

Director: Professor C.T. O'Connor

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Web: <http://www.cmr.uct.ac.za/>

CENTRE FOR RESEARCH IN COMPUTATIONAL AND APPLIED MECHANICS

The Centre for Research in Computational and Applied Mechanics (CERECAM) provides a coherent focus and point of interaction at UCT for research in mechanics by promoting and supporting fundamental research, applied research, and industrial interaction in computational mechanics and associated disciplines. Its activities are multidisciplinary, and its membership is drawn from four engineering departments, applied mathematics, and physics. The research interests of the Centre involve the broad field of non-linear problems in solid, structural and fluid mechanics, with a particular emphasis on the application and development of the finite element method. There is a strong emphasis on postgraduate training, at the master's and doctoral levels. The South African Research Chair in Computational Mechanics, occupied by Professor B.D. Reddy, is located within CERECAM.

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CENTRE FOR RESEARCH IN ENGINEERING EDUCATION

The Centre for Research in Engineering Education (CREE) focuses on research in engineering education that informs the development of the learning environment and the educational process, in order to improve student learning and success. CREE has established itself as the leading player in the promotion of engineering education research and development in South Africa and one of the leading such units in the world.

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CRYSTALLISATION AND PRECIPITATION UNIT

Industrial crystallisation research was initiated in the Department of Chemical Engineering in 2000 and the Crystallisation and Precipitation Unit was formally accredited in 2006. Although industrial applications of crystallisation and precipitation have a long history and precipitation has been studied scientifically since the 1930s, understanding of this operation is still very limited. In this context, the main aim of the Unit is to advance existing fundamental knowledge in the fields of crystallisation and precipitation, especially related to the South African and international mineral processing and extractive metallurgy industries. Particular interests of the research group are modelling and simulation approaches to industrial research, such as the particle rate process approach for modelling of industrial crystallisation processes, aqueous chemistry modelling and computational fluid dynamics modelling. All of these modelling techniques are aimed at deepening the understanding of these chemically complex, multiphase processes. The ultimate objective of furthering this scientific understanding is to optimise and control industrial crystallisation and precipitation processes, including treatment of effluent streams. A particular interest of the research unit is the modelling and treatment of hypersaline brines. The Research Unit is also involved in the development and presentation of various continuing professional education courses. These courses satisfy the interest in and demand for skills in this area from both an industrial and an academic standpoint.

Director: Professor Alison Lewis

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ENERGY RESEARCH CENTRE

The Energy Research Centre (ERC) is the result of the logical merger of activities of the Energy Research Institute and the Energy Development Research Centre. The staff of the ERC have qualifications in engineering, natural and environmental sciences, urban and regional planning, economics, law, politics, sociology and anthropology. The multidisciplinary ERC conducts high-quality, targeted and relevant research as well as offering postgraduate opportunities at master's and PhD levels.

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DOCTORAL graduations

P.S. BARENDSE (ELECTRICAL ENGINEERING)

The application of advanced signal processing techniques to the condition monitoring of electrical machine drive systems
Supervised by Professor P. Pillay

N. BATUNGI (ARCHITECTURE, PLANNING AND GEOMATICS)

Land reform in Uganda: Harmonising the land tenure systems of Uganda, 1900-2003
Supervised by Professor H. Ruther

D. BONORCHIS (MECHANICAL ENGINEERING)

Analysis and simulation of welded plates subjected to blast loading
Supervised by Professor G.N. Nurick and Professor B. Tait

J.L. BROADHURST (CHEMICAL ENGINEERING)

Generalised strategy for predicting environmental characteristics of solid mineral wastes – a focus on copper
Supervised by Professor J. Petrie and Dr H. von Blottnitz

E. BURDUKOVA (CHEMICAL ENGINEERING)

Surface properties of New York talc as a function of pH, polymer adsorption and electrolyte concentration
Supervised by Associate Professor D. Bradshaw and Professor J.S. Laskowski

N.T.L. CHIGORIMBO-MUREFU (CHEMICAL ENGINEERING)

Production of bio-active compounds from ferulic acid using biocatalysis
Supervised by Professor S. Burton

B.I. COLLIER-REED (CHEMICAL ENGINEERING)

Pupils' experiences of technology. Exploring the nature of technology and technological literacy
Supervised by Associate Professor J. Case and Professor C. Linder

G.R. FORBES (CHEMICAL ENGINEERING)

Texture and bubble size measurements for modelling concentrate grade in flotation froth systems
Supervised by Professor G. de Jager and Associate Professor D. Bradshaw

K.A. FORBES (ELECTRICAL ENGINEERING)

Calibration, recognition, and shape from silhouettes of stones
Supervised by Dr F. Nicolls and Professor G. de Jager

A.W. GRUTTER (MECHANICAL ENGINEERING)

A multi-case investigation into the effectiveness of shop floor improvement teams at South African manufacturers
Supervised by Associate Professor T. Ryan

D. JOHNSON (ELECTRICAL ENGINEERING)

Design considerations and implementation of an electro-mechanical battery system
Supervised by Professor P. Pillay and Mr M. Malengret

S.W. MUMENYA (MECHANICAL ENGINEERING)

Evaluation of mechanical properties of textile concrete subjected to different environmental exposures
Supervised by Professor B. Tait and Professor M. Alexander

S.W. NCANANA (CHEMICAL ENGINEERING)

Biocatalytic studies of phenol oxidases producing anti-oxidants
Supervised by Professor S. Burton

A.J.H. NEWELL (CHEMICAL ENGINEERING)

An evaluation of sulfidisation in the flotation recovery of heavily oxidised sulfide minerals - with particular reference to oxidised Merensky ores
Supervised by Associate Professor D. Bradshaw and Professor P. Harris

C.J. NISSING (CHEMICAL ENGINEERING)

Creative deployment of technology in urban planning for sustainable energy use and supply in a South North comparison
Supervised by Dr H. von Blottnitz and Professor J. Heil

S. NXUMALO (MECHANICAL ENGINEERING)

The PT8V ordering transformation in PT 11 AT. % V
Supervised by Associate Professor C.I. Lang

B.A. PRENZLOW (ELECTRICAL ENGINEERING)

Ultrasonic spectroscopy of liquid filled piezoelectric tube
Supervised by Professor J. Tapson

G.E. SEARBY (CHEMICAL ENGINEERING)

An investigation of the kinetics of thermophilic microbial ferrous iron oxidation in continuous culture
Supervised by Emeritus Professor G.S. Hansford

N.J. SHACKLETON (CHEMICAL ENGINEERING)

Surface characterisation and flotation behaviour of the platinum and palladium arsenide, telluride and sulphide mineral species
Supervised by Professor C.T. O'Connor

M. THEOBALD (MECHANICAL ENGINEERING)

Blast loading of sandwich panels with thin-walled tube cores
Supervised by Professor G.N. Nurick

D. WEI (ELECTRICAL ENGINEERING)

Clustering Algorithm for sensor networks and mobile ad hoc networks to improve energy efficiency
Supervised by Professor H. Chan

C.A. WELKER (CHEMICAL ENGINEERING)

Ruthenium based Fischer-Tropsch synthesis on crystallites and clusters of different sizes - from "Nano" to "Angstrom"
Supervised by Associate Professor M. Claeys, Professor J. Moss and Professor E.W.J. van Steen

PATENTS

GARCIN, C.J. AND BURTON, S.G. *Isolation of Antioxidants from Wastewaters*. National Patent Application South Africa, 2007/07721.

KHAN, I. AND CRONJE, W.M. *Casting Method and Apparatus*. National Phase Patent Application China, 200580029468.2.

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KHAN, I. AND CRONJE, W.M. *Casting Method and Apparatus*. National Phase Patent Application Japan, 2007-529013.

KHAN, I. AND CRONJE, W.M. *Casting Method and Apparatus*. National Phase Patent Application South Africa, 2007/01821.

KHAN, I. AND CRONJE, W.M. *Casting Method and Apparatus*. National Phase Patent Application United States, No. pending.

MCEWAN, A., HOLDER, D., VAN SCHAICK, A. AND TAPSON, J. *Code-Division Multiplexed Electrical Impedance Tomography System (CDM-EIT)*. Provisional Patent Application United Kingdom, 0723045.1.

NEWELL, A.J.H. AND BRADSHAW, D.J. *The Application of Sulfidisation for the Recovery of Oxidised and Surface Oxidised Base and Precious Metal Minerals*. PCT Patent Application, PCT/IB2007/054603.

NXUMALO, S. AND LANG, C.I. *Hardening of Metal Alloys*. National Phase Patent Application United States, No. pending.

NXUMALO, S. AND LANG, C.I. *Hardening of Metal Alloys*. National Phase Patent Application Europe, 05782474.0.

NXUMALO, S. AND LANG, C.I. *Hardening of Metal Alloys*. National Phase Patent Application South Africa, 2007/03477.

RESEARCH

output

SCHOOL OF ARCHITECTURE, PLANNING AND GEOMATICS

CHAPTERS IN BOOKS

COETZER, N.R. 2007. Between birds' nests and manor houses: Edwardian Cape Town and the political nature of building materials. In K.L. Thomas (ed.), *Material Matters*, pp. 189-198. Oxford: Routledge. ISBN 978-0-415-36326-6.

LOW, I. 2007. The first continent Sub-Saharan Africa, an identity into question. In *Atlas Global Architecture*, pp. 170-181. Spain: Fundacion BBVA. ISBN 978-84-96515-52-9.

WATSON, V.J. 2007. Engaging with difference: Understanding the limits of multiculturalism in planning in the South African context. In N. Murray, N. Shepherd and M. Hall (eds), *Desire Lines: Space, Memory and Identity in the Post-Apartheid City*, pp. 67-79. Great Britain: Routledge, Taylor and Francis Ltd. ISBN 978-0-415-70131-0.

WATSON, V. 2007. Urban planning and twenty-first century cities: Can it meet the challenge? In A.M. Garland, M. Massoumi and B.A. Ruble (eds), *Global Urban Poverty: Setting the Agenda*, pp. 205-237. Washington, D.C.: Woodrow Wilson School Public & Int Affairs. ISBN 1-933549-30-0.

ARTICLES IN PEER-REVIEWED JOURNALS

COETZER, N.R. 2007. A common heritage / an appropriated history: The Cape Dutch preservation and revival movement as nation and empire builder. *South African Journal of Art History*, 22(2): 150-178.

COETZER, N.R. 2007. Archilab: Refining the House. *Architecture South Africa: Journal of the South African Institute of Architects*, July/August: 046-050.

COETZER, N.R. 2007. Open to excellent prospects. *Architecture South Africa: Journal of the South African Institute of Architects*, September/October: 020-023.

COETZER, N.R. 2007. The Good Architect is a Mad Masai Scientist. *Architecture South Africa: Journal of the South African Institute of Architects*, July/August: 086-089.

COMBRINK, A., MERRY, C.L., BOS, M.S., FERNANDES, R. AND COMBRINCK, W.L. 2007. On the importance of proper noise modelling for long-term precipitable water vapour trend estimations. *South African Journal of Geology*, 110(2/3): 211-218.

LE GRANGE, L.P. 2007. Conversation and development: The case of District Six. *Architecture South Africa: Journal of the South African Institute of Architects*, March/April: 058-061.

LOW, I. 2007. A time for critical reflection? Bo-Kaap, Cape Town House's on Ella Street. *Architecture South Africa: Journal of the South African Institute of Architects*, September/October: 054-057.

LOW, I. 2007. La Biennale Di Venezia 10. *Architecture South Africa: Journal of the South African Institute of Architects*, March/April: 012-015.

LOW, I. 2007. Luigi Snozzi - An architect in search of place. *Architecture South Africa: Journal of the South African Institute of Architects*, May/June: 010-011.

MERRY, C.L. 2007. Evaluation of global geopotential models in determining the quasi-geoid for Southern Africa. *Survey Review*, 39(305): 180-192.

NOERO, M.F.J. 2007. The Sophia Gray Memorial Lecture: The Expedient and the Ethical, the Everyday and the Extraordinary. *Architecture South Africa: Journal of the South African Institute of Architects*, November/December: 008-035.

PIETERSE, E.A. 2007. For the city yet to come: Changing African life in four cities. *Politique Africaine*, 1: 189-203.

PIETERSE, E.A. 2007. Tracing the 'integration' thread in the South African urban development policy tapestry. *Urban Forum*, 18(1): 1-30.

STEENKAMP, A. 2007. Apartheid to democracy: Representation and politics in the Voortrekker Monument and Red Location Museum. *Architectural Research Quarterly (ARQ)*, 10(3/4): 249-254.

STEENKAMP, A., TODESCHINI, F., COOKE, J., RAMAN, P.J. AND KRUGER, M. 2007. Architecture and urban design. *Architecture South Africa: Journal of the South African Institute of Architects*, November/December: 038-043.

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TODESCHINI, F. 2007. Beyond the historic development and the Apartheid destruction of District Six: Some planning and design considerations reflecting on events in a longstanding conflict landscape in Cape Town, South Africa. *Proceedings of the International Conference on Conservation and Management of Landscape in Conflict Regions*, 29 November – 1 December, Birzeit, Palestine. Birzeit: Birzeit University. ISBN 978-9950-8500-2-6.

ARTISTIC WORKS

DEWAR, D. AND LOUW, P. 2007. *Architecture South Africa Urban Design Award of Merit*, An Urban Design Framework for Elim, Western Cape. Commissioned by Architecture South Africa Urban Design.



ENVIRONMENTAL LIFE CYCLE AWARD

Kevin Harding, from the Department of Chemical Engineering, received the Environmental Life Cycle award from the United Nations Environment Programme for the pioneering new research he is involved in to measure the environmental impact of sugar production in South Africa. The award recognises work from academics and private companies in developing and emerging economies who have started visionary and innovative projects based on the "cradle to cradle" or "life cycle approach". Kevin is doing his PhD under the supervision of Professor Sue Harrison and Dr Harro von Blottnitz.

RESEARCH

output

DEWAR, D. AND LOUW, P. 2007. *Architecture South African Urban Design Award of Merit, A Concept for the Historic Precinct of Paardevlei, Somerset West*. Commissioned by Architecture South Africa Urban Design.

NOERO, M.F.J. 2007. *Appointed as a trustee of the Friends of the Red Location Museum, New Brighton*. Commissioned by Nelson Mandela Metropolitan Municipality. September.

NOERO, M.F.J. 2007. *Appointed to Space Utilisation Project Reference Group as a technical expert*. Commissioned by Parliament - Republic of South Africa by Ms Baleka Mbete, MP and Speaker of the National Assembly. August.

NOERO, M.F.J. 2007. *Cape Institute of Architects Award of Merit - 24 Alfred Street*. Commissioned by Cape Institute of Architects.

NOERO, M.F.J. 2007. *Cape Institute of Architects Award of Merit - De Noon High School*. Commissioned by Cape Institute of Architects.

NOERO, M.F.J. 2007. *Eastern Cape Institute of Architects Award of Merit - Red Location Museum*. Commissioned by Eastern Cape Institute of Architects.

NOERO, M.F.J. 2007. *International Architecture Award 2007 - Usasazo Secondary School, Khayelitsha, Cape Town*. Commissioned by The Chicago Athenaeum, Museum of Architecture and Design - Chicago, USA.

EXHIBITIONS

NOERO, M.F.J. 2007. *New World Architecture*. Eindhoven, Holland. 23 – 30 October 2007.

NOERO, M.F.J. 2007. *Royal Institute of Architects - Red Location Museum*. Portland Place, London. 1 January. Commissioned by Royal Institute of Architects.

NOERO, M.F.J. 2007. *Sophia Gray Exhibition - The Expedient and the Ethical, The Everyday and the Extraordinary - The work of Jo Noero Architect 1984 - 2007*. Oliewenhuis Gallery, Bloemfontein. 29 August – 30 September.

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DEPARTMENT OF CHEMICAL ENGINEERING

(INCLUDING BIOPROCESS ENGINEERING RESEARCH UNIT, CENTRE FOR CATALYSIS RESEARCH, C*CHANGE – DST-NRF CENTRE OF EXCELLENCE IN CATALYSIS, CENTRE FOR MINERALS RESEARCH, THE CENTRE FOR RESEARCH IN ENGINEERING EDUCATION AND THE CRYSTALLISATION AND PRECIPITATION RESEARCH UNIT)

AUTHORED BOOKS

HANSFORD, G.S., GOPAL, H., VAN HILLE, R.P., ICGEN, B., LACOUR, S., LEWIS, A.E., MOOSA, S., PETERSEN, K. AND HARRISON, S.T.L. 2007. *An Extended Investigation into the Mechanism and Kinetics of Bacterial Sulphate Reduction*. WRC Report No: 1251/1/07. Pretoria: Water Research Commission. ISBN 978-1-77005-447-9.

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BÖHRINGER, W.F.W., FLETCHER, J.C.Q., DE BOER, M. AND KNOTTENBELT, C. 2006. Selective Fischer-Tropsch wax hydrocracking - opportunity for improvement of overall gas-to-liquids processing. In B.H. Davis and M.L. Occelli (eds), *Studies in Surface Science and Catalysis, Volume 163*, p. 430. USA: Elsevier Science. ISBN 0-444-5221-2.

PETERSEN, J. AND DIXON, D.G. 2007. Principles, mechanisms and dynamics of Chalcocite Heap Bioleaching. In E.R. Donati and W. Sand (eds), *Microbial Processing of Metal Sulfides*, pp. 193-218. The Netherlands: Springer. ISBN 978-1-4020-5588-1.

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AGARKAR, V.B., SEWELL, B., WEBER, B., CAMERON, R., COWAN, D. AND BURTON, S.G. 2007. A novel thermostable nitrilase superfamily amidase from *Geobacillus pallidus* showing acyl transfer activity. *Applied Microbiology and Biotechnology*, 75(1): 801-811.

AMIGUN, B. AND VON BLOTTNITZ, H. 2007. Investigation of scale economies for African biogas installations. *Energy Conversion and Management*, 48(12): 3090-3094.

ANAND, H., BALASUNDARAM, B., PANDIT, A.B. AND HARRISON, S.T.L. 2007. The effect of chemical pretreatment combined with mechanical disruption on the extent of disruption and release of intracellular protein from *E.coli*. *Biochemical Engineering Journal*, 35(1): 166-173.

BAGCI, E., EKMEKCI, Z. AND BRADSHAW, D.J. 2007. Adsorption behaviour of xanthate and dithiophosphinate from their mixtures on chalcopyrite. *Minerals Engineering*, 20(1): 1047-1053.

BARBIAN, N., CILLIERS, J.J., MORAR, S. AND BRADSHAW, D.J. 2007. Froth imaging, air recovery and bubble loading to describe flotation bank performance. *International Journal of Mineral Processing*, 84(1): 81-88.

BASSON, L. AND PETRIE, J.G. 2007. A critical systems approach to decision support for process engineering. *Computers & Chemical Engineering*, 31(8): 876-888.

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- BICAK, O., EKMEKCI, Z., BRADSHAW, D.J. AND HARRIS, P.J. 2007. Adsorption of guar gum and CMC on pyrite. *Minerals Engineering*, 20(1): 996-1002.
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- BROADHURST, J., PETRIE, J.G. AND VON BLOTTNITZ, H. 2007. Understanding element distribution during primary metal production. *Mineral Processing and Extractive Metallurgy Review*, 116(1): 1-16.
- BULAWAYO, B.T., DORRINGTON, R. AND BURTON, S.G. 2007. Enhanced operational parameters for amino acid production using hydantoin-hydrolysing enzymes of *Pseudomonas putida* strain RUKM3s immobilised in Eupergit® C. *Enzyme and Microbial Technology*, 40(1): 533-539.
- BURDUKOVA, E., BECKER, M.E., BRADSHAW, D.J. AND LASKOWSKI, J.S. 2007. Presence of negative charge on the basal planes of New York talc. *Journal of Colloid and Interface Science*, 315(1): 337-342.
- BURDUKOVA, E., BRADSHAW, D.J. AND LASKOWSKI, J.S. 2007. Effect of CMC and pH on the rheology of suspensions of isotropic and anisotropic minerals. *Canadian Metallurgical Quarterly*, 26(3): 273-278.
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- CASE, J.M. 2007. ChE Educator: Duncan Fraser. *Chemical Engineering Education*, 41(1): 74-80.
- CHAING, Y.L., NATHOO, J. AND LEWIS, A.E. 2007. Investigating the control of manganese sulphide precipitation. *Journal of the South African Institute of Mining and Metallurgy*, 107(1): 231-236.
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- FRASER, D.M., PILLAY, R., TJATINDI, L. AND CASE, J.M. 2007. Enhancing the learning of fluid mechanics using computer simulations. *Journal of Engineering Education*, 96(4): 381-388.
- GIURCO, D. AND PETRIE, J.G. 2007. Strategies for reducing the carbon footprint of copper: New technologies, more recycling or demand management? *Minerals Engineering*, 20(9): 842-853.
- HARDING, K., DENNIS, J., VON BLOTTNITZ, H. AND HARRISON, S.T.L. 2007. Environmental analysis of plastic production processes: Comparing petroleum-based polypropylene and polyethylene with biologically-based poly- β -hydroxybutyric acid using life cycle analysis. *Journal of Biotechnology*, 130(1): 57-66.
- HARRISON, S.T.L., CORAM-ULIANA, N.J., NTSHABELE, K. AND VAN HILLE, R.P. 2007. The effect of multiple stresses on *Sulfolobus*-like cultures in bioleaching systems: Super imposing stress responses to metal concentration and solids loading. *Advanced Materials Research*, 20-21: 571.
- HEINRICH, G., BASSON, L., COHEN, B., PETRIE, J.G. AND HOWELLS, M.I. 2007. Ranking power expansion alternatives for multiple objectives under certainty. *Energy Policy*, 32(12): 2350-2369.
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- HUGHES, M. AND MOLLER, K.P. 2007. Economic assessment of the toluene disproportionation process using an external reactor - separator configuration. *International Journal of Chemical Reactor Engineering*, 5(1): 1-16.
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- ISAFIADI, A. AND FRASER, D.M. 2007. Optimisation of combined heat and mass exchangers networks using pinch technology. *Asia Pacific Journal of Chemical Engineering*, 2(6): 554-565.
- KIRCHMANN, S., VAN ZYL, P., BRADY, D., ABRAHAMS, N., RECH, S., DORRINGTON, R. AND BURTON, S.G. 2007. A dual phase fermentation protocol for the production of hydantoinase and carbamoylase by the wild type *Pseudomonas putida* RU-KM3. *Enzyme and Microbial Technology*, 41(1): 539-545.
- LASKOWSKI, J.S., LUI, Q. AND O'CONNOR, C.T. 2007. Current understanding of the mechanism of polysaccharide adsorption at the mineral/aqueous solution interface. *International Journal of Mineral Processing*, 84(1-4): 59-68.
- MAKHONGELA, H.S., GLOWACKA, A., AGARKAR, V.B., SEWELL, B.T., WEBER, B.W., CAMERON, R., COWAN, D. AND BURTON, S.G. 2007. A novel thermostable nitrilase superfamily amidase from *Geobacillus pallidus* showing acyl transfer activity. *Applied Microbiology and Biotechnology*, 75: 801-811.

