

Some Research Highlights

THE FOLLOWING REPRESENT A SELECTION OF RESEARCH ACHIEVEMENTS FROM THE PAST YEAR. MORE HIGHLIGHTS AND SUCCESS STORIES ARE FEATURED THROUGHOUT THIS REPORT.



Dr Gina Ziervogel is one of two national recipients of the President's Award from the National Research Foundation, for her work on climate change adaptation.

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UCT launches the African Climate and Development Initiative, which aims to inspire a future of responsible earth stewardship through research, teaching and social engagement.

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Professor Haroon Borat steps into UCT's 27th national research chair, awarded through the South African Research Chairs Initiative.

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The world's second positron emission particle tracking facility, PEPT Cape Town, is launched at iThemba Labs in Cape Town in 2009.

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Professor Mino Caira receives the South African Chemical Institute's Gold Medal for 2009.

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Professor Jill Farrant becomes the first woman and fourth UCT winner of the prestigious Harry Oppenheimer Fellowship Award, valued at €100 000.

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The Department of Science and Technology awards its Best Emerging Scientist award to Physicist **Dr Amanda Weltman** for her outstanding scientific contribution to the natural sciences.

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The UCT 2009 Book Award is awarded jointly to **Professors Pippa Skotnes** and **Nigel Penn**.

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Professor Anna-Lise Williamson and her team from the UCT Institute of Infectious Disease and Molecular Medicine announce that their two preventative HIV vaccines have reached the first stage of human clinical trials.

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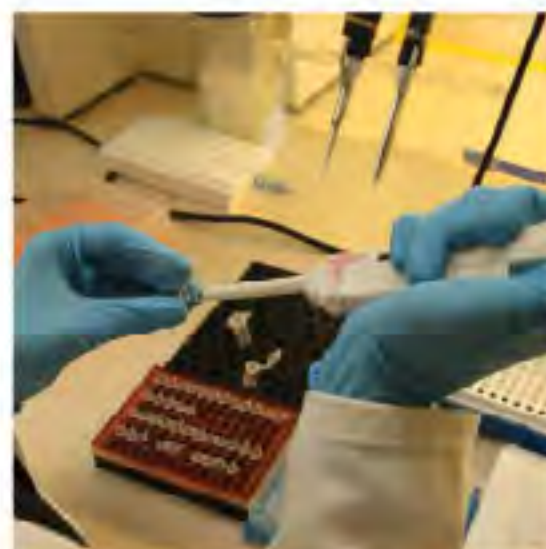
The 2009 Alan Pifer Award is made to **Professor Raj Ramesar** in recognition of his work with South Africa's most disadvantaged communities in the Northern and Western Cape Provinces.

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Professors Bongani Mayosi (pictured) and **Johann Lutjeharms** are awarded the Order of Mapungubwe (Silver), the country's highest national order, for outstanding contributions in their respective fields.

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UCT is part of the **Southern African Consortium for Research Excellence**, a new £30 million initiative funded by the Wellcome Trust, which aims to develop institutional capacity on the African continent to support and conduct health-related research.

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Department of Research and Innovation

At UCT, as at any other higher-education institution, researchers and research run the gamut of experience and needs, from first-time postgraduates to international leaders in their fields, from a master's student hoping to attend a conference in Addis Ababa or a workshop in Stuttgart, to an established researcher wishing to set up a new collaboration or patenting a novel lab process. It only makes sense, then, that institutional support takes different shapes and sizes. At UCT, that support comes primarily – but not exclusively – from the Department of Research and Innovation, operating via three niche structures. These are the Research Office, the Postgraduate Centre & Funding Office, and the Research Contracts and Intellectual Property Services. Here we offer a brief introduction to their roles.



RESEARCH OFFICE

It is the role of the Research Office to execute the University's research vision by supporting research planning and policy implementation. It does this by managing internal and external grants

funding, quality assurance for research, the government's higher education subsidy distribution requirements, and the development and support of emerging and mid-career researchers. Besides administering internal grant programmes that accommodate a range of research needs, we seek to expand access to national and international grants by building relations with funding agencies, research councils, and regional and government departments.

For purposes of this introduction, these roles – except funding, covered elsewhere in this report – are best illustrated through the Office's involvement in a number of distinct, if overlapping, projects in 2009. These are the running of research development programmes, directing the University's quality assurance programme through the peer-reviews of several research groupings, tracking the University's publication count, submitting two major international proposals to enhance support capacity in the Office, positioning UCT in relation to global rankings as well as the national rating of individual researchers, and playing a part in forging new and strategic partnerships.

The University Research Committee's Framework for Research Development is intended to support researchers at emerging, established (mid-career) and advanced stages of their academic careers. Under the aegis of this Framework, the Research Office offers four main programmes. An eight-fold increase in numbers is testimony of the success of the first, the Emerging Researcher Programme (ERP) – participation in workshops,

seminars, mentoring opportunities or grant applications jumped from 45 in 2003 to 364 by the end of 2009 (see Figure 1). The ERP is also changing the University's research face as a growing number of young black and women academics are signing up for one or more aspects of the programme. As postgraduate numbers grow, so does the demand for supervisors, and a pleasing number of postgraduates and academics – between 20 and 30 – attended regular Supervision Training sessions. The third initiative, the Programme for the Enhancement of Research Capacity (PERC) offered its second year of structured support for selected researchers, and a total of 122 academics attended one or more seminars and workshops in 2009. And in a PERC spinoff, titled African Research Project on Knowledge Production, a Carnegie grant allowed the Office to make four awards, each valued at R150,000 per year for three years, to cross-faculty research collaborations that highlighted the place of local knowledge systems. More such grants will be made in 2010. Finally, the Mellon Visiting and Retired Scholars Mentorship Programme ended its three-year cycle in 2009. Over this period, 20 local and international mentors have been hosted by UCT departments. While it is difficult to quantify the success of the Programme within the current time-frame, students' and fellows' project plans and narrative reports suggest that structured mentorship does impact positively on researchers' professional and personal lives as well as on the institutional culture.

"The ERP is also changing the University's research face as a growing number of young black and women academics are signing up for one or more aspects of the programme."

In 2009, quality assurance measures were again put in place to evaluate a specific cohort of UCT's research groupings. During this process, 12 research groupings, including three Medical Research Council units and a UCT Signature Theme, the Marine Research Institute (MA-RE), underwent a second round of peer review. While the first cycle from 2003 to 2008 aimed to encourage good governance and objective setting, the second cycle included international peer reviews for the high performers from the first cycle. This process is described in detail later in this report.

The Research Office also co-ordinates UCT's publication count. This is an annual submission of the University's accredited research output – in the form of books, journals and conference proceedings – that is submitted to the national Department of Higher Education and Training (DoHET). In 2009, UCT was awarded 1086.15 units for these publications (recorded for the period 2008 and late 2007), thus representing an overall increase of 6.8 per cent over 2007's figures (see Figure 2). This places UCT second only to the (larger) University of Pretoria in overall national publication figures as recognised by the DoHET. UCT has shown an average annual growth of 9.6 per cent from 2004 to 2008 for accredited publications.

FIGURE 1: EMERGING RESEARCHER PROGRAMME, 2003-2009

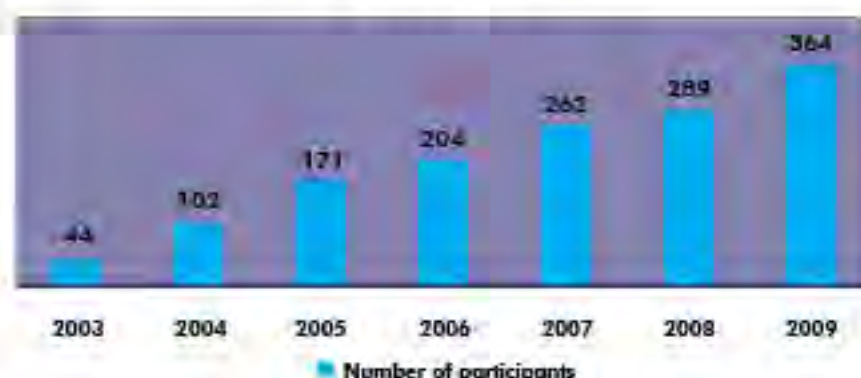
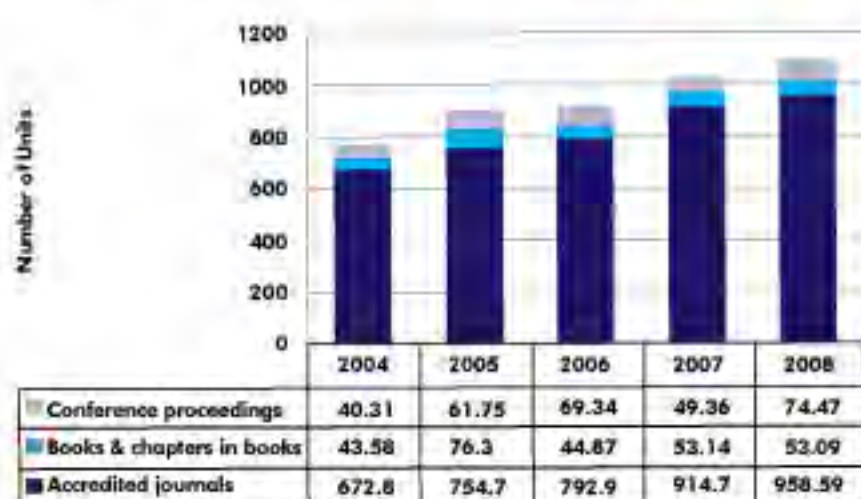


FIGURE 2: PUBLICATION COUNT UNITS, 2004-2008



In 2009, the Research Office submitted a successful proposal to the National Institutes of Health (NIH), USA, for an International Extramural Associates Research Development Award (IEARDA). IEARDA aims to provide training for grant managers in NIH policies and procedures and, by expansion, to enhance the support for all large international grants. It also provides funding to build up existing administrative infrastructure at UCT's Research Office.

The 2008 research report introduced UCT's Framework for Engagement with International Ranking Systems, this being the University Research Committee's response to UCT's rise in the world's leading ranking systems, i.e. the Shanghai Jiao Tong University's Academic Ranking of World Universities and the Times Higher Education – Quacquarelli Symonds (QS) World

University Rankings. The Framework aims to inform the way in which faculties position themselves in relation to these rankings. In 2009, faculties were beginning to shape their responses, but already it is clear that awareness of the indicators is focusing the minds of researchers on the impact of their research, and by consequence, on their evaluation and dissemination strategies. There is consensus that the impact and social responsiveness of research translate differently across the disciplines and that – in view of the diversity of purpose in higher education institutions – there is no 'one size fits all' way of measuring and evaluating activity. Rather than blindly trying to emulate institutions at the top of the league tables, there is a concerted effort to re-think impact and visibility in terms of our responsibility as research partners in and for Africa and to enhance performance in this regard.

Mindful of the controversy that surrounds international rankings, the Research Office was represented at the 3rd International Conference on World-Class Universities, held in Shanghai, China, in October 2009. The conference explored the challenges of setting up globally competitive universities. It was recognised, however, that any ranking system would need to consider the value that comes out of addressing the learning needs of an increasingly diverse student population. UCT thus joined the Times Higher Education Survey Platform Group, which sets out to develop a rounded picture – and ranking system – of what a higher education institution does and how well it does it.

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All in all, the year showed continued growth for the University's research community on both the local and international fronts. This trend should continue as we bed down the new initiatives commenced over the past year.

Dr Marilet Sienaele
Director, Research Office

Department of Research and Innovation



THE POSTGRADUATE CENTRE AND FUNDING OFFICE

The Postgraduate Centre and Funding Office (PGC&FO) is based in the Department of Research and Innovation, and is accountable to the

University's Postgraduate Studies Funding Committee, which in turn reports to the Board for Graduate Studies.

The PGC&FO provides a broad range of services, including the administration of financial support, to postgraduate students and postdoctoral research fellows. It focuses its services on postdoctoral research and students involved in the research. It also arranges specific funding, for example, to help students present their work at local and international conferences, and to conduct research at collaborating institutions.

In addition to funding, the Office establishes and manages other support structures and resources that underpin the work of postgraduate students and postdoctoral research fellows. One such structure is the UCT Postgraduate Centre and Seminar Room, which provides a comfortable space for master's and doctoral students and postdoctoral fellows to meet and use the 12 computers and workspaces provided. A lounge area provides comfortable seating where students can read the many journals, magazines and newspapers on offer, and the Seminar Room provides a facility for seminars, meetings, workshops and training courses. The Centre is located adjacent to the Postgraduate Funding Office.

Future initiatives include provision of a comprehensive information service, including related online access and assistance. Work is also under-way to consolidate the postdoctoral sector and establish an inclusive and unique postdoctoral culture at the University.

In 2009, the Postgraduate Funding Office administered 5347 applications from 5252 postgraduate students registered for honours, master's and doctoral degrees at UCT. Of these, 3659 awards totalling R97,134,799 were made to 2052 students. (See pages 18 and 19.)

A major initiative for 2009 was the second survey on the postdoctoral sector (the first was held in 2003), conducted by the PGC&FO and the Institutional Planning Department. The findings will be reported throughout 2010.

Linda Vranas

Director, Postgraduate Funding Office



RESEARCH CONTRACTS AND INTELLECTUAL PROPERTY SERVICES

Research Contracts and Intellectual Property Services (RCIPS) supports UCT's research activities by centrally

managing, authorising and negotiating research contracts entered into with our wide variety of funders. Intellectual property in the knowledge economy in which we operate is central to many of these contracts and the group strives to protect UCT's interests from the outset. We also assist with protection of the intellectual property flowing from our world-class research, often via patenting. RCIPS seeks to stimulate the growth of the South African economy by fostering small business development and/or the creation of jobs through the commercialisation and implementation of UCT's intellectual property, transforming society and leading to social and commercial benefit.

Over the period 2006 to 2008 UCT's income through research contracts has grown considerably, and the value of the contracts processed by RCIPS has increased from R354 million in 2006 to R548 million in 2008. In 2009, we experienced only a slight decrease in the value of the contracts processed (R543 million), which is still appreciable, considering that we were in the middle of a recession. We have become dependent on foreign investment for much of our research and in 2009 we entered into 353 contracts to the value of R335 million with entities from 32 countries.

2009 has seen significant focus by the RCIPS team on the commercialisation of UCT's intellectual property portfolio, in terms of both licensing and business plan development, culminating in the re-launch and spin-out of African Medical Imaging (Pty) Ltd, now CapeRay (Pty) Ltd (described opposite). UCT is also considering taking equity in five other businesses that are being planned or started. Two sizeable licensing agreements are being negotiated with global corporations that, in addition to the significant revenues that will be received from upfront payments and royalties, will in the one case importantly bring further funded research to UCT as part of the deal, as well as skills and knowledge transfer.

The R500,000-per-year University Research Committee Pre-Seed Fund established in 2008, which aims to provide hard-to-get financial support for early-stage development, is expected to be an important means of moving UCT's research output closer to the market. A variety of well-motivated proposals have been received, leading to the funding of eighteen projects. A total of R960,000 has been allocated

MAMMOGRAPHY INNOVATION

The years running the MRC/UCT Medical Imaging Research Unit fuelled the entrepreneurial instincts in Emeritus Professor Kit Vaughan. So it was no surprise that, when he chose to retire from UCT at the end of 2009, it was to set up a business. Specifically, Vaughan wanted to put the finishing touches to – and then take to market – a breast-cancer-detecting mammogram machine that he believes will stand up to the very best in the world. The machine he and colleagues are designing at his new medical-imaging company, CapeRay, is packed with sophisticated new technology such as the latest in both low-dose X-ray and ultrasound technology, founded on state-of-the-art computing solutions and an ultrasound scanner which can compile a 3-D image of the breast. The machine is the culmination of millions of Rands of private and public investment and over a decade of work at UCT, where Vaughan set up the country's first medical-imaging research unit in 2000.

Professor Kit Vaughan (centre), pictured here with senior design engineer, Michael Evans and business manager, Narasha Steele.



to date. Progress reports submitted indicate that ongoing projects are progressing well towards targets. The full impact of the Pre-Seed Fund on these projects will only be seen when particularly the larger projects are completed and successfully enter the next phase of the innovation chain.

The 2009 IP Scout Pilot, run in the Chemistry and Electrical Engineering Departments, has successfully extended the reach of RCIPS. Following the success of the IP Scout Pilot, additional IP Scouts will be appointed in other departments and strategies developed to identify suitable IP Scouts.

Whilst recent experiential training at Oxford University's technology transfer office, Isis Innovation, and NHS Innovations London provided valuable insight into their processes, it was reassuring to note that many of the required systems and processes for the successful management of IP and technology transfer are in place at UCT and merely need to be expanded and matured. The strong interaction between

the different South African university Technology Transfer Offices has also created a vibrant community of practice, leading to joint initiatives such as Tektique which showcases the IP available at participating universities.

The delay in the finalisation of Regulations relating to the IP Rights from Publicly Financed Research and Development Act will mean that dissemination of knowledge within the UCT community will be a key activity during 2010, along with the consequent revision of the UCT IP Policy.

Our strategy around innovation and entrepreneurship will also be revisited and it is anticipated that this will incorporate a review of the 'State of Innovation at UCT', including social innovation and entrepreneurship, which will be an important focal area for the future.

Piet Barnard
Director, RCIPS

Indicators of Research Activity

There is an ever-growing recognition that universities need to benchmark themselves against other universities, both nationally and internationally. Measuring our research activity at UCT is done through internationally accepted indicators such as the income generated through agency funding and research contracts, support provided to postgraduate students and postdoctoral researchers, the international standing of our researchers through participation in the NRF rating process, and the quality and impact of peer-reviewed research publications and creative output.

RESEARCH FUNDING

Few researchers can, in the current climate, rely exclusively on institutional support to fund the full scope of their work. Funding for research thus has to be sought via numerous avenues. National funding agencies such as the National Research Foundation and Medical Research Council are key sources of research funding, as are research contracts signed with external constituencies. The funding described below is in addition to the University Research Committee's budget of R38 million in 2009.

NATIONAL AGENCY FUNDING THROUGH RESEARCH GRANTS

The National Research Foundation remains a first resort for funding for many researchers at UCT. Targeted funding is also available from the Medical Research Council for individual researchers and research groups.

Despite the changes to the National Research Foundation's strategic vision and funding strategy, the NRF continues to be a major source of funding for UCT researchers. At the end of 2009, UCT had a total of 394 NRF grant holders holding 807 grants with a cumulative value in excess of R189 million. This can be favourably compared to the previous year's 359 grant

holders, with 728 grants cumulatively valued at over R176 million. Figure 3 provides a breakdown of the support received from the NRF in 2009, under its funding programmes. Funding from the NRF to UCT has grown considerably in the last five years, as illustrated in Figure 4.

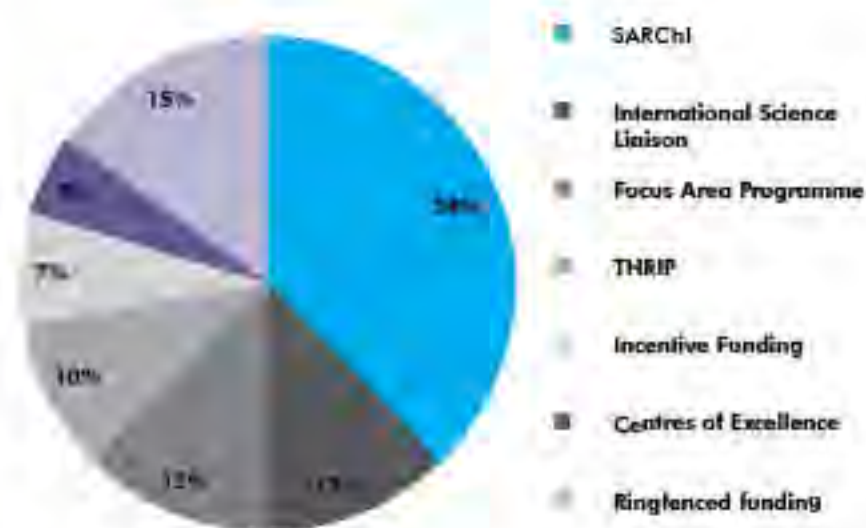
FIGURE 4: NRF FUNDING AWARDED TO UCT, 2005-2009



An analysis of NRF funding at the end of 2009 shows that:

- UCT researchers held Focus Area Programme grants with a cumulative value of R22,187,507.
- 80 NRF-rated researchers were recipients of grants through the Incentive Funding for NRF-rated Researchers Programme, at a total value of R13,589,667.
- Direct funding from the Technology and Human Resources for Industry Programme (THRIP) amounted to R18,986,500, with contributions from industry standing at R40,484,215. THRIP is managed by the NRF on behalf of the Department of Trade and Industry; the programme leverages industry funding with the provision of matching government funding for innovative research and development in South Africa.
- UCT's grants under the International Science Liaison programme had a value in excess of R24,207,684 in 2009.
- The NRF contributed five per cent to the annual budgets of the two Centres of Excellence hosted at UCT, valued at R9,661,430 (also see page 28).
- Funding to the twenty seven DST/NRF SARCHI chairs based at UCT amounted to R71,675,041 in 2009 (also see page 22).
- More than R27 million was awarded to UCT researchers through ring-fenced funds set aside for priority research areas. For example, seven applications were funded under the Blue Skies Programme, with a total allocation of R2,110,000 (which accounts for approximately 20 per cent of the NRF's overall budget for this programme); eleven applications received support under the Competitive Support for Unrated Researchers Programme, with a cumulative value of R5,551,500; and the number of participants in the Thuthuka Programme, a capacity-building programme of the NRF, increased to 35, with combined funding levels from the NRF and UCT increasing to R4,521,400.

FIGURE 3: NRF FUNDING AWARDED TO UCT IN 2009



Total value of NRF funding in 2009: R189,278,433

TOP PRIZE FOR PHD GRADUATE

The Council of the Economic Society of South Africa awarded Dr Tia Linda Zuze, a research affiliate in UCT's South African Labour and Development Research Unit (SALDRU), its 2009 Founders' Medal for a PhD dissertation in recognition of her excellent research thesis, *Equity and Effectiveness in East African Primary Schools*. Her PhD work, undertaken as a Graduate Associate in SALDRU, was enabled by a Spencer Foundation Scholarship awarded through the School of Education at UCT. Zuze said she was honoured that her thesis was not only judged the top PhD thesis in the School of Economics at UCT in 2008, but also emerged victorious from a strong pool of candidates from economics departments across the country. "I'm honoured to receive this award. It's a real tribute to the excellent academic support that I received while at UCT. Writing a thesis is always a challenge but I feel that, through this process, I've grown as a researcher. I'm still passionate about finding ways to make education and training fairer and more relevant for young people in Africa. So perhaps this is a first step in a longer journey."



The **Medical Research Foundation (MRC)** aims to improve the nation's health and quality of life through promoting and conducting relevant and responsive health research. UCT received R13,503,574 in funding from the MRC in 2009. This came in the form of research grants (e.g. career development awards and research fellowships), self-initiated research grants (for individual projects), and funding for nine MRC/UCT research units, groups and centres. This amount is in addition to the individual research contracts signed between the two institutions.

FUNDING FROM RESEARCH CONTRACTS

In 2009, the Research Contracts and Intellectual Property Services Office processed 882 contracts to the value of R543,590,000 million. As mentioned earlier in this report, these figures represent a slight decrease on 2008 values, but should be seen within the context of the worldwide recession. These contracts vary from short-term contracts of under R10,000 to multi-year contracts with multimillion-rand budgets and involve a variety of local and foreign clients.

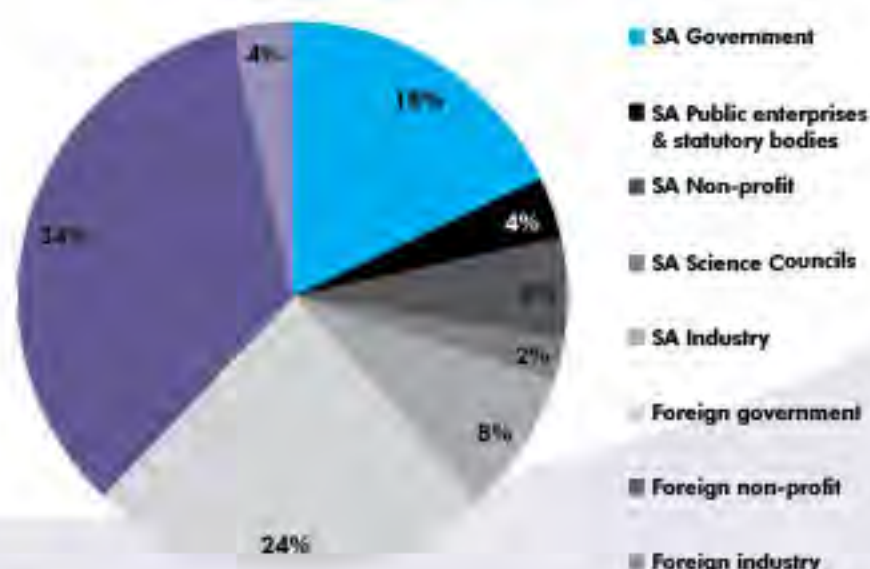
A total of 529 contracts to the value of R208.81 million were entered into with South African organisations in 2009. This includes contracts with government departments (R97.5 million), public enterprises and statutory bodies (R19.7 million), South African science councils and national research centres (R14.1 million), non-profit entities (R31.6 million), and industry (R45.9 million).

A total of 353 contracts to the value of R334.8 million were entered into with entities from 32 countries in 2009. The major source of foreign funding was the USA (R176.4 million), followed by The Netherlands (R66.4 million) and the United Kingdom (R39.5 million).

Aeras Global TB Vaccine Foundation (USA) was the most prominent funder of research, and contracts to the value of R92.8 million were entered into in 2009. Another major sponsor from the USA was again the National Institutes of Health, and contracts valued at R50.8 million, directly or indirectly through collaboration with USA universities, were signed in 2009. Contracts to the value of R64 million were entered into with the European & Developing Countries Clinical Trials Partnership, which operates from The Netherlands. The major United Kingdom contributor is the Wellcome Trust, with contracts totaling R14.9 million.

The percentage share of each of the categories of South African and non-South African organisations is illustrated in Figure 5 below. It can be seen that South African organisations account for 38 per cent of the total research funding and non-South African organisations account for the remaining 62 per cent. This reliance on international funding is indicative of the extent to which UCT's research is global in scope and impact.

FIGURE 5: RESEARCH CONTRACTS BY SOURCE, 2009



Indicators of Research Activity

POSTGRADUATE FUNDING AND RESEARCH

In 2009, over R97 million was raised from six major postgraduate-funding sources, with departmental scholarships accounting for over R40 million and the National Research Foundation for another R26 million. This funding goes towards scholarships, as well as support to international students and conference and international travel. Departmental scholarships are derived from funds raised by individual academics and/or departments. Table 1 provides a detailed breakdown of these awards.

TABLE 1: SOURCE OF FUNDS FOR POSTGRADUATE STUDENTS

Source of Funds	Number of Awards	Value
UCT Council	852	R11,591,420
Departmental scholarships	1 017	R40,444,342
Donations	476	R14,183,673
Investments	570	R4,005,121
National Research Foundation	727	R26,080,243
Medical Research Council	17	R830,000
Total	3 659	R97,134,799

In line with UCT's strategic goals to internationalise and develop research at UCT, and because senior postgraduate students play an important role in the University's overall research enterprise, opportunities that support international students, conference and international travel and exposure, as well as some that provide specific support for research, are offered. Some of these funding programmes are shown below.

- **UCT Scholarships for International and Refugee Students.** Many international and refugee students are supported by their supervisors and other fundholders in the academic departments. However, there is one UCT Council-funded and centrally managed scholarship programme. In 2009, 106 awards were made to international and refugee students to a total of R2,751,470. Of this total, R824,500 was contributed to the programme by the Eric Abraham Scholarship fund for refugee students.
- **UCT Conference Travel Grants.** In 2009, 32 master's and doctoral students travelled to present papers at conferences in international destinations such as Canada, Finland, Greece and Kenya, as well as at various South African venues.
- **The UCT Scholarships for International Travel.** These awards allowed 22 master's and doctoral students who are registered for full-time research degrees to travel to

any approved international institution for between two and 10 months, to conduct research, attend courses or visit specific laboratories. The countries visited in 2009 included Ghana, Kenya, and Brazil, as well as institutions across Europe and North America.

- **The UCT Research Associateships.** These highly prestigious awards were established to recognise the supervisor/student research team. Each year a limited number of awards are made to students, with a monetary contribution to the recipient's supervisor. Such funds are intended to assist with the cost of ongoing research and/or to provide means for travel to conferences or for research purposes. In 2009, 19 master's and doctoral students received Research Associateships to a total value of R780,000.
- **Funding awarded by donors.** Postgraduate students and Postdoctoral Research Fellows (PDRFs) at UCT are supported by generous grants from donors. These include:
 - the **Harry Crossley Foundation**, which has provided support to postgraduate students and PDRFs for many years. In 2009, one postdoctoral research fellowship, 22 research fellowships, and over 100 needs-based bursaries worth over R2 million were awarded.
 - the **AW Mellon Cross-Faculty Scholarships**, which provided support valued at R1,644,000 to 24 master's and eight doctoral students.
 - the **D & E Potter Fellowship Programme**, which supported 13 master's and doctoral students to a total value of R1,080,000. These full-cost fellowships include allowances for travel, research and seminars.
 - the **UCT/Woolworths Fellowship** and the **UCT/CSIR Scholarships Programmes**, which provided support to five (total value R487,500) and nine (total value R655,000) students respectively.