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- MEYER, Q.C., BURTON, S.G. AND COWAN, D. 2007. Subtractive hybridization magnetic bead capture: A new technique for the recovery of full length ORFs from the metagenome. *Journal of Biotechnology*, 2(1): 36-40.
- MORRISON, R. AND POWELL, M.S. 2007. Design for sampling - preliminary exploration. *Journal of the South African Institute of Mining and Metallurgy*, 106(1): 697-706.
- NCANANA, S. AND BURTON, S.G. 2007. Oxidation of 8-hydroxyquinoline catalyzed by laccase from *Trametes pubescens* yields an antioxidant aromatic polymer. *Journal of Molecular Catalysis B-Enzymatic*, 44(1): 66-71.
- NCANANA, S., BARATTO, L., RONCAGLIA, L., RIVA, S. AND BURTON, S.G. 2007. Laccase-mediated oxidation of totarol. *Advanced Synthesis & Catalysis*, 349(1): 1507-1513.
- NEWELL, A. AND BRADSHAW, D.J. 2007. The development of sulfidisation technique to restore the flotation of oxidised pentlandite. *Minerals Engineering*, 20(1): 1039-1046.
- NTULI, F. AND LEWIS, A.E. 2007. The influence of iron on the precipitation behaviour of nickel powder. *Chemical Engineering Science*, 62(14): 3756-3766.
- O'CONNOR, C.T., SAUERBECK, S., BALFOUR, G.C., BÖHRINGER, W.F.W. AND FLETCHER, J.C.Q. 2007. The effect of different Si/Al ratios and reaction conditions on the phenol methylation activity of MCM-22. *Studies in Surface Science Catalysis*, 170: 1088-1095.
- OYEKOLA, O.O., VAN HILLE, R. AND HARRISON, S.T.L.H. 2007. Effect of sulphate concentration on the community structure and activity of sulphate reducing bacteria. *Advanced Materials Research*, 20-21: 513-515.
- PAROLIS, L.A.S., VAN DER MERWE, R., VAN LEERDAM, G.C., PRINS, F.E. AND SMEINK, R.G. 2007. The use of ToF-SIMS and microflotation to assess the reversibility of binding of CMC onto talc. *Minerals Engineering*, 20: 970-978.
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- PETRIE, J.G. 2007. New models of sustainability for the resources sector. *Process Safety and Environmental Protection*, 85(B1): 88-98.
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- PHALA, N.S. AND VAN STEEN, E.W.J. 2007. Intrinsic reactivity of gold nanoparticles: Classical, semi-empirical and DFT studies. *Gold Bulletin*, 40(2): 150-153.
- POWELL, M.S. AND MORRISON, 2007. The future of comminution modelling. *International Journal of Mineral Processing*, 84(1-4): 228-239.
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**CHEMICAL ENGINEER CONTINUES LEGACY**

Professor Sue Harrison, as pictured above, has netted the Distinguished Woman Scientist award, announced at the 2007 annual Women in Science ceremony. The prize is one of several accolades created by the Department of Science and Technology to recognise women in science and their role in improving the economic status and quality of life of South Africans. Prof Harrison has an enviable international reputation as a leading researcher in bioprocess engineering and is involved in regional biotechnology initiatives. Also flying UCT's flag at the awards was Dr Éva Plagányi-Lloyd (Department of Mathematics and Applied Mathematics), a finalist in the Best Emerging Young Scientist category.

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DEPARTMENT OF CIVIL ENGINEERING

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Mr Mike Halhead of Anglo Platinum together with Professor Cyril O'Connor, first occupant of the Anglo Platinum Chair in Minerals Processing

ANGLO PLATINUM BOOSTS THE DEVELOPMENT OF MINERALS PROCESSING RESEARCH

Anglo Platinum announced the establishment of an Endowed Chair in Mineral Processing in 2007. The sponsorship of this Chair highlights Anglo Platinum's commitment to building research capacity and the development of skills in South Africa. The first occupant of the Anglo Platinum Chair in Minerals Processing is Professor Cyril O'Connor, who is also the Director of the Centre for Minerals Research and former Dean of the Faculty of Engineering & the Built Environment. One of the fundamental aims of the Chair will be to promote minerals research amongst key role players in South Africa and through effective collaboration, assist in building research capacity at previously disadvantaged universities. Significantly, through this Endowed Chair, Anglo Platinum will provide the Centre of Minerals Research with in-perpetuity funding to the value of R18 million.

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DEPARTMENT OF CONSTRUCTION ECONOMICS AND MANAGEMENT

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DEPARTMENT OF ELECTRICAL ENGINEERING

CHAPTERS IN BOOKS

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UCT YOUNG LECTURER WINS INTERNATIONAL AWARD

Dr Randhir Rawatlal, Department of Chemical Engineering, won the Young Scientist/Best Presentation Award at the 5th International Workshop on Heterogeneous Ziegler-Natta Catalysis. The title of his presentation was *Development of an Unsteady State Model for Control of Polymer Grade Transitions in Ziegler-Natta Catalysed Reactor Systems*. The award was made for fundamental contributions to age-distribution theory and their applications in polymerization reactors. The workshop was organised by the Japanese Advanced Institute of Science and Technology in Kanazawa, and was attended by leading international researchers in the field.

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Dr Phillip Lloyd (left) and Eugene Visagie in the Mechanical Engineering laboratory. They tested ethanol gel fuels and compared them to alternative fuel for cooking in low income homes.

BEST PAPER AWARD FOR GEL FUEL RESEARCH

The Energy Research Centre's Dr Phillip Lloyd and Eugene Visagie won the Best Paper Award at the 2007 International Conference on the Domestic Use of Energy. The paper details their efforts to test gel fuels and compare these to alternative cooking fuels. According to Dr Lloyd there has been much interest in the use of ethanol gel fuels for cooking in low-income homes. "Paraffin, used in appliances that have recently been banned, has been very dangerous. Gel fuels seemed to provide some hope of a safer alternative."

Lloyd and Visagie obtained most of the gel and ethanol fuels available on the South African market and most of the appliances designed to use the fuels, in an attempt to identify the best combination. All were unsatisfactory, mainly because they gave off too much soot and carbon monoxide for use indoors. They also found that the weight of gel fuel used to cook a meal was four times higher than paraffin or LP gas. Also, gel fuel costs about as much as paraffin, making it economically unfeasible.

FACULTY OF COMMERCE

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DEAN'S *report*

The Faculty of Commerce continues to improve on its contribution to the overall research activities and outcomes in the University. In this regard, our main thrust is to produce research that directly addresses, in practical ways, the socio-economic issues in both South Africa and the rest of the region. The quality and relevance of our research is reflected in the confidence it enjoys within the international community. For instance, during the year under review, research contracts in the faculty accounted for over fifty percent of the total UCT contract value from foreign governments, as well as the highest per unit value of all research contracts.

our main thrust is to produce research that directly addresses, in practical ways, the socio-economic issues in both South Africa and the rest of the region

Some of the key research highlights for 2007 include the dissemination of the hugely successful research on Black Diamonds by the UCT Unilever Institute of Strategic Marketing. More than 6000 marketers and managers around South Africa benefited from this pioneering research into the consumption profile of the black middle class. Utilising the insights generated thus far, the Institute is currently developing a sophisticated black middle class market segmentation model that will further illuminate the wealth dynamics of this growing consumer market. In addition, the Institute is consolidating its position as a premium source of marketing research by developing a brand model for emerging economies.

The Centre for Actuarial Research (CARE) presented their findings on the demographic impact of HIV/AIDS in Botswana to both local and international audiences. CARE has also started a major consultancy project for the Provincial Government of Gauteng, aimed at forecasting Gauteng's demographics to 2015 for the purpose of socio-economic planning.



The School of Economics has continued its outstanding research performance as evidenced by increasing publications and vibrant research initiatives and groupings. One of the prominent initiatives is the international donor-funded collaborative research programme in environmental economics with the University of Gothenburg. Additionally, the School, in conjunction with other UCT research units, has embarked on a study that focuses on the "neuroeconomics" of gambling addiction. The study, which extends previous exploratory studies, is to date the largest and most rigorous survey with a focus on impulsive behaviour ever undertaken anywhere.

The Development Policy Research Unit continues to contribute to policy formulation on issues such as labour markets, poverty and inequality. The Unit's work on the Employment Promotion Programme funded by the Department for International Development is now in its second phase, with a budget of £2.5 million for the period 2007-9.

Overall, we can look forward to continuing the tradition of a locally relevant and internationally competitive research strategy.

Professor Melvin D. Ayogu
Dean of Commerce

RESEARCH *groupings*

CENTRE FOR ACTUARIAL RESEARCH

The Centre for Actuarial Research is the only unit of its kind at an African university. It brings together multidisciplinary teams to build capacity, improve techniques and produce independent research in demography, healthcare financing, social security and HIV/AIDS modelling. The main focus of the Centre is on training and research in demography and modelling the demographic impact of HIV/AIDS in Southern Africa.

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DEVELOPMENT POLICY RESEARCH UNIT

The Development Policy Research Unit (DPRU) specialises in socio-economic research with a focus on labour markets, poverty and inequality. Through the application of economic and statistical techniques, our aim is to produce academically rigorous policy analysis. The DPRU's mission is to undertake high-quality policy-relevant research, maintain and develop effective networks with government, civil society and the research community in Southern Africa, engage in training and teaching activities and participate directly in the process of formulating, implementing and evaluating policy.

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SOUTHERN AFRICA LABOUR AND DEVELOPMENT RESEARCH UNIT

The Southern Africa Labour and Development Research Unit (SALDRU) conducts research directed at improving the well-being of South Africa's poor. It was established in 1975 and played a central role in documenting the human costs of apartheid through conferences and the Second Carnegie Enquiry into Poverty and Development in South Africa (1983-1986). Over the 1992-1994 period SALDRU co-ordinated South Africa's first non-racial national living standards sample survey. In the post-apartheid period, SALDRU has continued to gather data and conduct research directed at informing and assessing anti-poverty policy. The unit has a multidisciplinary focus, attracting research associates from Economics, Management Studies, Sociology and Statistical Sciences and a number of international research collaborators, especially from the University of Michigan.

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DOCTORAL *graduations*

T. DOMINGO (ACCOUNTING)

The application of activity based cost and management to support competitive strategy in the banking sector: A South African case study

Supervised by Associate Professor R. Chivaka

K. GRATWICK (GRADUATE SCHOOL OF BUSINESS)

Independent power projects in Africa: Balancing development and investment outcomes

Supervised by Associate Professor A. Eberhard

S.J. HASSAN (SCHOOL OF ECONOMICS)

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H. VAN ZYL (SCHOOL OF ECONOMICS)

Property price approaches to the valuation of urban wetlands: Theoretical considerations and policy implications

Supervised by Associate Professor A. Leiman

RESEARCH output

DEPARTMENT OF ACCOUNTING

AUTHORED BOOKS

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Web: <http://www.commerce.uct.ac.za/accounting>

SCHOOL OF ECONOMICS

(INCLUDING THE AIDS AND SOCIETY RESEARCH UNIT (ASRU), THE DEVELOPMENT POLICY RESEARCH UNIT (DPRU), ECONOMIC RESEARCH SOUTHERN AFRICA (ERSA), THE ENVIRONMENTAL POLICY RESEARCH UNIT (EPRU) AND THE SOUTHERN AFRICA LABOUR AND DEVELOPMENT RESEARCH UNIT (SALDRU))

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INTERNATIONAL COMPETITION JACKS UP SA CAR INDUSTRY

In his doctoral thesis, Anthony Black, associate professor in the School of Economics, describes how the SA car industry managed to turn its fortunes around, steered by strong pro-trade policy. Tariffs were slashed, and producers were encouraged to rationalise, but offered a carrot in return. Under the Motor Industry Development Programme, vehicle exporters can import other models duty-free. "The rationale was to make the industry more competitive, lower car prices and give consumers more choice," says Black.

RESEARCH output

GRADUATE SCHOOL OF BUSINESS

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BURGESS, S.M. AND BOTHMA, C.H. 2007. *International Marketing*. Cape Town: Oxford University Press Southern Africa (Pty) Ltd. 512pp. ISBN 978-019-576126-9.

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DEPARTMENT OF INFORMATION SYSTEMS

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UCT RESEARCHER WINS PRESTIGIOUS BOOK AWARD

Professor Nicoli Nattrass was named as the 2007 recipient of the prestigious Bill Venter/Altron Literary Award for her 2004 book, *The Moral Economy of AIDS in South Africa*. In the text, she unpacks South Africa's AIDS crisis, and argues for an aggressive public policy to address it, namely universal access to antiretroviral drug treatment for HIV positive patients. "This is . . . a profoundly impressive work," noted one critic, "written with appropriate passion and argued with intellectual command".

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SCHOOL OF MANAGEMENT STUDIES

[INCLUDING THE CENTRE FOR ACTUARIAL RESEARCH (CARE)]

AUTHORED BOOKS

CORREIA, C.D.J., FLYNN, D.K., ULIANA, E. AND WORMALD, M.P. 2007. *Financial Management*. 6th ed. Cape Town: Juta & Co. Ltd. 921pp. ISBN 0702171573.

SIMPSON, J.D. AND DORE, B.A. 2007. *Marketing in South Africa. Cases and Concepts*. 3rd ed. Pretoria: van Schaik. 350pp. ISBN 9780627026652.

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GEORGE, R. (ED.) 2007. *Managing Tourism in South Africa*. Cape Town: Oxford University Press. 368pp. ISBN 9780195789133.

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CENTRE FOR HIGHER EDUCATION DEVELOPMENT

inders

ACADEMIC DEVELOPMENT PROGRAMME
EDUCATIONAL TECHNOLOGY
HIGHER AND ADULT EDUCATION STUDIES AND DEVELOPMENT UNIT
INFORMATION LITERACY
OPEN LEARNING
DEAN'S OFFICE



DEAN'S *report*

The vision of the Centre for Higher Education Development (CHED) is to be a cross-faculty unit that contributes to continual improvement in the quality of higher education through widening access, promoting excellence through equity, developing the curriculum in partnership with faculties, and enhancing the competence of graduates by ensuring the provision of key skills.

CHED's research mission is to ensure that its educational development work is based on rigorous and ethical research that will serve the objectives of providing equitable access to higher education, enabling social redress through higher education, and generally strengthening the quality of teaching and learning in higher education at UCT, in South Africa, and in countries with similar needs. CHED's research arises from both institutional need and individual interest, comprising all areas connected to teaching and learning, including the basic disciplines in which some of us are based.

A further objective is to enable systemic improvement through the research-led development of policy options at national and institutional level. For this reason, a considerable proportion of the research efforts of CHED staff goes into institutional research (for example, into the impact of the introduction of anonymous marking on student performance, or the reasons why some students in good academic standing drop out of the system), and national research (for example, in response to requests from such agencies as the Department of Education or the Higher Education Quality Committee).

This diversity is illustrated by the range of journals in which CHED staff publish, which also provides another indication of the cross-faculty nature of the unit.

The Centre is organised as a set of departments, units, groups and projects, coordinated by the Dean of Higher Education Development. Departments with research responsibilities are the Academic Development Programme (including the Language Development Group, the Alternative Admissions Research Group, and the Numeracy Centre, as well as the Faculty groupings), the Higher and Adult Education Studies and Development Unit, the Centre for Educational Technology, the Centre for Information Literacy, and the Centre for Open Learning.



CHED's research output reflects the diversity of academic development in contemporary South Africa and internationally, and the potential contribution of this work to a wider domain than the university alone. This diversity is illustrated by the range of journals in which CHED staff publish, which also provides another indication of the cross-faculty nature of the unit. The range includes titles as diverse as Computers and Composition, Information Development, the International Journal of Learning, Journal of Multilingual and Multicultural Development, Quaestiones Mathematicae, Nuclear Science and Engineering, Southern African Linguistics and Applied Language Studies, South African Journal of Economics, South African Journal of Higher Education, Social Dynamics, Teaching in Higher Education, Perspectives in Education, and Social Science and Medicine.

CHED's level of research activity and output continues to increase, and we are confident that our contributions to 'research-led' teaching and learning processes at the University will grow apace, as well as our contributions to the growing international field of higher education studies in its broadest sense.

Associate Professor Nan Yeld
Dean of Higher Education Development

RESEARCH

output

impact

ACADEMIC DEVELOPMENT PROGRAMME

AUTHORED BOOKS

SCOTT, I., YELD, N. AND HENDRY, J. 2007. *A Case for Improving Teaching and Learning in South African Higher Education. Higher Education Monitor 6*. Pretoria: Council on Higher Education. 83pp. ISBN: 978-1-919586-62-9.

CHAPTERS IN BOOKS

MORTIMORE, G., MCLAIN, L., HOLE, C., WAY, D., SCOTT, I., DEARN, J., WILSON, S. AND YEO, S. 2006. Change leadership: Questioning for engagement. In E.M. Elvidge (ed.), *Leadership and Management in Higher Education: Issues of Engagement*, pp. 41-62. Cambridge, UK: Jill Rogers Associates.

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ARCHER, A. 2007. 'The village of my childhood': Nostalgia, narrative and landscape in an engineering course in South Africa. *The International Journal of Learning*, 14(9): 147-154.

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NOLTE, R., ALLIE, M.S., BROOKS, F., BUFFLER, A., DANGENDORF, V., MEULDERS, J., SCHUHMACHER, H., SMIT, R. AND WEIERGANZ, M. 2007. Cross sections for neutron-induced fission of ^{235}U , ^{238}U , ^{209}Bi and ^{208}Pb in the energy range from 33 to 200 MeV measured relative to n-p scattering. *Nuclear Science and Engineering*, 156: 197-210.

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THESIS ON HOW ACADEMICS JUDGE STUDENT PERFORMANCE

This question of how new academic staff learn to judge student performance was the topic of Dr Jeff Jawitz's PhD thesis.

Drawing on theories of social practice and situated learning, his work examined three cases studies in academic departments with "very different relationships" between teaching, research and the profession.

"Learning to judge student performance was found to happen through participation in a series of assessment practices along a 'learning to judge trajectory'."

RESEARCH output

PAXTON, M.I.J. 2007. Tensions between textbook pedagogy and the literacy practices of the disciplinary community: A study of writing in first year economics. *Journal of English for Academic Purposes*, 6(2): 109-125.

PAXTON, M.I.J. 2007. 'You would be a master of a subject if taught in Xhosa': An investigation into the complexities of bilingual concept development in an English medium university in South Africa. *International Journal of Learning*, 14(6): 61-67.

PYM, J.M. 2007. Understanding and responding to specific learning styles, needs and context: What makes a difference? *International Journal of Learning*, 14(8): 175-182.

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PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS

IBRAHIM, B., BUFFLER, A. AND LUBBEN, F. 2007. The relationship between introductory physics students views on the nature of scientific measurement and views on the nature of science. In I. Mutimucuo and M. Cherinda (eds), *Proceedings of the 15th Annual Meeting of the Southern African Association for Research in Mathematics, Science and Technology Education*, Maputo, Mozambique, pp. 391-396. Eduardo Mondlane University Press. ISBN 978-92-990043-0-2.

POTGIETER, M., DAVIDOWITZ, B. AND VENTER, E. 2007. Monitoring preparedness of first-year students in chemistry for placement and improved teaching. In G. Venville and V. Dawson (eds), *Proceedings of the World Conference on Science and Technology Education*, 8-12 July 2007, Perth, Australia, pp. 359-362. Science Teachers' Association of Western Australia. ISBN: 978-0-9803703-0-0.

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CENTRE FOR EDUCATIONAL TECHNOLOGY

CHAPTERS IN BOOKS

CZERNIEWICZ, L., RAVJEE, N. AND MLITWA, N. 2007. Information and Communication Technologies (ICTs) and South African higher education: Understanding/s (of) the landscape. In T. Auf der Heyde et al. (eds), *Review of Higher Education in South Africa: Selected Themes*, pp. 53-76. Pretoria: The Council of Higher Education.

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BROWN, C. AND CZERNIEWICZ, L. 2007. If we build it will they come? Investigating the relationship between students' access to and use of ICTs for learning. *South African Journal of Higher Education*, 21(6): 730-745.

CARR, A.M. AND CZERNIEWICZ, L. 2007. Editorial: Emergent research from Southern Africa. *International Journal of Education and Development using Information and Communication Technology (IJEDICT)*, 3(4): 2-6.

CARR, A.M., MORRISON, A., COX, G., DEACON, A. 2007. Weathering wikis: Net-based learning meets political science in a South African university. *Computers and Composition*, 24(3): 266-284.

DEACON, A. AND WYNSCULLEY, C.M. 2007. Learning from the rhetoric of academics. *International Journal of Education and Development Using Information and Communication Technology (IJEDICT)*, 3(4): 153-167.

JAFFER, S., NG'AMBI, D. AND CZERNIEWICZ, L. 2007. The role of ICTs in higher education in South Africa: One strategy for addressing teaching and learning challenges. *International Journal of Education and Development Using Information and Communication Technology (IJEDICT)*, 3(4): 131-142.

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DEACON, A. AND WYNSCULLEY, C.M. 2007. Itinerant practice leaders: Interpreting academics constructive uses of educational technology. In S. Walters and L. Cooper (eds), *Proceedings of the 5th International Conference on Researching Work and Learning*, 2-5 December 2007, Cape Town, South Africa. Cape Town: Division for Life Long Learning, University of the Western Cape. ISBN 978-1-186808-658-0.

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HIGHER AND ADULT EDUCATION STUDIES AND DEVELOPMENT UNIT

ARTICLES IN PEER-REVIEWED JOURNALS

COOPER, L.H. 2007. Workers' education and political consciousness: A case study from South Africa. *The Economic and Labour Relations Review*, 17(2): 183-198.

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WILLIAMS, K. 2007. Re-examining 'professionalism' in pharmacy: A South African perspective. *Social Science & Medicine*, 64(6): 1285-1296.

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CENTRE FOR INFORMATION LITERACY

ARTICLES IN PEER-REVIEWED JOURNALS

DE JAGER, K. 2007. Opening the Library Catalogue up to the Web: A view from South Africa. *Information Development*, 23(1): 48-54.

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MASANGO, C. 2007. Digital content licences: A barrier to accessing digital content? A South African survey. *Innovation: A Journal for Appropriate Librarianship and Information Work in Southern Africa*, 34: 51-66.



As the new National Senior Certificate looms for 2008, higher education institutions are scratching their heads about how to interpret the results that will spring from the new exams. The National Benchmark Tests Project, led by Professor Nan Yeld, pictured above, and colleagues Dr Alan Cliff and George van der Ross, will look at how well the new curriculum prepares learners for university, specifically around the entry-level academic and quantitative literacy. Through the provision of diagnostic information, the project will also assist institutions to draw up suitable curricula, particularly in foundation courses.