POSTDOCTORAL RESEARCH FELLOWS

The Postgraduate Funding Office is responsible for policies pertaining to the postdoctoral sector, the administration of fellowships and the provision of general support that includes monitoring quality-of-life matters, and initiating and assisting with regular surveys.

Since 2002, the number of Postdoctoral Research Fellows at UCT has increased from 84 to 197 in 2009, and the overall value of financial support has increased proportionately. This is illustrated in Figures 6 and 7. In 2009, UCT awarded 284 fellowships – some fellows receive more than one – worth more than R28 million.

AWARD FOR VACCINE-HUNTER

It is high time that African scientists find African solutions for Africa, says postdoctoral research fellow Dr Nyasha Chin'ombe. Chin'ombe, currently a postdoctoral research fellow under Professor Anna-Lise Williamson's SARCHI Chair in Vaccinology, was selected by the National Research Foundation to participate in the South Africa Drug Discovery programme in 2010. The Drug Discovery programme is a collaboration between Emory University in the USA and South Africa, and aims to build a cadre of high-calibre scientists who will play an important role in the development of vaccines and other biopharmaceuticals against HIV/AIDS and other communicable diseases. Chin'ombe will spend the 12 to 24 months in the USA learning cutting-edge research technologies in vaccine discovery. He graduated from UCT with a PhD in medical virology in 2007.



Postdoctoral Research Fellows are supported from several different sources, as illustrated in the Table 2. The strongest source of support comes in the form of departmental fellowships, valued at R17,491,825 in 2009. The NRF and individual sponsors are also significant contributors to postdoctoral research at UCT. An example of this is the Claude Leon Foundation that, in 2009, provided Postdoctoral Research fellowships valued at R2,003,000 to 16 PDRFs.

A special University grant allowed the Office to establish the Vice-Chancellor's Postdoctoral Fellowship Programme in 2009. Twenty fellowships of R165,500 each were awarded. Every recipient could also apply for a further R16,500 towards conference travel.

FIGURE 6: GROWTH IN POSTDOCTORAL RESEARCH FELLOWS AT UCT: 2002-2009

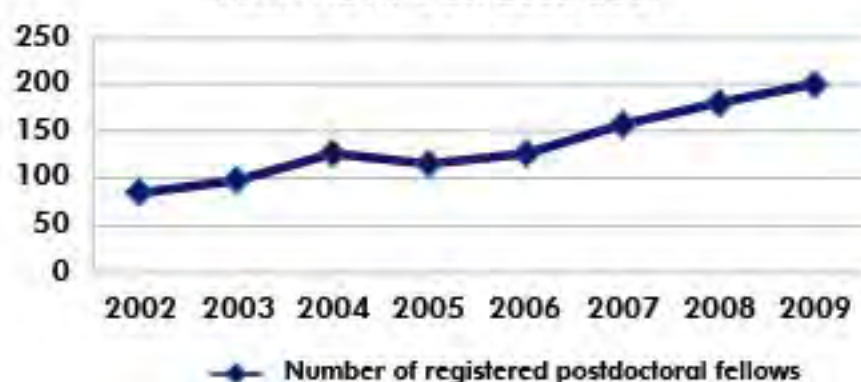


FIGURE 7: VALUE OF POSTDOCTORAL FELLOWSHIPS: 2002-2009

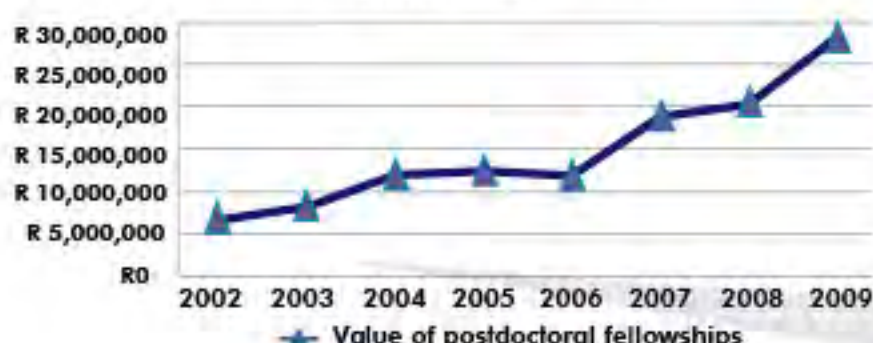


TABLE 2: SOURCE OF FUNDS FOR POSTGRADUATE RESEARCH FELLOWS, 2009

Source of Funds	Number of Awards	Value
UCT Council	24	R1,201,958
Departmental Fellowships	160	R17,491,825
National Research Foundation	80	R6,956,447
Medical Research Council	3	R350,000
Donations	16	R1,928,000
Total	281	R27,969,867

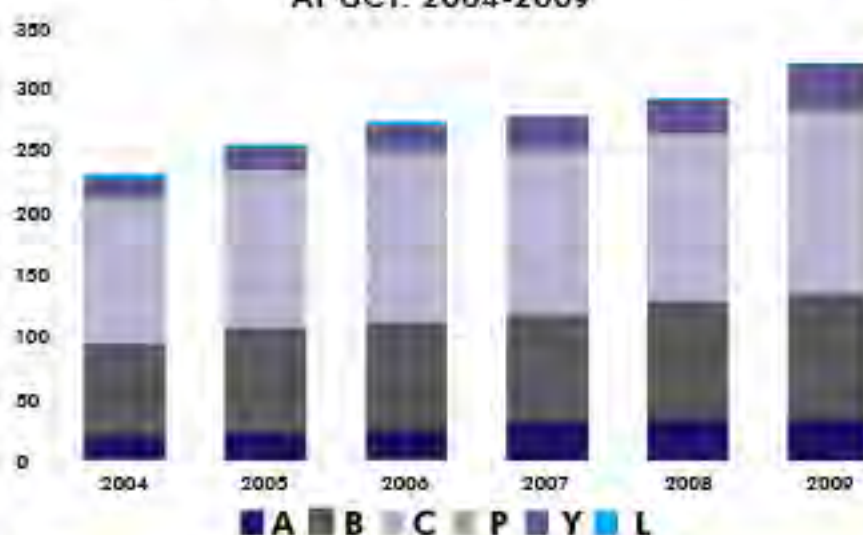
NRF EVALUATION AND RATING OF RESEARCHERS

As a university that prides itself on the world-class quality of its research – a valuable leverage for international collaborations and funding – the National Research Foundation's annual round of evaluation and rating provides a critical measure of that quality. The evaluation and rating of individuals is based primarily on the quality and impact of research output in the recent past, as judged by national and international peers. Ratings have historically been awarded in six categories (see descriptions overleaf) targeting researchers with an established track record (categories A, B and C) or those who show promise of becoming established within a few years (categories P, Y and L). At the end of the 2009 application cycle, UCT had 322 researchers rated by the NRF – the highest number in the country – of whom 32 are A-rated.

Indicators of Research Activity

The past year saw the departure of two A-rated researchers to other institutions, and the awarding of a new A-rating to Professor Michael Feast, who shares a joint appointment between UCT's Department of Astronomy and the South African Astronomical Observatory. Professors David Chidester (Religious Studies), Maarten de Wit (Geological Studies) and Timothy Noakes (Human Biology) retained their A ratings on re-evaluation. Dr Gina Ziervogel of the Department of Environmental and Geographical Studies was awarded the prestigious NRF President's Award (or P rating), which was one of only two such awards made nationally (see next page). Figure 8 shows the growth in the number of NRF-rated researchers at UCT since 2004.

FIGURE 8: NUMBER OF NRF-RATED RESEARCHERS AT UCT: 2004-2009



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 of exceptional performance, are recognised internationally as having the potential to become future leaders in their field.
- Y –** Younger researchers (40 years or younger) 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 five-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 five-year period after submission of evaluation documents.

LIST OF NRF-RATED RESEARCHERS AT UCT

Newly rated researchers from the 2009 cycle are listed in bold text.

Abiodun, B	Chan, A	Fedderke, JW
Abratt, RPA	Chibale, K	Flanagan, CA
Abratt, VR	Chidester, DS	Fisher, A
Ackermann, RR	Chinsamy-Turan, A	Fraser, DM
Adhikari, M	Chirwa, D	Gade, G
Alexander, MG	Claeys, MC	Gain, J
Alexeeva, N	Clarkson, C	Gammon, DW
Allie, MS	Cleymans, JWA	Gaunt, CT
Altwegg, R	Cochrane, JR	Gillson, L
Ansorge, IJ	Collins, M	Gilson, L
Archer, A	Combrinck, MI	Glazewski, JI
Armitage, NP	Compton, JS	Gobodo-
Badri, M	Comrie, CM	Madikizela, P
Barashenkoy, IV	Cooper, BL	Goedecke, JH
Barnes, K	Corder, HM	Govan, V
Barr, GDI	Cornille, JL	Greenberg, UHL
Bassett, B	Coyne, VE	Griffiths, CL
Bateman, E	Cramer, MD	Guo, R
Beighton, PH	Crankshaw, O	Haerting, M
Bennett, TW	Crowe, TM	Haines, LM
Beushausen, H	Cumming, G	Hapgood, J
Bezuidenhout, D	Dalvie, MA	Harley, EH
Bharat, HI	Dandara, C	Harris, MC
Bickford-Smith, JV	Davidowitz, B	Harris, C
Biekpe, N	Daubs, L	Harrison, STL
Blackburn, JM	De Blok, E	Hart, M
Blake, EH	De Gruchy, JW	Haupt, A
Bolton, JJ	De Jager, K	Hedderson, TAJ
Band, WJ	De Jager, G	Hellaby, CW
Bosch, AN	De Vos, P	Herman, R
Bosch, T	De Wit, MJ	Hewitson, BC
Bourne, SA	Deglon, DA	Himonga, C
Bowen, PA	Denny, LA	Hockey, PAR
Branch, GM	Deumert, A	Hoffman, MT
Brandt, WF	Dheda, K	Hunter, R
Brattka, V	Distiller, N	Hutton, AT
Breen, CJ	Dominguez, CA	Ilanovsky, A
Britton, DT	Douglas, TS	Illing, N
Brombacher, FH	Driver, KA	Inggs, SC
Bronner, GN	Dunsby, PKS	Jackson, GE
Brown, ITJ	Ebobisse, F	Jacobs, M
Brundrit, J	Eckardt, FD	Jacobs, DS
Bruyns, PV	Edwards, LJ	Janelidze, G
Buffler, A	Egan, TJ	Jeebhay, M
Burch, V	Ekama, GA	Jelsma, J
Burchell, J	Ellis, GFR	Joubert, AR
Burgers, W	Ensor, P	Kalula, ER
Burman, SB	Farrant, JM	Kaminer, D
Butterworth, DS	Fearick, RW	Kaplan, D
Caira, MR	Feast, M	Kew, MC
Case, J	February, EC	Kidson, S

NRF PRESIDENT'S AWARD FOR CLIMATE CHANGE RESEARCHER

Dr Gina Ziervogel's research grew out of the recognition that scientific advancements in the field of seasonal climate forecasts could be of benefit to smallholder farmers in Southern Africa. Yet often this information is not accessed or used because of a number of reasons, including those related to communication methods, timing and relevance to specific activities. This research, which was the focus of her DPhil in Geography at the University of Oxford, has expanded to explore how climate information can be used to help a range of different stakeholders prepare better for current and future climate risks. Gina's research contributes to the field of adaptation to climate change, but draws on an understanding of the environment development nexus, which is critical in a developing-country context.

Gina feels honoured to have been awarded a P-rating and feels that this is in part a recognition of the role that she has played in the international research community on adaptation in the Global South, where climate risk is only one of many challenges. Understanding the governance, institutional and capacity constraints is critical to finding ways to ensure that climate science can feed into adaptation responses to reduce the risk of current and future climate impacts, particularly for the most vulnerable groups. This needs to be done by strengthening the science/society interface, and she believes her research talks to this challenge.



Klak, C	Lutjeharms, JRE	Naidoo, KJ	Rayner, BL	Shearing, C	Van der Schijff, J
Klatzow, PJL	Maartens, G	Nassimbeni, MC	Reason, C	Shepherd, D	Van der Spuy, ZM
Klump, HH	Mall, AS	Nassimbeni, LR	Reddy, BD	Shillington, FA	Van Sittert, L
Knutsen, RD	Marais, AD	Naude, T	Reid, SJ	Simmons, RE	Van Steen, EWJ
Koelble, TA	Marais, P	Ng'ambi, D	Richardson, SH	Sliwa-Hahnle, K	Varsani, A
Kohn, T	Marco, H	Noakes, TD	Rodgers, AL	Smith, G	Vaughan, CL
Kraan-Korteweg, RC	Marsden, G	Navitzky, N	Rogers, J	Solms, ML	Verboom, GA
Krige, JEJ	Mattes, RB	Nurick, GN	Root, DS	Soudien, C	Viollier, RD
Kritzinger, PS	Mayosi, BN	O'Connor, CT	Ross, DA	Spakowski, H	Visser, DP
Kruger, T	McIntyre, D	Ojuka, E	Ross, F	Stein, D	Von Blottnitz, H
Kunzi, H-P A	Meadows, ME	Oldfield, SE	Rossi, M	Stewart, TJ	Waldron, HN
Kuttell, M	Meintjes, EM	Opie, LH	Roth, R	Steyn, M	Wardle, D
Lambert, EV	Meissner, P	O'Riain, MJ	Rouault, M	Sturrock, ED	Warner, B
Lambert, MI	Mendelsohn, R	O'Ryan, C	Russell, VA	Suleman, H	Watson, VJ
Lang, CI	Mesthrie, R	Parker, MI	Ryan, PG	Tait, RB	Whitelock, PA
Lang, DM	Meyers, PR	Parkington, JE	Rybicki, EP	Tapson, JC	Williamson, A-L
Langdon, G	Micklesfield, L	Parnell, SM	Salazar, PhJ	Tayob, AI	Williamson, C
Langerman, FS	Midgley, JJ	Pascoe, M	Saunders, CC	Thiart, C	Winkler, H
Laugsch, RC	Moller, KP	Passmore, J-A	Saxby, CA	Thomson, JA	Wood, R
Le Roex, AP	Moloney, CL	Perez, SM	Sayers, AT	Tredoux, CG	Woolard, ID
Lecour, S	Morrell, R	Petersen, J	Schalkwyk, DJ	Tupper, G	Worden, NA
Leibbrandt, M	Morris, AG	Picker, MD	Schwikkard, PJ	Turok, I	Woudt, PA
Lewis, AE	Morrow, B	Pillay, P	Sealy, JC	Uliana, EO	Younge, JGF
London, L	Moss, JR	Pillay, TS	Segal, H	Underhill, LG	Zar, HJ
Lopata, AL	Mostert, H	Plaganyi-Lloyd, E	Sewell, BT	Van As, AB	Ziervogel, G
Louw, J	Moultrie, T	Potter, P	Seymour, L	Van Belle, J-P	Zingoni, A
Low, I	Muasya, M	Prinsloo, MH	Shaikh, S	Van der Heyden, K	
Lucas, M	Muller, JP	Ramutsindela, MF	Shain, M	Van der Merwe, CN	
	Naidoo, R	Ravenscroft, N	Shay, S	Van der Merwe, NJ	

Areas of Research Focus

Without binding the research community to a few centrally determined themes, UCT has identified a number of research areas in which it would inject effort and resources. It is hoped that this investment will, ultimately, lead to critical capacity for research and excellence in selected areas of research.

THE AFRICAN CLIMATE AND DEVELOPMENT INITIATIVE

Conceptualised under the leadership of Vice-Chancellor Dr Max Price in late 2009, the African Climate and Development Initiative (ACDI) was designed to realise the full potential of UCT's impressive but dispersed expertise in climate change and variability. The Carnegie Corporation committed R4.5 million – for the three years 2010 to 2012 – to the initial stages of the initiative.

The vision of the ACDI is to establish a centre that will, through its work, express an optimistic African perspective on responsible stewardship of the planet. The ACDI aims to provide government and business leaders with evidence – based on the latest science and social science research – on which to base action on mitigation and adaptation policy. Experts will foster and lead research programmes that will focus on the scientific, engineering, legal, social and political aspects of climate change. Findings will feed into the teaching of undergraduate and postgraduate teaching programmes (including a new interdisciplinary master's degree in 2011), and the centre will also develop and offer educational programmes for the public, schools and universities as part of its community outreach drive. Initiatives will include an annual African Climate Workshop/Forum – inviting researchers and government representatives – as well as cross-campus and public seminars.

Basing its initial work on the challenges and needs facing the southwestern Cape, the centre will extend its work into the rest of the country and the continent. Ultimately, it will provide an African perspective that is grounded in strong science and addresses the issues relating to climate variability and global change in Africa. And by harnessing the skills of African researchers and young scholars – and building partnerships in Africa – the ACDI centre will do its part to develop a new generation of African leaders of the future who can tackle this issue at a local, continental and global level.

To underline the importance of this research theme and to facilitate cross-faculty collaboration, a Pro Vice-Chancellor will be appointed to lead the initiative.

REVITALISING CLINICAL RESEARCH IN SOUTH AFRICA

Revitalising Clinical Research in South Africa: A Study on Clinical Research and Related Training in South Africa, a report by the Academy of Science of South Africa (ASSAf), painted a bleak picture of the state of clinical research and training. Written by a 13-member panel of health scientists and scholars from across the

country and chaired by UCT's Professor Bongani Mayosi, the report was prompted by what was considered to be a dramatic decline in clinical research activity and capacity in the country, despite its critical role in health care.

The report suggested that clinical research was in dire need of revitalisation. The present situation, said the panel, would undermine any effort to establish well-co-ordinated state support for a health system built on the 'intelligence' of good clinical research.

The panel recommended a number of government-initiated strategies, and also suggestions for health science faculties and the pharmaceutical industry. It urges a closely co-operative and mutually trusting relationship between researchers and policy-makers, funders and other implementers.

UCT has taken these recommendations to heart. The University's Faculty of Health Sciences – in particular the Department of Medicine headed by Professor Mayosi – has developed a blueprint for a Clinical Research Programme that will allow UCT to address the current shortcomings in clinical research in the country. This will include setting up a Clinical Scholars Programme for training at all levels, founding a new Clinical Research Support Unit, striking up partnerships with historically black medical schools to target the training of black African scholars, and the creation of a Centre for Clinical Innovation and Translation. (Financial support for these projects has been sought from various potential funders.)

The multidisciplinary nature of the Clinical Research Programme will keep in mind the interests of infectious disease, chronic diseases, injury, and maternal and child health.

SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE

Conceived as an ambitious brain gain intervention, the South African Research Chairs Initiative (SARChI) was launched by the Department of Science & Technology – and administered by the National Research Foundation (NRF) – in 2006 to grow research capacity in the country.

SARChI hoped to attract the interest of, particularly, South African and international scholars from abroad, although current faculty members could also be nominated for the positions. The chairholders were expected to make significant contributions to the strategic plans of their host universities.

The initial aim was to establish approximately 55 chairs across South African universities in the first round of applications over 2006/2007, ending with a grand total of no fewer than 210 new chairholders by 2010. Having aligned its research strategy with national research and development priorities, UCT was awarded nine of the 21 chairs allotted in 2006. The University gained a further 17 of the 51 chairs awarded in the second round of applications in the latter half of 2007, noticeably more than any other university.

RESEARCHERS TURN BACK THE CLIMATE CLOCK

One of the first ACDI projects to receive funding is an innovative study run from the Plant Conservation Unit. Here investigators Professor Timm Hoffman and Dr Lindsey Gillson (in picture), an NRF P-rated researcher, and a group of doctoral and master's researchers will pool historical climate and land-use data, insights gleaned from repeat photography (shots taken since the late 1800s), palaeoecological findings (starting with pollen fossils dating back to the medieval warm period of around 850 AD), and long-term ecological monitoring to look at changes in the vegetation over the past millennium, specifically along a strip of land from Namaqualand in the west to the former Transkei region in the east. This will help the researchers get a measure of the resilience of the different biomes – from fynbos to grasslands – to natural and human-triggered changes in the climate. Researchers plan for these findings to shape policy on the management and design of protected areas, in partnership with Professor Melodie McGeoch and colleagues from South African National Parks.



Shifting priorities at a national level temporarily halted any further appointments in 2008, but SARCHI was revived in 2009, albeit on a smaller scale with only limited and more focused chairs. With the chair awarded to Professor Haroon Bhorat of the Development Policy Research Unit (see related story page 25),

UCT brought its total number of SARCHI chairs to 27 out of the 82 awarded so far across the country. At UCT, the chairs are seen as successful incubators of excellence. In keeping with their goals, the chairholders have not only redoubled the University's research efforts but also sparked a rise in postgraduate registrations.

SARCHI CHAIRHOLDERS AT UCT



Professor Jonathan Blackburn
(Functional Proteomics)



Professor Haroon Bhorat
(Economic Growth, Poverty,
and Inequality)



Professor Frank Brombacher
(Immunology of Infectious
Diseases in Africa)



Professor Kelly Chibale
(Drug Discovery)



Dr Marc Combrinck
(Clinical Neurosciences
Research)



Professor Erwin de Blok
(Astrophysics and
Space Physics)



Associate Professor Keertan
Dheda (Lung Infection and
Immunity in Poverty Related
Diseases)



Professor Jean-Paul Franzidis
(Minerals Beneficiation)

Continued overleaf

Areas of Research Focus

SARCHI CHAIRHOLDERS AT UCT



Professor Carolyn Hamilton
(Archive and Public Culture)



Professor Susan Harrison
(Bioprocess Engineering)



Professor Bruce Hewitson
(Climate Change)



Associate Professor David Jacobs
(Animal Evolution and Systematics)



Associate Professor Astrid Jarre
(Marine Ecology and Fisheries)



Professor Murray Leibbrandt
(Poverty and Inequality Research)



Professor Di McIntyre
(Health and Wealth in SA)



Associate Professor Ernesta Meintjes
(Brain Imaging)



Professor Rajend Mesthrie
(Migration, Language and Social Change)



Associate Professor Kevin Naidoo
(Scientific Computing)



Professor Lungisile Ntsebeza
(Land Reform and Democracy in SA: State & Civil Society Dynamics)



Professor Iqbal Parker
(Cancer Biology)



Professor George Philander
(Modelling of the Coupled Ocean-Land-Atmosphere Phenomena Related to Climate)



Professor Edgar Pieterse
(Urban Policy)



Professor Daya Reddy
(Computational Mechanics)



Professor Clifford Shearing
(Security and Justice)

continued on next page

NEW SARCHI CHAIR EXAMINES HOUSEHOLD POVERTY AND INEQUALITY

Come 1 January 2010, Professor Haroon Bhorat will step into UCT's new SARCHI Chair in Economic Growth, Poverty and Inequality. The position is in keeping with Bhorat's long-running concerns as director of the Development Policy Research Unit, which conducts both policy analysis and socio-economic research on labour markets, poverty and inequality. The research theme and focus for this chair will be *Economic Growth, Poverty and Inequality: Exploring the interactions for South Africa*. Bhorat will examine how – and how much – economic growth interacts with and impacts on household poverty and inequality in post-apartheid South Africa. While there's plenty of theoretical and empirical literature on this particular area of applied economics, Bhorat's study will be breaking new ground for South Africa. Turning the clock back to 1994, he will assess whether the country's economic growth has reduced both poverty and inequality thus far and, if so, how. Along the way he will also examine the role of social grants in poverty alleviation.



Professor Abdulkader Tayob
(Islam, African Publics and
Religious Values)



Professor Anna-Lise
Williamson (Vaccinology)

Professor Drucilla Cornell vacated the SARCHI Chair in Customary Law, Dignity and Jurisprudence. UCT is pleased to announce that Professor Chuma Himonga has been awarded this chair, and will add to it her own research foci. This is reflected in the change to the name of the chair to the SARCHI Chair in Customary Law, Dignity, and Human Rights.

UCT'S SIGNATURE THEMES FOR RESEARCH

UCT's Signature Themes provide a framework for theme-based interfaculty and interdepartmental research at the University. The five Themes – the African Centre for Cities, the Brain and Behaviour Initiative, Drug Discovery, the Marine Research Institute and Minerals to Metals – were selected to drive research in a strategic way, are based on areas of internationally recognised excellence within the University, and are also in line with institutional, regional and national priorities. The Themes are scheduled to undergo review in 2010, with the exception of the Marine Research Institute, which was reviewed towards the end of 2009.

AFRICAN CENTRE FOR CITIES

Based in the Faculty of Engineering & the Built Environment, the African Centre for Cities explores the nature, role and importance of cities, in particular cities in the developing world.

There is a sense of looming crisis as rapid urbanisation in the developing world has sparked concerns about food supplies, shelter, employment opportunities, water and waste management, public transport, crime and disease, and environmental decline and climate change. These issues coincide with social forces such as exclusion and conflict, which demand effective political management of institutions and processes.

With this in mind, the African Centre for Cities has two objectives. The first is to partner with African policy-making centres in the public sector to provide alternative perspectives to deal with urban issues. Secondly, it hopes to provide an intellectual base and home for interdisciplinary, urban-related research at UCT; from here, relations can be established with selected international funders and think tanks.

Looking back, the Signature Theme has managed to bring together academics from different disciplines across the University, as well as urban specialists from around the country, Africa and the world. In addition, it has allowed the University to forge relations with the public sector locally, provincially and nationally. It has also pulled together fragmented scholarship and raised the profile of urban research, allowing projects to secure large-scale funding.

These successes are best reflected in some of the achievements of 2009, which included the establishment of six virtual 'CityLabs' that rallied researchers and practitioners,

Areas of Research Focus

a project to collect practical ideas to advance urban sustainability in the Cape Town region, and a national collaboration on South Africa's space economy. Centre scholars also had a hand in two key international urban-policy development reports.

BRAIN AND BEHAVIOUR INITIATIVE

The Brain and Behaviour Initiative (BBI) was established to promote interrelated research in the cognitive and affective neurosciences across faculties and disciplines. In so doing, it set out to bring together a host of experts in fields such as genotyping, brain imaging and molecular signatures.

The flowering of new experimental techniques – including brain imaging, genetic testing and neuropsychological assessment – has opened up opportunities to advance novel diagnostics and treatments for people with mental disorders. These can be applied to the BBI's initial focus on trauma and resilience, allowing in-depth research into, for example, posttraumatic stress disorder.

The initiative made quick progress – it earned two SARCHI chairs in 2007, and a year later was instrumental in establishing two master's degrees in Neuroscience as well as a spin-off collaboration named the Cross-University Brain Behaviour Initiative or CUBBI.

“The flowering of new experimental techniques – including brain imaging, genetic testing and neuropsychological assessment – has opened up opportunities to advance novel diagnostics and treatments for people with mental disorders.”

2009 was dedicated to building capacity in imaging-data analysis (working with the Cape Universities Brain Imaging Centre, CUBIC) and the Centre for High-Performance Computing, and generating output from its ongoing research. On the latter, researchers published no fewer than 36 articles in peer-reviewed journals, and the BBI has a pending patent application. And in addition to pressing ahead on its established projects, it also ventured into two new areas – substance abuse and neuroHIV.

The BBI can boast some significant results since its founding in 2006. It was key in securing the CUBIC facility, where a range of stakeholders could use its magnetic resonance imager. It has attracted local and international funding, as well as the two SARCHI chairs. It also inspired sought-after collaborations across disciplines in the humanities, natural sciences and health sciences, which in turn led to a score of fellowships, studies and publications.

DRUG DISCOVERY

The Drug Discovery Signature Theme sprang from the world's growing burden of disease and the corresponding need for therapeutic drugs. That growing market – valued at over \$350 billion – is driving the pursuit of ever-newer methods in synthesis and drug development, and the fierce competition in the drug-development industry.

At UCT, the Drug Discovery Signature Theme aims to forge and nurture collaborations among researchers, build the technological platforms that will increase research capacity, train the next generation of drug discoverers, and set up the mechanisms that would boost funding. Three areas underpin scientists' work – the synthesis of small molecules, the structural biology of proteins and protein-ligand complexes, and the expression and purification of proteins.

Among its main achievements for 2009 is the graduation of eight doctoral and two master's students. Researchers also published 18 articles in international journals. And team member Professor Kelly Chibale, who holds a SARCHI chair, was able to raise substantial funding to support activities in the Theme. (See opposite.) In addition, the Cape Biotech Trust awarded approximately R9 million for the purchase of major equipment.

Since established, Drug Discovery has promoted numerous new collaborations and nurtured established partnerships. It has developed platforms to translate knowledge into practical applications, an area much overlooked in the decade before. Such platforms were set up in areas such as organic synthesis, structural biological analysis and biological assay expertise. Such a fusion of techniques and expertise is essential for any drug-discovery programme where a product or technology down the research and innovation chain is an overall objective.

Under the Signature Theme, an intellectual resource that spans disciplines and departments has also been created, a feat unimagined a decade earlier.

THE MARINE RESEARCH INSTITUTE

The Marine Research Institute (MA-RE) was launched in 2006 as a vehicle for theme-based, multidisciplinary research on the marine environment.

Over its lifespan, MA-RE negotiated successful collaborations with Marine and Coastal Management, the City of Cape Town and the French *Institut de Recherche et Développement* (Institute of Research Development or IRD). It has also been central in the formation of the Nansen-Tutu Centre for Marine Environmental Research, a partnership with Norwegian collaborators that will be officially launched in 2010. Through its work with the IRD, three French scientists have been based at UCT for at least two

SA DRUG CHAIN UP TO SCRATCH

The work in Professor Kelly Chibale's research group in 2009 illustrated the Signature Theme's efforts to establish a fully-fledged drug discovery research organisation in South Africa. Chibale and his team in the Department of Chemistry steadily built the necessary platforms within the drug discovery and development value chain, platforms that have to meet the standards of the pharmaceutical industry with the equivalent scientific and infrastructural support. This work was aided by the funding he secured from the Cape Biotech Trust as well the Medicines for Malaria Venture in Switzerland, the World Health Organisation and the European Union. Chibale's year was capped by his appointment as director of the newly established UCT/Medical Research Council Drug Discovery and Development Research Unit, which will also draw on the country's indigenous biodiversity for possible drug leads.

Professor Kelly Chibale (second row, left) and his research team.



years each (2009–2011), with four more expected in 2010. The Nansen agreement also looks likely to provide funding for three new postdoctoral posts.

Other achievements include MA-RE's role in the founding of the Africa Centre for Climate and Earth Stewardship Science (ACCESS); winning its second SARCHI chair, in marine ecology and fisheries; setting up a strong social-science component for marine research; establishing a new undergraduate major in oceanography and marine biology; and the resurrection of the Master's in Applied Marine Science. MA-RE has also reached over 24,000 school learners and more than 2,200 teachers and educators in its outreach project.

An external review conducted at the end of 2009 recommended that MA-RE forego its status as a Signature Theme in the course of 2011 when its activities are subsumed into a proposed new Department of Marine Science in the Faculty of Science. This is considered a positive spin-off and beneficial transition for MA-RE, which has pulled together a large number of disparate activities and scholars. It is anticipated that MA-RE will inform and drive the research agenda within the new Department, and will continue to play a key role in the recently established African Climate and Development Initiative.

MINERALS TO METALS

The Minerals to Metals Signature Theme draws together the skills of academic and research staff from four existing groups and various disciplines in an initiative that focuses on minerals processing and extraction – the Centre for

Minerals Research, the Centre for Bioprocessing Engineering Research, the Crystallisation and Precipitation Unit, and the Environmental and Process Systems Engineering Group, all based in the Department of Chemical Engineering. These four groups are involved in mineral-related research dealing with various stages along the mineral processing and extraction chain. The Theme is home to two SARCHI chairs.

The highlight of 2009 was the commissioning of the world's most sensitive positron emission particle tracking-facility at iThemba Labs in Faure, attracting international collaborators. (See story on page 31.) Other achievements include the graduation of the Theme's first three postgraduate students, and a donation of a pressure leach pilot plant worth about R3 million from graduate Grevil Dunne through his company, Hydromet. Professor Cyril O'Connor, one of the Theme members, stepped into the Anglo Platinum Endowed Chair in Minerals Processing during 2009. Through this Endowed Chair, Anglo Platinum will provide the Centre with funding to the value of R18 million.

As a positive spin-off, support for the Minerals to Metals Signature Theme provided the means and impetus for collaboration among groups that had been working in isolation for years. The Theme also prompted long-intended links with other UCT groups. As a result, new and unexpected research areas have opened up, including the application of mineralogy to rheology, the branch of physics that studies the flow and change of shape of matter. Initiatives such as the Anglo American Safety Risk Management Programme and a master's course – in the management of mining,

Areas of Research Focus

mineral and energy resources for sustainable development in Africa – sprang from the Theme. The latter, part of a United Nations Education for Sustainable Development in Africa project, also led to links with other universities in Africa and around the world, and more and unforeseen funding.

NATIONAL CENTRES OF EXCELLENCE AND COMPETENCE CENTRES

UCT hosts two of the seven national Centres of Excellence awarded by the Department of Science and Technology (DST) through the National Research Foundation. The aim is for these Centres to act as hubs of research and development in fields identified as strategically important to South Africa. Both Centres at UCT underwent their first five-yearly external (international) reviews in 2009. UCT is also home to a DST Competence Centre. While centres of excellence focus on basic science and research, centres of competence concentrate on applied science, technology development and technology transfer. (See opposite.)

THE CENTRE OF EXCELLENCE AT THE PERCY FITZPATRICK INSTITUTE – BIRDS AS KEYS TO BIODIVERSITY CONSERVATION

The Centre for Excellence in the Percy FitzPatrick Institute (Fitztitude) focuses its scientific labours on the study of birds, in particular their role in the maintenance of biodiversity and the sustainable use of biological resources.

In 2009, researchers published 61 peer-reviewed papers, including 14 in journals with a Science Citation Index-impact factor of 3.5 or higher. Staff also contributed to eight semi-technical books and 54 semi-popular articles.

The centre continues to build research capacity, supervising the work of 14 postdoctoral fellows, 15 PhDs, 28 master's students and two honours students in 2009. Particularly promising was that 40 per cent of these candidates were black, and half were women.

A highlight in the Fitztitude's calendar was the scheduled external review. The review panel was unanimous that the Centre is performing well above expectations – praising its scholarship, outreach, postgraduate recruitment and support – and recommended not just that its funding be renewed, but also that it be increased.

The Fitztitude has, as suggested by the panel, increased its focus on terrestrial ornithology and conservation. It also shifted its DST/NRF funding towards conservation research, and raised further funding (which now accounts for 72 per cent of the centre's overall budget).

The payoff was almost immediate. Over the year, the Fitztitude's research showed a clear bias towards conservation

research, with six of its 61 peer-reviewed papers focusing on characterising biodiversity, 21 on evolutionary ecology and 34 on maintaining biodiversity.

THE CENTRE OF EXCELLENCE IN CATALYSIS – C*CHANGE

The DST/NRF Centre of Excellence in Catalysis, c*change, is hosted by the Centre for Catalysis Research in the Department of Chemical Engineering. Its academics and researchers concentrate on four specific research areas – synthesis gas conversion, paraffin activation, value addition to unique olefinic feedstocks, and the underdeveloped small-volume chemicals sector.

The review panel paid tribute to and endorsed its support for the Centre's activities, and highlighted key issues for its future direction and sustainability. The Centre was described as a lively, well-managed network of expertise that has brought together academic groups from diverse disciplines and interests. The panel recommended that c*change continue its activities while striving for international excellence in selected programmes.

The Centre is already looking into funding opportunities beyond the 10-year DST and NRF funding. In addition, it has applied for a SARCHI chair in catalysis (nano-materials), a position that would bolster its already impressive capacity.

In 2009, the Centre comprised a team of 57 postgraduate students (more than half of whom are female and black), six postdoctoral researchers, and some 24 academics from 14 research groups based in nine higher-education institutions across the country. A total of 21 projects were funded over the year.

The Centre's output included 15 publications, six published conference proceedings and 32 unpublished conference contributions in 2009. Researchers also submitted two international patent applications.

c*change has also looked into setting up several networks and collaborations with institutions in the UK and Germany, and has contributed to the new Further Education and Training school syllabus and an associated workshop for teachers.

URC-ACCREDITED RESEARCH GROUPINGS

By the end of 2009, UCT had 62 research groupings that had been accredited by the University Research Committee (URC) (see pages 31 to 45). Although these groupings are mostly self-sustained through external funding, they are promoted as UCT groupings and benefit from the UCT brand. They are subject to ongoing scrutiny by their deans and the URC, and must undergo five-yearly peer-reviews as set out by the URC, and in line with the quality assurance recommendations of the Higher Education Quality Committee. While the URC's first cycle of reviews (2003 to 2008) set out to encourage good

NEW DST CENTRE FUNDS CUTTING-EDGE RESEARCH IN FUEL-CELL TECHNOLOGIES

The DST Hydrogen Catalysis Competence Centre, HySA/catalysis, at UCT is one of three competence centres that sprang from the Department of Science and Technology's National Hydrogen and Fuel Cell Technologies Flagship Project, better known as Hydrogen South Africa or HySA. HySA's aim was to create knowledge and human-resource capacity that would develop high-value commercial activities in hydrogen and fuel-cell technologies using local resources and existing know-how. HySA/catalysis – co-managed with Mintek – received its first project funding in 2009, and kicked off work at UCT, Mintek and affiliated institutions. The work of five master's students, one PhD student and a postdoctoral fellow was funded for the year. Work included the installation of essential equipment – for example, four fuel-cell test stations – and the building of test units for fuel processing. The Centre has also set up collaborations with Imperial College and Johnson-Matthey (UK), as well as with the National Chemical Laboratory in India. Further national and international collaborations are being explored.



management practices and shape objectives, the second cycle, started in 2009, invited the first cycle's top performers to international peer-reviews. These set out to grade the quality and impact of the groupings' research, using their international footprint, local engagement and benefit to society as yardsticks.

The five groups which went through the process of international peer-review in 2009 were the Centre for Rhetoric Studies, the Centre for Research in Computational and Applied Mechanics, the Southern Africa Labour and Development Research Unit, the Development and Policy Research Unit, and the Marine Research Institute. Here we outline the outcomes of each review.

THE CENTRE FOR RHETORIC STUDIES

The Centre for Rhetoric Studies (CRS) was founded in 1995 in the wake of the advent of democracy in South Africa and a large international conference on *Persuasion and Power* in 1994. The Centre – the only one of its kind in Africa – concerns itself with multidisciplinary research in public rhetoric, deliberative democracy and argumentative culture.

Reviewers were impressed by the CRS's coherent and rigorous focus on transitional democracies, its research record, and its high-level research links with collaborators and institutions in Norway, Poland and Romania. The reviewers also commended the work of its director, Distinguished Professor Philippe-Joseph Salazar, the driving force behind the Centre's activities.

The CRS continues to make major social, political and intellectual contributions at an international level. By building on the South African experience and then innovatively refining its central research focus, it has successfully connected rhetorical performance (be it verbal, visual, physical, oral, written, singular or collaborative) with the development of transitional democracies in Morocco, Poland, Romania, Hungary, France, China and even the United States.

The internationally scaled focus on rhetoric (the study of deliberation in the public sphere) and transitional democracy not only distinguishes the Centre itself, but also adds lustre to UCT's international standing. (Also see page 43)

THE CENTRE FOR RESEARCH IN COMPUTATIONAL AND APPLIED MECHANICS (CERECAM)

CERECAM provides a focus and meeting point at UCT for research and postgraduate study in problems of solid, structural and fluid mechanics, with an emphasis on nonlinear problems and computation. It promotes and supports fundamental and applied research as well as industrial collaboration. The 13 members of CERECAM are based in four engineering departments, mathematics and applied mathematics, and physics.

The review recognised the significant impact on the work of the Centre through the establishment, during the period under review, of the SARCHI Chair in Computational Mechanics, held by the director Professor Daya Reddy.

The review commented on the impressive progress made during the period of review, the high degree of interdisciplinary

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interaction, and the considerable impact nationally and internationally. Special mention was made of the excellent working environment and the evident sense of cohesion among researchers and students.

Suggested steps aimed at further strengthening the activities of CERECAM included an exploration of joint funding with international partners, and the targeted recruitment of members in order to tap further into research opportunities in areas of national priority. (Also see page 43.)

THE SOUTHERN AFRICA LABOUR AND DEVELOPMENT RESEARCH UNIT (SALDRU)

SALDRU conducts research that aims to improve the well-being of South Africa's poor. Established in 1975, it co-ordinated the Second Carnegie Enquiry into Poverty and Development in South Africa, as well as the country's first non-racial, national living standards sample survey. It continues to lead research that contributes to anti-poverty policy.

The review took note of the number of major survey-driven projects SALDRU has taken part in over the past five years. The largest of these is the National Income Dynamics Study. This is South Africa's first national panel study and will provide a unique lens on unpacking the socio-economic dynamics of post-apartheid South Africa.

The view of the review panel was that SALDRU has effective leadership and is well managed. The award of a SARCHI Chair in Poverty and Inequality Research to its Director, Professor Murray Leibbrandt, was seen as a boon to the Unit's research that, driven and shaped by the long- and short-term surveys it undertakes, was described as having a fairly sharp focus.

It was the assessment of the review panel that SALDRU's researchers and research association in the School of Economics carry out much work that is, by all measures, relevant to South African policy on poverty and well-being issues. (Also see page 45.)

THE DEVELOPMENT AND POLICY RESEARCH UNIT (DPRU)

The DPRU specialises in socio-economic research with a focus on labour markets, poverty and inequality. Its mission is to undertake high-quality, policy-relevant research, maintain

and develop networks with government, civil society and the research community in Southern Africa, engage in training and teaching activities, and participate in the formulation, implementation and evaluation of policy.

The review panel commended the Unit for the strong focus of its research on, thematically, labour markets in South Africa and, methodologically, on micro-level data sets. Its work on poverty and inequality is seen to add to the coherence of its research agenda.

The reviewers also encouraged the Unit's initiatives to broaden their research into other Southern African countries and into themes such as education and public economics. They also singled out the Director, Professor Haroon Borat, for his outstanding research record – he has at least 14 articles that have each been cited 14 times or more, a very strong output for an author based in a developing country and one of the strongest results for an economist based in South Africa. (Also see page 37.)

THE MARINE RESEARCH INSTITUTE

The Marine Research Institute (MA-RE), was the first of the University's five Signature Themes to be reviewed in 2009.

MA-RE serves as an umbrella body to stimulate and co-ordinate marine research across all faculties and departments. It acts as the University's go-between for marine research and marine contracts with outside institutions and organisations. It promoted marine research through its leading roles in the South African Global Change Grand Challenge and the trilateral agreement between South Africa, Brazil and India, and takes part in large outreach programmes with schools.

The review panel congratulated MA-RE on its two SARCHI chairs – one in physical oceanography, the other in marine ecology and fisheries – and its two master's courses. The panel also praised the Institute's other activities, including its weekly seminar series and its national and international meetings and workshops, which have strengthened links within UCT and with other collaborators and partners. MA-RE was further praised for the new research contracts – mostly supported by external sources, in particular the European Union – that would not have been possible had it not been for the Institute. (Also see page 41.)

NEW LAB KEEPS AN EYE ON PARTICLES

The world's second positron emission particle tracking facility, PEPT Cape Town, opened in August 2009. The new laboratory is situated at the iThemba Labs in Faure, near Cape Town, and was set up by Dr Indresan Govender (left in photo) and Associate Professor Andy Buffler (right) of the Department of Physics. PEPT is a technique that allows scientists to track a single tracer particle and characterise and visualise that particle's movement in a range of locations, be it an industrial tumbling mill, a flotation cell or a powder mixer. The facility was prompted in large part by the donation of a positron-emission tomography camera from Imperial College London. Seed funding for PEPT Cape Town was provided for by the NRF, UCT, and the Centre for Sustainable Resource Processing in Australia. In addition, Anglo Platinum and Xstrata are funding UCT-led PEPT research at the Positron Imaging Centre at the University of Birmingham. The new technology brings together researchers and students from both physics and chemical engineering, allowing them to develop a suite of new skills.



LIST OF ACCREDITED 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.

Director: Professor R.E. Dorrington

E-mail: Rob.Dorrington@uct.ac.za

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

ADOLESCENT HEALTH RESEARCH UNIT

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 Unit builds on existing research and collaborations to co-ordinate, promote and facilitate research into all aspects of adolescent health. The specific aims of the Unit 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 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.

Director: Associate Professor A. Berg

E-mail: zimi@iafrica.com

Web: <http://www.health.uct.ac.za/research/groupings/adolescent/>

AFRICAN CENTRE FOR CITIES

Achieving well-governed and sustainable cities is becoming increasingly important to the future health of the planet. The African Centre for Cities aims to partner closely with African universities and policy-making centres in order to provide an alternative perspective on dealing with critical urban issues. It provides an intellectual base and home for interdisciplinary, urban-related research at UCT, from which relations can be established with selected international think tanks, scholars, social movements and funders.

Director: Professor E. Pieterse

E-mail: Edgar.Pieterse@uct.ac.za

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

AFRICAN CINEMA UNIT

The African Cinema Unit was established during 2008. It is an initiative within the Centre for Film and Media Studies, which is committed to promoting the study of African Cinemas, taking account of the richness and diversity of the film cultures that have emerged from the countries that make up this vast and complex continent. During 2009, Professor José Gatti from the Department of Arts and Communication of the Universidade Federal de Sao Carlos (Brazil) spent his sabbatical at the ACU

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to research contemporary South African cinema. The Unit is led by Associate Professor Martin Botha, who is currently researching the 113-year history of South African cinema.

Director: Associate Professor M. Botha

E-mail: Martin.Botha@uct.ac.za

Web: <http://www.cfms.uct.ac.za/african-film-seminar>

ALBERTINA AND WALTER SISULU 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, Geriatric Neuropsychology, Geriatric Neurosciences and Geriatric Psychiatry, and a Gerontology programme. The Institute strives to be an academic and research centre of excellence which addresses critical issues of ageing in Africa, and serves as a catalyst for local, national and regional expertise and a focal point for the development of research services and training. Its mission is achieved through interdisciplinary and cross-national partnerships and research collaboration, human-resource development, and policy information in the national context and in the African continent. Areas in which research projects are currently conducted at the Institute include physical, cognitive and social functioning, and quality of life; vascular risk factors and stroke; falls in older persons and quality of care; and dementia and risk factors for cognitive disorders.

Director: Dr S. Kalula

E-mail: Sebastiana.Kalula@uct.ac.za

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

ANIMAL DEMOGRAPHY UNIT

The mission of the Animal 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 L.G. Underhill

E-mail: Les.Underhill@uct.ac.za

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

ASTROPHYSICS, COSMOLOGY AND GRAVITATION CENTRE

The Astrophysics, Cosmology and Gravitation Centre (ACGC) is a research centre incorporating members of the UCT Department of Astronomy and the Cosmology and Gravity Group from the UCT Department of Mathematics and Applied Mathematics. The ACGC aims to create a research environment at UCT in which South African-led cutting-edge science projects will be discussed, developed and taken to fruition. Maximising the opportunities for interaction between theorists

and multi-wavelength observers is essential for stimulating new approaches to research. The Centre also aims to become an attractive location for postgraduate students and postdoctoral fellows, as well as international visitors.

Directors: Professor R.C. Kraan-Korteweg and Professor P. Dunsby

E-mail: kraan@ast.uct.ac.za and Peter.Dunsby@uct.ac.za

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



An image of Messier 81, a nearby spiral galaxy at a distance of 12 million light years. This false-colour image was produced as part of the large international THINGS survey of which SARCHI Chairholder & ACGC member Professor Erwin de Blok is co-Principal Investigator. Several postgraduate students from the ACGC are also actively participating in this survey.

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

REACHING FOR THE STARS



Members of the new Research Centre in Astrophysics and Cosmology at a recent research retreat at Mont Fleur Estate, Stellenbosch.

With the exciting opportunities offered by the world-class facilities SALT, MeerKAT and, we hope, the SKA or Square Kilometre Array – the 1.5 billion euro international project which South Africa hopes to host – UCT is at the beginning of a golden age for South African astronomy and cosmology research. If we are to maximize the benefits of the visionary investments of the South African government, we need to think strategically at UCT, and optimize the use of our research and educational resources to make the most of these expectations.

For this reason an exciting new URC-accredited Research Centre in Astrophysics and Cosmology was set up in 2009. The core of this Centre consists of the members from the Department of Astronomy and the Cosmology and Gravity Group of the Department of Mathematics and Applied Mathematics. It consists of over 30 members (staff and postdoctoral research associates) as well as many postgraduate research

students. The Centre provides a natural home for the students and staff of the National Astrophysics and Space Science Programme. Once dedicated physical space has been allocated to the Centre, this will also provide working space for affiliated members from other departments and faculties (for example, Physics and Engineering at UCT), from the South African Astronomical Observatory, the Pinelands KAT Project Office, the University of the Western Cape and the National Institute for Theoretical Physics.

The primary goal for the Centre is to be the major research hub in South(ern) Africa, recognised worldwide for its research in astrophysics and cosmology, for its South African-led projects involving the new facilities SALT and MeerKAT, as well as for being a resource for postgraduate students (South Africans, Africans and from elsewhere), postdoctoral fellows and visiting international scholars alike.

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

CENTRE FOR BIOPROCESS ENGINEERING RESEARCH

The Department of Chemical Engineering has been known for its interest in bioprocess engineering for over 3 decades. Following the formalising of this through the establishment of a UCT research unit in 2001, the activity was upgraded to the Centre for Bioprocess Engineering Research (CeBER) in 2008 in recognition of the range of researchers active in this area, the contribution to research across several inter-linked foci, and its role in the development of human capacity in this field. CeBER aims to underpin the growth and exploitation of the biological sciences in South Africa through a national centre of expertise in bioprocess engineering in which the 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 is maintained. This is underpinned by CeBER's hosting the DST/NRF SARCHI Chair in Bioprocess Engineering. The multidisciplinary team brings together expertise in reactor studies, process modelling, biokinetics, microbial ecology, microbial metabolism, biotransformation, micro- and molecular biology and biohydrometallurgy to develop detailed understanding of bioprocess systems. CeBER's 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 metabolic modelling, reactor modelling, mass transfer optimisation, product liberation and recovery, bioprocess integration, and the role of the bioprocess in sustainable processes.



Director: Professor S.T.L. Harrison

E-mail: Sue.Harrison@uct.ac.za

Web: http://www.chemeng.uct.ac.za/research/research_bio.php

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.

Director: Professor P. Zilla

E-mail: Peter.Zilla@uct.ac.za

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

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

E-mail: Peter.Zilla@uct.ac.za

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

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 established DST Competence Centre in Hydrogen and Fuel Cell Catalysis.

RESEARCH IN FOCUS: AFRICAN CENTRE FOR CITIES

In this scene, children are playing soccer on a makeshift pitch amidst temporary housing and toilets in Delft, Cape Town. This reflects the reality that the city cannot cope with the influx of poor migrants in a context where the city already confronts a massive housing shortage. The CityLabs of the African Centre for Cities (page 25) provides a research-driven forum where policy managers and scholars can jointly reflect on these complex challenges to find effective solutions.



Director: Professor J.C.Q. Fletcher

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Web: <http://www.chemeng.uct.ac.za/groups/cat/>



RESEARCH INSTITUTE ON CHRISTIANITY AND SOCIETY IN AFRICA

The Research Institute on Christianity and Society in Africa (RICS) engages in high-quality research on religion in public life in the context of challenges of globalisation, public theology, and public health in Africa. Its primary current activity is through the African Religious Health Assets Programme (ARHAP), a multi-institutional, multi-site,

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, with an anticipated expansion in India. Focusing on the interface between religion and public health in Africa, ARHAP has engaged in the mapping and assessment of religious health assets, policy development and practice, and capacity building (especially master's and doctoral research). It has helped to build a global network of scholars and practitioner. New work is being undertaken on male interpersonal violence in three cities in South Africa and the USA in conjunction with the Medical Research Council-linked, UNISA-based Crime, Violence and Injury Lead Programme. RICS has also completed a multi-year 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 were published by Unisa Press in 2009.

Director: Professor J.R. Cochrane

E-mail: Jim.Cochrane@uct.ac.za

Web: <http://web.uct.ac.za/depts/ricsa/>

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 participated in international research

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projects in religious education and cultural heritage. ICRSA houses the peer-reviewed, accredited *Journal for the Study of Religion*.

Director: Professor D.S. Chidester

E-mail: David.Chidester@uct.ac.za

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

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 A. Tayob

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

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

CENTRE OF CRIMINOLOGY

The Centre of Criminology (previously the Institute of Criminology), founded in 1977, 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.criminology.uct.ac.za>

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 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. Another interest of the research unit is the modelling and treatment of hypersaline brines. The Unit is also involved in the development and presentation of various continuing professional education courses, which satisfy the interest in and demand for skills in this area from both an industrial and an academic standpoint.

Director: Professor A.E. Lewis

E-mail: Alison.Lewis@uct.ac.za

Web: http://www.chemeng.uct.ac.za/research/research_pre.php

DESMOND TUTU HIV CENTRE

The activities of the Desmond Tutu HIV Centre (DTHC) are underpinned by research and evaluation. It aims to impact on policy and practice both nationally and internationally through relevant research, peer-reviewed publications, and feedback to government, civil society, and the community at large. DTHC is driven by a passion for humanity and a vision of South Africa without AIDS. Over the years, it has become a source of advice for medical practitioners, support for people seeking testing or treatment, and leadership in preventative education. With an experienced and dedicated team of over 165 doctors, nurses, researchers, and community-trained field workers, the Desmond Tutu HIV Centre offers a holistic approach to the HIV epidemic.

Director: Dr R. Wood

E-mail: Robin.Wood@hiv-research.org.za

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 plays a leading role in development and labour law teaching and research. It is involved with 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

E-mail: Evance.Kalula@uct.ac.za

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



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, the DPRU aims 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.

Director: Professor H. Borat

E-mail: Haroon.Bhorat@uct.ac.za

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

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>

ENERGY RESEARCH CENTRE

The Energy Research Centre (ERC) has its roots in the 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 doctoral levels.

Director: Professor K.F. Bennett

E-mail: Kevin.Bennett@uct.ac.za

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

ENVIRONMENTAL EVALUATION UNIT

The Environmental Evaluation Unit (EEU) is an independent, self-funded research, consulting and training unit based at UCT. 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. Sowman

E-mail: Merle.Sowman@uct.ac.za

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

ENVIRONMENTAL POLICY RESEARCH UNIT

The Environmental Policy Research Unit (EPRU) was established in 2007 and forms part of the Environment for Development initiative (EfD). EPRU strives to produce and disseminate policy-relevant research of a high academic quality on current environmental economic issues in South Africa. The main objective of the unit is to function as a

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resource where high-quality information and economic opinion on environmental issues can be sought. It aims to enhance environmental policy-making in South Africa through rigorous research and extension in order to attain sustainable development and poverty reduction. The EfD initiative operates in China, Central America, Ethiopia, Kenya, South Africa and Tanzania, focusing on environmental economics research, policy advice and teaching. Funding support is provided by the Swedish International Development Co-operation Agency.

Director: Dr M. Visser

E-mail: Martine.Visser@uct.ac.za

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

UCT/MRC RESEARCH UNIT FOR EXERCISE SCIENCE AND SPORTS MEDICINE

The UCT/MRC Research Unit for Exercise Science and Sports Medicine exists to research factors influencing physical performance and health, and to disseminate knowledge and skills through education. The research aim is to develop a novel understanding of integrated human function during exercise and to use this knowledge to promote health and well-being; to treat and prevent specific chronic diseases; to treat and prevent injuries and medical conditions associated with sport and exercise; and to optimise exercise performance.

Director: Professor Timothy D. Noakes

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

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

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 cross disciplines in support of its efforts to address the alarmingly high levels of violence against women in this country.

Director: Dr L. Artz

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

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 of discovering the critical biological pathways that can be targeted by drugs to prevent sudden cardiac death.

Director: Professor K. Sliwa-Hahnle

E-mail: Karen.Sliwa-Hahnle@uct.ac.za

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.

Director: Dr S. Cleary

E-mail: Susan.Cleary@uct.ac.za

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

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. A greater effort is being put into engaging with high throughput technologies and for the mapping of genes for common chronic disorders.

Director: Professor R. Ramesar

E-mail: Raj.Ramesar@uct.ac.za

Web: <http://www.health.uct.ac.za/research/groupings/hgru/>

MRC/UCT IMMUNOLOGY OF INFECTIOUS DISEASES 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 Diseases Research Unit focuses on the 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 infections (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.

Director: Professor F. Brombacher

E-mail: fbrombac@mweb.co.za

Web: <http://www.health.uct.ac.za/research/groupings/iidu/>

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.

Director: Professor G. Hussey

E-mail: Gregory.Hussey@uct.ac.za

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

INFORMATION AND COMMUNICATIONS TECHNOLOGY CENTRE FOR DEVELOPMENT (ICT4D)

ICT4D was established in 2008 to capitalise on UCT's unique position in the ICT domain, namely, producing world-class ICT research but being based in a developing economy. Incorporating researchers from across the University, the Centre looks to create ICT solutions that can be applied in a developing-world context. Being the only such centre in a developing country, we have been able to attract researchers and students from across the globe. The Hasso Plattner Institute Research School in ICT4D, which provides bursaries for African students working in this field, was launched in 2009 and will be based within the wider structure of the centre.

Director: Professor G. Marsden

E-mail: Gary.Marsden@uct.ac.za

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Research by the Centre for Infectious Disease Epidemiology and Research: Monitoring child growth in a rural community.

CENTRE FOR INFECTIOUS DISEASE EPIDEMIOLOGY AND RESEARCH

The Centre for Infectious Disease Epidemiology and Research (CIDER) aims to be an African Centre of Excellence in infectious disease epidemiology and related research. The Centre has a strong base that spans a number of disciplines and conducts public health research integrating laboratory, clinical, epidemiological, social science and health systems research into infectious diseases that have high priority in Southern Africa (in particular HIV and tuberculosis) in order to improve the prevention and management of these diseases. The Centre maintains very strong links with health services at all levels in order to identify research priorities, and assists policy makers, programme and services managers with the implementation of the results of research. The Centre aims to be a centre of excellence in the surveillance and monitoring of infectious diseases and infectious disease programmes and services, and in the conduct of robust observational research based on routine data sources. CIDER provides extensive postgraduate level teaching and supervision in epidemiology.

Director: Dr D. Coetzee

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

Areas of Research Focus

CENTRE FOR INFORMATION TECHNOLOGY AND NATIONAL DEVELOPMENT IN AFRICA (CITANDA)

CITANDA is located within the Department of Information Systems. It aims to bring together researchers, projects, funders, and programmes focused on the use of Information and Communication Technology (ICT) in the service of national development. CITANDA's current research focus areas include information systems and practices in development contexts, ICT for development projects and evaluation of such projects, ICT for development field studies in Southern Africa, and e-commerce for development studies and evaluation.

Director: Professor I. Brown

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INTELLECTUAL PROPERTY AND POLICY RESEARCH UNIT

The Intellectual Property (IP) and Policy Research Unit assists in developing IP Law and Policy in Southern Africa and aims to contribute to the manner in which this topic is treated in the emerging and developing countries throughout the world. The Unit is in a position to become an influential leader within Southern Africa for research and scholarship in intellectual property law and policy. It seeks to explore many issues facing the changing world of IP and relate these to the needs of society, IP holders and consumers. The Unit is leading research projects in areas such as IP Rights and Innovation, Development, Copyright and Creative Commons, Nanotechnology and New Technologies.