RESEARCH output

MASANGO, C. 2007. Perceptions about copyright of digital content and its effects on scholarship: A South African perspective. *Libri*, 57(2): 83-91.

NASSIMBENI, M. AND UNDERWOOD, P.G. 2007. Two societies: Duality, contradictions...and integration: A progress report on South Africa. *International Information & Library Review*, 39: 166-173.

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LUMBA, P. AND SMITH, J.G. 2007. Knowledge management practices and challenges in an international non-governmental network of organisations: Examining One World International. In D. Remenyi (ed.), *Proceedings of the 4th International Conference on Intellectual Capital, Knowledge Management and Organisational Learning*, 15-16 October 2007, Stellenbosch, South Africa. Reading, UK: Academic Conferences Limited. ISBN 978-1-905305-61-2.

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CENTRE FOR OPEN LEARNING

CREATIVE WRITING

POEMS PUBLISHED IN ANTHOLOGIES

FISKE, I.J. (WRITING AS DE KOK). 2007. Revenge of the imagination. In S. Joubert (ed.), *The Living Tradition*, pp. 100-101. Cape Town: Maskew Miller Longman. Also published in R. Dunlop (ed.), *White Ink: Poems on Mothers and Motherhood*, pp. 13-14. Canada: Demeter Press.

FISKE, I.J. (WRITING AS DE KOK). 2007. Small passing. In R. Malan (ed.), *New Poetry Works*, pp. 60-61. Cape Town: New Africa Books (Pty) Ltd. Also published in R. Dunlop (ed.), *White Ink: Poems on Mothers and Motherhood*, pp. 249-251. Canada: Demeter Press.

FISKE, I.J. (WRITING AS DE KOK). 2007. The head of the household. In S. Joubert (ed.), *The Living Tradition*, pp. 52-53. Cape Town: Maskew Miller Longman.

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DEAN'S OFFICE

AUTHORED BOOKS

SCOTT, I., YELD, N. AND HENDRY, J. 2007. *A Case for Improving Teaching and Learning in South African Higher Education. Higher Education Monitor 6*. 83pp. Pretoria: Council on Higher Education. ISBN: 978-1-919586-62-9

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WORTH, D. 2007. Archaeology: Industrial. In J. Middelton (ed.), *New Encyclopedia of Africa. Vol.1*, pp. 106-108. New York: Charles Scribner's Sons. ISBN 978 0 684 31454 9.

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Dr Eve Gray and Dr Cheryl Hodgkinson-Williams are working on an Opening Scholarship Project.

SHUTTLEWORTH FOUNDATION FUNDS UCT PROJECT

The Shuttleworth Foundation funded the Opening Scholarship Project, which explored the use of information and communication technologies in transformation through a series of case studies at UCT. The year-long project focussed on how technology impacts on communication patterns between researchers, lecturers and students. Its aim was to identify how new technologies, such as interactive Web 2.0 and social networking tools, can expand research and connect the university community with important cross-cutting issues.

FACULTY OF SCIENCE

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ZOOLOGY



DEAN'S *report*

Congratulations to our scientists on growth in the quality, impact and number of our research publications. With over 75% of our academic staff holding a current NRF rating, our faculty is well positioned to play a key role in contributing to national and global research scholarship.

The Faculty of Science was awarded seven DST/NRF South African Research Chairs (SARChI) during 2006/7. These SARChI awards reflect appropriate recognition of the quality and impact of our research nationally and internationally and provide a wonderful capacity-building opportunity for our faculty. Our SARChI Chair holders are Professor George Philander (Modelling of the Coupled Ocean-Land-Atmosphere Phenomena related to Climate), Professor Erwin de Blok (Astrophysics and Space Science), Associate Professor Kevin Naidoo (Scientific Computing), Professor Bruce Hewitson (Climate Change), Professor Kelly Chibale (Drug Discovery), Associate Professor David Jacobs (Animal Evolution and Systematics) and Associate Professor Astrid Jarre (Marine Ecology and Fisheries).

Our previous Dean of the Science Faculty, Professor Daya Reddy, was awarded a SARChI Chair in Computational Mechanics in the Faculty of Engineering & the Built Environment. Congratulations to UCT SARChI recipients and welcome to our newly appointed colleagues.

With over 75% of our academic staff holding a current NRF rating, our faculty is well positioned to play a key role in contributing to national and global research scholarship.

Our academic colleagues and our postgraduate students received several research awards during 2007. Professor George Ellis was inducted into the Royal Society in London for his scientific contributions, notably in relativity and cosmology. He joins the ranks of a Society whose previous



members include Isaac Newton, Charles Darwin and Ernest Rutherford. Professor Theo Stewart was awarded the Gold Medal of the International Society on Multiple Criteria Decision Making, Professor Jill Farrant won the senior (silver) medal of the SA Association of Botanists, Professor Graeme Cumming was awarded the Royal Society of South Africa's Meiring Naudé Medal and Professor Doug Butterworth received the National Science and Technology Forum's Category A Award for Contributions over a Lifetime. Professors Cesareo Dominguez and Timothy Crowe were elected as Fellows of the University of Cape Town.

Our postgraduate students won several awards and competitions for the quality of their work. Sarah Goodier and Riashna Sithaldeen won awards at the SA Systematic Biology conference; Julia Wakeling, Diane Southey, Ryan Blanchard and Heidi Hawkins won student prizes at SA Botany congresses; and the UCT team of Bruce Merry, Carl Hultquist, James Gray and Chris de Kadt won the 2007 Standard Bank IT challenge.

Professor Kathy Driver
Dean of Science

RESEARCH

groupings

AVIAN DEMOGRAPHY UNIT

The mission of the Avian Demography Unit (ADU) is to contribute to the understanding of bird populations, especially bird population dynamics, and thus contribute to the conservation of avian biodiversity. The ADU achieves these goals through a variety of projects in which para-ornithologists throughout Southern Africa can participate. These projects range from identifying bird species, through undertaking census surveys, to making detailed observations on breeding productivity.

Director: Professor I.G. Underhill

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Web: <http://web.uct.ac.za/depts/stats/adu/index.html>

CENTRE FOR SUPRAMOLECULAR CHEMISTRY RESEARCH

This group was constituted in 1997 and focuses on the physical chemistry of supramolecular systems. Various host-guest compounds are synthesized, their structures analysed by means of powder and single crystal X-ray diffraction, as well as thermal and spectroscopic techniques, and the results related to their physical properties. Our research efforts concentrate on polymorphism and solvation of insoluble drug molecules as well as their inclusion in cyclodextrins, on the characterisation of open framework transition metal structures and the study of guest selectivity in organic host-guest systems.

Director: Professor M.R. Caira

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Web: <http://www.uct.ac.za/faculties/science/research/cscr/>

ELECTRON MICROSCOPE UNIT

The Electron Microscope Unit (EMU) provides a central microscopy service to all departments of UCT as well as to other universities, research institutions and private companies. The Unit is able to advise users on many aspects of electron microscopy, light microscopy and digital imaging and can take on joint research. The EMU is a key resource in the South African Structural Biology Initiative and is offering postgraduate degrees in Structural Biology jointly with others at UCT and the University of the Western Cape. In 2007, the Unit took delivery of an FEI Tecnai F20 field emission cryo-transmission electron microscope – the first instrument in this class in Africa. This instrument enables the determination of the three-dimensional structures of biological objects, including viruses and protein complexes at high resolution.

Director: Professor B.T. Sewell

E-mail: Trevor.Sewell@uct.ac.za

Web: <http://sbio.uct.ac.za/Webemu>

ENVIRONMENTAL EVALUATION UNIT

The Environmental Evaluation Unit (EEU) is an independent, self-funded research, consulting and training unit based at the University of Cape Town. Founded in 1985, the EEU has established itself as a leader in the fields of integrated environmental and coastal management and sustainable development responding to local, regional and global environmental challenges using an interdisciplinary and participatory approach. During this time, the EEU has undertaken work throughout South Africa and Southern Africa, has participated in global research and policy initiatives, and has provided expertise to leading private and public corporations, research institutions, planning and development organisations, state departments, local authorities and communities. The EEU has implemented a wide diversity of projects that have contributed to academic debates, and informed policy whilst having practical impacts on the ground. The EEU works in five main thematic areas: (1) Integrated environmental planning, management and assessment; (2) Integrated coastal and small-scale fisheries management; (3) Biodiversity use, trade, livelihoods and social justice; (4) Sustainable business and cross-sector collaboration; and (5) Public participation.

Director: Associate Professor M. Snowman

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Web: <http://www.eeu.uct.ac.za>

FRESHWATER RESEARCH UNIT

Since its inception in 1984, the Freshwater Research Unit has become one of the country's leading centres of research and teaching on the ecology and management of Southern Africa's inland waters. It is informally recognised by the Water Research Commission as a Centre of Expertise and its members are sought after nationally and internationally in a range of aquatic and scientific fields.

Director: Associate Professor J.A. Day

E-mail: Jenny.Day@uct.ac.za

Web: <http://www.zoology.uct.ac.za/docs/fresh.html>

CENTRE FOR THEORETICAL PHYSICS AND ASTROPHYSICS

The Centre for Theoretical Physics and Astrophysics (CTPA) is an interdepartmental research unit devoted to the promotion of interdisciplinary research in the areas of Astronomy and Astrophysics, Cosmology and General Relativity, and Theoretical Physics (Particle and Astro-Particle Physics). The Centre endorses and supports the new National Astrophysics and Space Science Program, hosted by UCT since 2003. CTPA has become a part of the National Institute of Theoretical Physics, located at Stellenbosch, and launched in 2006 by the Department of Science and Technology, and by the National Research Foundation. CTPA has eleven local members from UCT's departments of Astronomy, Mathematics and Applied Mathematics, and Physics. It also has five international

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members who visit the Centre on a regular basis. Postgraduate students doing theses on the above research fields are admitted to CTPA for the duration of their studies. An International Advisory Board of seven internationally acclaimed scientists was appointed in 2006.

Director: Professor C.A. Dominguez

E-mail: Cesareo.Dominguez@uct.ac.za

Web: <http://www.uct.ac.za/faculties/science/research/astrophysics/>

MARINE BIOLOGY RESEARCH CENTRE

The Marine Biology Research Centre was established in 1985 as an umbrella organisation to market the marine expertise for which both the Botany and Zoology departments at UCT have been renowned over a period of many decades. It aims to advertise UCT as a centre of marine research to funding organisations, potential donors and organisations seeking consultants in the field of marine biology, and to market UCT and our specialist courses and experience as teachers in marine biology to prospective undergraduate and particularly graduate students from Africa and around the world.

Director: Professor C.L. Griffiths

E-mail: Charles.Griffiths@uct.ac.za

Web: <http://www.uct.ac.za/faculties/science/research/marinebiology/>

MARINE RESEARCH (MA-RE) INSTITUTE

The Marine Research (MA-RE) Institute was officially constituted in October 2006 as one of the first signature themes at UCT. This was the culmination of a consultative process involving all marine researchers at UCT, with the view that marine research at UCT would greatly enhance its strength in research and teaching through formalised collaboration and co-ordination of all marine researchers and academics across disciplinary boundaries. The MA-RE Institute is an umbrella body covering all departments and faculties involved in marine research at UCT, and currently includes some 40 permanent UCT researchers. MA-RE hosts two Research Chairs under the DST-NRF South African Research Chairs Initiative (SARChI) and provides administrative support for the Africa Centre for Climate and Earth System Science (ACCESS), a joint venture between UCT, CSIR and several other institutions. The MA-RE Institute's principal focus is research, which underpins its teaching, training and consultancy activities. The Institute brings together active researchers in the field who add value to, and benefit from this collaborative structure. MA-RE co-ordinates and fosters cross-disciplinary, interfaculty and interinstitutional research projects. MA-RE also develops marine curricula and raises funds for improved bursaries and mentoring. The MA-RE Institute strives to transform the marine field through capacity

building and skills development. Areas of particular development and capacity building include marine law and policy, coastal zone management, marine biotechnology, operational oceanography, southern ocean research, satellite oceanography and numerical modeling, marine engineering, an ecosystem approach to fisheries, seabird research and marine biodiversity studies.

Director: Professor John Field

E-mail: ma-re@uct.ac.za

Web: <http://www.ma-re.uct.ac.za/>

PERCY FITZPATRICK INSTITUTE OF AFRICAN ORNITHOLOGY

The Percy FitzPatrick Institute of African Ornithology (affectionately known as the Fitztitute) is housed within the Zoology Department. Situated at the tip of Africa, the Fitztitute has an international reputation for research and teaching excellence in African ornithology and conservation biology. The DST-NRF Centre of Excellence in Birds as Keys to Biodiversity Conservation at the Percy FitzPatrick Institute is now one of only six nationally recognised Centres of Excellence in science and technology in South Africa. Fitztitute members are committed to developing a greater understanding of the form, functioning and conservation of Africa's rich biodiversity, through the training of scientists and the pursuit of primary research, from evolutionary ecology to conservation biology.

Acting Director: Associate Professor P.A.R. Hockey

E-mail: Phil.Hockey@uct.ac.za

Web: <http://www.fitzpatrick.uct.ac.za/>

PLANT CONSERVATION UNIT

The Plant Conservation Unit, located within the Botany Department, undertakes research and teaching directed at improving the conservation status of the Cape Floristic Region, including the Fynbos and Succulent Karoo biomes.

Director: Professor M.T. Hoffman

E-mail: Timm.Hoffman@uct.ac.za

Web: <http://www.pcu.uct.ac.za>

UCT-CERN RESEARCH CENTRE

The UCT-CERN Research Centre was established in 2003 out of a confluence of certain research programmes within the Department of Physics. As implied by the name of the Centre, there is extensive collaboration with CERN, the European Centre for Particle Physics, which is one of the most prestigious research laboratories in the world. In particular, the UCT-CERN Research Centre has close collaboration with the next generation ultra-relativistic heavy-ion experiment at CERN's Large Hadronic Collider (LHC), named ALICE - A Large Ion Collider Experiment.

Director: Professor J.W.A. Cleymans

E-mail: Jean.Cleymans@uct.ac.za

Web: <http://hep.phy.uct.ac.za/>

DOCTORAL graduations

A. ARNAB (COMPUTER SCIENCE)

Towards a general framework for Digital Rights Management (DRM)

Supervised by Professor A. Hutchinson

K. BARNES (ZOOLOGY)

The phylogenetics and evolution of Africa's larks (Alaudidae)

Supervised by Associate Professor P.G. Ryan

B. BECKER (PHYSICS)

Development of a high-level trigger for the dimuon spectrometer of the ALICE experiment at the Large Hadron Collider

Supervised by Professor J. Cleymans and Dr Z. Vilakazi

S. BLYTH (PHYSICS)

Using the phi-meson to probe the medium created in Au+Au collisions at RHIC

Supervised by Professor J. Cleymans

C. COETSEE (BOTANY)

Long-term effects of fire on nitrogen cycling in a broad-leaf savanna, Kruger National Park, South Africa

Supervised by Professor W. Bond and Dr E. February

T.S. CRAIG (MATHEMATICS AND APPLIED MATHEMATICS)

Promoting understanding in mathematical problem-solving through writing: A piagetian analysis

Supervised by Professor T.T. Dunne and Professor J. Webb

M.C. CRAMPTON (MOLECULAR AND CELL BIOLOGY)

The development of a flagellin surface display expression system in the gram-positive bacterium, bacillus halocurams Alk 36

Supervised by Associate Professor S.J. Reid and Dr M. Louw

N.C. DEPPA (CHEMISTRY)

Rarity of kidney stones in South African's black population: Studies of urinary macromolecules, crystal matrix extract containing osreopontin, and bone turnover markers in urine and serum from black and white subjects as a key to understanding this paradox

Supervised by Professor A.L. Rodgers

G. DEWAR (ARCHAEOLOGY)

The archaeology of the coastal desert of Namaqualand, South Africa: A regional synthesis

Supervised by Professor J. Sealy

F.J. DURRELL (MATHEMATICS AND APPLIED MATHEMATICS)

Constrained portfolio selection with Markov and non-Markov processes and insiders

Supervised by Dr P. Ouweland and Associate Professor H. Abraham

L.C. FOXCROFT (BOTANY)

Pattern and process of plant invasion in an African savanna ecosystem, with emphasis on multiple spatial and temporal scales

Supervised by Associate Professor D.M. Richardson and Professor M.T. Hoffman

D.Y. GHEBREHIWET (ZOOLOGY)

Assessing the effects of fishing on fish communities using South African case studies: Empirical and theoretical approaches

Supervised by Professor J.G. Field, Dr R. Leslie and Dr Y. Shin

D. GUO (STATISTICAL SCIENCE)

Contributions to spatial uncertainty modelling in GIS: Small sample data

Supervised by Associate Professor C. Thiart

H.C. HAUPT (CHEMISTRY)

Strategies toward the synthesis of prostaglandin analogues

Supervised by Professor R. Hunter and Dr E. Sickle

M. HORNER (PHYSICS)

Systematic studies of low and intermediate-pt correlated angular distributions in Au+Au collisions at $\sqrt{s_{NN}} = 200$ gEv from the STAR experiment

Supervised by Professor J. Cleymans

B. KIRBY (MOLECULAR AND CELL BIOLOGY)

The characterisation of actinomycetes isolated from diverse South African sources, with emphasis on the genus Kribbella

Supervised by Dr P. Meyers

D. LOEWENTHAL (ZOOLOGY)

*The population dynamics and conservation of the African Black Oystercatcher, *Maematopus moquini**

Supervised by Associate Professor P.A.R. Hockey

B.C. MERRY (COMPUTER SCIENCE)

A linear framework for character skinning

Supervised by Dr P. Marais and Dr J. Gain

N. MHLAHLA (ASTRONOMY)

The study of the accretion dynamics and behaviour in intermediate polars

Supervised by Dr P.A. Woudt

D. NUNEZ (COMPUTER SCIENCE)

A capacity limited, cognitive constructionist model of virtual presence

Supervised by Professor E. Blake

DOCTORAL *graduations*

N. OCTOBER (CHEMISTRY)

Design, synthesis and evaluation of potential dual drugs targeting the haemoglobin degradation pathway in the malaria parasit Plasmodium falciparum

Supervised by Professor K. Chibale

O.F. OXTOBY (MATHEMATICS AND APPLIED MATHEMATICS)

Solitons and radiation in nonintegrable systems

Supervised by Professor I.V. Barashenkov

L.N. PETERSEN (MOLECULAR AND CELL BIOLOGY)

The regulation and role of Oxidative Signal-Inducible1 protein kinase in Arabidopsis thaliana

Supervised by Dr K.J. Denby and Dr M. Sickle

D.S. PORTER (GEOLOGICAL SCIENCES)

An integrated geochemical and microbiological investigation of sulphate reductions in hypersaline pans

Supervised by Dr A. Roychoudhury and Dr D. Cowan

S.C.M. REES-JONES (CHEMISTRY)

Studies towards the enantioselective synthesis of (+) - castanospermine

Supervised by Professor R. Hunter

D. ROBERTSON-ANDERSSON (BOTANY)

Biological and economical feasibility studies of using seaweeds Ulva lactuca (Chlorophyta) in recirculation systems in abalone farming

Supervised by Professor J.J. Bolton, Dr T. Probyn and Associate Professor M. Troell

R.E. ROMAN (OCEANOGRAPHY)

Red sea intermediate water in the greater Agulhas current system

Supervised by Professor J.R.E. Lutjeharms

N.N. SHIPONENI (BOTANY)

Spatio-temporal distribution of grass and shrubs at the ecotone between an arid grassland and succulent shrubland: Ecological interactions and the influence of soils

Supervised by Professor M.T. Hoffman

S. STOFFBERG (ZOOLOGY)

Molecular phylogenetics and the evolution of high-frequency echolocation in horseshoe bats (genus rhinolophus)

Supervised by Associate Professor D. Jacobs and Dr C. Matthee

N.M.S.M. TECHOW (MOLECULAR AND CELL BIOLOGY)

Phylogeny and phylogeography of four Southern Ocean Petrels

Supervised by Dr C. O’Ryan and Associate Professor P.G. Ryan

S.J. THOMALLA (OCEANOGRAPHY)

Particulate organic carbon and mineral export from the North and South Atlantic gyres: The 284TH/ 285U disequilibrium approach

Supervised by Dr M. Lucas

P. VERMAAK (ASTRONOMY)

Fitting binary lens gravitational microlensing events with example-based algorithms

Supervised by Professor B. Warner and Dr J. Menzies

N. VIGAUD (OCEANOGRAPHY)

Water vapour transport from the South Atlantic and Indian Oceans and summer rainfall over Southern Africa

Supervised by Dr M. Rouault and Professor C.J.C. Reason

M.N. WABIRI (STATISTICAL SCIENCES)

Variable modelling of spatially distributed random interval observations

Supervised by Associate Professor C. Thiart and Professor R. Guo

R.M. WANLESS (ZOOLOGY)

Impacts of the introduced house mouse on the seabirds of Gough Island

Supervised by Associate Professor P.G. Ryan and Dr G. Hilton

A. WOLFAARDT (STATISTICAL SCIENCES)

The effects of oiling and rehabilitation on the breeding productivity and annual moult and breeding cycles of African Penguins

Supervised by Professor L. Underhill and Dr A.J. Williams

M. YAMAN (PHYSICS)

Scientific visualization of stress tensor information with applications to stress determination by X-ray and neutron diffraction

Supervised by Professor M. Haerting

PATENTS

BECKER-HITZEROTH, I.I., MACLEAN, J.M., RYBICKI, E.P. AND WILLIAMSON, A.-L. *Expression of Proteins in Plants*. National Phase Patent Application China, 200680014202.5.

BECKER-HITZEROTH, I.I., MACLEAN, J.M., RYBICKI, E.P. AND WILLIAMSON, A.-L. *Expression of Proteins in Plants*. National Phase Patent Application Europe, 06740997.9.

BECKER-HITZEROTH, I.I., MACLEAN, J.M., RYBICKI, E.P. AND WILLIAMSON, A.-L. *Expression of Proteins in Plants*. National Phase Patent Application India, 7719/DELNP/2007.

BECKER-HITZEROTH, I.I., MACLEAN, J.M., RYBICKI, E.P. AND WILLIAMSON, A.-L. *Expression of Proteins in Plants*. National Phase Patent Application South Africa, No. pending.

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BRITTON, D.T. AND HAERTING, M. *Semiconducting Nanoparticles with Surface Modification*. National Phase Patent Application China, 200680023528.4.

BRITTON, D.T. AND HAERTING, M. *Semiconducting Nanoparticles with Surface Modification*. National Phase Patent Application Europe, 06765606.6.

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BRITTON, D.T. AND HAERTING, M. *Semiconducting Nanoparticles with Surface Modification*. National Phase Patent Application Korea, 10-2008-7000378.

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HUNTER, R., PARKER, M.I. AND KASHULA, C.H. *Compound Useful for the Inhibition of the Growth of Tumour Cells*. Provisional Patent Application South Africa, 2007/06413.

IYER, R., LEWANIKA, T.R., MACHUKA, J., OKOTH, R. AND THOMSON, J.A. *Plant Promoters*. Provisional Patent Application South Africa, 2007/09551.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (1)*. National Phase Patent Application Australia, 2006250905.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (1)*. National Phase Patent Application Canada, No. pending.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (1)*. National Phase Patent Application Europe, 06744781.3.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (1)*. National Phase Patent Application South Africa, 2007/10879.

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STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (3)*. National Phase Patent Application Australia, 2006250906.

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STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (3)*. National Phase Patent Application Europe, 06765437.6.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (3)*. National Phase Patent Application South Africa, 2007/10880.

STURROCK, E., NCHINDA, A. AND CHIBALE, K. *Angiotensin 1 – Converting Enzyme (ACE) Inhibitors (3)*. National Phase Patent Application United States, No. pending.

RESEARCH

output

DEPARTMENT OF ARCHAEOLOGY

CHAPTERS IN BOOKS

ACKERMANN, R. 2007. Craniofacial variation and developmental divergence in primate and human evolution. In G. Bock and J. Goode (eds), *Tinkering: The Microevolution of Development*. pp. 262-279. Chichester, England: John Wiley & Sons Ltd. ISBN 978-0-470-034293.

BRINK, L.Y. 2007. Changing perceptions of free burgher status and identity at the Cape during the period of VOC rule. In N. Worden (ed.), *Contingent Lives: Social Identity and Material Culture in the VOC World*, pp. 414-427. Pretoria: Royal Netherlands Embassy. ISBN 978-0-62038509-1.

CHIRIKURE, S., HALL, S.L. AND MILLER, D.E. 2007. One hundred years on: What do we know about tin and bronze production in southern Africa? In S. La Niece, D. Hook and P. Craddock (eds), *Metals and Mines: Studies in Archaeometallurgy*, pp. 112-119. London: Archetype publications. ISBN 978-1904982-19-7.

HALL, S.L. 2007. Tswana history in the Bankenveld. In P. Bonner, A. Esterhuysen and T. Jenkins (eds), *A Search for Origins*, pp. 162-179. Johannesburg: WITS University Press. ISBN 978-1-86814-418-1.

MALAN, A. 2007. Identifying buildings and building lives at the Cape in the Early VOC period. In N. Worden (ed.), *Contingent Lives: Social Identity and Material Culture in the VOC World*, pp. 23-52. Pretoria: Royal Netherlands Embassy. ISBN 978-0-62038509-1.

REHREN, T., CHARLTON, M., CHIRIKURE, S., HUMPHRIS, J., IGE, A. AND VELDTHUIJZEN, A. 2007. Decisions set in slag: The human factor in African iron smelting. In S. La Niece, D. Hook and P. Craddock (eds), *Metals and Mines: Studies in Archaeometallurgy*, pp. 211-218. London: Archetype publications. ISBN 978-1904982-19-7.

ARTICLES IN PEER-REVIEWED JOURNALS

ACKERMANN, R. AND SMITH, R. 2007. The macroevolution of our ancient lineage: What we know (or think we know) about early hominin diversity. *Evolutionary Biology*, 34: 72-85.

CHIRIKURE, S. 2007. Metals in society: Iron production and its position in Iron Age communities of southern Africa. *Journal of Social Archaeology*, 7(1): 72-100.

CODRON, D., CODRON, J., LEE-THORP, J.A., SPONHEIMER, M., DE RUITER, D., SEALY, J.C., GRANT, R. AND FOURIE, N.H. 2007. Diets of savanna ungulates from stable carbon isotope composition of faeces. *Journal of Zoology*, 273: 21-29.

CODRON, D., LEE-THORP, J., SPONHEIMER, M. AND CODRON, J. 2007. Stable carbon isotope reconstruction of ungulate diet changes through the seasonal cycle. *South African Journal of Wildlife Research*, 37(2): 117-125.

CODRON, D., LEE-THORP, J.A., SPONHEIMER, M. AND CODRON, J. 2007. Nutritional content of savanna plant foods: Implications for browser/grazer models of ungulate diversification. *European Journal of Wildlife Research*, 53: 100-111.

CODRON, D., LEE-THORP, J.A., SPONHEIMER, M., CODRON, J., DE RUITER, D. AND BRINK, J. 2007. Significance of diet type and diet quality for ecological diversity of African ungulates. *Journal of Animal Ecology*, 76: 526-537.

DENBOW, J. AND MILLER, D.E. 2007. Metal working at Bosutwe, Botswana. *Journal of African Archaeology*, 5(2): 271-313.

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DEPARTMENT OF ASTRONOMY

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DEPARTMENT OF BOTANY

(INCLUDING THE BOLUS HERBARIUM AND THE PLANT CONSERVATION UNIT)

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DEPARTMENT OF CHEMISTRY

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No stone unturned: Geologists Maarten de Wit (UCT) and Harald Furnes (University of Bergen, Norway) hunt ancient rocks in southwest Greenland.

CLUES GO BACK 3.8 BILLION YEARS

UCT Professor Maarten de Wit features among an international team that found evidence of tectonic movement much earlier than previously thought. A fragment of ancient seafloor, a serendipitous find by a team of international geologists in remote southwest Greenland, shows evidence that Earth's crustal plates were shifting as far back as 3.8 billion years ago. The team's observations, printed in the 23 March, 2007, edition of *Science*, indicate that this tectonic activity began before any known structural geological record of Earth, and provides new clues to understanding Earth's geochemical evolution.

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DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF ENVIRONMENTAL AND GEOGRAPHICAL SCIENCE

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GENETICALLY MODIFIED FOODS THE ANSWER

Microbiologist Professor Jennifer Thomson remains unmoved in her stance that genetically modified (GM) foods can help to alleviate huge food shortages in Africa, and the rest of the developing world. In her book *Genes for Africa: Genetically Modified Crops in the Developing World*, Thomson provides a layperson's guide to the topic and a book she hopes will balance the picture, albeit a fiercely controversial solution to many of the continent's food woes. As a microbiologist, Thomson has run laboratories at the forefront of GM research in Southern Africa since 1978 and participates in conferences on the topic throughout the world.

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SCIENTISTS PROPOSE NEW BARCODE FOR PLANTS

International scientists, among them Professor Terry Hedderson of the Bolus Herbarium in UCT's Department of Botany, have proposed a set of genetic tools to classify and identify all the world's land plants. The means to sort and tag all the land plants in the world using genetic information, telling one family or genus or species from another by virtue of their DNA, has eluded scientists for some time now. In a paper in the May edition of *Taxon*, the journal of the International Association for Plant Taxonomy, the consortium of 19 scientists proposes the use of three regions of DNA found in chloroplasts, the structures responsible for photosynthesis in plants. This plastid DNA matches animal mitochondrial DNA in a number of ways. For one, it abounds in cells, making it easy to track down and extract. It also meets a very tricky second criterion. It offers the variation that scientists are after but, no mean feat, can also be found in all land plants, produced by more than 400 million years of evolution.

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DEPARTMENT OF MOLECULAR AND CELL BIOLOGY

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Harvest time: Much is on the line for a genetically modified crop of maize developed by UCT scientists.

UCT-DESIGNED GM CROP NEARS TRIALS

Africa is gearing up for its first trial of a genetically modified crop, developed by UCT's Professors Jennifer Thomson and Ed Rybicki and their team in the Department of Molecular and Cell Biology. They've been working with plant pathologist Frederik Kloppers at Pannar Seeds, Greytown, to test a GM plant carrying a mutated form of the maize streak virus. The plant has resisted infection consistently. Maize accounts for 50% of calories in local diets.

RESEARCH

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RESEARCH output

DEPARTMENT OF OCEANOGRAPHY

(INCLUDING THE RESEARCH DIVING UNIT)

ARTICLES IN PEER-REVIEWED JOURNALS

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SHOREBIRD RESEARCH MAKES WAVES

When Douglas Loewenthal started research for his doctorate in zoology at UCT, he didn't expect it to influence conservation legislation before his official graduation. But not only has it helped sway government policy with the banning of off-road vehicles on South Africa's beaches, it has also helped raise awareness regarding the threats facing other coastal fauna. More than 400 Oystercatcher Conservation Programme participants helped to gather data on the biology of the near-threatened African Black Oystercatcher, which culminated in Loewenthal's thesis, *The population dynamics and conservation of the African Black Oystercatcher, *Haematopus moquini*.*

RESEARCH output

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PROJECT FLUTTER BY

A new Animal Demography Unit (ADU) project will map the distribution of butterfly species across Southern Africa and spotlight conservation challenges over the next four years, mapping the distribution and conservation priorities of the rich butterfly fauna found in South Africa, Lesotho and Swaziland. South Africa is home to 17% of Africa's 4,000 butterfly species and, of these, two species, possibly three, have become extinct. Another 38 species are named in the Red Data list which catalogues the threat categories for respective species. The project was launched under the umbrella of the Southern African Butterfly Conservation Assessment.

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SEAWEED RESEARCH MAKES WAVES

Doctoral researcher in the Department of Botany Deborah Robertson-Andersson won the University of British Columbia award – the second prize – in the student presentation category at the 19th International Seaweed Symposium in Kobe, Japan. Robertson-Andersson made it to the conference after landing the South African Network for Coastal and Oceanographic Research prestige student travel award. Her research on “integrated aquaculture” – it spans botany, oceanography, zoology, even economics – explores seaweed and abalone growth rates. Specifically, Robertson-Andersson is investigating the effects of DMSP, a chemical compound found in high quantities in seaweed, and its effect on the taste of abalone.

RESEARCH

output

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FRESH KNOWLEDGE ON ANCIENT PEOPLE

Genevieve Dewar's doctoral thesis contributes fresh knowledge on the ancient inhabitants of the coastal desert of Namaqualand. In her study, titled *The Archaeology of the Coastal Desert of Namaqualand, South Africa: A regional synthesis*, Dewar shows that human settlements are closely linked to climate change and the availability of water. Dewar's thesis makes a significant contribution to the long-term history of Southern Africa and to our knowledge of human survival in coastal and desert environments.

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Bolus Herbarium curator and African Plant Initiative project leader Terry Trinder-Smith with project manager Erika Mias (right) and digitising officer Sandy Sauls. The team is digitising the herbarium's collection for an online resource that is free to African universities.

PLANT COLLECTIONS DIGITISED FOR WORLD'S SCHOLARS

Thanks to a three-year digitising project that wrapped up at the end of 2007, part of the valuable plant specimen collection in UCT's Bolus Herbarium is now also available freely to the world's scholars online. The work is part of an international project, the African Plant Initiative, to digitise the Type specimens of African plants in major herbaria worldwide. With a collection of over 350,000 specimens, the Bolus Herbarium is the third largest university herbarium in the Southern Hemisphere.

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SHELTERS FOR SILVERMINE FYNBOS PROJECT

Dr Adam West's climate manipulation experiment in the Silvermine Nature Reserve will provide valuable data on how fynbos react to drought. West, a postdoctoral fellow (Department of Integrative Biology at the University of California, Berkeley, and UCT's Department of Botany) has erected a series of rain exclusion roofs deep within the reserve to keep rain off sections of the fynbos. The drought-simulating exercise, which will take place over two-and-a-half years, will gauge the impact of climate change on the Western Cape's unique floral heritage.

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DEPARTMENT OF ZOOLOGY

(INCLUDING THE MARINE BIOLOGY RESEARCH CENTRE, THE FRESHWATER RESEARCH UNIT, DST-NRF CENTRE OF EXCELLENCE IN BIRDS AS KEYS TO BIODIVERSITY CONSERVATION AT THE PERCY FITZPATRICK INSTITUTE.)

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CLEANING UP ASTROPHYSICS

Three researchers have used an estimation system to clean up data on exploding stars. Astrophysics master's student Renée Hlozek, Associate Professor Bruce Bassett of UCT (pictured above) and Professor Martin Kunz from the University of Geneva, have made headlines with their paper that's been accepted by *Physical Review D*. The paper, titled *Bayesian Estimation Applied to Multiple Species*, covers the researchers' work on an estimation method that makes working through a mass of cosmology data a cinch.

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FACULTY OF LAW

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DEAN'S *report*

The Faculty of Law continues to provide a wonderfully diverse and stimulating context for the research endeavour. The University-wide focus on being research-led is now firmly established within our ranks, and managed effectively by the Director of Research, Professor Danie Visser, and the Research and Social Responsiveness Committee. An innovation in early 2007 was the appointment of a senior administrator, Sue Wright, to assist with every aspect of the co-ordination and reporting of research by both individuals and units, and the benefits of her great efficiency and conscientiousness have been increasingly evident. Another aspect of the infrastructural support provided by the faculty to its researchers, be they academic staff or postgraduate students, is to be seen in the increasing prominence of the Ethics in Research Committee, under Anne Pope's leadership, which provides invaluable guidance, particularly in regard to research involving human subjects. In the past year, the Faculty Board adopted Ethical Guidelines for Research drafted by this Committee.

A further task undertaken by the Faculty Research Committee is the organisation of the annual Emerging Researchers' Weekend, which in May 2007 returned to the venue first used several years ago, Mont Fleur near Stellenbosch, and which was attended by fourteen younger staff members and nine senior researchers. Those registered for doctorates also profited greatly from the presence in the faculty for six weeks in March and April of Professor Hudson Janisch, Emeritus Professor of the University of Toronto, who visited under the auspices of the Mellon-funded 'Visiting Mentors' initiative of the University's Research Office. Another innovation in the year under review was the faculty Research Prize, open to those at senior lecturer or lecturer levels, for an excellent piece of research published in 2006. Two such prizes, generously sponsored by the firm of attorneys Cliffe Dekker, were presented to Jaco Barnard-Naude and Waheeda Amien at an event towards the end of the year. All in all this represents a substantially supportive environment for the pursuit of high-quality research and a remarkable improvement when compared with that which existed a decade ago.

The graduation of four doctoral candidates in 2007 (with all of whom Professor Evance Kalula was associated as supervisor or co-supervisor, a remarkable feat) also augurs well for this level of study and research in the faculty.

As to research achievements and highlights, the year under review will in all likelihood be remembered as rather special for the faculty. Professor Clifford Shearing's DST/NRF Research Chair in African Security and Justice created an impressive infrastructure and began to deliver on its research plans. We were immensely pleased when a second Chair was awarded to Professor Drucilla Cornell, who had joined us from the USA shortly before, with its focus on Customary Law, Indigenous Values and Dignity Jurisprudence. This means that two of the four SARChI awards in Law throughout the country have come to UCT.

The national and international reputation of faculty members was further emphasised when the NRF ratings were made known towards the end of the year: the faculty now boasts three A, three B and three C-rated researchers, including (in Professor



Cornell) the first A1-rated female researcher at UCT. The other two A-rated researchers are Professor Clifford Shearing and Professor Danie Visser. Professor Jonathan Burchell was elected as a Fellow of the University, and the third edition of his *Cases and Materials on Criminal Law* was published, while the third edition of his book on the *Principles of Criminal Law* received a Meritorious Publication Award from the University. Dr Danwood Chirwa received a Fellows' Award, given to a younger researcher of exceptional promise.

This represents a substantially supportive environment for the pursuit of high-quality research and a remarkable improvement when compared with that which existed a decade ago

On the publications front, the long-awaited ninth edition of the leading private law text, *Wille's Principles of South African Law*, appeared early in the year. The book has been associated with the faculty over its 70-year history, and this edition marked a substantial revision to take into account South Africa's transition to a constitutional democracy since it was last published. Professor Francois du Bois did an outstanding job as general editor, while he and eight other members of the faculty contributed the bulk of the contents. Two important conferences were held during the year (on Labour Market Regulation and on Dignity Jurisprudence), the proceedings of the last one making up the contents of the 2008 edition of *Acta Juridica*.

I trust that this very strong performance in research will contribute further to the existence of a vibrant, critical, and socially-engaged scholarship in law in this country and increasingly abroad, as foreign legal scholars discover that they have much to learn from such works.

Professor Hugh Corder
Dean of Law

RESEARCH *groupings*

CENTRE FOR SOCIO-LEGAL RESEARCH

Since 1983, the Centre has done socio-legal research on how existing legislation affecting women, children, and the family operates in practice, with a view to pinpointing urgently needed reforms of South Africa's legal and social welfare systems. An aim has been to propose legally, economically, and politically viable and appropriate alternatives to deficient procedures and, within existing constraints, to assist in alleviating current problems.

Director: Professor S. Burman

E-mail: Sandra.Burman@uct.ac.za

Web: <http://www.uct.ac.za/depts/slr>

CENTRE OF CRIMINOLOGY

The Centre of Criminology (previously the Institute of Criminology), founded in 1977, is a research unit which aims to initiate, co-ordinate and develop research in the broad field of criminology, and to promote public interest in all aspects of criminology. The Centre's research programme focuses primarily on state policing, plural policing, crime prevention and environmental security, in particular the mitigation of and adaptation to climate change, with particular reference to the African context. Teaching support to the criminology focus within the Department of Public Law and research support is provided by the Centre's Multi-Media Electronic Research Library.

Director: Professor C. Shearing

E-mail: Clifford.Shearing@uct.ac.za

Web: <http://www.uct.ac.za/depts/criminology>

INSTITUTE OF DEVELOPMENT AND LABOUR LAW

The Institute of Development and Labour Law was established in 1996 through the merger of the Labour Law Unit and the Institute of Development Law. The Institute (through the former Labour Law Unit) has played a leading role in labour law teaching and research. It provides training courses in South Africa and other countries in Southern Africa. It also regularly contributes to training programmes of other organisations and collaborates closely with other leading university centres and NGOs.

Director: Professor E.R. Kalula

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DOCTORAL *graduations*

DOCTORAL GRADUATIONS

PROFESSOR N.N. RUBIN (COMMERCIAL LAW): DOCTOR OF LAW

Readings in African Law

Annual Survey of African Law

Code of International Labour Law

T. ACKSON (COMMERCIAL LAW)

Social security law and policy reform in Tanzania with reflections on the South African experience

Supervised by Professor E.R. Kalula and Professor B. Rutinwa

Y. NDEMA (COMMERCIAL LAW)

A critical analysis of the law on sexual harassment in the workplace in South Africa in a comparative perspective

Supervised by Professor J. Burchell and Professor E.R. Kalula

A. SCHEITHAUER (COMMERCIAL LAW)

Polygraph testing in the workplace in South Africa with reflections on the ILO standards, USA and Germany

Supervised by Professor E.R. Kalula

M. BUDELI (COMMERCIAL LAW)

Freedom of association and trade unionism in South Africa: From apartheid to the democratic constitutional order

Supervised by Professor E.R. Kalula and Professor M.C. Okpaluba

RESEARCH output

DEPARTMENT OF COMMERCIAL LAW

(INCLUDING THE INSTITUTE OF DEVELOPMENT AND LABOUR LAW)

AUTHORED BOOKS

JOOSTE, R.D. AND BENEKE, C. 2007. *Tax Alert*. Durban: LexisNexis. 138pp. ISBN 060TAXALERSYS.

CHAPTERS IN BOOKS

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UNIONS MUST STAND ON THEIR OWN FEET

Trade unions should stand on their own and deal with the burning issues of the workers' rights instead of spending too much time on political matters. So says Mpariseni Budeli, who graduated with a PhD in common law, in her thesis, *Freedom of association and trade unionism in South Africa: From apartheid to the democratic constitutional order*. Budeli argues that union federations such as COSATU should divorce themselves from politics and focus on issues affecting workers, such as empowering new leaders about strategies.

RESEARCH output

DEPARTMENT OF CRIMINAL JUSTICE

(INCLUDING THE CENTRE OF CRIMINOLOGY)

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TRIO OF A-RATED RESEARCHERS FOR LAW

Three researchers in the Faculty of Law were awarded A-ratings from the National Research Foundation, including Professor Drucilla Cornell (pictured above), UCT's first woman to receive the prestigious ranking. Cornell is one of only seven A-rated women in the country. She joined UCT just last year as professor in private law, taking up the new DST/NRF South African Research Chairs Initiative (SARChI) chair in Customary Law, Indigenous Values and Dignity Jurisprudence. Formally, her work is to develop a jurisprudence that encompasses Roman Dutch Law and ubuntu, or "people's law", an amalgam of ethics that can deal with the complex demands of the South African Constitution. The second is Professor Clifford Shearing, an internationally acknowledged leader in the field of security governance. He is director and chair of the Centre of Criminology in the Department of Criminal Justice, and holds the DST/NRF Research Chair in African Security and Justice. He is often sought out by governments worldwide to advise on how policing and security can be provided more effectively. Professor Danie Visser's A-rating recognises that his research has helped foster understanding between differently-configured legal systems, as well as his contribution to the creation of a comparative law of unjustified enrichment. Professor Visser teaches comparative law, comparative legal history, the law of delict, and unjust enrichment. For the past five years he has taught comparative law in the Juris Doctor programme at the University of Melbourne, Australia, as a visiting professor. He is chair of the South African chapter of the International Academy of Comparative Law, and a former president of the Southern African Society of Legal Historians.

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DEPARTMENT OF PUBLIC LAW

(INCLUDING THE INSTITUTE OF MARINE AND ENVIRONMENTAL LAW)

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CENTRE FOR SOCIO-LEGAL RESEARCH

ARTICLES IN PEER-REVIEWED JOURNALS

MALHERBE, C. 2007. Born into bastardy: The out-of-wedlock child in early Victorian Cape Town. *Journal of Family History*, 32: 21-44.

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FACULTY OF HUMANITIES

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DEAN'S *report*

A number of developments have taken place over the past year which hold great promise for the faculty, in each of its three research and teaching clusters: the Arts, the Social Sciences, and the Performing and Creative Arts. Colleagues in all three areas have excelled in the period of review.

Four DST/NRF Research Chairs have been awarded to Professors Carolyn Hamilton (Archive and Public Culture), Raj Mesthrie (Migration, Language and Social Change), Lungisile Ntsebeza (Land Reform and Democracy) and Abdulkader Tayob (Islam, African Publics and Religious Values). These Chairs will contribute to developing areas of research excellence at UCT and expanding the number of postgraduate students and postdoctoral fellows in the faculty.

There are now 40 NRF-rated scholars in the faculty. In 2007, NRF A-ratings were secured for the second time by Professors John de Gruchy and Philippe-Joseph Salazar.

These Chairs will contribute to developing areas of research excellence at UCT and expanding the number of postgraduate students and postdoctoral fellows in the faculty.