Director: Professor J. Kinderlerer

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Web: <http://www.privatelaw.uct.ac.za/research/units/>

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.kaplancentre.uct.ac.za/>

UCT LEUKAEMIA UNIT

The UCT Leukaemia Unit 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 Groote Schuur Hospital. Parallel studies focusing on haematopoietic stem cell biology and immune reconstitution after transplantation are ongoing.

Director: Professor N. Novitzky

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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 the Centre's curatorial practice is the issue of representation, and many of its 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 and is now part of the Centre for Curating the Archive, which includes major photographic collections and a visual history archive, and projects that curate them.

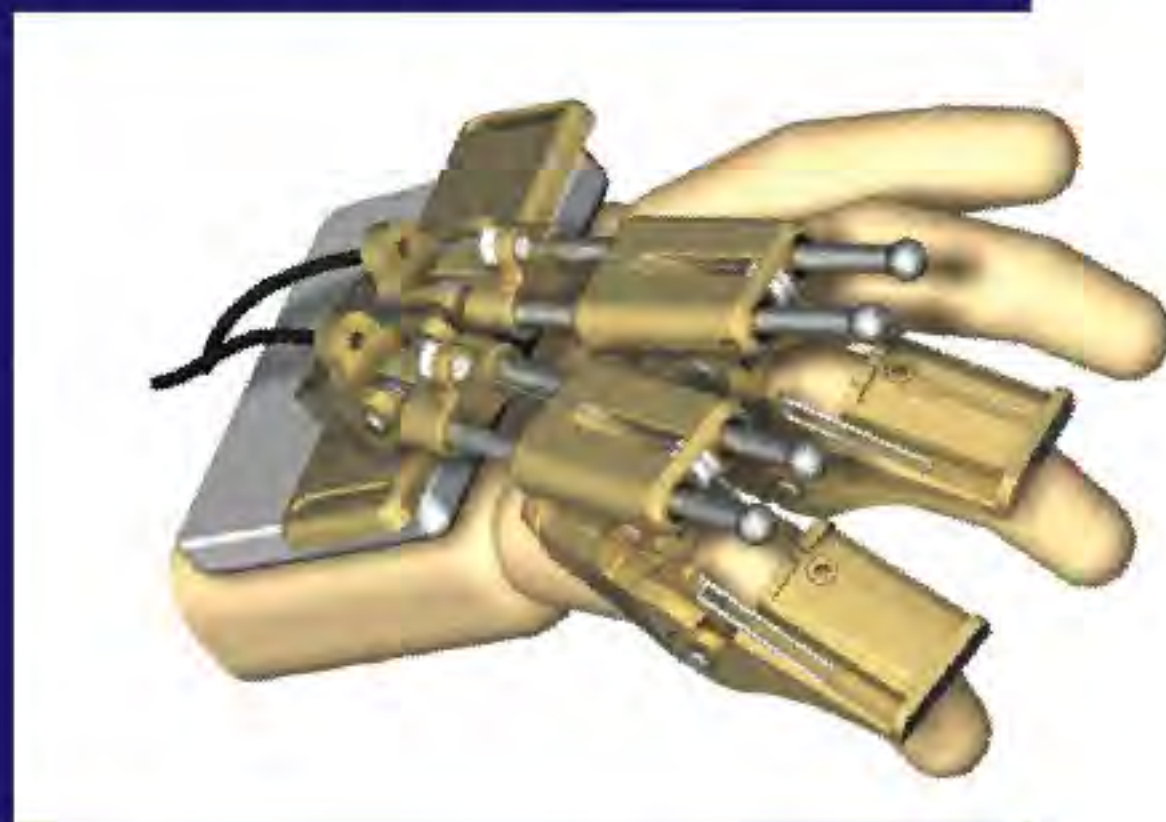
Director: Professor P. Skotnes

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RESEARCH IN FOCUS: MRC/UCT MEDICAL IMAGING RESEARCH UNIT

Electromyography (EMG) and bio-mechatronics project (led by Dr Lester John, of the MRC/UCT Medical Imaging Research Unit (page 42)): An electromyogram-controlled hand-finger orthosis is in the final stages of development. It will be used to assist in the rehabilitation of stroke patients experiencing hand-finger muscle flaccidity. A novel method to acquire deep muscle EMG using surface electrodes has also been developed and provisionally patented. This method and device will allow the recording of EMG from muscles that were previously only accessible using invasive needle or fine-wire electrodes. Furthermore, it will allow previously inaccessible deep muscles to be used to control biomechatronic orthoses and prostheses.



MARINE RESEARCH INSTITUTE

The Marine Research (MA-RE) Institute, one of UCT's Signature Themes, serves as an umbrella body to stimulate and co-ordinate marine research across all faculties and departments involved in research into the salty waters around Southern Africa. It also serves as a window between the outside world and UCT for marine research and marine contracts. It hosts the Marine Remote Sensing Unit and the Research Dive Unit. The MA-RE Institute has two SARCHI chairs associated with it, and has been instrumental in getting the Africa Centre for Earth System Science (ACCESS) off the ground. It co-ordinates a Master's degree in Applied Marine Studies (by course work and dissertation), runs a weekly seminar series, and has initiated bilateral research and teaching exchange agreements with Norwegian, French, British and other European Union institutions, as well as American ones. It has also played an important role in promoting marine research in the South African Global Change Grand Challenge and in the marine component of the India-Brazil-South Africa (IBSA-Ocean) trilateral agreement on science and technology. MA-RE is active in outreach to the public through interactive sessions at schools, the Two Oceans Aquarium and Science Centres. MA-RE also participates in the national Science Festival (Scifest), and in developing curriculum-relevant educational resources concerning the role of the oceans in climate change.

Director: Professor J.G. Field

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Dr Sebastian Swart, seen here deploying a surface drifting buoy during the second GoodHope cruise in the South Atlantic. Dr Swart is a postdoctoral research student working with Professor George Philander of the MA-RE Institute, and is funded by the Council for Scientific and Industrial Research.

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

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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: Professor R.D. Knutsen

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

MRC/UCT MEDICAL IMAGING RESEARCH UNIT

The mission of the MRC/UCT Medical Imaging Research Unit (MIRU) is to conduct world-class research in medical imaging that specifically concentrates on the healthcare needs of Africa. Research in the Unit focuses on the role of medical imaging in addressing healthcare problems such as brain disorders, trauma, HIV/AIDS, cancer, tuberculosis, neuromuscular disorders, cardiovascular disease, and the effects of alcohol abuse. The Unit has a multidisciplinary approach, attracting talented engineers, physicists, sports scientists, computer scientists and clinicians, and offering postgraduate degrees in biomedical engineering.

Director: Associate Professor T. Douglas

E-mail: Tania.Douglas@uct.ac.za

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

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 comminution, classification and froth flotation, arguably the most important unit operations in mineral beneficiation. The primary objective of the Centre is to investigate the above research areas at both an industrial (applied) level and at a laboratory (fundamental) level so as to develop predictive models for describing the performance of industrial units and circuits. In addition the Centre sees as a priority the provision of high-level human resources to the South African mining and mineral processing industry through the production of high quality postgraduates for the industry. The Centre enjoys excellent international collaborations with all 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 OCCUPATIONAL AND ENVIRONMENTAL HEALTH RESEARCH (COEHR)

The COEHR aims to be a principal centre of occupational and environmental health research, teaching and training, occupational medical clinical services, policy advice, technical consultancy services and advocacy, and a source of supportive outreach activities in South Africa, parts of Africa, and internationally. It conducts multidisciplinary research, teaching and service provision integrating laboratory, clinical, epidemiological and policy skills in relation to

occupational health problems that have high priority in Southern Africa in order to facilitate identification and improved characterisation of these and other problems and to better understand the determinants of these problems and their solutions. It explores and develops means of maintaining the health of individuals and the environment, especially the work environment, and of preventing the development of health problems in those exposed to injurious environments at work or more generally. Public policy research is conducted into issues ranging from toxic or injurious exposures through to health surveillance, and the functioning of relevant health services. Inter-institutional research, teaching and service (including outreach) collaboration and capacity development are priorities of the Centre, along with fostering local and global networks for occupational and environmental health promotion through collaboration with the United Nations and other agencies, notably the World Health Organisation (WHO). The Centre is currently a WHO Collaborating Centre for Occupational Health.

Director: Professor J. Myers

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

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

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

PERCY FITZPATRICK INSTITUTE OF AFRICAN ORNITHOLOGY

The Percy FitzPatrick Institute of African Ornithology (affectionately known as the Fitztute) is housed within the Department of Zoology. The Fitztute has an international reputation for high-quality 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 one of the seven National Centres of Excellence in Science and Technology in South Africa. Fitztute members are committed to developing a greater understanding of the form, functioning and conservation of Africa's rich biodiversity, through the training of postgraduate students and the pursuit of primary research, from evolutionary ecology to conservation biology.

Director: Professor P. Hockey

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A Grey Petrel carrying a leg-mounted geolocator about to be released at Marion Island in the sub-Antarctic. This device uses information about date and day length to determine the position of the bird – the device can store up to three years' worth of data. [Photo: Ben Dilley]

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

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

CENTRE FOR POPULAR MEMORY

The Centre for Popular Memory (CPM) is located in the Historical Studies Department and is a priority project of the Humanities Faculty. Activities include research projects on memory, narrative, identity and trauma; training in multilingual oral and visual history research methods; archiving sound, audiovisual and photographic collections both online and off; and disseminating peoples' stories to scholarly and public audiences through multimedia, including books, films and exhibitions. The CPM's lead project, 'Bridging the Digital Divide', teaches grade 9 and 10 learners in Western Cape schools to conduct oral history interviews and create web pages. Its 'Performing Stories' project trains township youths in oral history skills and produces community theatre performances. The Centre's academic research priorities include life histories of displaced peoples under apartheid, African refugees, and cross-generational trauma and memory-work.

Director: Dr S. Field

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

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 receptors and on the kisspeptin receptor, which are central regulators of the reproductive function, on the prostaglandin receptors and their role in cervical cancer and on the CCR5 chemokine receptor and its role in Human Immunodeficiency Virus (HIV) entry and infection.

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

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

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 DST/NRF SARCHI Chair in Computational Mechanics, occupied by Professor B.D. Reddy, is located within CERECAM.

Director: Professor B.D. Reddy

E-mail: Daya.Reddy@uct.ac.za

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

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.

Director: Associate Professor B.I. Collier-Reed

E-mail: brandon.collier-reed@uct.ac.za

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

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

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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) – currently, Bi School of Management, Oslo (Norway), the Faculty of Law and Philosophy at the University of Cluj-Napoca (Romania), and the Institute for Interdisciplinary Studies at the University of Warsaw (Poland).

Director: Distinguished Professor Ph.-J. Salazar

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

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

SASOL ADVANCED FUELS LABORATORY

The Sasol Advanced Fuels Laboratory (SAFL) was set up in 2002 to actualise Sasol's future-oriented fuels research relating to combustion and emissions from automotive and aviation engines. A parallel goal was the development of human-resource capacity to meet Sasol's and South Africa's future technology needs. SAFL activities for the past year are reflected in five MSc graduations and seven conference/journal publications. In addition, the appointment of a senior chemistry research leader has expanded the discipline base at the SAFL from being predominantly mechanical engineering to include a chemistry/chemical engineering capability as well. Capital investment at the SAFL has been substantially augmented with the recent acquisition of a sophisticated single-cylinder test engine that is representative of next-generation automotive technology. A high-pressure shock tube with a novel initiating sleeve-valve system has also been designed and built to enable fundamental auto-ignition studies to be conducted in the sub-millisecond regime. This will provide essential data in support of the current synthetic fuels research activity.

Directors: Professor R.B. Tait and Adjunct Professor A. Yates

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



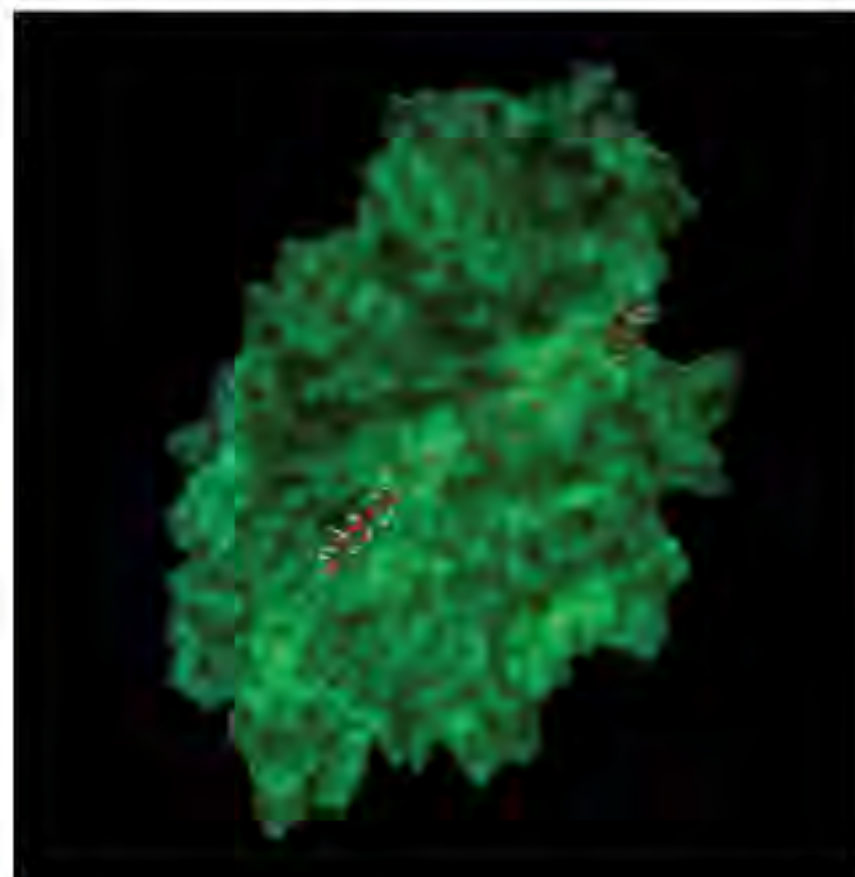
SCIENTIFIC COMPUTING RESEARCH UNIT

The Scientific Computing Research Unit (SCRU) was established in 2009 and has as its core mission the development and application of computer code for scientific problems specifically in chemistry, biophysics, physics and engineering. The Unit has made major technical advances in biophysical computational modelling with the development of a generalised Free Energy code called FEARCF. In 2009 the Unit was awarded a long-term development grant from the Nvidia Corporation to advance the SCRU program to port quantum code to Graphical Processing Unit (GPU)-based computer clusters. The research group has strong links with international groups particularly via its Scientific Computing International Lecture Series (SCILS) programme.

Director: Professor K.J. Naidoo

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



Part of the breakdown of cellulose by cellulases (enzymes) for processing into ethanol using yeast fermentation.

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, evidence-based, policy-relevant, replicable social science research in South Africa 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. 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 globalisation,

industrialisation, 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. The AIDS and Society Research Unit conducts research on the social impact of HIV/AIDS, including issues of parenting, disclosure, sexual behaviour and public welfare. Finally, the Policy Research on International Services and Manufacturing unit conducts research on globalisation, industrialisation, innovation and the dynamics of global value chains on developing country industrial sectors.

Director: Professor M. Morris
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Web: <http://www.cssr.uct.ac.za/>

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). From 1992 to 1994 SALDRU co-ordinated South Africa's first non-racial national living standards sample survey and, in the post-apartheid period, it has continued to gather data and conduct research directed at informing and assessing anti-poverty policy. SALDRU's largest contemporary project is the running of South Africa's first national longitudinal survey of well-being, the National Income Dynamics Study, on behalf of the Presidency. Every year SALDRU offers extensive training in the analysis of survey data to a broad array of South Africa's academics, graduate students and researchers from NGOs and government.

Director: Professor M. Leibbrandt
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Web: <http://www.saldru.uct.ac.za>

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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CENTRE FOR THEORETICAL AND MATHEMATICAL PHYSICS

The Centre for Theoretical and Mathematical Physics (CTMP) is an interdepartmental research unit devoted to the promotion of interdisciplinary research in these areas. CTMP is part of the National Institute of Theoretical Physics. CTMP has twelve local members from the Departments of Astronomy, Mathematics and Applied Mathematics, and Physics. It also has five international members who visit the Centre on a regular basis. Postgraduate students doing theses on related research fields are admitted to CTMP for the duration of their studies. An International Advisory Board of seven internationally acclaimed scientists was appointed in 2006.

Director: Professor I. Barashenkov
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Web: <http://www.uct.ac.za/faculties/science/research/astrophysics/>

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/>

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 areas 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. The Unit works closely with the National, Western Cape Provincial, and City of Cape Town Departments of Health, as well as with other academic institutions and NGOs, in reproductive and women's health. Key research areas include HIV and reproductive health, gender and HIV, health systems research (reproductive health), female cancers, contraception and termination of pregnancy.

Director: Associate Professor D. Cooper and
Associate Director: Ms J. Harries
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Web: <http://www.whru.uct.ac.za>

Message from the Vice-Chancellor

In 2009, research at the University of Cape Town notched up some notable achievements. First, in revisiting its mission, UCT reaffirmed its commitment to being a research-led university. Our research strengths are what distinguish UCT on the continent, and as a global player. Being research-led commits us to allocating resources to research; to privileging research when making appointments and promotions, and evaluating performance; and to bringing research into the undergraduate teaching environment wherever possible. This research strength also positions UCT to help produce the next generation of academics for South Africa and the rest of Africa through extensive offerings at master's and doctoral levels. This too has been incorporated into our mission.

Second, we identified six strategic goals, one of which is to improve the impact of our research. Another goal, to become an Afropolitan university, challenges researchers to address problems that have a particular relevance or perspective for Africa.

Third, after reviewing potential networks of universities that UCT had been invited to join, we joined the Worldwide Universities Network which is a group of 16 universities with a primary interest in collaboration around research and postgraduate studies.

Fourth, to stimulate new ideas and projects that will promote the strategic goals, we launched a special Vice-Chancellor's strategic fund – R100 million over five years. Twenty-nine projects aligned to the University's strategic objectives were funded. Of these, fourteen projects valued at a total of R12.7 million in 2010 either directly or indirectly furthered UCT's research agenda. Proposed initiatives – to name a few – include the establishment of a Centre for African Origins, an initiative which will bring together expertise from across the continent to research the evolutionary processes underlying human diversification, resource allocation and diet patterns; the development of marine multiscale data and models, in order to predict climate variability in Africa; the setting up of a 'Science Shop' that will act as a bridge between society and the University in identifying research questions; and the establishment of a UCT Global Health Institute to focus on health inequity in South Africa and the rest of Africa. A further R2 million was awarded to seven proposals from the Faculty of Science and the Faculty of Commerce that focus on climate change and development.



Finally, we have begun to implement a new approach to harnessing research resources that address major social challenges but are spread across the University. The first of these challenges is climate change and development. The approach entails creating a Pro-Vice-Chancellor position, reporting to the Vice-Chancellor, whose role it will be to co-ordinate research efforts in this area, help raise funds, establish a cross-disciplinary master's degree, raise the portfolio of this focus area of research in order to attract funds, as well as doctoral and post-doctoral students, and to support advocacy work coming out of UCT. The Pro-VC will direct the *African Climate and Development Initiative*, which aims to inspire a future of responsible earth stewardship by harnessing UCT's wealth of expertise in the relevant disciplines.

UCT is keenly aware of its responsibility to contribute to growing the next generation of researchers. We have several initiatives to further this goal. The Institutional Transformation and Employment Equity project, funded by the Carnegie Corporation, merits special mention. This grant entered its second cycle in 2009, when it was renewed for a further three years until 2011. In the new cycle, the focus is on the retention and accelerated career development of black and women researchers at UCT.

The UCT research community is energised by the many opportunities that it has to contribute to the future of South Africa and the continent and to be a global research partner based on its leading position in Africa. As we build on the achievements of 2009, we are grateful for the continued support from our donors, research-contract partners and funding agencies both here and abroad.

Dr Max Price
Vice-Chancellor

Boodskap van die Visekansellier

In 2009 het die Universiteit van Kaapstad met sy navorsing 'n aantal merkwaardige prestasies behaal. Eerstens het die UK weereens, met die oog op sy missie, bevestig dat hy daartoe verbind is om 'n universiteit te wees waar navorsing die leidende rol speel. Dit is die gehalte van ons navorsing wat die UK nie slegs op die vasteland nie, maar ook wêreldwyd onderskei. Die leidende rol van navorsing verbind ons daartoe om die nodige hulpbronne te voorsien; om by aanstellings, bevorderings en prestasie-evaluerings voorrang aan navorsing te bied; en om waar moontlik navorsing by die voorgraadse onderrigomgewing te betrek. Deur ons kragtadige navorsings ingesteldheid en ons omvangryke aanbod op die meesters- en doktorsvlak is die UK ook in staat om die volgende geslag akademici vir Suid-Afrika en die res van Afrika te help voorsien. Ook dit vorm deel van ons missie.

Tweedens het ons ses strategiese doelwitte geïdentifiseer, een waarvan is om die impak van ons navorsing te verhoog. Nog 'n doelwit, om 'n Afriapolitaanse universiteit te word, vereis dat navorsers hulle op probleme sal toespits wat 'n besondere betrekking op, of perspektief vir Afrika bevat.

Derdens het ons, na 'n beoordeling van potensiële universiteitsnetwerke wat uitnodigings tot die UK gerig het, besluit om by die *Worldwide Universities Network* aan te sluit. Dit bestaan uit 'n groep van 16 universiteite wat veral daarop ingestel is om saam te werk in 'n konteks van navorsing en nagraadse studies.

Vierdens het ons, ten einde nuwe idees en projekte te stimuleer wat die strategiese doelwitte sal bevorder, 'n spesiale strategiese Visekanseliersfonds van stapel gestuur wat R100 miljoen oor 'n periode van vyf jaar behels. Nege-en-twintig projekte wat met die universiteit se strategiese doelwitte verband hou, is befonds. Hiervan het veertien projekte met 'n totale waarde van R12.7 miljoen die UK se navorsingsagenda in 2010 hetsy direk of indirek bevorder. Voorgestelde inisiatiewe – om slegs 'n paar te noem – sluit die vestiging van 'n Sentrum vir Afrika-oorspronge in, 'n inisiatief wat deskundigheid van oor die vasteland bymekaar sal bring om die evolusieprosesse na te vors wat onderliggend is aan menslike verskeidenheid, die verdeling van hulpbronne, en dieetpatrone; die ontwikkeling van multiskalaal mariene data en modelle ten einde klimaatveranderlikheid in Afrika te voorspel; die vestiging van 'n 'Wetenskapwinkel' wat sal dien as 'n brug tussen die samelewing en die Universiteit vir die identifisering van navorsingsvrae; en die

vestiging van 'n Globale Gesondheidsinstituut by die UK om op gesondheidsongelykheid in Suid-Afrika en die res van Afrika te fokus. 'n Verdere R2 miljoen is vir sewe voorstelle uit die Fakulteit Wetenskap en die Fakulteit Handel toegeken wat op klimaatverandering en ontwikkeling fokus.

Laastens het ons begin om 'n nuwe benadering te implementeer om navorsingshulpbronne aan te wend wat op groot maatskaplike uitdagings gerig is maar wat oor die hele Universiteit heen versprei is. Die eerste van hierdie uitdagings is klimaatverandering en ontwikkeling. Hierdie benadering behels die daartel van 'n Pro-Visekansellier wat aan die Visekansellier rapporteer, en wie se rol sal wees om navorsingspogings in hierdie area te koördineer, met fondsinsameling te help, 'n interdisiplinêre meestersgraad te vestig, die portefeulje van hierdie navorsingsfokusarea uit te bou ten einde fondse te bekom en doktorsale en post-doktorsale studente te lok, en om steun te verleen aan voorspraakwerk wat uit die UK voortkom. Die Pro-Visekansellier sal die *African Climate and Development Initiative* bestuur, die doel waarvan is om 'n toekoms van verantwoordelike rentmeesterskap jeens die aarde in die hand te werk deur die UK se skatkis van deskundigheid in die betrokke dissiplines te betrek.

Die UK is terdeë bewus van sy verantwoordelikheid om tot die kweek van die volgende geslag van navorsers by te dra. Ons het etlike inisiatiewe waardeur hierdie doelwit bevorder kan word. Die projek: *Institutional Transformation and Employment Equity*, wat deur die Carnegie-korporasie befonds word, verdien spesiale vermelding. Die tweede siklus van hierdie toekenning het in 2009 begin, toe dit vir 'n verdere drie jaar tot 2011 hernu is. Die fokus van die nuwe siklus is op die behoud van swart en vroulike navorsers by die UK gerig, en op hul versnelde loopbaanontwikkeling.

Die navorsingsgemeenskap by die UK is begeester deur die vele geleenthede wat dit het om tot die toekoms van Suid-Afrika en van die kontinent by te dra, en om uit hoofde van die Universiteit se leierskapsposisie in Afrika 'n wêreldwye navorsingsvennoot te wees. Terwyl ons op die prestasies van 2009 voortbou, is ons dankbaar vir die voortgesette ondersteuning van ons donateurs, navorsingskontrakvennote en befondsingsagentskappe hier sowel as in die buiteland.

Dr. Max Price
Visekansellier

Umyalezo ozuka kwiSekela-Tshansela

Ngo-2009, uphando kwiYunivesithi yaseKapa luqabele amangwanqwa ancomekayo empumelelo. Okokuqala, ukuphendla-phendla umgaqo wendlela yokusebenza weyunivesithi, i-UCT iyayiqinisa imbophelelo yayo yokuba yiyunivesithi enkqenqeza phambili kwezophando. Ukukhula kophando kuko okwenza umahluko we-UCT kwi-Afrika iphela, nokuba idlale indima kwihlabathi liphela. Ukukhula kwethu kwezophando kuyasibophelela ukuba sibonelele ngezixhobo kwezophando; sibeke phambili uphando xa sinyula izikhundla, xa sinyusela, siphonononga indlela yokusebenza, nokuzisa uphando kwimo yakufundisa yenqanaba elisezantsi nanini na kukho ithuba. Oku kukhula kophando kuphinda kubekwe i-UCT ekuncedeni ukuvelisa izizukulwana sabafundi esilandelayo soMzantsi Afrika ne-Afrika iphela ngokubonelela ngokubanzi kumgangangatho wenqanaba lezifundo lezidanga eziphakamileyo (master's degree) kunye nezifundo zobugqirha (doctoral). Oku nako kubandakanyiwe kumgaqo wendlela yokusebenza weyunivesithi.

Okwesibini, siphawule injongo ezintandathu zenkqubo-qhinga, enye yazo ekukuphucula impembelelo yophando lwethu. Enye injongo, kukuba yiyunivesithi eyi-Afropolitan, simemelele kubaphandi ukuba bajongane nemimiceli mingeni engqamene nengxaki ezithile ezichaphazela okanye ezinika umfanekiso we-Afrika.

Okwesithathu, emva kokuphonononga unxibelelwano olumandla lweyunivesithi i-UCT emenywe ukuba ibe yinkxalenye yazo, singenelele kwiWorld Universities Network eliqela leyunivesithi ezili-16 ezimla wazo wokuqala ilumanyana kwezophando nakwizifundo zezidanga zenqanaba eliphezulu (postgraduate studies).

Okwesine, kukukhuthaza imbono ezintsha eziza kuphucula injongo zenkqubo-qhinga, sazise ngokusesikweni ingxowa mali yeSekela-Tshansela eyodwa ezizigidi zamakhulu erandi (R100 million) seminyaka emihlanu. Kumaphulo angama-29 ahambelana neenjongo zenkqubo-qhinga yeyunivesithi axhaswe ngezimali. Kwela maphulo ayi-14 axabise isixa-mali esingange-R12.7 lezigidi kunyaka ka-2010, ezithe ngqo okanye ezingathanga ngqo eziqhubela phambili i-ajenda yophando. Amaphulo aphakanyiswayo ukuchaza ambalwa aquka ukusekwa kweCentre for African Origins, liphulo eliyakuthi lizise inkcuba-buchopho kwilizwe lase-Afrika liphela ukuphanda ngenkqubo ye-evolution ebonisa inkqubo yokunaba koluntu (diversification), ukubanelelwa kwezixhobo neendlela zokutya, ukuphuhliswa kwedata ye-marine multiscale kunye neemodeli zayo, ukuze kwaziwe

ukuqikelelwa kwemo yakutshintsha kwendalo yezulu e-Afrika, ukwakhiwa kwe 'Science Shop' eza kusebenza njengomda phakathi koluntu neYunivesithi ekuphawuleni imibuzo yophando, nokusekwa kwe-UCT Global Health Institute ukujongana nakushiya-shiyana kwezempilo eMzantsi Afrika nase-Afrika iphela. Ezinye izigidi ezibini (R2 million) ziwongwe kwiimbano (proposals) ezisixhenxe kwiCandelo LezeNzululwazi (Science) nakwiCandelo lezoRhwebo (Commerce) ezijongene nokutshintsha kwendalo yemo yezezulu kunye naphuhliso.