The Departments of English Language and Literature, and Psychology remain leaders in the production of peer-reviewed journal articles, Historical Studies in the production of book chapters, and the School of Languages and Literatures in the publication of monographs. The following are amongst the 30 books published by faculty staff in 2007: Bill Nasson: *Springboks on the Somme: South Africa in the Great War 1914-1918* (Penguin), Anthony Butler: *Cyril Ramaphosa* (Johannesburg: Ohio University Press), Chris van der Merwe and Pumla Gobodo-Madikizela: *Narrating our Healing: Perspectives on Working through Trauma* (UK: Cambridge Scholars Publishing), Crain Soudien: *Youth Identity in Contemporary South Africa: Race, Culture and Schooling* (Claremont: New Africa Books), Yasin Dutton: *Original Islam. Malik and the Madhhab of Madina* (Routledge & Taylor & Francis) and Abner Nyamende: *"Ubuncwane Bosiba", an Anthology of Xhosa Poetry* (Cape Town: Oxford University Press).

Colleagues in the Creative and Performing Arts have continued to produce work of national and international



significance. In 2007, Professor Jane Alexander exhibited in Spain, Italy, Germany, Sweden and the USA, as well as in South Africa. La Noire Galerie presented Gavin Younge's retrospective exhibition 'Prosthesis' in Paris, and Pippa Skotnes produced the widely acclaimed monograph *Claim to the Country: The Archive of Wilhelm Bleek and Lucy Lloyd* (Ohio University Press). The research report details the wide repertoire of the South African College of Music, in terms of compositions and performances, and the innovative contributions of Drama, Dance, Film and Media, and Creative Writing. Last year the faculty, together with the Baxter Theatre Centre, established the Institute for the Performing and Creative Arts to promote interdisciplinary activity across the performing and creative arts departments, through exhibitions, performances, and festivals.

The past year saw a significant increase in the number and quantum of research contracts, with the faculty now drawing the largest number of contracts from the science councils of any faculty at UCT. We are fortunate to have secured significant Mellon funding for postdoctoral fellows, for bringing distinguished visiting scholars to UCT and enabling young scholars to make contact visits abroad. A substantial grant to the Centre for Social Science Research will support research activity in the social sciences over the next few years.

Overall 2007 was an excellent year for research activity in the faculty, and initiatives have been taken which will reap rewards for many years to come.

Professor Paula Ensor
Dean of Humanities

RESEARCH

groupings

CENTRE FOR CONTEMPORARY ISLAM

The Centre for Contemporary Islam was established in 1996. It is devoted to the study of Islam and Muslim communities, especially those on the African continent. The Centre is based in the Department of Religious Studies but it has the active participation of scholars from outside the department as well.

Director: Professor Abdulkader Tayob

E-mail: Abdulkader.Tayob@uct.ac.za

Web: <http://www.uct.ac.za/departments/islam/index.php>

CENTRE FOR CREATIVE WRITING

The Centre for Creative Writing fosters the development of, and attracts attention to, the literary arts, both at UCT and in the wider community. It is fast becoming the premier creative writing centre on the African continent and has established links with writers throughout South Africa and internationally. Boasting two Nobel Prize nominees among its teaching staff, the Centre offers its students exceptional and world-class teaching expertise.

Director: Professor S.F.T. Watson

E-mail: Stephen.Watson@uct.ac.za

Web: <http://www.uct.ac.za/departments/creativewrite/index.php>

CENTRE FOR POPULAR MEMORY

The Centre for Popular Memory prioritises the stories of marginalised peoples. Central activities are research projects on memory, identity, place, space and trauma; training students in memory studies and oral history methodology; archiving oral, visual and audio-visual sources; and disseminating peoples' stories to on and off-campus audiences through academic/popular history books and articles, travelling exhibitions, radio programmes, film documentaries and an online digital database.

Director: Dr S. Field

E-mail: Sean.Field@uct.ac.za

Web: <http://www.popularmemory.org>

CENTRE FOR RHETORIC STUDIES

The Centre was founded in 1995, as an academic response to the establishment of democracy in South Africa, and in the wake of a large international conference on "Persuasion and Power" held in July 1994. The Centre is unique on the Continent and concerns itself with multidisciplinary research in public rhetoric, deliberative democracy and argumentative culture. The Centre's brief is to foster research in the interface between rhetoric (the study of deliberation in the public sphere) and the development of democracy, by engaging in three main

activities: hosting research Fellows, organising academic conferences and registering postgraduate students. The Centre is the site for a number of international research projects (funded by the NRF).

Director: Distinguished Professor Ph.-J. Salazar

E-mail: Philippe.Salazar@uct.ac.za

Web: <http://www.rhetoricafrika.org>

CENTRE FOR SOCIAL SCIENCE RESEARCH

The Centre for Social Science Research (CSSR) is an interdisciplinary research centre dedicated to conducting and building capacity for systematic, policy-relevant social science research in South Africa, the region and across Africa. CSSR projects are usually team-oriented, bringing together multiple local and international researchers, and offering postgraduate students significant opportunities for hands-on training by involving them in all stages of projects. Research findings are presented and discussed at regular weekly seminars and published as CSSR Working Papers. Substantively, the CSSR conducts research in the broad areas of democratisation, development, poverty and public health. The Social Surveys Unit conducts research on a range of social dynamics using survey data (especially the Cape Area Panel Survey and the Cape Area Survey) and related qualitative data. The Democracy in Africa Research Unit conducts research on a range of issues around democratisation in South and Southern Africa, using public opinion data but also creating new systematic databases on elections, legislatures and local government. Finally, the AIDS and Society Research Unit conducts research on the social impacts of HIV/AIDS, including issues of parenting, disclosure, sexual behaviour and public welfare, again using both survey and qualitative data.

Director: Professor R. Mattes

E-mail: Robert.Mattes@uct.ac.za

Web: <http://www.uct.ac.za/departments/socialscience/index.php>

INSTITUTE FOR COMPARATIVE RELIGION IN SOUTHERN AFRICA

The Institute for Comparative Religion in Southern Africa (ICRSA) is dedicated to the postcolonial study of religion and religions in South Africa and the Southern African region. In addition to developing resources for the study of religions and reconfiguring the study of religion from a Southern African perspective, ICRSA has developed applied research projects in religion education by negotiating policy, providing materials for teachers, conducting workshops, and participating in the International Network for Interreligious and Intercultural Education.

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Director: Professor D.S. Chidester

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Web: http://www.uct.ac.za/departments/comp_religion/index.php

UNIT FOR INTERCULTURAL AND DIVERSITY STUDIES

Our increasingly interconnected and diverse world requires that people have the insight, skills and capacities to handle human differences constructively. South Africa is no exception, and needs to foster a national culture that values communities of difference in organisational, public and civic life within a context of social equity. The Unit for Intercultural and Diversity Studies (iNCUDISA) aims to contribute to these needs through formal and informal teaching and learning, and contextually sound research into questions of intercultural communication, social identity, co-existence and diversity. As a regional resource centre, iNCUDISA is developing the interface between academic theory and social practice, drawing together expertise in the Southern African region, and linking to other institutions globally that share similar objectives.

Director: Associate Professor M.E. Steyn

E-mail: Melissa.Steyn@uct.ac.za

Web: <http://incudisa.uct.ac.za/>

ISAAC AND JESSIE KAPLAN CENTRE FOR JEWISH STUDIES AND RESEARCH

The Isaac and Jessie Kaplan Centre for Jewish Studies and Research was established in 1980 under the terms of a gift to the University of Cape Town by the Kaplan Kushlick Foundation and is named in honour of the parents of Mendel and Robert Kaplan. It is an autonomous centre, with its own governing body. The Centre is the only one of its kind in South Africa. It seeks to stimulate and promote the whole field of Jewish studies and research at the University with a special focus on the South African Jewish community. The Centre is multidisciplinary in scope and encourages the participation of scholars in a range of fields including history, political science, education, sociology, comparative literature and the broad spectrum of Hebrew and Judaic studies.

Director: Professor M. Shain

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Web: <http://www.uct.ac.za/departments/kaplan/index.php>

LUCY LLOYD ARCHIVE, RESOURCE AND EXHIBITION CENTRE

The Lucy Lloyd Archive, Resource and Exhibition Centre (LLAREC) is a research centre aimed at the promotion of the visual as a site of meaning and knowledge. Its focus is on collections and curatorship through which objects are allowed to become both

sites of knowledge and mnemonics through which reference can be made to a wider resonance of meaning. At the heart of our curatorial practice is the issue of representation, and many of our projects have interrogated the ways in which the historical, social and medical construction of identity has been revealed through representation. Major projects have included the publication of the Bleek and Lloyd archive, the production of portfolios and artists' books and the installation of exhibitions at a variety of venues. LLAREC incorporates the Katrine Harries Print Cabinet.

Director: Professor P. Skotnes

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Web: <http://michaelis.uct.ac.za>

RESEARCH INSTITUTE ON CHRISTIANITY AND SOCIETY IN AFRICA

The Research Institute on Christianity and Society in Africa (RICSAs) engages in high-quality research on religion in public life in the context of challenges of globalisation, diversity and identity, and public health in Africa. Its major current activity is through the African Religious Health Assets Programme (ARHAP), a multiinstitutional, multisite, interreligious, transdisciplinary collaborative research project, with the co-ordinating hub at UCT. Initiated in 2003 with colleagues from Emory University, USA, it includes two other Collaborative Centres at Wits University and the University of KwaZulu-Natal, and works with several other collaborating partners in Africa, Europe and the USA (including a three-year partnership agreement with the Religion and the Human Spirit Initiative at Emory University). ARHAP, focused on the interface between religion and public health in Africa, engages in mapping and assessment of religious health assets (RHAs), policy development and practice, capacity building (especially through supporting master's and doctoral research), publications, a resource centre, and building a long-term network of scholars and practitioners. Targeted country assessment of RHAs in Lesotho and Zambia under contract to the WHO, a case study on Masangane, an integrated faith-based initiative in response to HIV and AIDS in the Eastern Cape, and further country studies commissioned by a major foundation in Zambia, Mali and Uganda are complete, while country studies are currently underway for UNAIDS/Tearfund in Kenya, Malawi and the DRC. RICSAs has also completed a multiyear project on The Social History of Christianity in South Africa, 1487-1994, with multiple volumes, archives and a database now available on CD-ROM, two volumes of which will also be published by Unisa Press in 2008.

Director: Professor J.R. Cochrane

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DOCTORAL graduations

PROFESSOR P.A. SKOTNES (FINE ART): DOCTOR OF LITERATURE

Representing the Bleek and Lloyd Archives: Selected work from 1991-2007

The Archive of Lucy Lloyd and Wilhelm Bleek: Claim to the country

J. AABOE (RELIGIOUS STUDIES)

The other and the construction of cultural and Christian identity: The case of the Dutch Reformed Church in transition

Supervised by Emeritus Professor J.W. de Gruchy

P.R. ANDERSON (ENGLISH LANGUAGE AND LITERATURE)

The host of vagabonds: Origins and destinations of the vagrant in Cape history and literature

Supervised by Professor D. Schalkwyk and Associate Professor N. Penn

A.H. BLACK (ECONOMICS)

Automotive policy and the restructuring of the South African industry, 1990-2005

Supervised by Professor D. Kaplan

L.J.K. BONATE (HISTORICAL STUDIES)

Traditions and transitions: Islam and chiefship in northern Mozambique, 1850-1974

Supervised by Dr S. Jeppie and Professor D. Hedges

R. BRANDT (PSYCHOLOGY)

Does HIV matter when you are poor and how? The impact of HIV/AIDS on the psychological adjustment of mothers in the era of HAART

Supervised by Dr L. Wild and Emeritus Professor A. Dawes

J. BROWNE (ENVIRONMENTAL AND GEOGRAPHICAL SCIENCES)

Policy communities and local governance: The socio-spatial intersections of urban transformation in post-apartheid South Africa

Supervised by Professor S. Parnell

R.J. CHADWICK (PSYCHOLOGY)

Paradoxical subjects: Women telling birth stories

Supervised by Professor D.H. Foster and Professor T. Shefer

R.N. FARIS (RELIGIOUS STUDIES)

A changing paradigm of mission in the Protestant churches of Mozambique: A case study of Eduardo Mondlane

Supervised by Emeritus Professor J.W. de Gruchy

T.L. GIRAUD (LANGUAGES AND LITERATURES)

La Fable comme dixième «forme simple»: une étude comparative du «Crépuscule des Loups» de Jean Dutourd avec les «Fables» de Jean de La Fontaine

Supervised by Professor J.L. Cornille and Dr E. Sienaert

A.J. HADLAND (CENTRE FOR FILM AND MEDIA STUDIES)

The South African print media, 1994-2004: An application and critique of comparative media systems theory

Supervised by Professor I.E. Glenn

S.M. HOFFMAN (PSYCHOLOGY)

Breaking the silence on violation in South African prisons

Supervised by Professor D.H. Foster and Associate Professor C.T. Tredoux

J.P. JAWITZ (EDUCATION)

Becoming an academic: A study of learning to judge student performance in three disciplines at a South African university

Supervised by Associate Professor S. Shay and Associate Professor J. Case

C. KRONENBERG (ENGLISH LANGUAGE AND LITERATURE)

Manifestation of humanism in Cuban history, politics and culture

Supervised by Professor J. Higgins

C.M. KWENDA (EDUCATION)

Reconceptualising the child within the family and the school: An investigation into how Zimbabwean children orphaned by AIDS negotiate their personal identity within a stigmatising society

Supervised by Professor C. Soudien and Dr M.J. Baxen

M.G. MAKOA (SOCIOLOGY)

An experiential study of caregiving for HIV and AIDS patients in the 'pre-arv era' in Lesotho

Supervised by Associate Professor K. Jubber

L. MAREPO (HISTORICAL STUDIES)

The role of Umkhonto we Sizwe (MK) in the national liberation struggle in South Africa with reference to the rural far Northern Transvaal, 1976-1990

Supervised by Professor C.C. Saunders

B.J. MYERS (PSYCHOLOGY)

Access to alcohol and drug treatment for people from historically disadvantaged communities in the Cape Town metropole

Supervised by Professor J.A. Louw

J.H. NIEDER-HEITMANN (RELIGIOUS STUDIES)

Christendom at the Cape: A critical examination of the early Dutch Reformed Church

Supervised by Emeritus Professor J.W. de Gruchy

E.M. ONDARI-OKEMWA (INFORMATION AND LITERACY STUDIES)

An investigation into the practices, procedures, and challenges of knowledge management in government-owned organisations in Kenya

Supervised by Dr G. Smith

DOCTORAL graduations

G.W. OUMA (EDUCATION)

Reducing resource dependence on government funding: The case of public universities in Kenya and South Africa

Supervised by Professor C. Soudien and Dr N. Cloete

J. PATRICK (ENGLISH LANGUAGE AND LITERATURE)

O. Douglas and the borders of fictional identity

Supervised by Dr P. Knox-Shaw

M.F. RICKARDS (CENTRE FOR FILM AND MEDIA STUDIES)

Screening interiority: Dream, the unconscious, emotion and imagination in cinematic language

Supervised by Dr J. Stadler and Associate Professor L. Marx

I. RIJSDIJK (CENTRE FOR FILM AND MEDIA STUDIES)

Seeking the other shore: Myth and history in the films of Terrence Malick

Supervised by Associate Professor L. Marx

D. ROUX (ENGLISH LANGUAGE AND LITERATURE)

Presenting the prison: The South African prison auto-biography under apartheid

Supervised by Professor D. Schalkwyk

L.Y. SHACKLETON (AFRICAN GENDER INSTITUTE)

Negotiating institutional transformation: A case study of gender-based change in a South African university

Supervised by Associate Professor J. Bennett and Professor A. Mama

L.E. SIKOYO (EDUCATION)

Primary teachers' recontextualisation of a curriculum innovation in Uganda

Supervised by Dr H. Jacklin

F.A.H. SMITH (LANGUAGES AND LITERATURES)

Letterkunde en die dood: Onmoontlikheid en die moontlikhede van die teks

Supervised by Professor H.J. Snyman

C. STEINER (ENGLISH LANGUAGE AND LITERATURE)

Translated people, translated texts: Language and migration in some contemporary African fiction

Supervised by Professor B.L. Cooper

D. TALJAARD (SOCIOLOGY)

Tracking the risk factors and impact of an intervention to reduce the spread of the HIV/AIDS epidemic in Carletonville, South Africa

Supervised by Professor O. Crankshaw

K. THOMAS (ENGLISH LANGUAGE AND LITERATURE)

Between life and death: HIV and AIDS and representation in South Africa

Supervised by Professor J. Higgins

C.J. THURMAN (ENGLISH LANGUAGE AND LITERATURE)

Guy Butler from a post-apartheid perspective: Reassessing a South African literary life

Supervised by Professor S.F.T. Watson

L.K. VON DEN STEINEN (HISTORICAL STUDIES)

Experiencing the armed struggle: The Soweto generation and after

Supervised by Professor C.C. Saunders

M.M. WATSON-SEOIGHE (CENTRE FOR FILM AND MEDIA STUDIES)

The cutting edge: Deviant realisms and cinematic disruption

Supervised by Professor J. Higgins

T. YANNAY (HEBREW AND JEWISH STUDIES)

The didactic utilization of the Bible and Midrash in the plays of Zalman Aaron Lison

Supervised by Dr A. Reisenberger

C. YU (PSYCHOLOGY)

Brain mechanisms of dreaming

Supervised by Professor M. Solms

RESEARCH output

AFRICAN GENDER INSTITUTE

CHAPTERS IN BOOKS

BRADFORD, H. 2007. Not a Nongqawuse story: An anti-heroine in historical perspective. In N. Gaza (ed.), *Women in South African History*, pp. 43-89. Cape Town, South Africa: Human Sciences Research Council Press. ISBN 978 0796921741.

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SALO-MILLER, E. 2007. Gendered citizenship, race and women's differentiated access to power in the new South Africa. *Agenda*, 72: 187-196.

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CENTRE FOR AFRICAN STUDIES

CHAPTERS IN BOOKS

BOGUES, A. 2007. The politics of power and violence: Rethinking the political in the Caribbean. In B. Meeks (ed.), *Culture, Politics, Race and Diaspora*, pp. 197-217. London, UK: Lawrence & Wishart. ISBN 978-190-500-761-5.

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ZELEZA, P. 2007. Introduction: The causes and costs of war in Africa from liberation struggles to the "War on Terror". In A. Nhema and P.T. Zeleza (eds), *The Roots of African Conflict - The Causes & Costs*, pp. 1-35. Oxford: James Currey Ltd. ISBN 9781847013002.

ZELEZA, P. 2007. Introduction: The internationalisation of African knowledges. In P.T. Zeleza (ed.), *The Study of Africa*, pp. 1-24. Senegal: Council for the Development of Social Science Research in Africa. ISBN 9782869781986.

ZELEZA, P. 2007. Journeying to excellence: Knowledge, diaspora and leadership. In O. Wambu (ed.), *Under the Tree of Talking: Leadership for Change in Africa*, pp. 231-251. London: Counterpoint. ISBN 12453654.

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RESEARCH output

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GREEN, L. AND MURRAY, N. 2007. Introduction: Life space and burial space in the post-apartheid city. *Journal for Islamic Studies*, 24/25: 4-16.

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CENTRE FOR CONFLICT RESOLUTION

EDITED BOOKS

ADEBAJO, A., ADEDEJI, A. AND LANDSBERG, C. (EDS) 2007. *South Africa in Africa: The Post-Apartheid Era*. Scottsville, South Africa: University of KwaZulu-Natal Press. ISBN 978-1-86914-134-9.

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DEPARTMENT OF DANCE

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CREATIVE WORK

COMPOSITIONS

CHEESMAN, D. 2007. *Facets of Africa*. Commissioned by Cape Junior Ballet. Junior Ballet Company. 1 Hour.

CHEESMAN, D. 2007. *Magical Journey around the World*. Commissioned by UCT Junior Ballet School. 1 Hour.

RAIZENBERG, L.S., MULLER, S., VAN WYK, R., BLANK, A., NDABENI, M. AND NDINDWA, T. 2007. *Nomvula: After the Rain*. Commissioned by Cape Town City Ballet. Ballet. 1 hour.

RAIZENBERG, L.S. 2007. *Train Love*. Commissioned by Cape Town City Ballet. 10 minutes.

RANI, M.X. 2007. *Kutheth'ithongo*. Commissioned by La Rosa Spanish Dance Theatre. Spanish Dance Company. 20 minutes.

RANI, M.X. 2007. *Porgy & Bess*. Commissioned by Cape Town Opera. 2 hours.

PERFORMANCES

FOURIE, D.J. AND NTSHEBE, S. 2007. (Accompanist) *Italian Opera Recital*. With Siphwe Ntshebe. School of Philosophy, Claremont, Cape Town; Steenberg Golf Estate, Tokai, Cape Town, 16,17 October 2007.

GREYLING, E. 2007. (performer) *The role of Drosselmeyer*. Artscape Theatre, Cape Town; Guy Butler Theatre, Grahamstown, January and June 2007.

PRODUCTIONS

CHEESMAN, D. 2007. *Kaleidoscope*. Production and Direction. Bellville Civic Centre, Bergvliet High School Hall, Cape Town. Commissioned by UCT Junior Ballet School. 13-14 April.

RAIZENBERG, L.S. AND GREYLING, E. 2007. *uctdance.com*. Direction. Dancers. Artscape Theatre, Cape Town. Commissioned by UCT School of Dance. 1-3 November.

TRIEGAARDT, E.E. 2007. *Carmen*. Production. Dance. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 25 May – 3 June.

TRIEGAARDT, E.E. 2007. *Kami*. Production & direction. Dancers. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 9-16 June.



THE UNHAPPY MK AND APLA SOLDIERS

Many cadres of the African National Congress and Pan Africanist Congress military wings are finding life difficult in the new South Africa. While some are doing well in their lives, many had great difficulty making the transition to normal life, felt betrayed and abandoned by their organisations and marginalised in society. So says Lynda von den Steinen, who graduated with a PhD in history, in her thesis, *Experiencing the Armed Struggle: The Soweto generation and after*.

RESEARCH

output

TRIEGAARDT, E.E. 2007. *The Nutcracker*. Production & direction. Dancers. Guy Butler Theatre, Grahamstown. Commissioned by Cape Town City Ballet. 27 June – 3 July.

TRIEGAARDT, E.E. 2007. *Camille*. Production. Dance. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 4-12 August.

TRIEGAARDT, E.E. 2007. *CTCB Celebrates 10 Years*. Production & direction. Dancers. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 11-14 October.

TRIEGAARDT, E.E. 2007. *Tribute To The Stars*. Production & direction. Dancers. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 12 October.

TRIEGAARDT, E.E. 2007. *Orpheus in the Underworld*. Production. Dancers. Artscape Opera House, Cape Town. Commissioned by Cape Town City Ballet. 12 December – 6 January.

TRIEGAARDT, E.E. 2007. *Christmas Classics*. Production & direction. Dancers. Artscape Opera House. Commissioned by Cape Town City Ballet. 24 December.

RE-STAGINGS

RAIZENBERG, L.S. 2007. *Vivaldi Variations*. Restaging: rechoreographed & reproduced. Artscape Theatre, Cape Town. Commissioned by UCT School of Dance. 1-3 November.

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DEPARTMENT OF DRAMA

(INCLUDING THE LITTLE THEATRE)

ARTICLES IN PEER-REVIEWED JOURNALS

BANNING, Y. 2007. Creating vocal style in a scripted theatre production: Issues of visibility, autonomy and integration in vocal practice as research. *South African Theatre Journal*, 21: 180-203.

FLEISHMAN, M. AND DAVIDS, N. 2007. Moving theatre: An exploration of the place of theatre in the process of memorialising District Six through an examination of Magnet Theatre's production "Onnest'bo". *South African Theatre Journal*, 21: 149-166.

KABWE, M. 2007. Transgressing boundaries: Making theatre from an Afropolitan perspective. *South African Theatre Journal*, 21: 46-65.

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PATHER, J. 2007. A response: African contemporary dance? Questioning issues of a performance aesthetic for a developing continent. *Critical Arts: A Journal of South North Cultural and Media Studies*, 20: 9-15.

CREATIVE WORKS

FLEISHMAN, M. 2007. *"Cargo"* Directed. Physical Theatre. Spier Amphitheatre, Stellenbosch; Guy Butler Theatre, Grahamstown; Baxter Theatre, Cape Town; Artscape Theatre, Cape Town.

FLEISHMAN, M. 2007. *"Every Year, Every Day, I am Walking"* Devised and Directed. Physical Theatre. African Festival for Children and Youth Theatre, Yaounde, Cameroon. April 2007.

HYLAND, G. 2007. *"Viaje Flamenco"* Directed. Set Design. Dance. Commissioned by Oude Libertas and La Rosa Spanish Dance Company. Oude Libertas Theatre, Stellenbosch. 7-17 February 2007.

HYLAND, G. 2007. *"Kissed By Brel"* Directed. Set Design. Cabaret. Produced by Cockpit Productions. Intimate Theatre, Cape Town (1-11 February 2007); National Festival of Arts (Fringe), Grahamstown (28 June-6 July 2007); Theatre on the Bay, Cape Town (1-11 August 2007); Montecasino Theatre, Johannesburg (12-29 September 2007).

HYLAND, G. 2007. *"Mirror, Mirror"* Directed. Theatre. Official UCT Student Festival production, National Festival of Arts, Grahamstown (29 June – 11 July 2007); School's Festival, Grahamstown; Arena Theatre Cape Town (August 2007); Hilton Festival, KwaZulu-Natal (14, 15 September 2007); Spier Amphitheatre, Stellenbosch (24 September 2007).

HYLAND, G. 2007. *"Women Beware Women"* Directed. Set Design. Theatre. Produced by Cockpit Productions. Little Theatre, Hiddingh Campus, UCT (9- 20 October 2007).

MBOTHWE, M. 2007. *"Kutheth 'Ithongo"* Written and Directed. Arena Theatre, Artscape, Cape Town (9 – 20 May 2007).

MILLS, E. 2007. Research Practice from the body of work *"Voice as Material"* Presented. By invitation from Centre for Excellence in Training for Theatre, The Central School of Speech and Drama, University of London, London (9 – 10 January 2007).

PATHER, J. 2007. *"Intersection"* Choreography Commissioned by Design Indaba Conference. International Convention Centre, Cape Town, February 2007.

PATHER, J. 2007. *"CT Dusk; Artefact; Labyrinth; Gargoyle"* 4 Short mixed media dance theatre works. Choreography. Commissioned by Design Indaba Conference. International Convention Centre, Cape Town, February 2007.

PATHER, J. 2007. *"Taal (Rhythm Conversation) I, II and III and Medley"*. Choreography. Muscat, Sultanate of Oman (Invited by the South African High Commission to Oman) February 2007.

PATHER, J. 2007. *"CityScapes 1: Thibault Square"* *"CityScapes 2: Cape Town Station"*. *"CityScapes 3: Seapoint Promenade"*. Choreography. Site specific work. Cape Town, March 2007.

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PATHER, J. 2007. "Dancing with Shadows". Choreography. Collaboration with photographer, Santu Mofokeng and the Remix Dance Company. South African National Gallery, Cape Town, April 2007.

PATHER, J. 2007. "Fresh 2". Choreography. Main Festival, National Arts Festival, Grahamstown, July 2007.

TEMMINGH, S. 2007. "Slemstreke" based on Moliere's Scapino. Direction. Klein Karoo Nasionale Kunstefees Oudschoorn; Oude Libertas Stellenbosch; Arstcape, Cape Town.

WEARE, C. 2007. "Stressed to Kill" by Alan Committie. Directed. Montecasino Theatre, Johannesburg (4 February – 31 March 2007); Theatre on the Bay, Cape Town (11 December - 18 January 2007).

WEARE, C. 2007. "Lawe Geluide" by Michael Frayn. Directed. Klein-Karoo Nasionale Kunstefees Burgersentrum, Oudtshoorn (31 March - 8 April 2007); Volksblad Kunstefees Sand Du Plessis Teater, Bloemfontein (10 - 15 June 2007); Kalfiefees, Hermanus (10 - 11 August 2007); Aardklop, Potchestroom (27- 30 September 2007).

WEARE, C. 2007. "Rosencrantz & Guildenstern are Dead" by Tom Stoppard Directed. Set Design. Little Theatre, UCT, Cape Town (20 April - 5 May 2007).

WEARE, C. 2007. "Waiting for Thandiwe" Original text by Lulama Masimini. Additional writing by Christopher Weare & Lulama Masimini Directed. National Arts Festival, Grahamstown Dicks, Monument (2 - 10 July 2007); 969 Festival, Wits Theatre, Johannesburg (15 - 21 July 2007).

WEARE, C. 2007. "Footprints / Encounter". Conceived & Co-directed (Cape Town). A theatrical event performed as a result of the Ragnarock (Danish) and the Little Theatre (South African) collaboration: Encounter: Celebration of Life Project Arena Theatre, UCT, Cape Town (19 - 20 July 2007); Humlaebeck, Denmark (10 - 20 September 2007).

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SCHOOL OF EDUCATION

(INCLUDING THE SCHOOLS DEVELOPMENT UNIT (SDU) AND THE CENTRE FOR APPLIED LANGUAGE AND LITERACY STUDIES AND SERVICES IN AFRICA (CALLSSA))

AUTHORED BOOKS

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DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

(INCLUDING LINGUISTICS AND THE CENTRE FOR CREATIVE WRITING)

AUTHORED BOOKS

HUGHES, G. 2007. *An Encyclopedia of Swearing: The Social History of Oaths, Profanity, Foul Language and Ethnic Slurs in the English-Speaking World*. Armonk, NY, USA: M E Sharpe Inc. ISBN 572. 0-7656-1231-3.

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SCHALKWYK, D.J. 2007. Shakespeare's poetry and performance. In P. Cheney (ed.), *The Cambridge Companion to Shakespeare's Poetry*, pp. 241-259. New York, USA: Cambridge University Press.

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WATSON, S.F.T. 2007. Poetry and Absence One Writer's Account. In P.W. Ashton (ed.), *Evocations of Absence: Multidisciplinary Perspectives on Void States*, pp. 8-32. USA: Spring Journal.



Word perfect: Professor David Schalkwyk receives the Thomas Pringle Prize from Barbara Basel, president of the English Academy of Southern Africa.

UCT SCHOLAR WINS THOMAS PRINGLE AWARD

Professor David Schalkwyk has won the 2006 Thomas Pringle Award for best literary article from the English Academy of Southern Africa. Schalkwyk, of the Department of English Language and Literature, received the prize for his article *Race, Body and Language in Shakespeare's Sonnets and Plays*, published in the journal *English Studies in Africa* in 2004. In the piece, Schalkwyk tackled the thorny issue of Shakespeare's assumed take on the racial politics of his time.

RESEARCH

output

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- CHIRAMBO, R. 2007. Orality and Subversion in Jack Mapanje's Of Chameleons and Gods. *International Fiction Review*, 34: 79-91.
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- DISTILLER, N. 2006. 'There was a woman known to be so bold': Gender in Petrarchism. *The Southern African Journal of Medieval and Renaissance Studies*, 16: 61-91.
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MICHAELIS SCHOOL OF FINE ART

(INCLUDING THE LUCY LLOYD ARCHIVE, RESOURCE AND EXHIBITION CENTRE LLAREC)

AUTHORED BOOKS

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CAMPBELL, K.D. 2007. *Pillows for Death (Open Studio Exhibition)*. Fundament Foundation Studio, International Residency and Exhibition, Tilburg, Netherlands. 21-22 July.

JOSEPHY, S. 2007. *Twin Town (solo exhibition)*. Bell-Roberts Gallery, Cape Town. 14 November – 22 December.

LANGERMAN, F. 2007. *The Knowledge Chambers (solo exhibition)*. Bell-Roberts Gallery, Cape Town. 1 June – 31 July.

VAN DER SCHIJFF, L.J. 2007. *The Arm-Wrestling Podium or AWP (solo exhibition)*. Worldart Gallery, Cape Town. 1-9 November.

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ZAAYMAN, C. 2007. *The Secret Adventures of Lady Anne Barnard*. Irma Stern Museum, Cape Town. 7 September – 1 October. The Secret Adventures of Lady Anne Barnard, and other diversions. Gallery Fried, Pretoria, Gauteng. 7-28 July.

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ALEXANDER, J. 2007. *Africa Remix*. (curator Simon Njami). Johannesburg Art Gallery, Gauteng. 24 June – 30 September.

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INGGS, S.C. 2007. *AIPAD Miami*. International Contemporary Art Fair for Photo-based Art, Video and New Media. Wynwood Art District, Miami, Florida. 5-9 December.

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RARE DOCTORATE FOR FINE ART SCHOLAR

Director of the Michaelis School of Fine Art, Professor Pippa Skotnes, received a Doctorate of Literature from UCT, becoming the third and probably the last recipient. The honour recognises the recipient's lifetime contribution to scholarly publications, and Skotnes has done work focusing on the Bleek and Lloyd Archive and "on the visual as a site of interpretation". It proposes that research potential may be limited by a dependency on text alone and that interpretation is enriched by expanding the ways in which research is expressed in publication. In its focus on the archive, it addresses questions about the relationship of text to image and object, about methods of analysing past societies, and about the "potential of knowing through making". On publication, it raises questions about what a book is, its possibilities and its limits and about the ways in which publication can elude the written word through exhibition and display.

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DEPARTMENT OF HISTORICAL STUDIES

(INCLUDING THE CENTRE FOR POPULAR MEMORY)

AUTHORED BOOKS

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Please refer to the web-based research report, www.research2007.uct.ac.za.

SCHOOL OF LANGUAGES AND LITERATURES

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Healing words: Assoc. Prof. Pumla Gobodo-Madikizela and Assoc. Prof. Chris van der Merwe have married literature and psychology in their new book, Narrating our Healing: Perspectives on Working through Trauma.

LITERATURE AND PSYCHOLOGY BOOKED TOGETHER

A new book, born out of a postgraduate course and a Summer School programme, combines two disciplines – literature and psychology – to offer victims of trauma hope for a new lease on life. What's been running as a master's course since 2003 and developed into a series of summer school lectures in 2005 has now been turned into a book that marries literature and psychology. The book, *Narrating our Healing: Perspectives on Working through Trauma*, was co-authored by Associate Professor Chris van der Merwe of the School of Languages and Literatures and Associate Professor Pumla Gobodo-Madikizela of the Department of Psychology.

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AUTHORED BOOKS

ROSSI, M.J. 2007. *Uncommon Etudes from Common Scales*. Germany: Advance Music. 112pp. ISBN 3892210837. Also printed in Japan: Japanese Edition Advance Music, ATN, inc. 109pp.

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CREATIVE WORKS

ARRANGEMENTS

ANDREWS, D.I. 2007. *It Had Better Be Tonight*. Requested by UCT Big Band. Vocalist, Big Band. 5 min.

ANDREWS, D.I. 2007. *Renaissance Song*. Requested UCT Big Band. Guitar, Big Band. 5 min.

ANDREWS, D.I. 2007. *Requested by UCT Big Band*. Trumpet, Big Band. 3 min.

ANDREWS, D.I. 2007. *Soon*. Requested by UCT Big Band. 4 min.

ANDREWS, D.I. 2007. *Wesley Street*. Requested by UCT Big Band. Guitar, Big Band. 5 min.

CAMPBELL, M.I. 2007. *Dudu (Imeko)*. 9-piece jazz ensemble. 4 min.

CAMPBELL, M.I. 2007. *Mme Motswadi* (Judith Sephuma). Soloist, symphony orchestra, rhythm section. 4 min.

CAMPBELL, M.I. 2007. *Mpumalanga* (African Jazz Pioneers). 9-piece jazz ensemble. 3 min.

CAMPBELL, M.I. 2007. *My Romance* (Rogers & Hart). Soloist, jazz septet. 4 min.

CAMPBELL, M.I. 2007. *Seshego* (Selaelo Selota). Soloist, symphony orchestra, rhythm section. 5 min.

HOFMEYR, H.P. 2007. *Pie Jesu*. Requested by Zanne Stapelberg. Soprano, string orchestra. 4 min.

HOFMEYR, H.P. 2007. *Preludio e umsindo*. Requested by UCT Symphony Orchestra. Orchestra. 10 min.

COMPOSITIONS

ANDREWS, D.I. 2007. *Blue Natural*. A tribute to the Blues. Guitar, tenor saxophone, Big Band. 6 min.

ANDREWS, D.I. 2007. *Just Not Me*. Commissioned by SAMRO for the Overseas Scholarship for Vocalists. Voice, piano. 4 min.

CAMPBELL, M.I. 2007. *Mystic Muti*. Stage band. 4 min.

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HOFMEYR, H.P. 2007. *Concerto for saxophone and orchestra*. Commissioned by Hugo Lambrechts Music Centre. Alto saxophone, orchestra. 10 min.

HOFMEYR, H.P. 2007. *Desert Sun*. Commissioned by Kamer Choir (Latvia). 8-part mixed choir. 5 min.

HOFMEYR, H.P. 2007. *Dover Beach* (Matthew Arnold). Commissioned by Distell Foundation for the Performing Arts for Collage. High voice, flute, cello, piano. 8 min.

HOFMEYR, H.P. 2007. *Lachrymae*. Commissioned by Goran Krivokapic. Guitar. 14 min.

HOFMEYR, H.P. 2007. *The Birth of Orc* (William Blake). SA Youth Choir. 8-part mixed choir. 4min.

KLATZOW, P.J.L. 2007. *Barcarole*. Dedicated to Jeffrey Jacob. Piano. 8 min.

KLATZOW, P.J.L. 2007. *Music to Umsulwa*, a film by Peter Krummeck and Tamara Semevsky. Cello. 20 minutes.

KLATZOW, P.J.L. 2007. *Play of Bells*. 2 pianos. 8 min.

KLATZOW, P.J.L. 2007. *Two Bagatelles for piano*. Dedicated to Guy Livingstone. Piano. 2 min.

ROSSI, M.J. 2007. *13 jazz etudes with transposed chords*. C, Bb, Eb, treble clef instruments. 39 min.

PERFORMANCES

ANDREWS, D.I. (soloist), Campbell, M.I. (conductor, arranger), Lilley, A. (soloist), Rossi, M. (soloist) 2007. *UCT Alumni Concert*. With Judith Sephuma, Marcus Wyatt, Sibongile Ngoma, Selaelo Selota. Baxter Concert Hall. 25 min. April.

ANDREWS, D.I. (arranger/conductor) 2007. *Cape Town Big Band Festival*. With UCT Big Band and vocalists. Baxter Concert Hall. 40 min. 26-27 May.

ANDREWS, D.I. (arranger/conductor) 2007. *The Compositions and Arrangements of Darryl Andrews*. With UCT Big Band and Vocalists. Baxter Concert Hall. 90 min. 1 September.

ANDREWS, D.I. (electric bass) 2007. *Queen At The Ballet*. With Cape Town Philharmonic Orchestra. Artscape Opera House. 5 x 120 min. 15-19 September.

ANDREWS, D.I. (arranger/conductor) 2007. *UCT Big Band in Concert*. With UCT Big Band featuring Alvin Dyers and Clifflie Moses. Baxter Concert Hall. 90 min. 29 September.

BACHAROVA, F.A. (leader) 2007. *Piano Quartet in G minor (Mozart), Piano Quartet in B flat major (Weber), Piano Quartet in C minor (Fauré)*. With Louw, M. (viola) and DeHaviland, C. (cello), Kettle, S. (piano). La Motte Estate Concert Hall, Lindbergh Arts Foundation. 2 x 120 min. 24th February, 21 October.

BACHAROVA, F.A. (leader), Du Toit, G.F. (piano) 2007. *"Gypsy" Trio (Haydn), Trio (Tchaikovsky), Café Music (Schoenfeld)*. With Van Der Westhuizen, A. (cello). Baxter Concert Hall. 120 min. 13 March.

BACHAROVA, F.A. (leader) *Piano Quartet in C minor (Fauré)* 2007. With Louw, M. (viola) and DeHaviland, C. (cello), Kettle, S. (piano). Beau Soleil Music Centre. 40 min. 14 March.

BACHAROVA, F.A. (leader) 2007. *First String Quartet, world première of Second String Quartet, Of Darkness and the Heart (Hofmeyr)*. With Zanne Stapelberg (soprano), Lucia di Blasio Scott (violin), Paula Fourie (viola), Marian Lewin (cello). Baxter Concert Hall. 70 min. 29 May.

BACHAROVA, F.A. (leader) 2007. *String Quartet No.2 (Hofmeyr)*. With Lucia di Blasio Scott (violin), Paula Fourie (viola), Eddy McLean (cello). WAKS Music Festival, Kawai Piano Studio. 40 min. 28 July.

CAMPBELL, M.I. (conductor, composer, arranger) 2007. *Awesome Big Band*. With the SJO, Swiss and Norwegian musicians. Standard Bank Joy of Jazz Festival, Grahamstown. 2 x 75 min. 28 and 30 June.

CAMPBELL, M.I. (conductor, arranger), Bacharova, F.A. and Steltzner, B.L. 2007. *World Aids Day Concert*. With African Centre for HIV AIDS Research. Artscape Opera House. 90 min. 1 December.

DU TOIT, F. (piano) 2007. *Piano Concerto No. 1 (Liszt)*. With Cape Philharmonic Orchestra, Victor Yampolsky (conductor). Cape Town City Hall. 19 min. 28 June.

DU TOIT, F. (piano) 2007. *Official pianist at the 3rd Stift International Music Festival in the Netherlands*. Works performed: Violin Sonata (Strauss), Four Pieces (Elgar), "Das gesang der Heliane" (Korngold), Overture on Hebrew Themes (Prokofiev), Liebesleid (Kreisler). With members of the Music Festival and of the Concertgebouw Orchestra. Odenzaal, Netherlands. 240 min. 20-24 August.

DU TOIT, F. (piano) 2007. *Works by Haydn, Mendelssohn, Gershwin and Chopin*. Lied Education Centre for the Arts, Creighton University, Omaha, Nebraska, USA. 70 min. 8 September.

DU TOIT, F. (piano) 2007. *Same as above, plus Tristia, Toccata (Arnold van Wyk)*. Mills Concert Hall, University of Wisconsin, Madison, USA; La Motte Wine Estate, Franschhoek; Centre for the Book, Cape Town. 3 x 70 min. 21, 29 September, 24 October.

DU TOIT, F. (piano) 2007. *Concert tour: Sonata N. 3 (Leclair), Kleine Suite (Rozsa), Sonata No. 2 (Prokofiev), Sonata No. 5 (Beethoven), Tzigane by (Ravel)*. With Russian American violinist, Phillipe Quint. UNISA, Pretoria; Lindner Auditorium, Johannesburg; Jewish Hall, Durban; DR Church, Knysna; Baxter Concert Hall, Cape Town. 5 x 70 min. 4, 10, 12, 13, 17 November.

FITCH, G.P. (piano) 2007. *Berceuse* (Chopin), 2 songs. With Tikolo, P.S. (bass). SACM Staff Concert, Baxter Concert Hall, Cape Town. 18 min. 27 February.

FITCH, G.P. (piano) 2007. *Berceuse* (Chopin), Preamble from Carnival (Schumann). Inaugural concert, Steinway and Sons, Centre for the Book, Cape Town. 15 min. 18 March.

FITCH, G.P. (piano) 2007. *Angklung* (Anne Boyd). WAKS Festival, Kawai Piano Studios, Muizenberg. 10 min. 28 July.

FITCH, G.P. (piano) 2007. *Sonata in C, Hob 50* (Haydn), Impromptu in G flat (Schubert), Polonaise in C sharp minor, Op. 26 No. 1, Berceuse, Scherzo in C sharp minor (Chopin). Helderberg Music Society, Helderberg, Somerset West. 60 min. 7 October.

HOFMEYR, H.P. (composer) 2007. *Concerto for Cello and Orchestra*. With Van der Westhuizen, A. (cello), Mansur, C. (conductor), MIAGI Orchestra. Hendrik Hofmeyr's Fiftieth Birthday Concert, ZK Matthews Hall, Pretoria. 36 min. 10 May.

HOFMEYR, H.P. (composer) 2007. *Nelle mani d'Amduscias*. With St John, S. (violin). Seattle Chamber Music Festival, Seattle. 6 min. 6 June.

HOFMEYR, H.P. (composer) 2007. *Of Darkness and the Heart for soprano and string quartet*. With McKenzie, M. (soprano), Uys, M., Bushakovich, A. (violins), Sirota, N. (viola), Nicholas, M. (cello). South African Music Festival, Manhattan School of Music, New York. 12 min. 23 September.

HOFMEYR, H.P. (composer) 2007. *Concert in celebration of Hendrik Hofmeyr's fiftieth birthday: Dover Beach, Cavatina, Cadenza, Due sonetti di Petrarca*. Collage Ensemble. Endler Hall, Stellenbosch. 40 min. 26 September.

HOFMEYR, H.P. (composer) 2007. *Nelle mani d'Amduscias, Par les sentiers de lumière, Uqongqot'hwane, Notturmo elegiaco*. With Hofmeyr, Z. (violin), Cock, R. (conductor), Chanticleer Singers, Hemanay Trio. Five South African Composers, Linder Auditorium, Johannesburg. 26 min. 12 November.

KLATZOW, P.J.L. (composer) 2007. *Concerto for marimba and string orchestra*. With Ji Hye Jung (Peggy and Yale Concerto competition winner). Friedberg Hall as part of the Ruth Blaustein Rosenberg Series, Peabody Conservatoire, USA. 12 April.