Okokugqibela, siqalisile ukusungula indlela entsha yakwabelana ngezixhobo zophando ezijongene nemiceli mingeni yezinto zasekuhlaleni ezingundoqo kodwa zinatyselwe kwiyunivesithi iphela. Eyokuqala imiceli mingeni zezendalo yemo yezezulu kunye naphuhliso. Le ndlela ijongene nokudala isikhundla sePro-Vice Chancellor, eza kunika ingxela kwi-Sekela-Tshansela, endima yalo iza kuba kukujongana namalinge ophando kule ndawo, ijongane nokunyusa ingxowa-mali yophando, iseke isidanga senqanaba eliphezulu eyi-cross-disciplinary, iphakamise isikhundla sale ndawo kuphando ukuze ingenise imali, kunye nezifundo zobugqirha naba selebengaqirha, nakuxhasa iphumelelise umsebenzi avela ngaphandle e-UCT. IPra-Vice Chancellor iza kukhomba indlela kwi-African Climate and Development Initiative, ejalise ekukhuthazeni ikamva loxanduva njengonogada bomhlaba ngokujongana nendyebo yenkcuba-buchopho kwizifundo ezibandakanyekayo.

I-UCT ikwalazi uxanduva lokufaka isandla ekukhuliseni izizukulwana esilandelayo sabaphandi. Sinamaphulo oqalekayo aliqela ukuphumeza le njongo. I-Institutional Transformation and Employment Equity Project exhaswa ngezimali yi-Carnegie Corporation nayo kuyafuneka ikhankanyiwe. Le nkxaso-mali ingene kumjikelo wonyaka wesibini ngo-2009, apho iphinde yahlaziyelwa iminyaka emithathu uya kutsho ku-2011. Kulo mjikelo mtsha, injongo yayo isekujonganeni nasekukhawuleziseni uphuhliso lwefundo lwabantu abamnyama namakhosikazi angabaphandi e-UCT.

Uluntu lophando lwase-UCT lunikwe umdla omkhulu ngamathuba amaninzi aza kuba negalelo kwikamva loMzantsi Afrika ne-Afrika iphela kunye nokuba ngamahlakani ophando omhlaba asekwke kukuba sesikhundleni esiphambili e-Afrika. Njengokuba sisongeza kwiimpumelelo zika-2009, sinombulelo omkhulu ngenkxaso eqhubekayo evela kubaxhasi bethu, amahlakani exeshana abaphandi kunye namaqumrhu alapha nawaphesheya.

UGqr. Max Price
ISekela-Tshansela



Introduction

In a globalised world where an estimated 150 million students, expanding by five million per year, study at some 8000 tertiary institutions, where competition for the best student and for resources is keener every year, and where different stakeholders pull universities in seemingly opposite directions – namely to advance the frontiers of knowledge and to be socially engaged – each university needs to think carefully about what it wants to, can, and should do, as well as how to balance the different goals that it sets for itself. In setting its objectives, a university of substance can no longer view itself from only a national perspective, since the sources of students, funds for research and collaborative opportunities can as readily be found without as within the national borders. At the same time, universities have a moral imperative to address the challenges of the communities in which they are situated.

A top priority in 2009 was spelling out, as part of the University's new strategic plan, UCT's research role for the next five years. In a concept paper that focused on the twin goals of greater impact and greater engagement, we set ourselves the goal of becoming a model of a developing-world university. Such a university looks both to the world and to its own country and continent when setting its agenda, and it combines excellent research with a commitment to do research, wherever possible, in a way that improves the lot, and unlocks the potential, of the country's and the continent's people. This does not mean that UCT supports and encourages only socially responsive research. Rather, we encourage our researchers not to overlook the socially innovative potential of their work. If researchers constantly monitor the social benefit that their work or its adaption might have, social innovation becomes an integral part of the University's research activity.

The key to this approach is that the University rejects the notion that the production of cutting-edge and paradigm-shifting (or paradigm-creating) research necessarily stands in opposition to social engagement. We aim, therefore, to hold our own on the international research stage and to fulfil our mission to be socially responsive.

"Such a university looks both to the world and to its own country and continent when setting its agenda, and it combines excellent research with a commitment to do research, wherever possible, in a way that improves the lot, and unlocks the potential, of the country's and the continent's people."

The University is proud of the excellence of its research and the fact that we are ranked at number one in Africa by two major international ranking systems, the *Times Higher Education – Quacquarelli Symonds (QS) World University Rankings 2009* (at 146 in the world) and the *Shanghai Jiao Tong University's Academic Ranking of World Universities 2009* (at 219 in the world). Our publication count, as submitted to the Department of Higher Education and Training, grew by 6.8 per cent in 2009 and the impact of the research of the large majority of the departments in the University is at or above the world average. We now have 322 researchers rated by the National Research Foundation (NRF), of which 32 are A-rated, world-leading researchers. Our total research income grew by 18 per cent to R769 million in 2009. This includes three major international health research initiatives with a combined funding of R200 million. Cumulative funding from the NRF now stands at R189 million. We have devoted much time during the past year to thinking

collectively about how we might improve the impact of our research. Each faculty has developed a plan to ensure that its research receives the maximum exposure – in other words, to ensure that it matters, that it makes a difference. At a central level, too, we have taken a number of initiatives to increase our institutional impact and visibility.

The support that a university is able to give its research community has a direct bearing on the success that it is able to achieve and UCT takes pride in its extensive support network. The service and support that we provide is outlined in the reports of the three units of the Department of Research and Innovation: the Research Office (RO), the Postgraduate Centre and Funding Office (PGC&FO) and the Research Contracts and Intellectual Property Services (RCIPS). It includes increased funding to postgraduate students leading to an increasing graduation rate (awards worth R97 million were administered by the PGC&FO – a figure which does not include the scholarships provided by faculties and by researchers from their research funds – and we capped 186 doctoral candidates, compared to 140 in 2008); funding and mentoring support organised by the RO through the Emerging Researcher Programme, the Programme for Enhanced Research Capacity, as well as the Mellon Visiting and Retired Scholars Mentorship Programme; and guidance, active legal advice and support in regard to research contracts, the protection of intellectual property and the commercialisation of research by the RCIPS.

The University realises the value of focused research, but also the dangers of binding the research community to a few centrally determined themes. UCT's approach to research is therefore to let a hundred flowers bloom, but at the same time to seize opportunities to concentrate research in order to produce a critical mass in a particular area to enhance the chances of important breakthroughs. Two areas to which we have been able to bring an enhanced focus during 2009 are (1) climate change and variability (described in the Vice-Chancellor's message) and (2) clinical research. Following on a study by the Academy of Science of South Africa (ASSAf) that outlined the country's exponential disinvestment in clinical research over the past two decades, UCT's Faculty of Health Sciences, through the Department of Medicine – headed by Professor Bongani Mayosi (who chaired the ASSAf study) – has developed a blueprint for a clinical research programme to revive this field. It includes setting up a Clinical Scholars Programme for training at all levels, establishing a new Clinical Research Support Unit, striking up partnerships with historically black medical schools to target the training of black scholars, and the creation of a Centre for Clinical Innovation and Translation.

As we move forward to face the challenges of the next year, we are grateful for the continued engagement with, and support from, the research community in building on the achievements of 2009.

Professor Danie Visser
Deputy Vice-Chancellor



Engineering & the Built Environment

SCHOOL OF ARCHITECTURE,
PLANNING AND GEOMATICS

DEPARTMENT OF CHEMICAL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

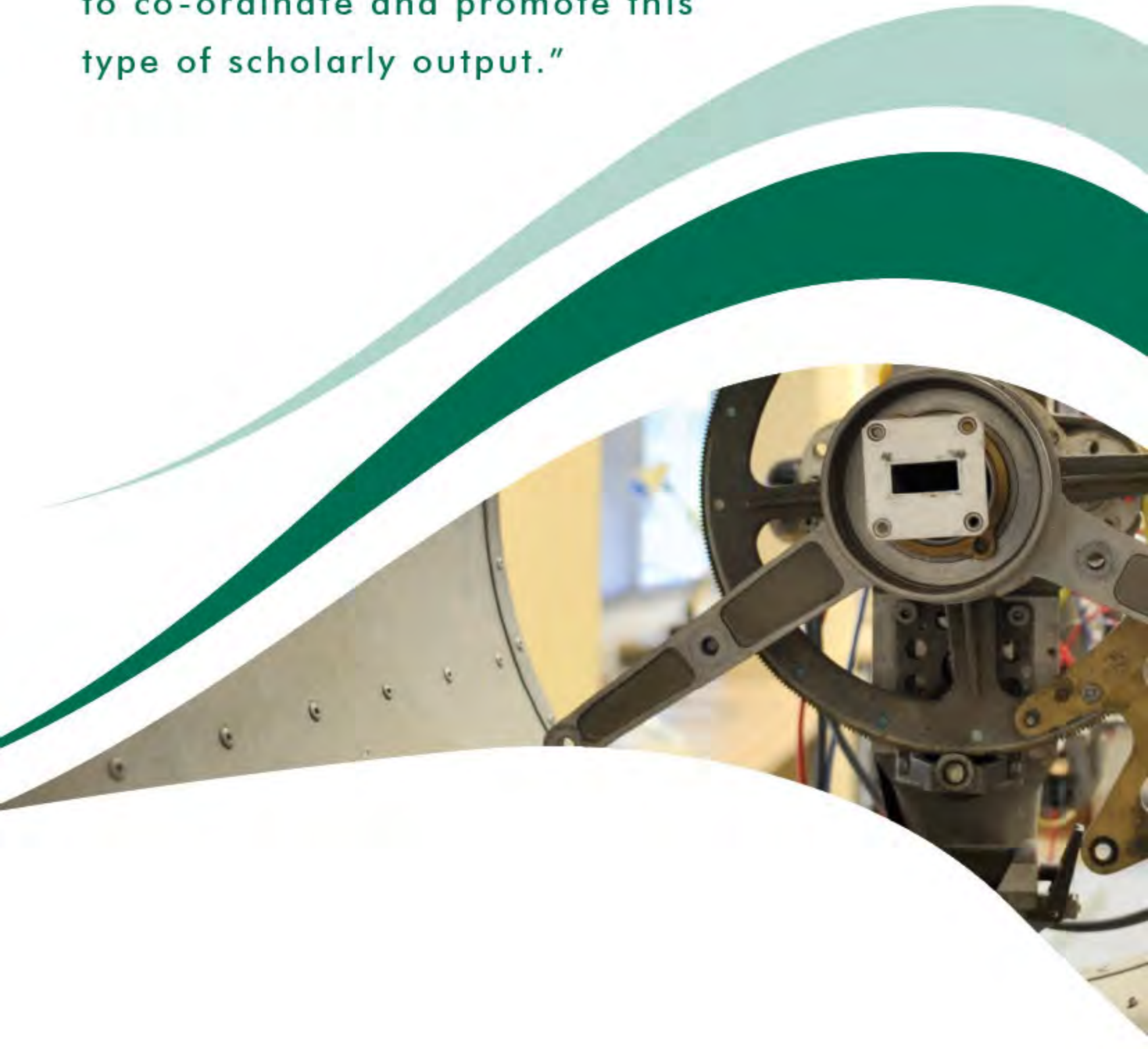
DEPARTMENT OF CONSTRUCTION
ECONOMICS AND MANAGEMENT

DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING



“Amongst other aspects, the Faculty is focusing on how research can contribute to addressing the developmental needs of society and the EBE Initiative for Public Good has been established to co-ordinate and promote this type of scholarly output.”





Dean's Report

During the year under review, the Faculty of Engineering & the Built Environment continued with its strategic plan of strengthening the research and innovation focus in the Faculty. This plan is closely aligned to key government priorities, industry and private sector challenges. It values partnerships, high quality output and impact, and the nurturing of an enabling research and innovation environment as critical building-blocks in realising our vision of becoming the faculty of choice for students and staff nationally and internationally.

In 2009, 227 research contracts were processed with a total value of R110.9 million, with just under R50 million coming from Government. The total research income for the Faculty was approximately R160 million.

Eight academic staff in the Faculty were awarded NRF ratings (new and renewals), which brings the total number of NRF-rated staff in the Faculty to 35. The Faculty is working to create a supportive and enabling environment for research and innovation and it is particularly encouraging to see that 50 academic staff participated in the Emerging Researcher Programme, which is a 50 per cent increase in attendance since 2006.

Our postgraduate students increased by six per cent to a total of 953, with 144 registered for honours, 670 for master's and 139 for doctoral degrees.

Staff in the Faculty have been recognised for their contribution in the fields of engineering and the built environment. Professor Sue Harrison from the Department of Chemical Engineering was one of ten members appointed to the board of the Technology Innovation Agency which has

been set up by the Department of Science and Technology to help stimulate technological innovation to improve economic growth in the country. Associate Professor Jenni Case was initiated into the Academy of Science of South Africa.

Professor Jack Fletcher, Head of the Department of Chemical Engineering, was elected a Fellow of the South African Academy of Engineering. This brings the total number of Fellows in the Faculty to ten. The other fellows are Professors Alphose Zingoni, Gerald Nurick, George Ekama, Daya Reddy, Heinz Ruther, Mark Alexander, Sue Harrison, Cyril O'Connor and Francis Petersen.

Mr Neco Ventura, head of the Centre of Excellence in Broadband Networks, received the Department of Trade and Industry's Certificate of Achievement in the category Quality and Quantity of Students for his research project *Fixed Mobile Convergence in the IP Multimedia Subsystem*.

The Faculty hosted a number of international conferences during 2009. Professor Mike Inggs from the Department of Electrical Engineering hosted the 2009 International Geoscience and Remote Sensing Symposium Conference, which was attended by over 1200 international scientists. Associate Professor Harro von Blottnitz from the Department of Chemical Engineering hosted the 4th International Life Cycle Management Conference, which is endorsed by the United Nations. The Department of Construction Economics hosted the Royal Institute for Chartered Surveyors Construction and Building Research Conference.

Amongst other aspects, the Faculty is focusing on how research can contribute to addressing the developmental needs of society and the EBE Initiative for Public Good has

been established to co-ordinate and promote this type of scholarly output.

Work has started in the HySA/Catalysis Competence Centre in the Department of Chemical Engineering under the leadership of Professor Jack Fletcher. A new laboratory in the Chemical Engineering building has been established and will be ready for 2010.

Associate Professor Marianne Vanderschuren from the Centre of Transport studies is co-ordinating a national drive to strengthen scientific and technological support to enable the implementation of sustainable transport policies in South Africa. The Transport and Environment – Science Technology Network is led by the Stockholm Environment Institute at the University of York (UK) and the European branch of the Institute for Transportation and Development Policy, based in Germany. The network involves universities from six African countries, UN-Habitat, and the International Forum for Rural Transport and Development. It is funded by the European Commission's African, Caribbean and Pacific Group of States (ACP) Science and Technology Programme.

Three exciting new projects under the African Centre for Cities secured funding. They are State of the Cities reports in Africa, a collaborative project on urban flooding and sea level rise in the Western Cape, and a project with the Association of African Planning Schools to build research capacity and to support planning education in Africa.

The UCT Aquatest research team headed up by Associate

Professor Ulrike Rivett from the Department of Civil Engineering has developed a support system for water quality monitoring which has been implemented in four municipalities across the country. Collaborative relationships for systems development and implementation have been formed across the African continent and internationally.

The world's second positron emission particle tracking facility, PEPT Cape Town, opened at the iThemba LABS national cyclotron centre with seed funding provided by the National Research Foundation, UCT (the Centre for Minerals Research, the Minerals to Metals Initiative and the UCT Equipment Committee), Imperial College in London, and the Centre for Sustainable Resource Processing in Australia.

In December 2009, Associate Professor Harald Winkler and Dr Andrew Marquard from the Energy Research Centre led the UCT team at the United Nations Climate Change Summit held in Copenhagen. Associate Professor Winkler and Dr Marquard were both part of a South African government delegation.

The Faculty is in the process of an exciting capital campaign for a new building which will be designed in such a way that integration of postgraduate students and staff is maximised. This will ensure that we continue to produce engineering graduates with a solid technical foundation, with an ability to be socially responsive, and with a full appreciation and understanding of safety, health and environment challenges in and around the workplace.

Professor Francis Petersen
Dean of the Faculty of Engineering & the Built Environment

Doctoral Graduations

M.Y. ABDUL GAFFAR (ELECTRICAL ENGINEERING)

Ground-based ISAR imaging of cooperative and non-cooperative sea vessels with 3-D rotational motion.

Supervised by Professor M.R. Inggs.

C.W. BAKKER (CHEMICAL ENGINEERING)

Numerical modelling of non-Newtonian mineral slurry in a mechanical flotation cell.

Supervised by Associate Professor D. Deglon, Dr C. Meyer and Professor J.-P. Franzidis.

B.I.A. BARRY (ELECTRICAL ENGINEERING)

A hybrid and cross-protocol architecture with semantics and syntax awareness to improve intrusion detection efficiency in voice over IP environments.

Supervised by Professor H.A. Chan.

P.S. CAIRNS (CHEMICAL ENGINEERING)

Oxygenates in iron Fischer-Tropsch synthesis: is copper a selectivity promoter?

Supervised by Associate Professor M. Claeys and Professor M. Dry.

D. CATTELL (CONSTRUCTION ECONOMICS AND MANAGEMENT)

Component unit pricing theory.

Supervised by Professor P.A. Bowen.

V. CHEANG (CHEMICAL ENGINEERING)

Effect of crystallite size and water partial pressure on the activity and selectivity of low temperature iron-based Fischer-Tropsch catalysts.

Supervised by Associate Professor M. Claeys.

I. CHIYANZU (CHEMICAL ENGINEERING)

An investigation into the biocatalytic application of the thermostable nitrile hydratase from the thermophilic strain *Geobacillus pallidus* RAPC 8.

Supervised by Professor S.G. Burton.

J. GOLOVINS (ELECTRICAL ENGINEERING)

Low-complexity algorithms for channel estimation in optimised pilot-assisted wireless OFDM systems.

Supervised by Mr N. Ventura.

R. GOOD (ELECTRICAL ENGINEERING)

Linking session based services with transport plane resources in IP multimedia subsystems.

Supervised by Mr N. Ventura.

K.G. HARDING (CHEMICAL ENGINEERING)

A generic approach to environmental assessment of microbial bioprocesses through Life Cycle Assessment (LCA).

Supervised by Professor S.T.L. Harrison and Dr J.S. Dennis.

M.J. HOWELLS (MECHANICAL ENGINEERING)

Analyzing sustainable energy in developing countries: selected South African case studies.

Supervised by Professor K. Bennett and Associate Professor A. Leiman.

P. LILJE (ELECTRICAL ENGINEERING)

Stabilising an islanded nuclear power plant with a high-energy resistor.

Supervised by Professor A.I. Petroianu.

M. LOUW (ELECTRICAL ENGINEERING)

A population Monte Carlo approach to estimating parametric bidirectional reflectance distribution functions through Markov Random Field parameter estimation.

Supervised by Dr F. Nicolls.

M. MALENGRET (ELECTRICAL ENGINEERING)

Definition of apparent power in 3-phase 4-wire non-sinusoidal power systems.

Supervised by Professor C.T. Gaunt.

P. VAN HELDEN (CHEMICAL ENGINEERING)

Initial steps of the Fischer-Tropsch synthesis on Fe(100): the role of hydrogen.

Supervised by Professor E. van Steen.

C.J. VENGADAJELUM (CHEMICAL ENGINEERING)

An investigation into the bioconversion of South African subbituminous coal by *Trametes* species and *Trichoderma atroviride*.

Supervised by Professor S.G. Burton.

C.L. VILJOEN (CHEMICAL ENGINEERING)

Assessment of disparate strategies for octane prediction.

Supervised by Professor K.P. Moller.

Y.Q. ZHUANG (CHEMICAL ENGINEERING)

The performance of structured cobalt catalysts in Fischer-Tropsch synthesis.

Supervised by Professor E. van Steen and Professor M. Claeys.

Patents

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PRESTIGIOUS FULTON AWARD

The Concrete Materials and Structural Integrity Research Group, based in the Department of Civil Engineering, received a Fulton Award for a special category: Repair and Maintenance Projects. The award was for the research done by Associate Professor Pilate Moyo on the concrete retrofitment solutions utilised at the Van der Kloof Dam Spillway Bridge. The Judges were impressed by the design engineers' insightfulness in suggesting an alternative of retrofitting and refurbishing this existing bridging structure over the Van der Kloof Dam Spillway, as opposed to merely demolishing and rebuilding. The Judges' citation said: "Of particular interest was the fact that the bridge span structures were modelled to assess the dynamic behaviour thereof and that further on site vibration-based dynamic tests were done to support these findings and from these results ingenious retrofitment details and techniques were proposed in order to strengthen the bridging structure adequately." The Fulton Award recognises and rewards excellence and innovation in the use of concrete. The awards are held in high esteem both locally and internationally. Moyo worked with BKS (Pty) Ltd and the client was the South African Department of Water Affairs and Forestry.



Seen with the award are members of the research group: Dr Hans Reuschhausen, Associate Professor Pilate Moyo, and Professor Mark Alexander.

ISAFIADÉ, A. AND FRASER, D. 2009. Interval based MINLP superstructure synthesis of combined heat and mass exchanger networks. *Chemical Engineering Research & Design*, 87: 1536-1542.

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SLUMS: THE FUTURE OF AFRICAN URBANIZATION

Almost all future urban growth in African cities will take the form of slum growth. This is just one of the stark differences between urbanisation in Africa and elsewhere. So noted Professor Edgar Pieterse, director of UCT's African Centre for Cities, in his inaugural lecture. Titled *African Cities: Grasping the Unknowable*, Pieterse's lecture described the African city as an "elusive mirage clouded by limited data". Despite Africa boasting the fastest rate of urbanisation of all regions, with the United Nations predicting that the continent will double its urban population in the next two decades, there is an "absence of a well-rounded body of thought on the specificities of African urbanism", Pieterse said. "We need to find ways in which we can clarify the knowledge agenda that will be able to articulate macrotrend data and perspectives with insights about the novelty of contemporary urban life as it comes into being at this late capitalist moment, when Africa remains an afterthought, an invisible placemat for larger power struggles, and the globalised allegory for failed modernisation."



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NEW RECYCLING METHOD IS WORTH ITS SALT

A new method to recycle the salty water produced by coal mining could benefit both the mining industry and the environment, according to an award-winning paper by Professor Alison Lewis, head of UCT's Crystallisation and Precipitation Unit in the Department of Chemical Engineering. Lewis was awarded the best-paper prize at the Water in Mining Conference, held in Perth, Australia, by the Australasian Institute of Mining and Metallurgy and the Sustainable Minerals Institute. Co-authored by PhD researchers Dyllon Randall and Sarashree Reddy, Master's student Rinesh Jivanji and research officer Jeeten Nathoo, the paper proposes a protocol methodology for testing the technical and economic feasibility of eutectic freeze crystallisation (EFC) for South African coal mines. Nathoo explains that briny water produced in mining is often dumped into drainage areas, where the water evaporates, leaving its minerals behind. The problem with this method is that the water is lost, and there is always the danger of seepage. The EFC method not only addresses the water problem, but allows for the recycling of the extracted salts. The result produces not only pure, drinkable water, but also pure salts that can be resold rather than dumped. And the process consumes about one sixth of the energy of the boiling method.



Prof. Alison Lewis (second from left) and members of the Crystallisation and Precipitation Unit.

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BEAUTY IN THE LABS

The Sasol Advanced Fuels Laboratory (SAFL) is not a place where one would expect to find breathtaking beauty, but the researchers and students who work there are discovering "the prettiest stuff you can imagine", hidden deep in the heart of the average diesel engine. In a rather nondescript building on the UCT campus, researchers are using and developing the most advanced technologies to find out exactly what makes Sasol fuel so special. "We know Sasol fuels are different, but we want to know exactly why," explains Professor Andy Yates, head of the SAFL. "We are also developing the fuels of the future. Clean-burning, synthetic fuels are the obvious next step as crude runs out." In 2002, Sasol approached UCT to move its future-focused research group onto the UCT campus. The company bears the entire cost of the lab. The marriage has been a success, with UCT's department of Mechanical Engineering enriched by the lecturers and researchers in the lab, while lab staff benefit from being able to publish their findings in mainstream academic journals. The lab also allowed doctoral student Gavin Evezard – who's nurtured the idea since his undergraduate studies – to build the world's fastest rapid-compression machine, which is used to see what happens when an air-and-fuel mixture is squeezed very suddenly.



Gavin Evezard with his rapid compression machine.

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BOOK WRITTEN IN TANDEM

Husband and wife team Associate Professor SP Chowdhury and Dr. Sunetra Chowdhury, both of the Department of Electrical Engineering, released a new book in 2009, *Microgrids and Active Distribution Networks*, which springs from a three-year collaboration with Professor Peter Crossley of the University of Manchester. Published by the Institute of Engineering and Technology (IET) in the UK under their Renewable Energy Series, the book focuses on detailed but comprehensive descriptions of the technologies that will enable future electricity systems. As a companion piece to *Embedded Generation*, published by the IET in 2000, *Microgrids and Active Distribution Networks* is described as a timely publication for practicing engineers, researchers and students in an evolving industry.



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CONCRETE RESEARCHER WINS FELLOWSHIP

Rachel Muigai, a researcher in the Department of Civil Engineering, was awarded a R300 000 scholarship from the Cement and Concrete Institute, to undertake doctoral research in sustainability of concrete construction. Muigai is only the 3rd recipient to receive this scholarship and the first woman. The Fellowship was awarded to Muigai for her PhD proposal on research into the contribution of recycled materials on the environmental performance of concrete. Muigai explains that concrete rubble from demolitions can be used as the aggregate in new concrete mixtures. Concrete consists of combinations of cement, aggregates (coarse and fine) and water. Born in Nairobi, Kenya, Muigai graduated from the University of Nairobi's Department of Civil Engineering before coming to UCT for its programmes on concrete durability. She earned her Master's with her thesis Probabilistic Modelling for Durability Design of Reinforced Concrete Structures, completed in 2008.



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Research Output

DEPARTMENT OF MECHANICAL ENGINEERING

(INCLUDING THE BLAST IMPACT AND SURVIVABILITY RESEARCH UNIT (BISRU), CENTRE FOR MATERIALS ENGINEERING (CME), CENTRE FOR RESEARCH IN COMPUTATIONAL AND APPLIED MECHANICS (CERECAM), ENERGY RESEARCH CENTRE (ERC), ENGINEERING MANAGEMENT, AND THE SASOL ADVANCED FUELS LABORATORY.)

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AFRICAN HERITAGE PROJECT GOES MULTIMEDIA

A glance at Emeritus Professor Heinz R  ther's wall diary tells you straight away that he travels a bit. Tucked in between the local and national talks and meetings, there are – marked in bold red – 10- to 14-day stretches in Kenya, Mozambique, Sudan and Tanzania. And a little further afield, Kyoto. The Africa-trotting is all in aid of the Zamani Project, the African Cultural Heritage Sites and Landscapes Database, conceived and run by R  ther from the School of Architecture, Planning and Geomatics. The database holds spatial, geographic and photographic information of heritage sites and structures across the continent, collected by R  ther and his four scientific officers via laser scanning, conventional surveys, GPS, traditional photography and photogrammetric imaging. This information is then used to build information-rich geographic information systems, faithful 3D computer models, maps and building plans of these hardly-seen sites. "The idea was to create an integrated database of African heritage, where we take a holistic approach," says R  ther. Among the project's eye-catching productions is a computer-generated video that allows the armchair traveller to take a virtual tour through the historic rock-hewn churches – each carved out of volcanic tuff – of Lalibela, Ethiopia. "This is stuff most people have never seen," says R  ther.



Moving forward: Ralph Schroeder, Christopher Held, Prof. Heinz R  ther, Wathan Thairtha and Stephen Westals at work on the Musedwarat es-Sufra temple site in Sudan.

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SASOL ADVANCED FUELS LABORATORY

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MECHANICAL ENGINEERING

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AVERTING THE RISKS OF CLIMATE CHANGE

The Energy Research Centre's Energy, Environment and Climate Change (E2C2) group focuses on research into climate change mitigation, economics and adaptation, greenhouse gas (GHG) inventories, the impact of potential future allocation schemes on SA, and capacity building. Diverse research interests include recent work on developing a 'low-carbon zone' in the Western Cape, the possibility of and means by which economic transformation to a low-carbon economy in South Africa could be made possible, and research into renewable and bio-energy potential in South Africa.

Several members of the group visited Denmark in December 2009 to participate in the global climate change negotiations that were expected to produce binding new commitments on GHG emissions. Dr Andrew Marquard and Associate Professor Harald Winkler attended as members of the South African delegation, advising negotiators on technical aspects of the agreements, while other members of the research group went as observers to the proceedings. Despite the worldwide hope that the Copenhagen conference would result in binding emissions targets and mechanisms for the transfer of finance and technology to the developing world, the multilateral talks resulted only in the Copenhagen Accord, a non-binding agreement which has nonetheless paved the way for further discussions. Talks on the details of a global agreement are continuing in 2010 but it is not clear how the divides between developed and developing country positions will be bridged.



Della Centre, Copenhagen conference: Protesters chant against the termination of the Kyoto Protocol in support of a stand taken by the Africa Group in the talks that day.

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Commerce

DEPARTMENT OF ACCOUNTING

SCHOOL OF ECONOMICS

GRADUATE SCHOOL OF BUSINESS

DEPARTMENT OF INFORMATION SYSTEMS

SCHOOL OF MANAGEMENT STUDIES



"The (new SARChI) Chairholder will examine the extent to which economic growth will yield significant poverty reductions in the South African context."





Dean's Report

Research in the Faculty of Commerce continued to go from strength to strength. The number of participants in the Emerging Researcher Programme grew from 52 in 2008 to 62 in 2009. The value of research contracts processed increased from R32.9 million (73 contracts) to R50.9 million (85 contracts). PhD graduations increased from 7 in 2008 to 19 in 2009, and there were three new NRF-rated researchers in 2009, namely Dr Lisa Seymour (Information Systems) and Associate Professors Tom Moultrie (Actuarial Science) and Jean-Paul Van Belle (Information Systems) respectively.