KLATZOW, P.J.L. (composer) 2007. *Dances of Earth and Fire for solo marimba*. As part of Percussion Explosion, Stony Brook Campus, USA. 8 min. 13 May.

KLATZOW, P.J.L. (composer) 2007. *Prayers and Dances of Praise from Africa*. St George's Singers under the direction of Barry Smith Collaborators. Malvern Priory, UK, as part of the Elgar Festival, UK. 20 mins. 30 May.

KLATZOW, P.J.L. (composer) 2007. *Songs of Princess Magogo KaDinizulu, with accompaniments composed and orchestrated by Peter Klatzow*. With Rotterdam Chamber Orchestra with Tania Kross (mezzo-soprano) under Conrad van Alphen. Great Hall of the Concertgebouw, Amsterdam. 30 minutes. 20 July.

KLATZOW, P.J.L. (composer) 2007. *Ambient Resonances for vibraphone and marimba*. With Svetoslav Stoyanov and James Michael Deitz. Yellow Barn Music Festival, Western New England, USA. 16 min. 26 July.



PRACTISING SCALES IN ALL KEYS

Professor Michael Rossi's latest book, *Uncommon Etudes from Common Scales*, was composed and written to better equip students and challenge improvisers of all levels with etudes that travel through all keys using common chord types found in jazz. The book also aims to expand one's melodic and creative ability as an improviser and composer by applying melodic contrast to diatonic phrases. A Japanese edition of the book was released in 2007 by Advance Music, ATN.

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LAREY, F. AND DU TOIT, G.F. (piano) 2007. *Sonata for Two Pianos, Hendrik Hofmeyr*. Baxter Concert Hall. 20 minutes. 18 October.

LAREY, F. (piano) 2007. *Choral Fantasy* (Beethoven) With Cape Town Philharmonic, NAC Choir, Fritchi, B. (conductor). NAC Auditorium, Silvertown. 2 x 20 min. 21, 25 October.

LIEBL, L.B. (baritone) 2007. *Berlin to Broadway*. Music by Weimar Republic Composers. Beth Shalom Auditorium, Durban; Community Centre, Bellville. 2 x 80 min. 4 February, 15 May.

LIEBL, L.B. (baritone) 2007. *Title role in the oratorio The Selfish Giant* (Peter van Dijk). With the Eastern Cape Philharmonic Orchestra. Feather Market Centre, Port Elizabeth. 30 min. 20 May.

LIEBL, L.B. (baritone) 2007. *Commemorative Concert of Songs by Edvard Grieg and Othmar Schoeck Song Makers' Guild*. Nassau Centre. 90 min. 10 June.

LIEBL, L.B. (baritone) 2007. *Carmina Burana* (Orff). With the Philharmonia Choir. City Hall. 2 x 60 min. 22, 23 June.

LIEBL, L.B. (bass) 2007. *Ich habe genug* (Bach). With 4x2 Ensemble, Shirley Gie (director, harpsichord). South African Museum. 25 min. 14 December.

LILLEY, A.C.P. (piano) 2007. Roth, N., Scholfield, J., Mahlasela, B., Mhlanga, B. Natascha Roth with Basi Mahlasela. Standard Bank International Jazz Festival, Grahamstown. 609 min. 28 June.

LILLEY, A.C.P. (piano) 2007. *Johan Horlan Quintet*. With Horlem, J., Sjostedt, M., Dahlgren, P., Gibson, K. Green Dolphin, Cape Town. 3 x 45 min. 3-7 July.

LILLEY, A.C.P. (arranger, piano) 2007. *Billie Holiday Tribute*. 4. With Minter, G., Schouw, T., Gibson, K., Rustin, W. Green Dolphin, Cape Town. 5 x 120 min. 10-14 July.

LILLEY, A.C.P. (coordinator, conductor) 2007. *Visions and Voices*. A University of Southern California Arts & Humanities Initiative 2007-2008 - Transforming Society through the Arts: Women Musicians and their Fight for Freedom in South Africa. With Sheila Woodward, John Thomas. Bovard Auditorium, University of Southern California, California. 105 min. 4 October.

LILLEY, A.C.P. (piano) 2007. *South African Exchange*. With Revishin, J., Revishin, R., Gibson, K. 2007. Belgrade Radio City Hall, Belgrade, Serbia. 60 min. 10 November.

ROSSI, M.J. (lecturer, saxophone) 2007. *University of South Florida Jazz Department presents Dr Mike Rossi*. With Jack Wilkens, Chuck Owen, Mike Rossi. University of South Florida, Department of Music, Tampa, Florida, USA. 180 min. 23 January.

ROSSI, M.J. (lecturer, saxophone) 2007. *Dr Mike Rossi, Music at Noon, Lunchtime Concert Series*. With Members of the Florida Atlantic University Jazz Department Collaborators Dr Jamie Cunningham & Mike. Humanities Room 119, Florida Atlantic University, USA. 60 min. 1-2 February.

ROSSI, M.J. (lecturer, saxophone) 2007. *Salem State Music Department presents Dr Mike Rossi*. With Dr Phil Swanson & Mike Rossi. Salem State College, Salem, MA, USA. 120 min. 5 February.

ROSSI, M.J. (saxophone) 2007. *Darius Brubeck Quartet with Mike Rossi*. The Spice of Life, London; The Green Room, National Theatre, London; The 606, London. 3 x 150 min. 10, 13, 14 July.

ROSSI, M.J. (lecturer, saxophone) 2007. *First International Jazz Festival*. With Felix Simtaine, Pierre Vianna, Paul le Perc, Fabian Degreese, Jean Louis Rossenfosse. Hotel Invest, Kinshasa, Democratic Republic of Congo. 120 min. 19-24 July.

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ANDREWS, D.I. 2007. (Guitar/Banjo/Electric Bass) *Cape Town Moppies*. With Alvin Dyers and Barry van Zyl. Released in USA (Internet). 45 min.

HOFMEYR, H.P. 2007. (Composer) *Notturmo elegiaco*. Trio Hemanay. Released in Johannesburg. ISRC 6001651036077. 9 min.

KLATZOW, P.J.L. 2007. (Composer) *Dances of Earth and Fire*, for solo marimba. With Juanjo Huillem. Released in Spain. ISRC M22951-2007. 6 mins.

ROSSI, M.J. AND NARUNSKY, M. 2007. (duo, solo, composer) *Common Ground: Mike Rossi and Micu Narunsky*. With Mike Rossi and Micu Narunsky. Released in Connecticut, USA. ISRC MSR Jazz 1207. 58:28.

ROSSI, M.J., KROLL, F., BEBELAAR, P., JOOS, H. AND SUESSE, H. 2007. (solo and ensemble) *Ein Traum von wunderbarem Leben*. With Patrick Bebelaar, Ulrich Suesse, Mike Rossi, Frank Kroll, Herbert Joos. Released in Stuttgart, Germany. ISRC dml records CD-023, Stuttgart. 65:00.

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DEPARTMENT OF RELIGIOUS STUDIES

EDITED BOOKS

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DEPARTMENT OF SOCIAL ANTHROPOLOGY

AUTHORED BOOKS

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EDITED BOOKS

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DEPARTMENT OF SOCIAL DEVELOPMENT

CHAPTERS IN BOOKS

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CENTRE FOR SOCIAL SCIENCE RESEARCH

Please refer to the web-based research report, www.research2007.uct.ac.za.

DEPARTMENT OF SOCIOLOGY

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UCT LIBRARIES

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FACULTY OF HEALTH SCIENCES

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DEAN'S *report*

One of the major highlights for the faculty in 2007 was the award of eight chairs under the DST/NRF Research Chairs Initiative. These included Professor Jonathan Blackburn (Applied Proteomics and Chemical Biology), Professor Frank Brombacher (Immunology of Infectious Diseases in Africa), Dr Marc Combrinck (Clinical Neurosciences Research), Associate Professor Keertan Dheda (Lung Infection and Immunity in Poverty-related Diseases), Professor Diane McIntyre (Health and Wealth in South Africa), Associate Professor Ernesta Meintjes (Brain Imaging), Professor Iqbal Parker (Cancer Biology), and Professor Anna-Lise Williamson (Vaccinology). These chairs represent a third of those awarded to UCT and more than 10% of the national total.

Dr Heidi Segal, whose research involves a detailed analysis of isolated strains of bacteria, was the winner of the TW Kambule NRF Research Award by the National Science and Technology Forum in the category Distinguished Young Black Researcher. Professor Alan Morris, who co-authored a paper in *Science* on the human skull from Hofmeyr in the Eastern Cape, was recognised by *Time* magazine which listed his paper as one of the “Top 10 Scientific Discoveries in 2007”. Professor Kit Vaughan won a Technology and Human Resource for Industry Programme (THRIP) award for “Most Advanced Technology” for his research on low dose digital X-rays to detect breast cancer.

Our academic staff members have been increasingly successful in securing highly competitive research grants from international agencies such as the Wellcome Trust and the National Institutes of Health

Other highlights of the year included the prestigious award of a UCT Fellowship to Professor Heather Zar, whose research focuses on child lung health; two UCT Fellows' Awards, which “reward younger staff for exceptional achievement”, to Dr Virna Leaner (transcription factors in cancer) and Dr Sandrine Lecour (immune system in ischaemic heart disease); the launch of the Cape Town component of the International Centre for Genetic Engineering and Biotechnology by President Thabo Mbeki; a *Festschrift* for Professor Lafras Steyn to celebrate a lifetime of academic achievements during an illustrious career; highly successful departmental and student research



days; and the celebration on 3 December 2007 of the 40th anniversary of the world's first heart transplant.

The faculty has continued its strong support of the NRF rating system, increasing the number of rated researchers to 57, the largest among the Health Science faculties in the country. This includes 6 with an A rating, 14 with a B rating and 27 with a C rating. Particularly encouraging for the future is the number of young researchers who have secured ratings – 1 with a P rating and 11 with a Y rating. Our academic staff members have been increasingly successful in securing highly competitive research grants from international agencies such as the Wellcome Trust and the National Institutes of Health (NIH). Particularly noteworthy were the three NIH grants awarded to principal investigators Associate Professor Tania Douglas, Dr Mark Hatherill and Professor Anna-Lise Williamson. In 2007, 303 projects were funded and the income of R262 million represented almost 60% of the University's total research revenue.

Our faculty stands ready to pursue high-quality scholarship that focuses on both the national and global burden of disease and, as highlighted above, implements a strategy that embraces the full spectrum of research questions, from *bench to bedside* to *population*.

Professor Marian Jacobs
Dean of Health Sciences

RESEARCH

groupings

ADOLESCENT HEALTH RESEARCH INSTITUTE

Adolescents face a wide range of health problems owing to a combination of biological, social and psychological factors. There is thus a niche for a research facility that focuses specifically on the health needs of adolescents. The Adolescent Health Research Institute builds on existing research and collaborations to co-ordinate, promote and facilitate research on all aspects of adolescent health. The specific aims of the Institute are to facilitate cutting-edge interdisciplinary research that addresses key national public adolescent health priorities; promote networking among adolescent health researchers, practitioners and policy makers; increase the profile of the Faculty of Health Sciences, UCT, with regard to world-class adolescent health research; provide policy consultation at local, provincial, national and international levels; and increase and improve educational offerings in adolescent health at undergraduate and postgraduate levels.

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CARDIOVASCULAR RESEARCH UNIT

The core research pursuit of the Cardiovascular Research Unit centres around the concept of “regenerative medicine” with the goal of engineered regeneration of diseased structures through co-ordinated and site-directed signalling to facilitate gradual in situ remodelling of surgically replaced hybrid biosynthetic devices while offering patients an immediate dramatic improvement in quality of life through return to functionality of these diseased structures.

Director: Professor P. Zilla

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GENDER, HEALTH AND JUSTICE RESEARCH UNIT

The mission of this Unit is to improve service provision to victims of violence against women in South Africa through research, advocacy and education. Drawing together established researchers with a strong record of social-action research in disciplines including law, criminology, forensic sciences and pathology, gynaecology, and psychology, this Unit is the first of its kind in South Africa to respond to the pressing need for research and interventions that crosses disciplines in support of our efforts to address the alarmingly high levels of violence against women in this country.

Director: Ms L. Artz

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HATTER CARDIOVASCULAR RESEARCH INSTITUTE

The Hatter Institute of the Department of Medicine and the Cape Heart Centre has two divisions, Heart Protection and Cardiovascular Genetics. The Heart Protection programme aims to promote the scientific education of young South African researchers and the better understanding of heart attacks and heart failure at a molecular and cellular level, and to prevent the adverse effects of diabetes and coronary disease on the heart muscle. These are diseases predicted to increase substantially in South Africa within the next decade. The Cardiovascular Genetics Laboratory aims to discover the genetic basis of inherited heart diseases that cause sudden death. This work involves the study of rare families with monogenic disease (i.e. inherited cardiomyopathies and arrhythmogenic disorders), and the delineation of the genetic architecture of complex traits associated with sudden death (such as cardiac hypertrophy). These studies hold promise in discovering the critical biological pathways that can be targeted by drugs to prevent sudden cardiac death.

Directors: Emeritus Professor L.H. Opie and Professor B. Mayosi

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Web: <http://web.uct.ac.za/depts/chc/hatter/intro.htm>

HEALTH ECONOMICS UNIT

The Health Economics Unit (HEU) was established in early 1990 in the School of Public Health and Family Medicine and was accredited as a formal research entity in the University in 2007. The HEU works to improve the performance of health systems through informing health policy and enhancing technical and managerial capacity in Sub-Saharan Africa. Its foundation is academic excellence in health economics and management.

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INDUSTRIAL HEALTH RESEARCH GROUP

The Industrial Health Research Group is a multidisciplinary unit providing research and technical support to trade unions in issues relating to occupational health and safety. The broad areas of our work include policy development and research on health problems affecting workers; basic conditions of employment, working hours and occupational safety; healthcare funding and medical schemes; the provision of occupational medical services; education and training of workers and their health and safety representatives in the workplace; and developing educational media on health and safety.

Director: Mr N. Henwood

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INSTITUTE OF AGEING IN AFRICA

The Albertina and Walter Sisulu Institute of Ageing in Africa is a cross-disciplinary group within the Department of Medicine and incorporates the divisions of Geriatric Medicine, Psychology and Gerontology. The Institute has been operational since 2001. The Institute's mission is achieved through interdisciplinary and cross-national partnerships and research collaboration, human resource development, and continuous risk assessment in the national context and in the African continent.

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Web: <http://www.instituteofageing.uct.ac.za>

INSTITUTE OF INFECTIOUS DISEASE AND MOLECULAR MEDICINE

The Institute of Infectious Disease and Molecular Medicine aims to be an African Centre of Excellence as a large-scale assembly of highly talented research leaders working in one place in a collegial federation, with many external collaborations and partnerships addressing the common theme of major infectious diseases such as HIV/AIDS, tuberculosis and malaria as well as non-communicable diseases such as cancers and genetic disorders. It has a demonstrably strong scientific base that spans most of the major areas of modern biomolecular enquiry (membrane receptors, pumps and trafficking; cellular signaling; enzymology; cancer biology; molecular genetics; bacteriology; virology), linking these to applied biology and biotechnology on the one hand, and public benefit on the other.

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MRC/UCT CAPE HEART CENTRE

This combined research entity is the largest heart research group in South Africa and forms part of the Cape Heart Group that links research between UCT and the other universities in the region. The Hatter Institute is involved in the study of the molecular and cellular biology of ischaemic heart disease, as well as the molecular and cellular pathophysiology of cardiac hypertrophy and heart failure. The goals of the research programme are to contribute to the fundamental understanding of the mechanisms in the development of ischaemic heart disease, cardiac hypertrophy and heart failure. The Cardiovascular Research Institute, to which is allied the Medtronics Institute, is studying biocompatible materials for vascular and valvular prostheses. Lipidology is concerned with the research into

lipid and lipoprotein disorders in patients in the region and novel treatment strategies for these disorders. Additionally, their research includes new diagnostic assays for local problems in healthcare and lipid peroxidation.

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MRC/UCT HUMAN GENETICS RESEARCH UNIT

The group's current focus is on the genetics of colorectal cancer, inherited forms of blindness and neuropsychiatric diseases. Recent breakthroughs include identifying the genetic basis of retinitis pigmentosa and developing therapeutics to stem loss of vision in individuals shown to carry the disease causing mutation.

Director: Professor R. Ramesar

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MRC/UCT IMMUNOLOGY OF INFECTIOUS DISEASE RESEARCH UNIT

Human infectious diseases are a high-priority area for South Africa and Africa, where they continue to be a leading cause of childhood and adult morbidity and mortality. Thus, the MRC/UCT Immunology of Infectious Disease Research Unit focuses on understanding of host protective immune responses and the development of effective vaccine strategies for eradication of diseases which are identified as priority areas by the World Health Organisation: tuberculosis, leishmaniasis, helminth diseases (bilharziosis) and African trypanosomiasis (sleeping sickness). The unit's mission is to be relevant as an excellent multidisciplinary and international team, embracing both basic and applied research, in order to improve capacity, teaching and training in the immunology of infectious diseases.

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MRC/UCT LIVER RESEARCH CENTRE

The MRC/UCT Liver Research Centre is multidisciplinary, with its members comprising physicians, surgeons, biochemists and immunologists. The Centre's mission is to better understand the liver and its related processes in health and disease, focusing on those diseases occurring in Southern Africa with a view to identification, prevention and improving healthcare of patients with liver disease. Apart from its laboratories in the Departments of Medicine and Surgery, the Centre runs the only multidisciplinary, comprehensive liver clinic, including a liver transplantation programme, in Africa. The world's only fully integrated

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porphyria clinic, laboratory, diagnostic and drug information service is run by specialist Liver Centre personnel. Since 2000 the Centre has published 190 articles, including 130 papers, 53 published abstracts, 6 PhD theses, 1 book and 32 chapters in scholarly books.

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<http://porphyria.uct.ac.za>

MRC/UCT MEDICAL IMAGING RESEARCH UNIT

The mission of the MRC/UCT Medical Imaging Research Unit is to conduct world-class research in medical imaging that specifically addresses the healthcare needs of Africa. Research in the unit focuses on the role of medical imaging in healthcare problems such as brain and behaviour, trauma, cancer, tuberculosis (TB), neuromuscular disorders, cardiovascular disease, and alcohol abuse. The unit has a multidisciplinary focus, attracting talented physicists, sports scientists, engineers, computer scientists and medical doctors.

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Web: <http://www.uct.ac.za/faculties/health/research/miru/>

UCT OCCUPATIONAL AND ENVIRONMENTAL HEALTH RESEARCH UNIT

The MRC/UCT Occupational and Environmental Health Research Unit aims to be a principal centre of occupational and environmental health research in South Africa, in the SADC region of Africa and other African countries, and internationally. It further aims to conduct multidisciplinary research integrating laboratory, clinical, epidemiological and policy research into occupational health problems that have high priority in Southern Africa, in order to facilitate identification and improve characterisation of these and other problems and to better understand the determinants and modifiers of such problems.

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MRC/UCT OESOPHAGEAL CANCER RESEARCH GROUP

The MRC/UCT Oesophageal Cancer Research Group is an interdisciplinary and inter-institution group (UCT, MRC and the University of Stellenbosch) established by the MRC in 1997. Squamous cell carcinoma of the oesophagus is one of

the eight most common cancers worldwide. High incidence areas include China, Japan, certain hot spots in France, Iran, South America and several South and East African countries. This group is investigating the environmental and genetic factors that predispose South Africans to this disease.

Director: Professor M.I. Parker

E-mail: Iqbal.Parker@uct.ac.za

Web: <http://www.iidmm.uct.ac.za/iparker/index.htm>

MRC/UCT RECEPTOR BIOLOGY RESEARCH GROUP

The mission of the Group is to study the structure and function of G protein-coupled receptors and to apply the research to understanding and treating diseases that have major effects on the social and economic welfare of South Africa. The Group focuses on the gonadotropin-releasing hormone receptor, which is the central regulator of reproductive function, on the prostaglandin receptors and their role in cervical cancer and on the CCR5 chemokine receptor, which is the primary co-receptor utilized by the Human Immunodeficiency Virus (HIV) to infect human cells.

Co-Directors: Associate Professor Arie A. Katz, Dr Colleen A. Flanagan and Professor R.P. Millar

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Web: <http://web.uct.ac.za/depts/iidmm/akatz/research.htm>

MRC/UCT RESEARCH UNIT FOR EXERCISE SCIENCE AND SPORTS MEDICINE

This unit exists to research factors influencing physical performance and health, and to disseminate knowledge and skills through education. Areas of research that are covered include the effectiveness of sports-specific training protocols, and predictability of athletic ability or performance, as well as the exercise metabolism and fluid balance during endurance and ultra-endurance exercise.

Director: Professor T.D. Noakes

E-mail: Timothy.Noakes@uct.ac.za

Web: <http://www.uct.ac.za/departments/sportsmed/index.php>

MRC/UCT TRADITIONAL MEDICINES RESEARCH GROUP

The MRC/UCT Traditional Medicines Research Group was founded in 1997, with the principal objectives of establishing a research culture, introducing modern research methodologies around the use and understanding of traditional medicines, and creating of an environment that will attract young scientists and potential leaders in the field.

Director: Associate Professor P. Smith

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RESEARCH

groupings

UCT INSTITUTE OF CHILD HEALTH

The Institute of Child Health (ICH) was established in the early 1970s bringing together all personnel concerned with child health, for the purpose of supporting research, providing teaching facilities and promoting awareness of children and their needs. The ICH supports researchers in the field of child health by making core facilities available and by dispersing funds for research in child health for self-initiated projects.

Director: Professor D. Beatty

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UCT LEUKAEMIA CENTRE

The UCT Leukaemia Centre has been established with the objective of fostering basic and clinical research in the area of haematological stem cell disorders and blood malignancies. Some of the current interest includes the marrow microenvironment in multiple myeloma, molecular genetics of acute or chronic leukaemias and clinical studies in lymphoproliferative disorders. As a consequence, a laboratory with a comprehensive array of equipment is available where honours, master's and doctoral students are running research projects. Based on these studies, a number of clinical and laboratory programmes have been developed. In this regard, the only university-based haematopoietic stem cell transplantation programme in the country is located at Grootte Schuur Hospital and has become of international reputation. Parallel studies focusing on haematopoietic stem cell biology and immune reconstitution after transplantation are ongoing.

Director: Professor N. Novitzky

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WOMEN'S HEALTH RESEARCH UNIT

The Women's Health Research Unit (WHRU), established in 1996 in the School of Public Health and Family Medicine, is involved in research, teaching, technical health service support, and advocacy in the area of women's health and gender and health. It is made up of a multidisciplinary team of researchers with expertise in public health, epidemiology, psychology, sociology and anthropology. Key research areas include HIV and reproductive health, gender and HIV, health systems research (reproductive health), female cancers, contraception and termination of pregnancy.

Director: Dr J. Moodley

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DOCTORAL

graduations

PROFESSOR S.R. BENATAR

(Health, Ethics and Society): Doctor of Science (Medicine)

PROFESSOR W.U. UTIAN

(Obstetrics and Gynaecology – Menopause): Doctor of Science (Medicine)

A. ABRAHAMS (CLINICAL LABORATORY SCIENCES)

Regulation of the anti-senescence factor, Tbx2, by the UV stress signalling pathway and the mitotic cyclin dependent kinases
Supervised by Dr S. Prince and Professor M.I. Parker

L. BEZUIDENHOUT (SURGERY)

Angiopoietin-2 and Platelet-Derived growth BB factor cooperatively affect peripheral blood monocyte fibrinolysis
Supervised by Professor N. Davies

M. BLECHER (PUBLIC HEALTH AND FAMILY MEDICINE)

Analysis and reform of public health care financing in South Africa
Supervised by Professor J. Myers

D. BLOM (MEDICINE)

Dysbetalipoproteinaemia - Changes in laboratory aspects, changes in lipoprotein composition and remnant metabolism associated with lipid lowering drugs
Supervised by Professor A.D. Marais

N. CHIN'OMBE (CLINICAL LABORATORY SCIENCES)

Recombinant Salmonella Enterica serovar typhimurium vaccine vector expressing green fluorescent protein as a model antigen or human immunodeficiency virus 1 subtype C gag
Supervised by Professor A.-L. Williamson and Dr W. Bourn

S. CLEARY (PUBLIC HEALTH AND FAMILY MEDICINE)

Equity and efficiency in health and health care for HIV-positive adults in South Africa
Supervised by Associate Professor D. McIntyre

L. FAIRALL (MEDICINE)

The costs and effects of the practical approach to lung health in South Africa
Supervised by Professor E.D. Bateman and Professor M. Bachmann

J. FRIEDLING (HUMAN BIOLOGY)

Grave tales: An osteological assessment of health and lifestyle from 18th and 19th century burial sites around Cape Town
Supervised by Professor A. Morris

M.J. FUTTER (CLINICAL LABORATORY SCIENCES)

Predictive testing and clinical genetic counselling services for Huntington disease in the Western Cape: An evaluation over eleven years
Supervised by Associate Professor J. Greenberg and Associate Professor A. Smit

DOCTORAL graduations

H.H. HABTE (SURGERY)

The inhibition of HIV-1 activity of crude mucus and purified mucin (mucous glycoproteins) from saliva, breast milk and the cervical tract of normal subjects, HIV positive individuals and patients with HIV-AIDS

Supervised by Professor A. Mall

T. HEW-BUTLER (HUMAN BIOLOGY)

Dynatremia and the endocrine regulation of fluid balance during exercise

Supervised by Professor T.D. Noakes and Professor J.G. Verbalis

N.J. HSU (HUMAN BIOLOGY)

*The expression and functional analysis of neurite outgrowth inhibitors in the nervous system of *Xenopus Laevis**

Supervised by Dr D. Lang

N.P. KHUMALO (PUBLIC HEALTH AND FAMILY MEDICINE)

The epidemiology of hairstyle related African hair disorders in an urban township in South Africa

Supervised by Professor L. London

A. JITHOO (MEDICINE)

Respiratory symptoms and chronic obstructive pulmonary disease: Prevalence and risk factors in a predominantly low-income urban area of Cape Town, South Africa

Supervised by Professor E.D. Bateman and Professor P. Burney

M.V. MABANDLA (HUMAN BIOLOGY)

Exercise induced neuroprotection in spontaneously running rats

Supervised by Professor V. Russell

R. MCBRIDE (HUMAN BIOLOGY)

*The expression and functional role of Tenascin-R during axon regeneration in the adult goldfish, *Carassius auratus**

Supervised by Dr D. Lang

W. MUKOMA (PSYCHIATRY AND MENTAL HEALTH)

Process and outcome evaluation of a school-based HIV/AIDS prevention intervention in Cape Town high schools

Supervised by Professor A. Flisher

N.E. NIEUWENHUIZEN (CLINICAL LABORATORY SCIENCES)

*Immune and allergic responses to *Anisakis pegreffii*, with focus on the roles of IL-4, IL-13 and the IL-4 receptor alpha*

Supervised by Dr A. Lopata

E. NYATIA (HUMAN BIOLOGY)

Localisation and expression pattern of the Nogo receptor and its ligand, Nogo-A in cells of the mammalian central nervous system

Supervised by Dr D. Lang

D.E. RAE (HUMAN BIOLOGY)

The effect of chronic exposure to endurance exercise on the skeletal muscle of distance runners

Supervised by Associate Professor M. Collins

J.N. SAUNDERS (PSYCHIATRY AND MENTAL HEALTH)

Neuropsychiatric features of HIV/AIDS

Supervised by Professor A. Flisher

C. SCHMIDT (SURGERY)

Stimulating angiogenesis into biomaterials through the delivery of growth factors

Supervised by Professor N. Davies

V. SEWRAM (PUBLIC HEALTH AND FAMILY MEDICINE)

Risk factors for oesophageal cancer in the Eastern Cape Province of South Africa

Supervised by Professor J. Myers and Dr F. Sitas

M.L. TSELANYANE (MEDICINE)

*The isolation, characterization and antiplasmodial activity of two novel dimeric sesquiterpenes from *Dicoma anomala**

Supervised by Emeritus Professor P. Folb, Dr B. Campbell and Dr M.G. Matsabisa

M.J. WILLIAMS (CLINICAL LABORATORY SCIENCES)

*Conditions affecting ergothioneine levels in *Mycobacterium Smegmatis* and the attempted isolation of alpha-N,N,N - histidine methyltransferase, the first enzyme in Ergothioneine biosynthesis*

Supervised by Associate Professor D. Steenkamp and Professor L. Steyn

M. ZUNGU (MEDICINE)

Characterisation of molecular and functional changes regulating Hypobaric hypoxia-induced right ventricular hypertrophy

Supervised by Dr F. Essop

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HIV/AIDS PREVENTION PROGRAMMES DIFFICULT AT SCHOOLS

Overcrowding, teachers' limited skills and lack of discipline hinder the success of a school-based HIV/AIDS prevention programme. As a result, the expected behaviour-change objectives – to delay sexual debut and increase condom-use among adolescents – were not achieved. These findings have been revealed by PhD graduate in psychiatry and mental health, Wanjiru Mukoma, in her thesis, *Process and outcome evaluation of a school-based HIV/AIDS prevention intervention in Cape Town high schools*. She based her research on the project, *Promoting Sexual and Reproductive Health: School-based HIV/AIDS intervention in Sub-Saharan Africa*, funded by the European Commission.

RESEARCH output

DEPARTMENT OF ANAESTHESIA

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SCHOOL OF CHILD AND ADOLESCENT HEALTH

(INCLUDING THE FOLLOWING DIVISIONS/INSTITUTES: ASSOCIATED PAEDIATRIC DISCIPLINES, CHILD AND ADOLESCENT PSYCHIATRY, CHILD DEVELOPMENT AND NEUROSCIENCES, CHILD HEALTH UNIT AND CHILDREN'S INSTITUTE, CRITICAL CARE AND CHILDREN'S HEART DISEASE, NEONATAL MEDICINE, PAEDIATRIC ANAESTHESIA, PAEDIATRIC MEDICINE, PAEDIATRIC PATHOLOGY, PAEDIATRIC RADIOLOGY AND PAEDIATRIC SURGERY)

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VACCINE COULD LEAVE A SWEET TASTE IN THE MOUTH

Vaccines are so expensive to produce and administer – usually through injections – that they drain the pockets of developing countries. Many, like PhD graduate in medical virology/microbiology Nyasha Chin’ombe, believe that hope will come in the form of cost-cutting oral vaccines, shown in his work on the South African AIDS Vaccine Initiative (SAAVI) programme with Professor Anna-Lise Williamson. Chin’ombe constructed a live but crippled Salmonella (typhoid bacterium) that could carry jellyfish and HIV and subunit vaccines to the immune system via the oral route. He then produced a recombinant Salmonella bacterium – featuring a new combination of genes – with high levels of the jellyfish and HIV vaccines. When he fed the bacterium to mice, they developed the hoped-for immune responses against the jellyfish and HIV subunits.

RESEARCH

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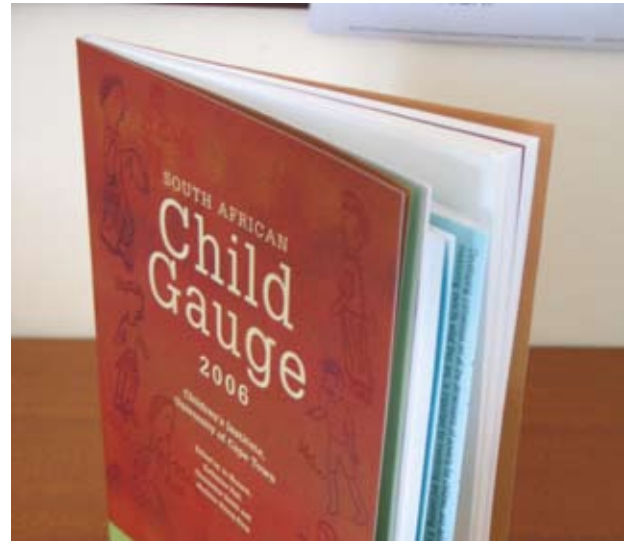
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REPORT MAPS POVERTY

With the African National Congress declaring 2007 as *The Year to Intensify the Struggle against Poverty*, the timing could not have been more perfect for the Children's Institute to release the South African Child Gauge 2006.

The book is an annual snapshot of the realities South African children face. The latest volume explains that HIV/AIDS exacerbates the high levels of child poverty in South Africa, which are attributed to high unemployment and our apartheid legacy.

RESEARCH

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TOP PRIZE FOR SURGICAL RESEARCHER CHIRWA

PhD student Nthato Chirwa (Division of General Surgery) received the Bunny Angorn Prize at the Southern African Surgical Research Society meeting in 2007. His presentation was on a polyclonal antibody that could be a clinical marker for gastric diseases such as gastric adenocarcinoma and ulceration. In this project, a polyclonal antibody was raised to a previously described gastric mucin fragment, isolated from the crude mucus secretions of patients with gastric disease. Its role in the pathogenesis of gastric cancer is being investigated and an attempt is being made to identify it in collaboration with Dr Bongani Ndimba, University of the Western Cape.

RESEARCH

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- Anaesthesia, for publications by Paediatric Anaesthesia (page 180)
- Psychiatry and Mental Health, for publications by Child and Adolescent Psychiatry (page 211)
- Radiation Medicine, for publications by Paediatric Radiology (page 220)
- Surgery, for publications by Paediatric Surgery (page 221)

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THE HIDDEN COSTS OF LUNG DISEASE IN MINERS

Professor Rodney Ehrlich of the School of Public Health and Family Medicine has been examining mineworkers for 23 years, focusing on the incidence of silicosis and pulmonary tuberculosis. According to Prof Ehrlich, too little is still known about silicosis among former gold miners, particularly black miners, even after a century of lung disease in mining in South Africa. Much of the blame could go to racial differentiation in access to epidemiologic surveillance, medical examination and compensation for miners over the past century.

RESEARCH

output

DEPARTMENT OF CLINICAL LABORATORY SCIENCES

(INCLUDING THE FOLLOWING DIVISIONS/INSTITUTES: CHEMICAL PATHOLOGY (INCLUDING THE CHEMICAL PATHOLOGY SECTIONS OF GROOTE SCHUUR HOSPITAL AND RED CROSS WAR MEMORIAL CHILDREN'S HOSPITAL), FORENSIC MEDICINE AND TOXICOLOGY (INCLUDING THE GENDER, HEALTH AND JUSTICE RESEARCH UNIT), HAEMATOLOGY, HUMAN GENETICS (INCLUDING THE MRC/UCT HUMAN GENETICS RESEARCH UNIT AND THE CANSA COLORECTAL CANCER RESEARCH CONSORTIUM), IMMUNOLOGY (INCLUDING THE MRC/UCT IMMUNOLOGY OF INFECTIOUS DISEASES UNIT), MEDICAL BIOCHEMISTRY (INCLUDING THE MRC/UCT OESOPHAGEAL CANCER RESEARCH GROUP AND THE MRC/UCT RESEARCH GROUP FOR RECEPTOR BIOLOGY), MEDICAL MICROBIOLOGY AND MEDICAL VIROLOGY)

EDITED BOOKS

BROWN, G.D. AND NETEA, M.G. (EDS) 2007. *Immunology of Fungal Infections*. The Netherlands: Springer. 487pp. ISBN 978-1-4020-5491-4 HB.

CHAPTERS IN BOOKS

BEIGHTON, P. 2007. Hereditary noninflammatory arthropathies. In *Principles and Practice of Medical Genetics*, pp. 3865-3871. 5th ed. Philadelphia, USA: Elsevier Philadelphia.

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NEW INSIGHTS ON KEY PROTEIN IN FUNGAL INFECTIONS

Wellcome Senior Fellow Associate Professor Gordon Brown and his group have published research in the *Nature Immunology* journal (January 2007) showing how Dectin-1, a cell-surface protein, protects the body from common fungal infections like *Candida* and *Aspergillus*. "This is a major advancement in our understanding of how the immune system recognises and responds to fungal infections," said Brown, based at UCT's Institute of Infectious Disease and Molecular Medicine. Fungal infections are more common today than ever before, a result of compromised immune systems. Those with advanced HIV are also particularly susceptible to fungal infections.

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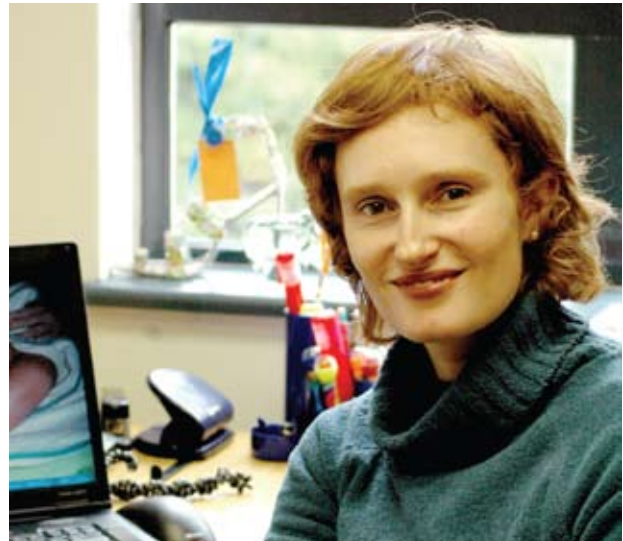
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NURSES AT THE HELM

With few doctors around, nurses in many primary-care clinics around the country are left to their own devices but often lack essential skills. That's a gap that Dr Lara Fairall and colleagues at the Knowledge Translation Unit (KTU) in the UCT Lung Institute have gone a long way towards filling. The ace up the unit's sleeve has been the Practical Approach to Lung Health in South Africa (PALSA) guideline and on-site educational outreach programme, which helps nurses with the correct diagnosis and treatment of respiratory diseases like tuberculosis and asthma.

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SCHOOL OF HEALTH AND REHABILITATION SCIENCES

(INCLUDING THE DIVISIONS OF COMMUNICATION SCIENCES AND DISORDERS, NURSING AND MIDWIFERY, NUTRITION AND DIETETICS, OCCUPATIONAL THERAPY AND PHYSIOTHERAPY)

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EDITED BOOKS

PITSILADIS, Y., BALE, J., SHARP, C. AND NOAKES, T.D. (EDS) 2007. *East African Running: Toward a Cross-Disciplinary Perspective*. Oxford, UK: Routledge. 293pp. ISBN 0 415 37788 9.

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The Hofmeyr Skull shows that Africans and Europeans looked very similar around 36,000 years ago. It was discovered near the Karoo town of Hofmeyr, about 70km north-east of Cradock, but was dated only recently, using new techniques. The fossil also shows characteristics of modern humans: it lacks "beetle brows", and has smaller jaws and teeth than earlier, non-modern human fossils.

MORRIS'S FINDING LISTED IN TIME TOP 10

The 24 December, 2007, edition of *Time* magazine has listed the Hofmeyr skull finding among its top 10 scientific discoveries of 2007. Titled *Man's Migration out of Africa*, the article came in ninth on the list and eighth on their website. It's significant that the Hofmeyr skull, found in the Eastern Cape in 1952, was dated only early in 2007 by an international team of scientists, which included UCT's Professor Alan Morris (Human Biology). The skull revealed the first fossil evidence that modern humans left Africa between 65,000 and 25,000 years ago.

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RESEARCH output

DEPARTMENT OF MEDICINE

(INCLUDING THE ALBERTINA AND WALTER SISULU INSTITUTE FOR AGING IN AFRICA, UCT BIOETHICS CENTRE, DESMOND TUTU HIV RESEARCH CENTRE, UCT/UCL HATTER INSTITUTE FOR CARDIOLOGY RESEARCH, UCT LEUKAEMIA UNIT, UCT LUNG INSTITUTE, MRC/UCT LIVER RESEARCH CENTRE, MRC/UCT/UWC RESEARCH UNIT FOR TRADITIONAL MEDICINES AND THE WORLD HEALTH ORGANISATION COLLABORATING CENTRE FOR DRUG POLICY).

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POPULAR HAIRSTYLES MIGHT CAUSE HAIR LOSS

Braiding and popular corn rows can lead to permanent hair loss, a new UCT study published in the *British Journal of Dermatology* has found. The study, by Dr Nonhlanhla Khumalo of the Division of Dermatology, of nearly 2,000 adults and children in South Africa found that one in seven schoolgirls and a third of women were suffering from traction alopecia, hair loss, thought to be caused by excessive and prolonged pulling of the hair. The research also found that very short haircuts, like the "brush cut", made men more prone to developing severe acne on the scalp, thought to be caused by the hair clippers damaging the scalp when pressed hard.

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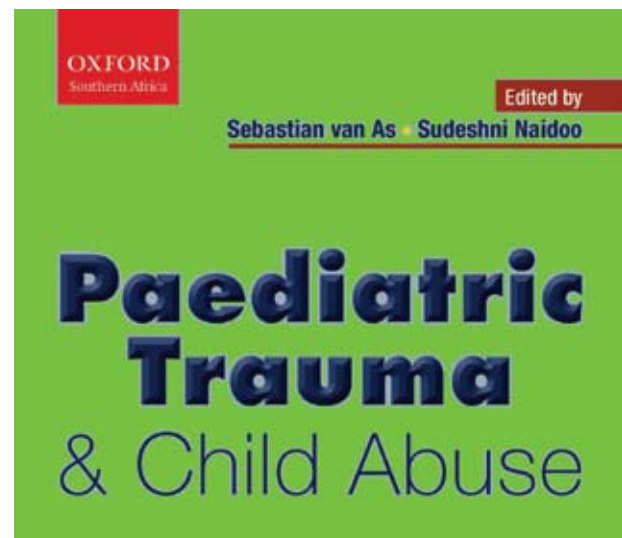
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BOOK GUIDES CHILD ABUSE DIAGNOSES

Concern over high levels of trauma and child abuse in South Africa has prompted personnel at the Red Cross War Memorial Children's Hospital to launch a book, *Paediatric Trauma and Child Abuse*, aimed at improving the medical fraternity's responses to such incidents. "This book offers a comprehensive approach to both early and definitive medical management of paediatric trauma as well as the legal, ethical and social issues involved with child abuse," says co-editor Professor Sebastian van As.

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High-level awards: Drs Shaheen Mowla (left) and Zenda Woodman have bagged Sydney Brenner Fellowships.

TOP FELLOWSHIPS FOR TWO UCT MEDICINE WOMEN

Drs Zenda Woodman and Shaheen Mowla received prestigious Sydney Brenner Fellowships for their groundbreaking work in HIV and cancer research respectively. Mowla (Human Biology), identifies genes involved in cancer formation. Cancer among South Africans is increasing rapidly. She is investigating the Tbx3 protein implicated in the development of certain cancers of the lung, breast, liver and bladder. Woodman (Institute of Infectious Disease and Molecular Medicine) researches HIV inhibitor drugs and different approaches to vaccine development.

RESEARCH

output

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RESEARCH output

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ARTICLES IN PEER-REVIEWED JOURNALS

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DEPARTMENT OF PSYCHIATRY AND MENTAL HEALTH

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STUDY COULD HELP IN FIGHT AGAINST PARKINSON'S DISEASE

PhD graduate Musa Mabandla has discovered that voluntary exercise in rats can prevent dopamine neurons, nerve-impulse transmitters essential for effective motor-function, from dying. In his thesis, *Exercise induced neuroprotection in spontaneously running rats*, Mabandla (Human Biology) studied the behaviour of rats in a cage with running wheels and allowed to run freely. After a week, they were given a neurotoxin to kill dopamine neurons, and put back into the cage. Behavioural testing showed a consistent decrease in motor-function impairment and an increase in dopamine neuron survival. Mabandla's findings are indispensable to the study of Parkinson's disease.

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SALIVA PREVENTS HIV TRANSMISSION

PhD graduate Habtom Habte has discovered that mucous glycoproteins known as mucins from crude saliva, breast milk and cervical secretions block HIV-1 activity. In a first-of-its-kind study, The inhibition of HIV-1 activity by crude mucus and purified mucin from saliva, breast milk and the cervical tract of normal subjects, HIV-positive individuals and patients with HIV-AIDS confirms the suspicion that a macromolecular component in saliva traps the HIV virus completely, making transmission impossible.

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DEPARTMENT OF RADIATION MEDICINE

(INCLUDING THE FOLLOWING DIVISIONS: MEDICAL PHYSICS, NUCLEAR MEDICINE, RADIATION ONCOLOGY, RADIOLOGY)

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DEPARTMENT OF SURGERY

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Pictured after the Faculty of Health Sciences graduation ceremony on 12 December 2007, Dr Merle Futter (doctoral graduate), Dr Tamara Hew-Butler (doctoral graduate), Dr Mark Hatherill (doctoral graduate), Dr Jacqui Friedling (doctoral graduate), Dr Amaal Abrahams (doctoral graduate), Prof Solomon Benatar (DSc Med in Health, Ethics & Society), Prof Kit Vaughan (Deputy Dean, Postgraduate Affairs) and Dr Susan Cleary (doctoral graduate).

SECOND TIME AROUND FOR FUTTER

In 2003 Merle Futter stepped up to the podium in Jameson Hall to get her PhD, never imagining she would repeat the exercise four years later. Futter's second doctorate, funded by the MRC, researched Huntington disease. Now with the Division of Human Genetics, her thesis evaluates predictive testing and clinical genetic counselling services for Huntington disease in the Western Cape over the past eleven years. The findings, which include participants' recommendations, have improved various aspects of the Huntington disease predictive testing programme and neurogenetic clinic.

RESEARCH

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