The South African Labour and Development Research Unit (SALDRU) and the Development Policy Research Unit (DPRU) underwent international peer-reviews in 2009 under the auspices of the University Research Committee. The purpose of the reviews was to assess the quality and impact of research, not only in terms of a global footprint, but also in terms of local engagement and benefit to society.

DataFirst, the survey data archive and training facility in the Faculty of Commerce, was honoured by Statistics SA with an award in the Data Dissemination category. Statistics SA and DataFirst are involved in a US\$370,000 project to support the accurate use of national statistics. Their work, the Data Quality Project, is funded by the Andrew W Mellon Foundation. It aims to support the quality and usability of Stats SA datasets for local researchers, especially those involved in measuring poverty, inequality and unemployment, and to build capacity in assessing data quality.

UCT Unilever Institute of Strategic Marketing completed and presented a well-received qualitative and quantitative research project on how consumers have reacted to the recession. Called "Reboot", it showed that consumers have reacted very significantly and will continue to do so. More importantly, it showed that reactions varied widely across different consumer segments.

The National Income Dynamics Study by SALDRU, the first national panel study in South Africa to document the dynamic structure of households in South Africa and changes in the general level of well-being of household members, concluded the first wave (Wave 1) during 2008. The data and a set of baseline reports were publicly released in 2009. SALDRU was awarded a tender by the Presidency to undertake Wave 2 of the National Income Dynamics Study starting in 2010.

Professor Haroon Borat, the Director of DPRU, was awarded a Chair under the DST/NRF South African Research Chairs Initiative, in Economic Growth, Poverty and Inequality. The Chairholder will examine the extent to which economic growth will yield significant poverty reductions in the South African context. A more detailed, informed and scientific study of the interactions between growth, poverty and inequality will ensue. This is the second SARCHI Chair in the Faculty, the other being held by Professor Murray Leibbrandt, the Director of SALDRU.

Professor Rob Dorrington, Director of the Centre for Actuarial Research, was awarded a Fellowship by the UCT College of Fellows. The purpose of the College of Fellows is to recognise academic staff for distinguished scholarship and research through their election to Fellowships.

Professor Dewald Roode, seen by many as the father of Information Systems in South Africa, sadly passed away in 2009 after a long illness. Professor Roode supervised to graduation nine PhD students in the Department of Information Systems between 2003 and 2009. He was the 2008 recipient of the LEO Lifetime Achievement Award, the highest international recognition for an Information Systems professional.

Emeritus Professor John Simpson
Acting Dean of the Faculty of Commerce

Doctoral Graduations

T. Z. ABUJINUTUN (ECONOMICS)

Parental death and schooling outcomes in South Africa.
Supervised by Professor M. Leibbrandt and Professor A. Case.

L. BANDA (ECONOMICS)

Financial development and economic growth: a comparative study of multivariate analysis of Kenya, South Africa and Zambia's economies.
Supervised by Professor H. Abraham.

M. BULESTANEH (GRADUATE SCHOOL OF BUSINESS)

Market orientation, donor relations, and performance of South African HIV/AIDS care providers.
Supervised by Professor S. Burgess.

I. BRESS (GRADUATE SCHOOL OF BUSINESS)

On the nomological relations of culture and market orientation: the case of the German and South African automotive industries.
Supervised by Professor T. Koelble.

E. QWENHARD (ECONOMICS)

The role of institutions in shaping foreign capital: evidence from South Africa and Zimbabwe.
Supervised by Professor J.W. Fedderke.

J. A. BARNIER (INFORMATION SYSTEMS)

Factors associated with the successful implementation of computerised hospital information systems in South Africa.
Supervised by Professor J.D. Roode and Dr S. Isaacs.

E. REYNOLDS (GRADUATE SCHOOL OF BUSINESS)

What mediates the effects of market orientation on performance? The case of high technology companies in South Africa.
Supervised by Professor S. Burgess.

T. K. MARGOMA (GRADUATE SCHOOL OF BUSINESS)

African workplace spirituality in South African mines.
Supervised by Professor K. April.

I. MALGAS (GRADUATE SCHOOL OF BUSINESS)

Power sector reform in Africa: the paradox of hybrid markets.
Supervised by Professor A. Eberhard.

A. B. BECKORD (ECONOMICS)

The anatomy of public works: an exploration of the social protection function of public works programmes in contexts of chronic poverty.
Supervised by Professor M. Leibbrandt.

B. MUSSA (ECONOMICS)

Children, investments in education and poverty in Malawi.
Supervised by Associate Professor M. Wittenberg.

B. N. NJENGA (INFORMATION SYSTEMS)

Conceptualising improvisation in information security risk management activities: a South Africa case study.
Supervised by Associate Professor I. Brown.

M. NIHLI (ECONOMICS)

Exploring the status of African women in the South African labour market, 1995-2004.
Supervised by Associate Professor M. Wittenberg.

B. M. OCHABA (INFORMATION SYSTEMS)

The e-government artifact in the context of a developing country: towards a nomadic framework.
Supervised by Associate Professor J.-P. van Belle.

B. M. PAUW (ECONOMICS)

Labour market policy and poverty: identifying and modelling the pathways to the poor.
Supervised by Professor M. Leibbrandt and Associate Professor L. Edwards.

R. SEW (HUMAN INFORMATION SYSTEMS)

Toward a regional ontology for information systems project management.
Supervised by Professor D. Smith and Professor J.D. Roode.

S. SHWAYI (GRADUATE SCHOOL OF BUSINESS)

Application of lean management in the provision of textbooks to Eastern Cape public schools.
Supervised by Professor T. Koelble.

M. S. VON BLOTTHNER (ACCOUNTING)

Dysfunctional market or insufficient creditworthiness? An exploration of financial constraints experienced by small, medium and micro enterprises in South Africa.
Supervised by Professor E. Uliana.

J. B. WEST (ACCOUNTING)

The taxation of international (non-resident) sportspersons in South Africa - a critical analysis of the relevance of the OECD Model article 17 in Double Tax Agreements from a South African perspective and the misalignment of this article in South African DTAs (in force at 1 June 2008) when compared against the final withholding tax on the gross earnings of non-resident sportspersons performing in South Africa.
Supervised by Associate Professor J. Roelveland and Professor P. Surtees.

Research Output

DEPARTMENT OF ACCOUNTING

AUTHORED BOOKS

JOOSTE, R.D., YERKS, I., EVERINGHAM, D.R. AND DE LA HARPE, R. 2009. *Commentary on the Companies Act: Revision Service 6 of 2009*. 458pp. Durban: Lexis Nexis Butterworths. ISBN 0702155837.

TYLER, J. AND CHIVANGA, B. 2009. *Using Real Options to Value the Impact of Climate Change: A Case of Sappi, A South African Pulp & Paper Company*. Köln, Germany: Lambert Academic Publishers. 114pp. ISBN 9783838308753.

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WAWERU, M., ULIANA, E. AND ULIANA, E. 2009. Executive compensation schemes in the banking industry: a comparative study between a developed country and an emerging economy. *Academy of Accounting and Financial Studies Journal (AAFSJ)*, 13(2): 19-33.

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WINFIELD, J.H. 2009. Value-added. *Accountancy SA*, August 2009: 36.

Research Output

PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS

FERRELL, L. AND WATKINS, P. 2009. The use of spreadsheet modelling in the teaching of corporate finance. In K. Fernstrom (Ed.), *Proceedings of the International Conference on Information Technologies in Education (ICITE)*, 9-11 July 2009, Corfu, Greece. Canada: University of the Fraser Valley Press. ISBN 9781895802423.

KIRW, J. AND HUGHES, S.J. 2009. Internet usage in lower-end SMEs in South Africa. In P.A. van Brokel (Ed.), *Proceedings of the 11th Annual Conference on World Wide Web Applications*, 2-4 September 2009, Port Elizabeth. Cape Town: Cape Peninsula University of Technology. ISBN 9780620452151.

KIRW, J., HUGHES, S. AND REPPENHART, M.D. 2009. An exploratory study of youth and entrepreneurship in South Africa. *Proceedings of the 32nd Institute for Small Business & Entrepreneurship Conference*, 3 - 6 November 2009, Liverpool, UK. ISBN 978900862165. [Online]. www.isbe.org.uk.

KOLEVENKO, J.I. AND WENG, L. 2009. Do tax residents of the People's Republic of China need to fear investing in "immovable property" in South Africa - an analysis of the DTA and withholdings tax effects. In L. Xiang (Ed.), *Proceedings of the China International Academic Seminar of Universities*, October 2008, Beijing, China. Beijing, China: Huaxia-Hull Research Centre for International education. ISBN 9787811324235.

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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))

AUTHORED BOOKS

ROSE, R.A. AND KIMMATE, H. 2009. *The Oxford Handbook of Philosophy of Economics*. 670pp. New York: Oxford University Press. ISBN 9780195189254.

CHAPTERS IN BOOKS

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FERRELL, L.W. 2009. Capital formation in South Africa. In J. Aron, B. Kahn and G. Kingdon (Eds.), *South African Economic Policy under Democracy*, pp. 182-210. Oxford: Oxford University Press. ISBN 9780199551460.

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UNIT TO RUN NATIONAL STUDY ON HOUSEHOLDS

UCT's Southern Africa Labour and Development Research Unit (SALDRU) secured the tender to conduct the second wave of the National Income Dynamics Study (NIDS), the first national household panel study in South Africa. This follows SALDRU's completion of the first wave of NIDS, a three-year project of the South African Presidency, which ended in March 2009. NIDS is an intensive, multi-million rand project to track more than 28 000 people over several years. This will provide a unique insight into who is getting ahead and who is falling behind, and the reasons for these dynamic changes. Such understanding is central to the project of social upliftment in South Africa. The NIDS project director in the Presidency, Mastroera Sadan, visited SALDRU to finalise the Wave 2 contract. "South Africa is undergoing rapid transition, and while the country had made considerable progress in understanding social change, the NIDS Wave 2 will further contribute to the government's understanding of the rapidly changing dynamics in society," said Sadan. "Hopefully, we can use this next wave to further strengthen our capacity for survey work at UCT," said SALDRU director, Professor Murray Leibbrandt.



Minister Trevor Manuel (back row, 3rd from right), pictured with the NIDS team and SALDRU Director Prof. Murray Leibbrandt (back row, 2nd from right), at the release of the NIDS data to the public in July 2009.

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Research Output

GRADUATE SCHOOL OF BUSINESS

AUTHORED BOOKS

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DEPARTMENT OF INFORMATION SYSTEMS

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TOP AWARD FOR BUSINESS-SCHOOL EDUCATOR

Professor Kurt April of UCT's Graduate School of Business (GSB) added another award to his growing list of accolades when he was named as one of the world's Top 100 Educators for 2009 by the International Biographical Centre in Cambridge, UK. The awards recognise eminent professionals within the field of education who "have made a significant enough contribution in their field to engender influence on a local, national or international basis". In addition to his role as Professor of Leadership, Diversity and Inclusion at the GSB, April is also a research fellow at Ashridge in the UK, an associate fellow at the University of Oxford's Said Business School, and a member of the Learning Resource Network at Duke University in the US. At the UCT GSB, Professor April's personal research interest is in the broad area of human dynamics, with a specific focus on personal and organisational leadership, organisational psychology, personal psychology, diversity, inclusive workplaces and cross-cultural management.



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TOP AWARD FOR INFORMATION SYSTEMS RESEARCHER

Professor Michael Kyobe, from the Department of Information Systems, won an award at the Emerald Literati Network Awards for Excellence 2009 for his paper *The influence of strategy-making types on IT alignment in SMEs*. It was published in the *Journal of Systems and Information Technology* and was selected by the journal's editorial team as one of three highly commended papers in the past year. The purpose of his paper was to evaluate and compare the influence of three strategy-making modes (planned, adaptive and entrepreneurial) on IT-business strategy alignment in SMEs. He found that the planned mode provided better results than predicted as it provided better understanding of business and IT objectives and higher growth in sales. The adaptive mode, however, encouraged participation of stakeholders in planning and improved communication and staff productivity while the entrepreneurial mode facilitated immediate revision of plans in organisations operating in a dynamic and competitive environment. This was the first attempt to investigate the relationship between strategy-making practices and IT alignment in South African SMEs. Emerald is the world's leading publisher of management research.



Prof. Kyobe, seen here speaking to scholars on Open Day.

SCHOOL OF MANAGEMENT STUDIES

(INCLUDING THE CENTRE FOR ACTUARIAL RESEARCH (CARE))

AUTHORED BOOKS

VAN ASWEGEN, S., BOTHA, S., ALEXANDER, E., LOTZ, G., MARKHAM, L., MEYER, W., O'NEILL, C. AND SCHLECHTER, A.F. 2009. *Human Resource Management: Fresh Perspectives*. 352pp. Cape Town, South Africa: Pearson Education Prentice Hall. ISBN 9781770256064.

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AND DEVELOPMENT STUDIES UNIT
DEAN'S OFFICE



"An overview of CHED's research output points to a body of scholarship which is responsive to pressing national and institutional needs in higher education."





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 Higher Education and Training or the Higher Education Quality Committee).

An overview of CHED's research output points to a body of scholarship which is responsive to pressing national and institutional needs in higher education. Examples include research into the interface between schooling and higher education and issues of access, selection and placement;

improving the quality of teaching and learning in discipline-specific contexts such as Mathematics, Chemistry, Physics and Information Systems; the role of tertiary educators in a changing higher education landscape; and the challenges and possibilities of Information and Communication Technology for teaching and learning. CHED contributes to national debate on these issues, among many, through a strong presence in South African journals (e.g. *South African Journal of Higher Education*, *Southern Africa Linguistics and Applied Language Studies*, *South African Computer Journal*, *South African Journal of Libraries and Information Science*). CHED's contribution extends internationally as CHED staff are now consistently publishing in the leading journals in higher education (e.g. *Teaching in Higher Education*, *Higher Education*, *British Education Research Journal*) as well as leading journals in specialist areas (e.g. *Journal of Applied Linguistics*, *American Journal of Physics*, *British Journal of Educational Technology*). This illustrative sample of journals in which CHED staff publish also points to the multidisciplinary nature of CHED's collective research output.

With respect to the achievements of 2009, consistent with UCT's overall pattern, CHED's level of research output has continued to increase. Highlights for the year include the publication of two special editions in leading international journals which were co-edited by CHED staff and include several papers by UCT authors. In addition to its existing five NRF-rated researchers, 2009 saw the addition of three new NRF-rated researchers. As CHED's level of research activity and output continues to increase, 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

NATIONAL BENCHMARK TESTS CAUSE A STIR

From the moment the results from the pilot National Benchmark Tests (NBT) were announced, they caused a few flutters among universities. After all, the test, conducted with just over 11 500 first-time-entering students at seven South African universities in February 2009, showed that about half would need some sort of academic support if they were to complete their studies. This came as no surprise, however, since several studies have shown that only about half the students entering higher education leave with a qualification. As 2009's first-year university students are the first graduates from South African schools' new outcomes-based education (OBE) curriculum, the dots from the NBT results were quickly connected to the OBE's National Senior Certificate qualification. Perhaps too quickly, suggested Prof Nan Yeld, dean of the Centre for Higher Education and head of the NBT study, who noted that the school system as a whole is still in poor repair. "The NBT, actually, was not meant to say much about what's happening at schools," said Yeld. "What it is trying to do is create a uniform set of instruments so that higher education institutions will know more about what they need to do."



ACADEMIC DEVELOPMENT PROGRAMME

CHAPTERS IN BOOKS

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DAVIDOWITZ, B. AND CHITTLEBOROUGH, G. 2009. Linking the macroscopic and sub-microscopic levels: diagrams. In J.K. Gilbert and D. Treagust (Eds.), *Multiple Representations in Chemical Education*, pp. 169-191. Dordrecht: Springer Science & Business Media B.V. ISBN 9781402088711.07021 5583 7.

SCOTT, I.R. 2009. Academic development in South African higher education. In E. Bitzer (Ed.), *Higher Education in South Africa: A Scholarly Look Behind the Scene*, pp. 21-49. South Africa: SUN Media Stellenbosch. ISBN 9781920338145.

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CENTRE FOR EDUCATIONAL TECHNOLOGY

CHAPTERS IN BOOKS

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CENTRE FOR INFORMATION LITERACY

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DEAN, C. AND DE JAGER, C. 2009. Statistics for electronic resources. *South African Journal of Libraries and Information Science*, 75: 76-85.

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MUKENI, W. AND NASSIMBENI, M. 2009. The effectiveness of teacher librarians in primary schools: the experience of the Melani School Libraries in the Eastern Cape. *Mousaion*, 26: 1-21.

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NASSIMBENI, M. 2009. Report of the "Train the Trainers in Information Literacy" Workshop Hosted by the Centre for Information Literacy, University of Cape Town, Republic of South Africa, 4-6 October 2008. *International Library Review*, 41: 262-267.

STUDENTS DIAL INTO EDUCATION NETWORK

The cellphone, it turns out not surprisingly, is the South African student's most prized electronic gizmo. This according to a six-year-old study on the access to and use of ICTs for teaching and learning in higher education institutions, conducted by Assoc Prof Laura Czerniewicz, Cheryl Brown and a small team of assistants at UCT's Centre for Higher Education Development. The project kicked off with a baseline survey among staff and students in the Western Cape in 2004, which showed that the uptake of ICTs was poor. By a second-phase study in 2007, extended to six additional institutions around the country, the situation had improved markedly. Although, the research found, it's the omnipresent cellphone rather than the PC – that could be an economic issue – that rules the technological roost. But mobile or Mac, most ICT use among students is of the no-frills kind, largely for surfing the Internet or writing essays, revealed a more intimate third-phase survey, run in 2009. Only among small pockets of students is ICT used more innovatively. While the study made a point of not naming universities, it divided institutions into two groups. So while Corporate Structured Institutions implemented sufficient policy, they did not encourage innovation or variety of use. On the other hand, the more relaxed Structured Collegial Institutions do inspire innovation, but uptake and technical support are long-term challenges.



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SMITH, J.G. AND ONDARI-KWEMWA, E.O.K. 2009. The role of knowledge management in enhancing government service-delivery in Kenya. *South African Journal of Libraries and Information Science*, 75: 28-39.

UNDERWOOD, P.G. 2009. Diffusion of professional norms: the impact of IFLA in South Africa. *IFLA Journal: Official Journal of the International Federation of Library Associations and Institutions*, 35: 131-140.

UNDERWOOD, P.G. 2009. Supporting the information needs of entrepreneurs in South Africa. *International Library Review*, 58: 569-580.

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CENTRE FOR OPEN LEARNING

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FISKE, I.J. (WRITING AS DE KOK) 2009. Pilgrimage. In Floor Houben (Ed.), *Ze kwamen om een dichter te zien*, pp. 478-480. Netherlands: Wagner en Van Santen en Stichting Poetry International.

FISKE, I.J. (WRITING AS DE KOK) 2009. Poem in Norwegian English Language Teaching Program. Cape Town: New Passport. [Online] <http://www.kunnskap.no>.

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HIGHER AND ADULT EDUCATION STUDIES AND DEVELOPMENT UNIT

EDITED BOOKS

COOPER, L.H. AND WALTERS, S. (EDS.) 2009. *Learning/Work: Turning Work and Lifelong Learning Inside Out*. 378pp. Cape Town: HSRC Press. ISBN 9780796922830.

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DEAN'S OFFICE

ARTICLES IN PEER-REVIEWED JOURNALS

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Science

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ELECTRON MICROSCOPE UNIT

DEPARTMENT OF ENVIRONMENTAL AND
GEOGRAPHICAL SCIENCE

DEPARTMENT OF GEOLOGICAL SCIENCES

DEPARTMENT OF MATHEMATICS AND
APPLIED MATHEMATICS

DEPARTMENT OF MOLECULAR AND
CELL BIOLOGY

DEPARTMENT OF OCEANOGRAPHY

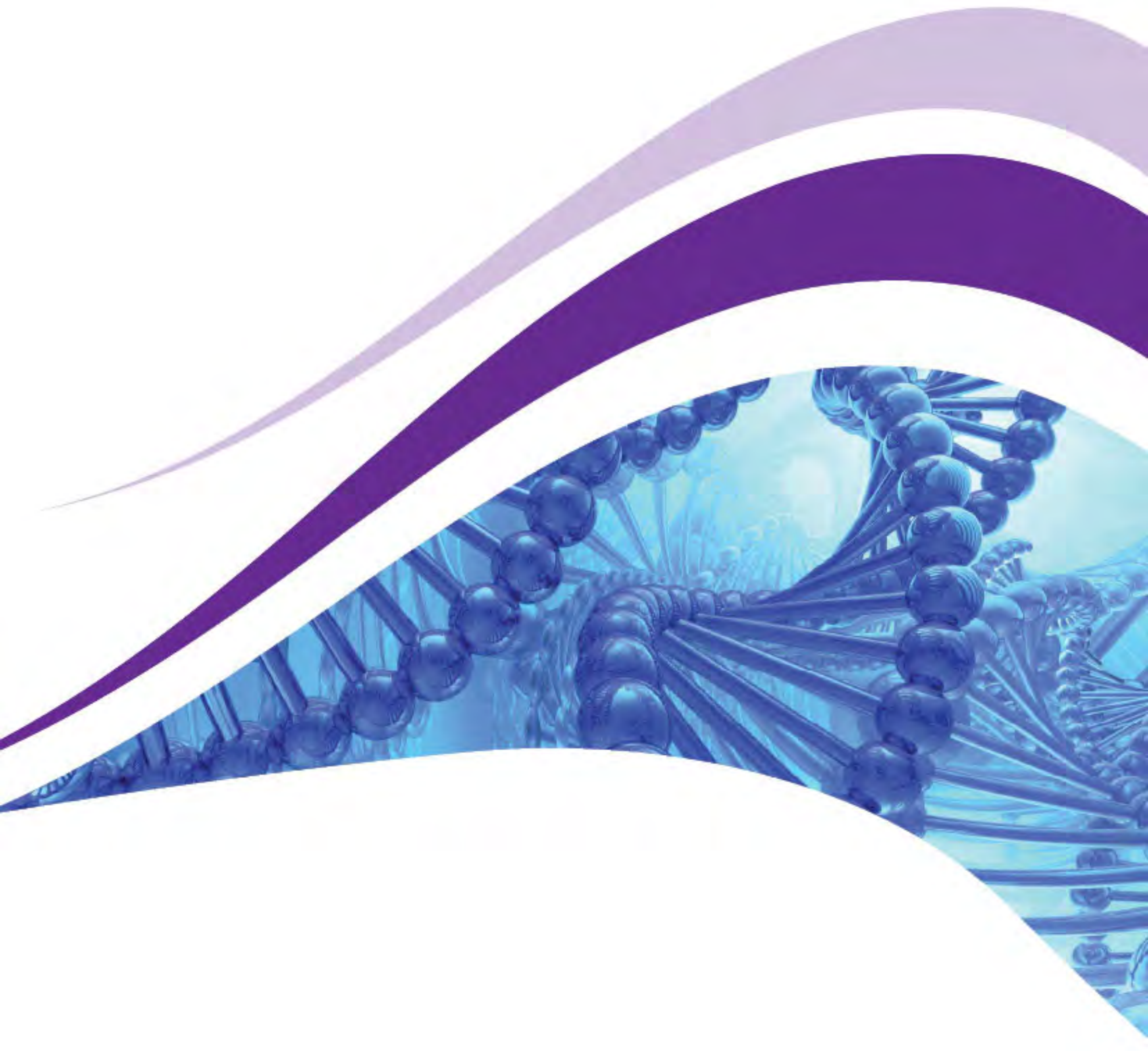
DEPARTMENT OF PHYSICS

DEPARTMENT OF STATISTICAL SCIENCES

DEPARTMENT OF ZOOLOGY



"A notable research achievement was our record number of PhD graduates in the Science Faculty with 67 doctorates being awarded in 2009."





Dean's Report

A notable research achievement was our record number of PhD graduates in the Science Faculty with 67 doctorates being awarded in 2009. This number has increased from 35 in 2006, 44 in 2007 and 47 in 2008 and reflects modest growth in doctoral degree enrolments alongside a significant reduction in the average number of years taken by students to complete the degree. Postgraduate funding awards to honours, master's and doctoral science students amounted to over R32 million in 2009.

Our focus on quality research activities gathered further momentum with citation and impact measures showing a sharp rise. Among our academic staff, 129 currently hold a rating from the National Research Foundation, with 64 of our scientists being in the A or B category. The six chairholders in the Science Faculty, funded by the DST/NRF South African Research Chairs Initiative, provide additional capacity for supervising postgraduate students and hosting postdoctoral fellows, two areas in which we seek further growth as a Faculty, and where we made good progress in 2009. Our number of Postdoctoral Research Fellows has grown to 97 in 2009 with funding of more than R13 million. The recently awarded Square Kilometre Array Chair in Extragalactic Multi-Wavelength Astronomy will further augment this capacity-building activity and will be based in the Department of Astronomy at UCT. The Chair is one of five new SARCHI Chairs dedicated to the South African Square Kilometre Array (SKA) project.

Our academic colleagues were awarded several honours and prizes during 2009. Emeritus Professors Brian Warner (Astronomy) and George Ellis (Mathematics and Applied Mathematics) were honoured with honorary doctorates by UCT and Professor Warner was also elected a fellow of University College London. Professor Johann Lutjeharms (Oceanography)

was awarded the Order of Mapungubwe: Silver by the President of South Africa for his lifetime contribution to the understanding of the Agulhas Current and the role it plays in the earth's climate. Professor Jill Farrant (Molecular and Cell Biology), the first female A-rated natural scientist at UCT, was runner-up in the Distinguished Woman Scientist category at the Department of Science and Technology (DST) South African Women in Science Awards. Professor Farrant was acknowledged for her research on resurrection plants. Professor Mino Caira (Chemistry) was awarded the South African Chemical Institute's Gold Medal for 2009 for his research on altering the physical properties of medicinal compounds to improve their performance as therapeutic agents. Professor Linda Haines (Statistical Sciences) won the 2009 Sichel Medal for the best paper by a South African author in a statistical journal. Dr Amanda Weltman (Mathematics and Applied Mathematics), co-author of two papers proposing the chameleon mechanism – an exciting new topic in theoretical cosmology – won the DST's Best Emerging Scientist award at the South African Women in Science Awards. Professors Kelly Chibale (Chemistry), Susan Bourne (Chemistry) and Jill Farrant were elected as Fellows of the University of Cape Town.

Our postgraduate students earned national and international acclaim for the quality of their work. Renee Hlozek (Astronomy) won the South African Association for the Advancement of Science medal for original research at master's level for her work on dark energy. Three postgraduate physics students, Wale Solana, Batsirai Magunje and Stanley Walton, scooped applied physics prizes at the Conference of the South African Institute of Physics (SAIP). The trio won for their work on an Innovation Fund project to develop novel printed silicon electronics. Chris Barnett (Chemistry) was awarded a SASOL Postgraduate Medal for 2009. At the 2009 Zoological Society of SA Conference, Alta de Vos, Tali Hoffman, Caitlin

Smith, Mathew Lewis and Owen Davies won prizes for their presentations. At the Operational Research Society of South Africa Conference, Dieudonne Kabongo Kantu and Tim Blake (Statistical Sciences) won prizes for their presentations. Sandra Jasinowski (Zoology) won the Young Investigator Award at the International Biomechanics Conference. Mmoto Mabuselele (Botany) won a prize for the best poster at the Savanna Science Network Meeting. Mark Cyrus (Zoology) won the best student presentation award at a Conference of the Aquaculture Association of Southern Africa.

The Centre for Astrophysics, Cosmology and Gravitation was accredited by the University Research Committee and will provide an inter-departmental meeting point for joint research. The Faculty's researchers attracted significant external funding for their projects. Professor Kelly Chibale, whose group

is using plants to find novel compounds for antimalarial drugs, received a R3.6 million grant from the Medicines for Malaria Venture. The Hasso Plattner Institute in Germany funded the development and launch of the UCT Information Communication Technologies for Development Centre (ICT4D). The Nature Conservation Corporation has sponsored 15 computers for Conservation Biology master's students at UCT's FitzPatrick Institute of African Ornithology.

The Faculty of Science has several exciting research projects that have attracted Vice-Chancellor's Strategic Funding and will get under-way in 2010.

Professor Kathy Driver
Dean of the Faculty of Science

Doctoral Graduations

K. ABDALLA (MOLECULAR AND CELL BIOLOGY)

*Analysis of the nuclear proteome of the resurrection plant *Xerophyta viscosa* (Baker) and its response to dehydration stress.*

Supervised by Dr M.S. Rofudeen.

A.A. AL-FARSI (BOTANY)

*Molecular, morphological and biogeographic studies of the stapeliads with emphasis on the genus *Caralluma* s.l. (Apocynaceae-Asclepiadoideae).*

Supervised by Professor T. Hedderson and Dr P. Bruyns.

M.S. ANDERSON (ARCHAEOLOGY)

The Historical Archaeology of Morothodi: towards an understanding of space, identity and the organisation of production at an early 19th century Tswana Capital in the Pilansberg region of South Africa.

Supervised by Dr S. Hall.

C. AVENANT (MOLECULAR AND CELL BIOLOGY)

Molecular mechanism of action of the glucocorticoid receptor: role of ligand-dependent receptor phosphorylation and half-life in determination of ligand-specific transcriptional activity.

Supervised by Professor J.P. Hapgood.

Z. BAGAI (GEOLOGICAL SCIENCES)

Geodynamic evolution and petrogenesis of the Neoproterozoic Franciscan Granite-Greenstone Complex in NE Botswana, SW Margin of the Zimbabwe craton.

Supervised by Professor A. le Roex, Professor M. de Wit and Professor H. Kampunzu.

J.K. BALIKUDEMBE (COMPUTER SCIENCE)

Managing economic value and uncertainty on software projects: an empirical study using the CASSE Framework.

Supervised by Dr A. Bagula.

N.G. BERGH (BOTANY)

Systematics of the Relbunioideae (Asteraceae-Gnaphalieae) in Southern Africa: geography and evolution in an endemic Cape plant lineage.

Supervised by Professor T.A. Hedderson, Professor W.J. Bond and Professor H.P. Linder.

D. BERLINER (BOTANY)

Systematic conservation planning for South Africa's forest biome: an assessment of the conservation status of South Africa's forest and recommendations for conservation.

Supervised by Professor J.J. Midgley and Professor R. Cowling.

P.L. BRADSHAW (BOTANY)

Endemism and richness in the Cape Floristic Region: phytogeographic patterns and environmental correlates in a global biodiversity hotspot.

Supervised by Professor P. Linder and Professor T. Hedderson.

N.B. BUNGANE (CHEMISTRY)

Studies of the effects of various lithogenic and anti-lithogenic dietary supplements on calcium oxalate kidney stone risk factors in South African black and white subjects.

Supervised by A. Rodgers.

N. CHANG (OCEANOGRAPHY)

Numerical ocean model study of the Agulhas Bank and the Cool Ridge.

Supervised by Professor F.A. Shillington and Dr P. Penven.

M.E. CLIVER (ASTRONOMY)

The nature and nurture of a starburst supermassive HI Galaxy, HIZOA J0836-43.

Supervised by Professor R.C. Kraan-Korteweg, Associate Professor P.A. Woudt and Dr T. Jarrett.

J.F. COLVILLE (ZOOLOGY)

Understanding the evolutionary radiation of the megadiverse monkey beetle fauna (Scarabaeidae: Hapliini) of South Africa.

Supervised by Dr M. Picker and Professor R. Cowling.

C.N. CUPIDO (BOTANY)

Systematic studies of the South African Campanulaceae sensu stricto with an emphasis on generic delimitations.

Supervised by Professor T. Hedderson.

A. DARAGHMA (ENVIRONMENTAL AND GEOGRAPHICAL)

Constructions of nature and environmental justice in Driftsands Nature Reserve, South Africa.

Supervised by Associate Professor M. Ramutsindela.

R.T. DE ROO (BOTANY)

The molecular systematics of the liverwort family Lophaziaceae covers.

Supervised by Professor T. Hedderson.

B. DE SWARDT (ASTRONOMY)

The structure, stellar content and dynamics of dwarf galaxies in the local volume.

Supervised by Professor R.C. Kraan-Korteweg and Dr H. Jerjen.

L.E. DONALDSON (MOLECULAR AND CELL BIOLOGY)

*An investigation of the role of *Arabidopsis thaliana* plant natriuretic peptide in plants.*

Supervised by Dr R. Ingle.

T. FENG (CHEMISTRY)

Single and hybrid antimalarials based on artemisinin, chloroquine and β -lactams: synthesis, antiparasitic activity, cytotoxicity and effect of selected artemisinin-chloroquine hybrids on the parasitic endocytosis pathway.

Supervised by Professor K. Chibale.

C.E.D. GRAY (ENVIRONMENTAL AND GEOGRAPHICAL SCIENCE)

Characterising the Namaqualand mudbelt: chronology, palynology and palaeoenvironments.

Supervised by Professor M.E. Meadows and Professor J. Lee-Thorpe.

F.N. GUMEDZE (STATISTICAL SCIENCES)

A variance shift model for outlier detection and estimation in linear and linear mixed models.

Supervised by Professor T. Dunne, Associate Professor C. Thiarf, Professor R. Thompson and Dr S. Welham.

R.H. HANS (CHEMISTRY)

Novel antimalarial and antitubercular agents based on natural products.

Supervised by Professor K. Chibale.

C.T. HERBERT (GEOLOGICAL SCIENCES)

Holocene sediment dynamics on the western margin of South Africa.

Supervised by Professor J.S. Compton and Dr J. Rogers.

M.S. HERBERT (PHYSICS)

Determination of neutron energy spectra inside a water phantom irradiated by neutrons of energy up to 64 ~ MeV.

Supervised by Associate Professor M.S. Allie.

C. HULTQUIST (COMPUTER SCIENCE)

An adjectival interface for procedural content generation.

Supervised by Dr J. Gain and Dr D. Cairns.

B.B. IBRAHIM (PHYSICS)

Model-based teaching and learning of kinematics in an introductory physics course for underprepared students.

Supervised by Associate Professor A. Buffler and Professor F.E. Lubben.

L.M. INNES (ENVIRONMENTAL AND GEOGRAPHICAL)

Development and evaluation of a self-instruction method for analysing spatial information.

Supervised by Professor M.E. Meadows.

T. JANELIDZE (MATHEMATICS AND APPLIED MATHEMATICS)

Foundation of relative non-abelian homological algebra.

Supervised by Professor H.-P. Kunzi, Professor G. Janelidze and Professor W. Tholen.

J. KELLEHER (COMPUTER SCIENCE)

New models and patterns for traceability.

Supervised by Associate Professor G. Marsden.

A.L. KIJAZI (OCEANOGRAPHY)

An analysis of recent severe climate events over Tanzania.

Supervised by Professor C.J.C. Reason.

Doctoral Graduations

A. KOTITSCHKE (MOLECULAR AND CELL BIOLOGY)

Genomic and non-genomic cross talk between the gonadotropin-releasing hormone receptor and glucocorticoid receptor signalling pathways.

Supervised by Professor J. Hapgood.

H. LU (MATHEMATICS AND APPLIED MATHEMATICS)

Non-linear effects in the universe.

Supervised by Dr C. Clarkson.

A. B. MAKHADO (ZOOLOGY)

Investigation of the impact of fur seals on the conservation status of seabirds at islands off South Africa and at the Prince Edward Islands.

Supervised by Professor L.G. Underhill, Associate Professor R.J.M. Crawford and Professor M.N. Bester.

A.A. MAO (ZOOLOGY)

An integrated planning approach for the conservation of freshwater ecosystems in South Africa.

Supervised by Professor J. Day, Dr M. Rouget and Dr W. Thuiller.

A.F. MAVUME (OCEANOGRAPHY)

Tropical cyclones in the South-West Indian ocean: intensity changes, oceanic interaction and impacts.

Supervised by Dr M. Rouault, Professor J.R.E. Lutjeharms and Professor L. Rydberg.

Z.E. McDONALD (MOLECULAR AND CELL BIOLOGY)

Sucrose Phosphate Synthase activity and gene expression in relation to dehydration-induced sucrose accumulation in the resurrection plant *Xerophyta humilis*.

Supervised by Professor N. Illing and Professor J. Farrant.

E. MOHAMED (CHEMISTRY)

Probing the HIV reverse-transcriptase enzyme with novel bifunctional HIV-1 RT inhibitors of the general formula (NRTI)-spacer-(NNRTI).

Supervised by Professor R. Hunter.

I. MULAKO (MOLECULAR AND CELL BIOLOGY)

Characterization of the *Xerophyta humilis* desiccation induced-1 (Xhdsi-1VOC) gene; a member of the Vicinal Oxygen Chelate (VOC) metalloenzyme superfamily upregulated in *X. humilis* (BAK) DWR and SCHINZ during desiccation.

Supervised by Professor N. Illing and Professor J. Farrant.

Z. MUSAANDJA (MATHEMATICS AND APPLIED MATHEMATICS)

A quasi-pseudometricizability problem for ordered metric spaces.

Supervised by Professor H.-P. Kunzi.

J.L. NEL (BOTANY)

Enhancing the conservation of freshwater biodiversity through improvement freshwater conservation assessment and planning techniques.

Supervised by Professor J.J. Midgley and Professor R. Cowling.

N.K. NGANDU (MOLECULAR AND CELL BIOLOGY)

Evolutionary analyses of HIV-1 protein-coding sequences: adaptation to host cytotoxic immune responses and purifying selection at synonymous sites.

Supervised by Associate Professor C. Seighe.

S. NSENGIYUMVA (PHYSICS)

The mutual influence of strain fields and point defect distributions in krypton implanted polycrystalline titanium.

Supervised by Associate Professor M. Haerting and Associate Professor D.T. Britton.

A.E. ODO (PHYSICS)

Synthesis, characterization and device application of silicon nanoparticles produced by mechanical attrition.

Supervised by Associate Professor M. Haerting and Associate Professor D.T. Britton.

E.C. OFF (ARCHAEOLOGY)

Craniofacial variation, integration, and evolutionary diversification in Baboons (*Genus Papio*).

Supervised by Associate Professor R. Ackermann.

R.O. OKOTH (MOLECULAR AND CELL BIOLOGY)

Functional analysis of the stress-inducible *XvPsp* Promoter isolated from *Xerophyta Viscosa*.

Supervised by Professor J.A. Thomson.

I.O. OSUNMAKINDE (COMPUTER SCIENCE)

Computational intelligent systems: evolving dynamic Bayesian Networks.

Supervised by Dr A. Bagula.

B.R. PAXTON (ZOOLOGY)

The influence of hydraulics, hydrology and temperature on the distribution, habitat use and recruitment of threatened cyprinids in a Western Cape river, South Africa.

Supervised by Dr J. King and Dr J. Cambrey.

S.G. RACTLIFFE (ZOOLOGY)

Disturbance and temporal variability in invertebrate assemblages in two South African rivers.

Supervised by Dr J. King and Professor J. Field.

D. RAVASI (ZOOLOGY)

Gastrointestinal parasite infections in chacma baboons (*Papio h. ursinus*) of the Cape Peninsula, South Africa: the influence of individual, troop and anthropogenic factors.

Supervised by Dr M.J. O'Riain.

Q.G. REYNOLDS (MATHEMATICS AND APPLIED MATHEMATICS)

Mathematical and computational modelling of the dynamic behaviour of direct current plasma arcs.

Supervised by Professor B.D. Reddy.

N.J. ROETZ (MOLECULAR AND CELL BIOLOGY)

Investigating genetic diversity at neutral and adaptive DNA markers in the severely bottlenecked Southern white rhinoceros (*Ceratotherium simum simum*).

Supervised by Dr C. O'Ryan and Dr J. Bishop.

V.J. SMITH (CHEMISTRY)

Complexation between cyclodextrins and phenylurea herbicides in solution and in the solid state.

Supervised by Professor M.R. Cairn and Professor S.A. Bourne.

D.M. STEVENS (ZOOLOGY)

Systematics of the *Natonomouridae* (Plecoptera) of southern Africa.

Supervised by Dr M. Picker and Dr J. Bishop.

S. SWART (OCEANOGRAPHY)

The variability and dynamics of the Antarctic Circumpolar Current south of Africa using proxy techniques.

Supervised by Dr I. Ansorge and S. Speich.

T.P. THEKA (CHEMISTRY)

Studies of genetic, gastrointestinal, renal and dietary factors in white and black South African subjects as a possible key to understanding the relative absence of calcium oxalate kidney stone disease in the black population.

Supervised by Professor A. Rodgers, Associate Professor N. Ravenscroft and Dr C. O'Ryan.

G. THERON (MOLECULAR AND CELL BIOLOGY)

L-Arginine overproduction in *Corynebacterium glutamicum* ATCC 13032.

Supervised by Associate Professor S. Reid.

M.S. TSHEHLA (MATHEMATICS AND APPLIED MATHEMATICS)

Two dimensional flow of variable viscosity fluids.

Supervised by Professor T.G. Myers.

W.D. TUCKER (COMPUTER SCIENCE)

Softbridge: a socially aware framework for communication bridges over digital divides.

Supervised by Professor E. Blake and Associate Professor G. Marsden.

A.C. VAN DOORN (ZOOLOGY)

The interface between socioecology and management of Chacma baboons (*Papio Ursinus*) in the Cape Peninsula, South Africa.

Supervised by Dr M.J. O'Riain.

H. VERMEULEN (COMPUTER SCIENCE)

Learning in a virtual world: expanding activity theory for the design and evaluation of group praxis.

Supervised by Associate Professor G. Marsden.

Doctoral Graduations

A. VON HASE (BOTANY)

The process of conserving biodiversity: from planning to evaluating conservation actions on private land in the Cape Lowlands, South Africa.

Supervised by Professor T. Hoffman, Professor R. Cowling and Dr M. Rouget.

G.V. WEBBER (CHEMISTRY)

The origin of multiple DSC melting peaks of Fischer-Tropsch hard waxes.

Supervised by Associate Professor A.T. Hutton.

Y.-H. WEI (MOLECULAR AND CELL BIOLOGY)

Dissecting the jasmonate signalling pathway in Arabidopsis thaliana.

Supervised by Dr K. Denby and Dr R. Ingle.

M. WHEELER (ZOOLOGY)

The effects of human disturbance on the seabirds and seals at sub-Antarctic Marion Island.

Supervised by Professor L.G. Underhill, Dr M. de Villiers and Professor M.N. Bester.

E.M. YELD (ZOOLOGY)

Parasite assemblages of three endemic catshark species from the West and South Coasts of South Africa.

Supervised by Professor C. Griffiths and Dr N. Smit.

Y. YOUNIS (CHEMISTRY)

Development of HI-236 as an HIV NNRTI and as a component of novel bifunctional HIV-1 RT inhibitors of the type (NRTI)-spacer-(HI-236).

Supervised by Professor R. Hunter.

PATENT APPLICATIONS

ANDERSON, K. AND HUNTER, R. *Potent Chimaeric NRTI-NNRTI Bifunctional Inhibitors of HIV-1 Reverse Transcriptase.* PCT Patent Application PCT PCT/US09/02226.

BLACKBURN, J.M., KUMUTHINI, J., SERUFURI, I.S., SHOKO, A. AND VAN DYK, R. *Cancer Screening Method.* National Phase Patent Application South Africa 2009/5150.

BRITTON, D.T. AND HAERTING, M. *Method of Producing Stable Oxygen Terminated Semiconducting Nanoparticles.* PCT Patent Application PCT PCT/IB2009/051507.

BRITTON, D.T., HAERTING, M. AND ODO, A. *Inkjet Printing of Nanoparticulate Functional Inks.* PCT Patent Application PCT PCT/IB2009/052317.

EGAN, T.J., HUNTER, R. AND ZISHJRI, V.K. *Quinoline Antimalarials Containing a Chloroquine Resistance Reversing Dibemethin Group.* PCT Patent Application PCT PCT/IB2009/053578.

GAMMON, D.W., LE ROES, M. AND MEYERS, P. *Streptomycete and Bioactive Compound Produced Thereby.* National Phase Patent Application China 200780031851.0.

GAMMON, D.W., LE ROES, M. AND MEYERS, P. *Streptomycete and Bioactive Compound Produced Thereby.* National Phase Patent Application India 626/DELNP/2009.

GAMMON, D.W., LE ROES, M. AND MEYERS, P. *Streptomycete and Bioactive Compound Produced Thereby.* National Phase Patent Application South Africa 2009/00598.

HITZEROTH, I.J. AND RYBICKI, E.P. *Method for Enhancing the Expression of HPV LT.* Provisional Patent Application South Africa ZA PPA2009/09148.

HOANG, D.B.I. AND LE, H. *Wireless Sensor Network Model.* PCT Patent Application PCT PCT/IB2009/000506.

HUNTER, R., KASCHULA, C. AND PARKER, I. *Compounds Useful for the Inhibition of the Growth of Tumour Cells.* PCT Patent Application PCT PCT/IB2009/053399.

ILLING, N., STEIN, D.J. AND VAN HEERDEN, J.H. *A Gene Expression Method for Evaluating a Psychiatric State.* Provisional Patent Application South Africa 2009/01221.

Patents

GRANTED PATENTS

BRITTON, D.T. AND HAERTING, M. *Doping of Particulate Semiconductor Materials.* National Phase Patent South Africa 2008/01815.

CHIBALE, K., GREENBAUM, D.C. AND MCKERROW, J.H. *Anti-Parasite Compounds and Methods of Their Use.* National Phase Patent South Africa 2006/07582.

CHIBALE, K., NCHINDA, A.T. AND STURROCK, E.D. *Angiotensin I-Converting Enzyme (ACE) Inhibitors.* National Phase Patent South Africa 2007/10879.

HALSEY, R.J., RYBICKI, E.P., TANZER, F.L. AND WILLIAMSON, A.-L. *Chimaeric HIV-1 Subtype C GAG-Virus-Like Particles.* National Phase Patent South Africa 2008/03883.

RYBICKI, E.P. AND TANZER, F.L. *Expression System Incorporating a Capsid Promoter Sequence as an Enhancer of a Cytomegalovirus Promoter.* National Phase Patent South Africa 2008/03928.

RYBICKI, E.P. AND VARSANI, A. *Chimaeric Human Papillomavirus 16 LT Virus Like Particles and a Method for Preparing the Particles.* National Phase Patent Australia 2003232951.

RYBICKI, E.P. AND VARSANI, A. *Chimaeric Human Papillomavirus 16 LT Virus Like Particles and a Method for Preparing the Particles.* National Phase Patent Europe 1506222.

DEPARTMENT OF ARCHAEOLOGY

CHAPTERS IN BOOKS

BRAUN, D.R. AND HOVERS, E. 2009. Introduction: current issues in Oldowan research. In E. Hovers and D.R. Braun (Eds.), *Interdisciplinary Approaches to the Oldwan*, pp. 1-14. Netherlands: Springer Verlag. ISBN 9781402090592.

BRAUN, D.R., PLUMMER, T., DITCHFIELD, P., BISHOP, L. AND FERRARO, J. 2009. Oldowan technology and raw material variability at Kanjera South. In E. Hovers and D.R. Braun (Eds.), *Interdisciplinary Approaches to the Oldwan*, pp. 99-110. Netherlands: Springer Verlag. ISBN 9781402090592.

PARKINGTON, J.E. 2009. Limpet sizes in Stone Age archaeological contexts at the Cape, South Africa: changing environment or human impact? In A. Antczak and R. Cipriani (Eds.), *Early Human Impact on Megamolluscs*, pp. 175-184. Oxford: Archaeopress. ISBN 9781407303482.

PLUMMER, T., BISHOP, L., DITCHFIELD, P., FERRARO, J., KINGSTON, J., HERTEL, F. AND BRAUN, D.R. 2009. The environmental context of Oldowan hominin activities at Kanjera South, Kenya. In E. Hovers and D.R. Braun (Eds.), *Interdisciplinary Approaches to the Oldwan*, pp. 149-160. Netherlands: Springer Verlag. ISBN 9781402090592.

VAN DER MERWE, N.J. 2009. Isotopic ecology and diets of fossil fauna from the T-1 (Type section, Maritanone) palaeosurface. In M. Dominguez-Rodrigo, L. Alcal and L. Luque (Eds.), *Pemini: A Research Project on Human Origins 1995-2005*, pp. 109-114. Cambridge, United States of America: Oxbow Books. ISBN 9781842173824.

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ARCHER, W. AND BRAUN, D.R. 2009. Variability in bifacial technology at Elandsfontein, Western Cape, South Africa: a geometric morphometric approach. *Journal of Archaeological Science*, 37(1): 201-209.

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BOEYENS, J. AND HALL, S.L. 2009. Tlokwa oral traditions and the interface between history and archaeology at Marothodi. *South African Historical Journal*, 63: 3-27.

BRAUN, D.R., HARRIS, J. AND MAINA, M. 2009. Oldowan raw material procurement and use: evidence from the Koobi Fora Formation. *Archaeometry*, 51: 26-42.

BRAUN, D.R., PLUMMER, T., FERRARO, J., DITCHFIELD, P. AND BISHOP, L. 2009. Raw material quality and Oldowan hominin toolstone preferences: evidence from Kanjera South, Kenya. *Journal of Archaeological Science*, 36: 1605-1614.

BROWN, K., MAREAN, C., HERRIES, A., JACOBS, Z., TRIBOLO, C., BRAUN, D.R., ROBERTS, D.L., MEYER, M. AND BERNATCHEZ, J. 2009. Fire as an engineering tool of early modern humans. *Science*, 325: 859-862.

CHASE, B.M., MEADOWS, M.E., SCOTT, L., THOMAS, D., NARAIS, E., SEALY, J.C. AND REIMER, P.J. 2009. A record of rapid Holocene climate change preserved in hyrax middens from southwestern Africa. *Geology*, 37(8): 703-706.

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CODRON, D., CODRON, J., LEE-THORP, J., SPONHEIMER, M., GRANT, C. AND BRINK, J. 2009. Stable isotope evidence for nutritional stress, competition, and loss of functional habitat as factors limiting recovery of rare antelope in southern Africa. *Journal of Arid Environments*, 73: 449-457.

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JERARDINO, A., DEWAR, G. AND NAVARRO, R.A. 2009. Opportunistic subsistence strategies among Late Holocene coastal hunter-gatherers, Elands Bay, South Africa. *Journal of Island & Coastal Archaeology*, 4: 37-60.

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MORRIS, D., HUMPHREYS, A. AND MILLER, D.E. 2009. On the review by Carmel Schrire of Julia Martin's *A Millimetre of Dust: visiting ancestral sites*. *South African Archaeological Bulletin*, 64(190): 196.

NEESER, R., ACKERMANN, R. AND GAIN, J.E. 2009. Comparing the accuracy and precision of three techniques used for estimating missing landmarks when reconstructing fossil hominin crania. *American Journal of Physical Anthropology*, 140: 1-18.

NWEEIA, M.T., THACKERAY, F., EICHMILLER, F., RICHARD, F., LANHAM, J.L. AND NEWTON, I. 2008. A note on isotopic analysis of sectioned tusks of the narwhal *Monodon monoceros* and tusk growth rates. *Annals of the Transvaal Museum*, 45: 138-142.

ORTON, J. 2009. Rescue excavations at Diaz Street Midden, Saldanha Bay, South Africa. *Azania: Archaeological Research in Africa*, 44(1): 107-120.

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PARKINGTON, J.E. 2009. Rethinking Shellfish Measurements: How do we understand limpet sizes? A comment on Jerardino, Horwitz, Mazel and Navarro 'Just before Van Riebeeck'. *South African Archaeological Bulletin*, 64(190): 195-196.

PARKINGTON, J.E., FISHER, J. AND TONNER, T.W.W. 2009. "The fires are constant, the shelters are whims": A feature map of Later Stone Age campsites at the Dunefield Midden site, Western Cape Province, South Africa. *South African Archaeological Bulletin*, 64(190): 104-121.

PFEIFFER, S. 2009. The incorporation of bioarchaeology into Khoesan studies. *South African Archaeological Bulletin*, 64(190): 193-195.

PLUMMER, T., DITCHFIELD, P., BISHOP, L., KINGSTON, J., FERRARO, J., BRAUN, D.R., HERTEL, F. AND POTTS, R. 2009. Oldest evidence of toolmaking hominin in a grassland-dominated ecosystem. *PLoS One*, 4(9): e7199. doi:10.1371/journal.pone.0007199

Research Output

RUTHER, H., CHAZAN, M., SCHROEDER, R., NEESER, R., HELD, C.O., WALKER, S., MATMON, A. AND HORWITZ, L. 2009. Laser scanning for conservation and research of African cultural heritage sites: the case study of Wonderwerk Cave, South Africa. *Journal of Archaeological Science*, 36: 1847-1856.

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SITHALDEEN, R., BISHOP, J. AND ACKERMANN, R. 2009. Mitochondrial DNA analysis reveals Plio-Pleistocene diversification within the chacma baboon. *Molecular Phylogenetics and Evolution*, 53: 1042-1048.

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SMITH, A.B. 2009. The hegemony of the Neolithic: or what we have lost by becoming food producers. *South African Archaeological Bulletin*, 64(190): 100-103.

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STYNDER, D.D., BROCK, F., SEALY, J.C., WURZ, S., MORRIS, A.G. AND VOLMAN, T. 2009. A mid-Holocene AMS ¹⁴C date for the presumed upper Pleistocene human skeleton from Peers Cave, South Africa. *Journal of Human Evolution*, 56: 431-434.

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VAN DER MERWE, N.J. 2009. The diets of early hominins from South Africa and Tanzania: isotopic evidence. *SAS Bulletin-Newsletter of the Society for Archaeological Sciences*, 32(2): 12-15.

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DEPARTMENT OF ASTRONOMY

ARTICLES IN PEER-REVIEWED JOURNALS

BOUCHARD, A., DA COSTA, G. AND JERJEN, H. 2009. The environmental influence on the evolution of local galaxies. *Astronomical Journal*, 137: 3038-3052.

BRUNTT, H., KURTZ, D., CUNHA, M.S., BRANDAO, I.M., HANDLER, G., BEDDING, T.R., MEDUPE, R., BUZASI, D.L., VAN WYK, F., MASHIGO, D. AND ZHANG, W. 2009. Asteroseismic analysis of the red giant star Corcoran: 84 d of high-precision photometry from the WIRE satellite. *Monthly Notices of the Royal Astronomical Society*, 396: 1189-1201.

COPPERWHEAT, C.M., MARSH, T.R., DHILLON, V.S., LITTLEFAIR, S.P., WOUT, P.A., WARNER, B., STEEGHS, D., GNSICKE, B.T. AND SOUTHWORTH, J. 2009. ULTRACAM observations of two accreting white dwarf pulsators. *Monthly Notices of the Royal Astronomical Society*, 393: 157-170.

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ARCHAEOLOGISTS FIRED UP BY FINDINGS

Two UCT archaeologists, doctoral candidate Kyle Brown and lecturer Dr David Braun, were part of a team reporting that early modern humans used fire to turn flaky silcrete into stone tools. In their paper *Fire As an Engineering Tool of Early Modern Human*, published in the 14 August issue of *Science*, they report that early modern humans living 72 000 years ago on the coast near Pinnacle Point, Mossel Bay, employed pyrotechnology – the controlled use of fire – to increase the quality and efficiency of their stone tool manufacturing process. An international team of researchers, including Brown and Braun, deduce that “this technology required a novel association between fire, its heat, and a structural change in stone with consequent flaking benefits”. Further, their findings suggest our early modern ancestors were capable of complex cognition processes. “We show that early modern humans – 72 000 years ago, and perhaps as early as 164 000 years ago, in coastal South Africa – were using carefully controlled hearths in a complex process to heat stone and change its properties, the process known as heat treatment,” said lead author Brown, field and laboratory director in Mossel Bay for Arizona State University’s Institute of Human Origins.



Stratigraphic layers visible in this lower section of the archaeological site at Pinnacle Point, Mossel Bay, date from 79 000 to 86 000 years ago.

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DEPARTMENT OF BOTANY

(INCLUDING THE BOLUS HERBARIUM
AND THE PLANT CONSERVATION
UNIT.)

ARTICLES IN PEER-REVIEWED JOURNALS

ABERCROMBIE, L.G., ANDERSON, C.M., BALOWIN, B.G., BANG, I.C., BELDADE, R., BERNARDI, G., BOUBOU, A., BRANCA, A., BRETAGNOLLE, F., MOLECULAR ECOLOGY RESOURCES PRIMER DEV CONSORTIUM, AND MIDGELEY, J.J. 2009. Permanent genetic resources added to Molecular Ecology Resources database January 2009-30 April 2009. *Molecular Ecology Resources* (Formerly *Molecular Ecology Notes*), 9: 1375-1429.

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STAR GOES KABOOM

It's not often that an academic paper on the evolution of a supernova star – when a large dying star implodes – sends audiences scurrying for YouTube. But a paper authored by Associate Professor Patrick Woudt and Emeritus Professor Brian Warner, published in the 20 November 2009 issue of *Astrophysical Journal* on the unique explosion of a white dwarf star, V445 Puppis, caused quite a stir internationally. V445 Puppis and its companion star are 25 000 light years away in the constellation of Puppis. The light they emitted dates back to the Earth's Palaeolithic Period. Fast forward to March 2005, when astronomers using the European South Observatory's Very Large Telescope began to receive detailed pictures of the expanding nova shell of V445 Puppis, following its outburst in November 2000. The central star in V445 Puppis had been sucking helium from its companion star. Having tanked up on cannibalised energy, V445 Puppis had become heavy and unstable. The subsequent helium nova outburst – the first ever helium nova observed in the Milky Way – bumped up its brightness some 250 times, and the star began ejecting a vast amount of matter, several times the mass of the Earth. Apart from the fireworks, the occasion is also of huge value to astronomers.



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DEPARTMENT OF COMPUTER SCIENCE

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OLD PLANTS, NEW LEADS

Researchers using plants to find novel compounds for antimalaria drugs received a R3.6-million grant from the Medicines for Malaria Venture (MMV), covering the first year of work on recently unearthed data from a massive World War II antimalarial plant screening programme. The MMV, a not-for-profit foundation based in Geneva, Switzerland, has developed the largest-ever pipeline of antimalarial drugs in development, with over 50 projects being financed in laboratories on every continent. Leading the study is principal researcher Professor Kelly Chibale of UCT's Department of Chemistry and the Institute of Infectious Disease and Molecular Medicine. The R3.6-million research grant will underpin follow-up work on the antimalarial plant screening programme conducted by Merck and Company from 1942 to 1947. During WW II, Japanese blockades had cut off US supplies of malaria drug quinine, and the country was on the lookout for other treatments. Merck screened more than 600 plants for phytochemicals with similar or greater efficacy than quinine. About 100 plants were singled out in a 1947 publication for their potential antimalarial properties. After the war and the advent of synthetic antimalarials, however, this data was consigned to "scientific limbo" for over 60 years. Now they've piqued renewed interest.



Offshoots: Prof. Kelly Chibale and postdoctoral fellow Dr. Denisa Saravanakumar examine plant material that could provide leads for new antimalarial drugs.

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Research Output

ELECTRON MICROSCOPE UNIT

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CENTRE INTRODUCES HIGH TECH TO THE POOR

By hitting a few buttons on a cellphone, users can now find just about any information they need, thanks to UCT's new Information Communication Technologies for Development (ICT4D) Centre. Launched by the Department of Computer Science, the centre, which is supported by the Hasso Plattner Institute (HPI) in Germany, aims to serve people and regions that do not have full access to digital technology. ICT4D looks at how information technologies can be used to tackle socio-economic problems in developing countries. Much of the centre's work focuses on the use of cellphones, instead of PCs, to assist poor communities to access the Internet, for example. That is because cellphones are so commonplace these days, even in disadvantaged communities. "There are one billion people in the world with access to the Internet, but there are 3.4 billion people who own cellphones," explains Associate Professor Gary Marsden, director of the centre. The centre is involved in a variety of projects. These include a deaf-to-deaf remote communication system, the use of mobile phones for financial transactions, and a rural tele-health communication system. These systems have been tried and tested on a training project in Khayelitsha, Western Cape, and on voter education in Kenya.



Attending the launch of the ICT4D Centre (from left to right): Prof. Christoph Meinel (Hasso Plattner Institute), Assoc. Prof. Gary Marsden (UCT), Shikukh Gitau (UCT PhD student), Raymond Mugwanya (UCT PhD student) and Prof. Andreas Falze (Hasso Plattner Institute).

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CHEMIST WINS GOLD

Professor Mino Caira, director of the Centre for Supramolecular Chemistry Research, received the South African Chemical Institute's (SACI) Gold Medal for 2009. This award honours outstanding scientific contributions to the field of chemistry or chemical technology. Caira's research is directed mainly towards altering the physical properties of medicinal compounds to improve their performance as therapeutic agents. The goal of this molecular tuning is to diversify by producing novel drug forms with a technological edge, or with the potential for different applications, such as controlling drug release rates from tablets or capsules, reducing adverse side effects, or rendering the drug more palatable. "A source of significant personal satisfaction in training students in this research area is knowing that in generating these new drug forms and exploring their solid-state chemistry, they learn not only to use appropriate modern analytical techniques to characterise them, but to anticipate problems that frequently arise in pharmaceutical manufacturing, and be innovative in addressing them," said Caira.



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HONOURS FOR DISTINGUISHED SCHOLARS

In December, UCT conferred honorary doctorates on two of its most distinguished scholars, Emeritus Professors Brian Warner (bottom, right) and George Ellis (bottom, left). Although retired, the two are still active scientists (Warner in astronomy and Ellis in cosmology). Warner stands out as one of the most distinguished scientists to have made South Africa his home. His career spanning some 50 years has produced a prodigious scientific output, with 430 scientific papers and 12 authored books to his name. At least one, *Cataclysmic Variable Stars*, is considered definitive in its field. He has also written poetry and his collections were published under the titles *Dinosaurs End* and *Scatological Verse*. A UCT alumnus, Ellis is one of the most distinguished scholars this country has produced. Over a career spanning more than 40 years, he produced over 350 articles or chapters in books, and 12 books spanning disciplines as diverse as cosmology, complexity, neural development and the brain, science policy, social development, and science and mathematics education. His work on the relationship between science and religion won him the 2004 Templeton Prize, said to be the world's largest annual monetary award given to an individual.



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COSMOLOGISTS AIM FOR THE SKY

Just as hosts Dr Jeff Murugan, Dr Amanda Weltman and Emeritus Professor George Ellis had planned, *The Foundations of Space & Time: Reflections on quantum gravity* stood apart from most other meetings on cosmology by means of its mixed bag of specialists, topics and even aims. The five-day meeting, held in Cape Town, was partly a tribute to Ellis on his 70th birthday, and partly an opportunity to bring together some of the (other) foremost minds working on the topic, one of the most challenging in theoretical physics. Quantum gravity attempts to marry the fields of quantum field theory and general relativity into one clear unifying theory – an ambitious ‘Theory of Everything’, as some have dubbed it – a pursuit that has inspired but also frustrated some of the world’s finest minds for the better part of a century. As no single school of thought has as yet come up with such a fundamental theory of time and space, Ellis, Murugan and Weltman decided to throw a catalogue of viewpoints at the problem, calling together international string theorists, champions for loop quantum gravity and as many other approaches as they could muster. “What is clear is that even though the field is most certainly one of the most difficult in physics,” Murugan says, “it is still very much alive and as exciting as when Einstein was thinking about these issues in the 50s.” A book, edited by the trio, and consisting of a series of essays outlining all the major players in quantum gravity, will be published shortly by Cambridge University Press.



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DEPARTMENT OF MOLECULAR AND CELL BIOLOGY

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FOURTH OPPENHEIMER AWARD FOR UCT

Professor Jill Farrant, Research Chair of Molecular Physiology of Plant Desiccation Tolerance in the Department of Molecular and Cell Biology, became the tenth – and first woman – recipient of the prestigious Harry Oppenheimer Fellowship Award. The award was initiated by the Oppenheimer Memorial Trust in 2001 and is the Trust's premier award with a monetary value of up to Euro 100 000. Farrant is an acknowledged world leader in her field and holds an A rating from the National Research Foundation. Her research is conducted on highly unusual plants (termed *resurrection plants*, mostly endemic to Southern Africa), in which the vegetative tissues tolerate near total water loss for prolonged periods of time. The research has both fundamental and applied aspects and is novel in that it is multi-disciplinary – encompassing physiology, biochemistry and molecular biology and is conducted on several different species of resurrection plant and seed tissues – whereas other researchers in the field use a discipline-specific approach on a single species. In the applied work, the understanding of the mechanisms of desiccation tolerance has important uses for the development of crops with improved resistance to drought and this research is all the more significant in the face of global climate change. Previous recipients of the Harry Oppenheimer Fellowship Award at UCT are Professors Igor Barashenkov and Frank Brombacher (joint awardees in 2004) and Distinguished Professor Philippe-Joseph Salazar (2008).



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DEPARTMENT OF ZOOLOGY

(INCLUDING THE MARINE BIOLOGY RESEARCH CENTRE; THE PERCY FITZPATRICK INSTITUTE, DST/NRF CENTRE OF EXCELLENCE; THE FRESHWATER RESEARCH UNIT AND THE ANIMAL DEMOGRAPHY UNIT.)

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BLUE CRANE SURVIVAL DOWN TO THE WIRE

The South African national bird, the blue crane (*anthropoides paradiseus*), is under threat from the most unlikely of perils. Every year, hundreds of blue cranes, as well as other birds, are killed by flying into unmarked power lines. (It's the impact and not electrocution that kills). The problem is affecting the population numbers of this bird, which is currently on the International Union for Conservation of Nature's Red List of Threatened Species. For her master's thesis, ornithologist Jessica Shaw spent five months surveying the power lines in the Caledon and Bredasdorp areas of the Western Cape's Overberg, which is home to over half the global blue crane population. She found that 54% of all birds killed by power line collisions were blue cranes, which amounts to a casualty rate of 10% of the total blue crane population in the area every year. "The number of power lines is increasing all the time," says Shaw, "and if something isn't done the problem is only going to get worse." She proposes that power lines could either be buried underground or routed away from high-collision areas, but the most feasible option is to mark the lines so it's easier for the birds to spot – and dodge – them.



Saving an icon: Jessica Shaw's master's thesis focuses on the threat of power lines to blue cranes.

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NEW-FOUND DINOSAUR WAS VERY DOWN TO EARTH

Just a year or so after releasing her children's book, *Famous Dinosaurs of Africa*, Professor Anusuya Chinsamy-Turan agrees it may be time for a few revisions now that a new and very special African dinosaur, *Aardonyx celestae*, has been identified. In fact, Chinsamy-Turan was part of the international team that revealed *Aardonyx* not just as the newest face on the African dinosaur scene, but also as a pivotal piece in the puzzle of dinosaur evolution. Unearthed in the Free State, the vegetarian *Aardonyx* is said to date from the Early Jurassic period, about 195 million years ago. Not a full-grown adult when it died, *Aardonyx* was about seven metres long and about 1.5m high at the hips when on all fours. And while it was bipedal, meaning it could walk on its hind legs only, *Aardonyx* is of particular interest to palaeontologists because it could also move about on all fours. That and other family traits suggest that *Aardonyx* was close to the common ancestor of the much larger and more imposing quadrupedal (walking on all four legs) and long-necked dinosaurs, the sauropods. *Aardonyx* is thought to be an important step in the evolution towards the sauropod condition.



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PHYSICIST EMERGES AS THE BEST

UCT once again made a strong showing at the annual Department of Science and Technology's South African Women in Science Awards. Physicist Dr Amanda Weltman was named the Best Emerging Scientist, an award that recognises a young scientist for an outstanding scientific contribution in natural sciences or engineering. Weltman, who has received fellowships from Columbia University in the US, Cambridge University in the UK and NASA, is the co-author of two papers proposing the chameleon mechanism (in which scalar fields change depending on their environment), one of the hottest new topics in contemporary theoretical cosmology. Plant physiologist Professor Jill Farrant (pictured on page 75) took first runner-up spot in the Distinguished Woman Scientist category. The second UCT woman to receive an A-rating from the National Research Foundation and the first in the natural sciences, Farrant has earned worldwide recognition for her work, which currently focuses on resurrection plants. A Fellowship for a Woman Scientist, awarded in fields in which participation by women is traditionally low, went to Zizipho Mbulawa, a PhD researcher in medical virology.



Dr Amanda Weltman at the 2009 DST Women in Science Awards with Minister of Higher Education and Training, Kgale Moleketi (left) and Minister of Science and Technology, Naledi Pandor (right).

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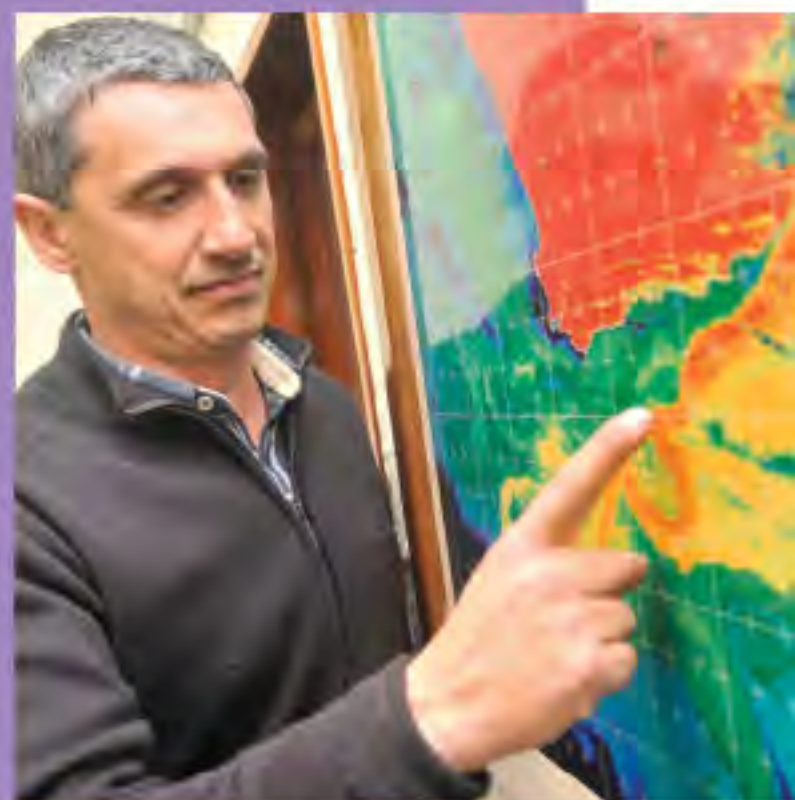
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LOCAL CURRENT GETS NORTH INTO HOT WATER

For too long, says Dr Mathieu Rouault, it's been taken for granted that if any ocean phenomenon has a say in weather conditions around the US and Europe, it's the Gulf Stream (the main current in the northern hemisphere) and its northern extension towards Europe, the North Atlantic Drift. Hardly a footnote had been spared for the Gulf Stream's distant, southern-based cousin, the Agulhas Current. Originating in the Indian Ocean, the lusty Agulhas Current tears southward alongside the eastern coast of South Africa, negotiating its way past the Cape of Good Hope before taking a hairpin bend and, now named the Agulhas Return Current, heading back into the Indian Ocean. Huge eddies and rings escape from the current and head towards Brazil, leaking Indian Ocean water into the Atlantic. Down south a tireless bunch of oceanographers from UCT's Department of Oceanography and Europe have been building up a case for the mechanics and influence of the Agulhas Current. More to the point, they've been arguing that the current plays a key role in global ocean circulation by the way it regulates the exchange of water, heat and salt between the Indian and the Atlantic Oceans at the southern tip of Africa.



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Law

DEPARTMENT OF COMMERCIAL LAW

DEPARTMENT OF PRIVATE LAW

DEPARTMENT OF PUBLIC LAW



"The UCT Law Faculty is mindful of its position in the research community and its responsibility to enhance research capacity."





Dean's Report

A number of new appointments in 2009 further enriched the Faculty's research community. Amongst the new additions to our staff are Professor Alan Rycroft, appointed as Chair in Commercial Law; Professor Pierre de Vos, appointed as the Claude Leon Chair in Constitutional Law; and Associate Professor Loretta Feris, appointed to the Institute of Marine and Environmental Law. Professor Tjakkie Naudé and Associate Professor Helen Scott joined the Department of Private Law. Professors Julian Kinderlerer and Anton Fagan delivered inaugural lectures.

On the management side, Professor Evance Kalula assumed the office of Deputy Dean: Outreach and Internationalisation in January 2009, and Professor Hanri Mostert was appointed Director of Research. These two management posts interact to position the research initiatives of the Faculty and to promote several areas of inquiry, most notably where these promote the University's Afropolitan ideals.

The Centre for Legal and Applied Research (CLEAR) was launched in February. The impact of CLEAR's overarching structure is already bearing fruit. It not only promotes excellent socio-legal research within key research themes, but also ensures co-operation without duplication of work. CLEAR fosters independent and yet interdisciplinary approaches to research. It hosts nine research units, which run projects ranging from the erosion of 'decent work' to public policing, refugee rights, judicial ethics, climate change, biofuels, accountability and evidence-based advocacy for rural women.

Recently retired Supreme Court of Appeals Judge Ian Farlam and former Education Minister Professor Kader Asmal were among four new honorary professors appointed in 2009.

They join Professor Muna Ndulo of Cornell University, and Dr Manfred Weiss of Goethe University in Frankfurt. The expertise they bring with them undoubtedly adds to the rich research fabric of the Faculty. They join a strong cohort of eminent legal thinkers that includes Judges Dennis Davis and Belinda van Heerden, Professors John Dugard, Denise Meyerson, Akilagpa Sawyerr and Julie Stewart, and Advocate Wim Trengove.

The Law Faculty is intent on boosting PhD and LLM (thesis) enrolment and providing our postgraduate students with excellent support. In 2009, there were six PhD graduates and 45 students registered for PhD.

Staff members in Departments of Private Law, Public Law and Commercial Law continue to produce an exceptional breadth of research. 2009 saw the publication of the following books: *Principles of the Law of Sale and Lease* (Bradfield, G. and Lehmann, K.); *Global Administrative Law: Innovation and Development* (Corder, H.M.); *Clint Eastwood and Issues of American Masculinity* (Cornell, D.); *Precedent and Possibility* (Davis, D. and Le Roux, M.); *Shipping Law and Admiralty Jurisdiction in SA*, 2nd ed. (Hare, J.); *The Law of Contract in South Africa* (Hutchison, D.); *Environmental Compliance and Enforcement in SA: Legal Perspectives* (Paterson, A.R. and Kotze, L.J.); *The Role of the Judiciary in Environmental Governance: Comparative Perspective* (Paterson, A.R. and Kotze, L.J.); *Principles of Evidence*, 3rd ed. (Schwikkard, P.J. and Van der Merwe, S.); and *Lengthening the Arm of the Law: Enhancing Police Resources in the 21st Century* (Shearing, C. et al.)

Many staff members received recognition for their contributions to research during 2009. Dr Dee Smythe was awarded a UCT

Fellows' Award, given to a younger researcher of exceptional promise. The Law Faculty boasts three new NRF-rated researchers, namely, Professor Chuma Himonga, Associate Professor Danwood Chirwa, and Dr Thalia Kruger, bringing the total number in the Faculty to 14.

PhD graduate Beric Croome was the recipient of the doctoral award in the 2009 Deneys Reitz Tax thesis competition for his work entitled *Taxpayers' rights in South Africa*, which is shortly to be published by Juta. His significant contribution to tax jurisprudence, which forms the basis of this book, was recognised by the South African Institute of Tax Practitioners in 2009.

The UCT Law Faculty is mindful of its position in the research community and its responsibility to enhance research capacity. Representatives of the Department of Justice and Walter Sisulu University were invited to participate in our Emerging Researcher Breakaway. A total of 16 papers were presented, nine of which were by designated emerging researchers. Professor Alan Rycroft gave a presentation on *Research methodology looking at secondary source research; case study methodology and the Delphi Technique*.

As part of the Ruhr University, Bochum and University of Cape Town PhD seminar exchange, a group of five doctoral candidates from the Centre of Criminology visited Germany

from 22 August until 5 September 2009. Professor Erena van der Spuy from UCT and Professor Monique Marks from the University of KwaZulu-Natal led the group to Germany. Presentations were made by international policing scholars on police research and methodologies and there were also various outings to police and police-related institutions. The PhD students were able to share and exchange ideas on their research. The seminar exchange was co-ordinated by Professor Thomas Feltes of the Ruhr University with financial support from the German Academic Exchange Service (DAAD) in co-operation with German Police University, Muenster University. A group of six doctoral students from Bochum will visit the Centre of Criminology in January 2010.

A significant number of staff continue to contribute to the work of the South African Law Reform Commission.

Substantial discussion took place in 2009 around revision to the Faculty's Research Ethics Policy and Guidelines. Realising the importance of ethical research and monitoring, the Research Ethics Committee (REC) has now been established as a full Faculty Committee and has been tasked with reviewing existing procedures and implementing a transparent and rigorous system of ethics clearance review.

Professor Pamela Schwikard
Dean of the Faculty of Law

Doctoral Graduations

A. BARRATT (PRIVATE LAW)

The battle for policy space: strategic advantages of a human rights approach in intellectual property negotiations.

Supervised by Professor J. Kinderlerer.

A. JORGE (PRIVATE LAW)

The change of position defence in comparative perspective.

Supervised by Professor D.P. Visser.

J.J. MOSES (CRIMINAL JUSTICE)

Parole in South Africa: is it a right or a privilege? The theory and practice of parole in South African Correctional Centres with a specific focus on the nature of parole under the Correctional Services Act 8 of 1959 (Repealed) and the current Correctional Services Act 111 of 1998.

Supervised by Professor P.J. Schwikkard

K.E. MOSITO (COMMERCIAL LAW)

Towards a comprehensive social security system for Lesotho: legal and policy perspectives.

Supervised by Professor E.R. Kalula and Professor M.P. Olivier.

T.C. NHENGA (PUBLIC LAW)

Application of the international prohibition on child labour in an African context: Lesotho, Zimbabwe and South Africa.

Supervised by Professor T.W. Bennett.

T. SCHÖNWETTER (COMMERCIAL LAW)

Safeguarding a fair copyright balance – contemporary challenges in a changing world: lessons to be learnt from a developing country perspective.

Supervised by Associate Professor J. Hofman.

DEPARTMENT OF COMMERCIAL LAW

(INCLUDING THE INSTITUTE OF
DEVELOPMENT AND LABOUR LAW)

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MEDIATION SLUGGISH IN SOUTH AFRICA

There has been little transformation in the South African dispute resolution system, and the process of pluralism has not taken root. So said Professor Alan Rycroft in his inaugural lecture, *The Problem of Process Pluralism: Why are we resolving our disputes so badly?* Recently appointed as the Chair of Commercial Law, Rycroft said the process of negotiating, mediation and arbitration is largely confined to employment disputes. "This prompts me to ask some uncomfortable questions: why have commercial lawyers been so slow in embracing commercial mediation and arbitration, and is the legal education contributing to producing graduates who are ill-prepared to resolve disputes?" The Commission for Conciliation, Mediation and Arbitration (CCMA) enjoyed a 62% success rate in conciliations over 2009, and only 150 of the 2 000 arbitration awards taken to the Labour Court for review being dismissed, Rycroft reported. "By any standards, those statistics speak of a highly efficient and effective dispute resolution system," he noted. But the process is expensive and it takes a long time to get cases through the civil courts. Rycroft suggested that mediation education should be part of the legal curriculum, as legal practice itself was moving from trial advocacy to settlement advocacy.



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PROGRESS AND RESPONSIBILITY

In the 21st century, the place and value of modern biotechnology runs alongside a crucial debate on the risks attached to and ownership of advances in the field, Professor Julian Kinderlerer said in his inaugural lecture, *Globalisation, Intellectual Property and Biotechnology*. Kinderlerer, a UCT alumnus, heads the Intellectual Property Law Research Unit in the Department of Private Law. "We are able to manipulate genes to create new organisms within organisms without a full understanding of the impact of our manipulations on the organisms or on the environment in which we place them," he said. But within these developments lay unknowns that could cause untold harm to established systems, people, and the environment. "Issues of what risks are acceptable, and in what circumstances and by whom they should be taken, run throughout the debate about the place and value of modern biotechnology." In the 21st century, patenting activity had also shifted from industrial knowledge to 'basic knowledge' so that many new fields had become patentable. Although there had been an "incredible" rise in patenting and intellectual property (IP) rights worldwide in the past 50 years, South Africa and the developing nations have lagged alarmingly, said Kinderlerer. South Africa's patent record had remained relatively static since 1985.



DEPARTMENT OF PRIVATE LAW

(INCLUDING THE INTELLECTUAL PROPERTY AND POLICY RESEARCH UNIT)

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SUPPORTING RURAL WOMEN

A new three-year project, the Rural Women's Action Research Project (RWAR), has been established in the Law, Race & Gender Unit. Generously funded by Atlantic Philanthropies, RWAR seeks to support struggles for change by rural women in South Africa. The Project focuses on land rights, but includes related issues of inheritance, succession, marriage and women's standing and representation. It seeks to understand the complexities and opportunities in the processes of contestation and change under way in rural areas and to support rural women in engaging with policy and legislative processes that affect them. The Project builds on existing relationships with rural people, non-governmental organisations (NGOs) and community based organisations (CBOs). The work involves elements that are beyond the scope of a single organisation. Hence UCT is part of a broader partnership involving three interrelated components: action-research in collaboration with rural CBOs and NGOs, legal education and litigation in partnership with the Legal Resources Centre, and collaboration with the Community Agency for Social Enquiry in relation to a survey of 3,000 women. Project director Aninka Claassens (left, in photo) is a land rights activist and scholar, and is joined by Dr Sindiso Mnisi (right), who completed her PhD at Oxford in 2009, and Mazibuko Jara, a public intellectual and community activist based in the Eastern Cape.



DEPARTMENT OF PUBLIC LAW

(INCLUDING THE CENTRE OF CRIMINOLOGY; INSTITUTE OF MARINE AND ENVIRONMENTAL LAW; DEMOCRATIC GOVERNANCE AND RIGHTS UNIT; LAW, RACE AND GENDER UNIT; AND REFUGEE RIGHTS PROJECT)

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RESEARCHERS FOR YALE



Researchers Aifheli Tshivhase and Admark Moyo from the Department of Public Law were the 2009 recipients of the Fox International Fellowship, presented by ivy-league Yale University in the US for the 2009/2010 academic year. The award originated in 1988 as an exchange between Yale and Moscow University to foster commitment and

understanding, but has since been expanded to institutions around the world. Both awardees have been officially admitted to the Yale Graduate School as visiting affiliated research students in the Division of Special Registration for Non-Degree Study. The award includes all expenses such as travel, accommodation and a monthly allowance.

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community policing in South Africa. *Police Practice & Research*, 10(2): 145-156.

VAN DER SPIJ, E. 2009. Police cooperation in the southern African region: politics and practicalities. *Crime, Law and Social Change*, 51: 243-259.

VAN DER SPIJ, E. 2009. What is SAPS 'doing' in Kinshasa? Exploring the dynamics of South-South policing building. *South African Journal of Criminal Justice*, 22(2): 194-212.

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VAN ZYL SMIT, D. AND SNAEKEN, S. 2009. Europäische Standards zu langen Freiheitsstrafen: Aspekte des Strafrechts, der Strafvollzugsforschung und der Menschenrechte. *Neue Kriminalpolitik*, 21(2): 58-68.

VAN ZYL SMIT, D., DÜNKEL, F. AND BAECHTOLD, A. 2009. Die Europäische Grundsätze über Sanktionen an jugendlichen Straftatern. *Schweizerische Zeitschrift für Kriminologie/Swiss Journal of Criminology*, 9(2): 49-59.

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Humanities

AFRICAN GENDER INSTITUTE
CENTRE FOR AFRICAN STUDIES
CENTRE FOR CONFLICT
RESOLUTION
SCHOOL OF DANCE
DEPARTMENT OF DRAMA
SCHOOL OF EDUCATION
DEPARTMENT OF ENGLISH
LANGUAGE AND LITERATURE
CENTRE FOR FILM AND
MEDIA STUDIES
MICHAELIS SCHOOL OF
FINE ART
DEPARTMENT OF
HISTORICAL STUDIES
ISAAC AND JESSIE KAPLAN
CENTRE FOR JEWISH STUDIES
AND RESEARCH

SCHOOL OF LANGUAGES
AND LITERATURES
COLLEGE OF MUSIC
DEPARTMENT OF PHILOSOPHY
DEPARTMENT OF
POLITICAL STUDIES
DEPARTMENT OF PSYCHOLOGY
DEPARTMENT OF
RELIGIOUS STUDIES
DEPARTMENT OF SOCIAL
ANTHROPOLOGY
DEPARTMENT OF SOCIAL
DEVELOPMENT
CENTRE FOR SOCIAL
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"The promotion of interdisciplinary enquiry remains a key strategic priority and is actively promoted in research across the Faculty."





Dean's Report

During the year under review the Faculty has continued to contribute to scholarship in the arts, social sciences and creative and performing arts. The research report provides evidence of the wide spectrum of research and creative activity produced in the Faculty in the form of journal articles, books and book chapters, conference papers, compositions, exhibitions and performances.

The Departments of Psychology and English remain leaders in the publication of peer-reviewed articles. The Faculty continues to contribute to the total number of NRF-rated researchers at UCT (now standing at 48, six of which are A-rated) and we have benefited generously from postgraduate student awards, postdoctoral research fellowships and ongoing support from the Emerging Researcher Programme.

A number of new books have been published in 2009, including *JM Coetzee: Countervoices* (Carol Clarkson); *Authority and Authorship in V.S. Naipaul* (Imraan Coovadia); *Mediating Legitimacy: Chieftaincy and Democratisation in two African Chieftdoms* (Jude Fokwang); *The Dialectical Tradition in South Africa* (Andrew Nash); *New Directions in Community Development and Conflict Resolution* (Connie O'Brien); *Women's Rhetoric: Argumentative Strategies of Women in Public Life: Sweden and South Africa* (Philippe Salazar); *Book of Iterations* (Pippa Skotnes); *Marvelous Geometry: Narrative and Metafiction in Modern Fairytale* (Jessica Tiffin) and *Vuurwiel*, an anthology of poetry by Joan Hambidge. We were delighted that the Jewish Book Council has announced *Place and Displacement in Jewish History and Memory: Zakor V'makor*, edited by David Cesarani, Tony Kushner and Milton Shain, as joint runner-up in the annual National Jewish Book Award in the category of Anthologies and Collections.

Details of the rich and diverse contribution to creative work are set out in the report, and we are particularly proud that two works by Hendrik Hofmeyr received prestigious international premieres – *Partita* for double-bass in Vancouver, and *Lachrymae* for guitar in Amsterdam.

The promotion of interdisciplinary enquiry remains a key strategic priority and is actively promoted in research across the Faculty, especially by our SARCHI chairholders (Professors Carolyn Hamilton, Abdulkader Tayob, Lungisile Ntsebeza, and Rajend Mesthrie), the Mellon-funded Sawyer seminar on Knowledges, Ways of Knowing and the Post-Colonial University, the Gordon Institute for Performing and Creative Arts, and, more recently, the formation of the Institute for the Humanities in Africa (HUMA), located within the Faculties of Humanities and Law under the direction of Professor Deborah Posel.

The Faculty has received substantial support from the Vice-Chancellor's Strategic Fund, which includes funding for the Centre for Social Science Research (CSSR) (African Legislatures Project – Professor Bob Mattes), for the Archive and Curatorship project (Professors Carolyn Hamilton and Pippa Skotnes), and for training in quantitative social science research methods (CSSR – Professors Bob Mattes and Mike Morris), as well as seed money for a project on Violent Crime (Dr Catherine Ward), and seed money to found a journal in literacy studies and literacy teaching called *Reading and Writing*.

Professor Paula Ensor
Dean of the Faculty of Humanities

Doctoral Graduations

S.O. ABRAHAMS (LANGUAGES AND LITERATURES)

Older than language: comics as philosophical praxis and heuristic for philosophical canon.

Supervised by Professor J. Hambidge.

C.J. AFRICA (POLITICAL STUDIES)

The impact of the 2004 election campaign on the quality of democracy in South Africa.

Supervised by Professor R. Mattes.

E. AZEVEDO (POLITICAL STUDIES)

Elected legislatures in Africa: attitudes of citizens from 18 countries towards legislatures, with a particular focus on Mozambique, its assembly and parliamentarians.

Supervised by Dr J. Akokpari.

K. BARRIS (ENGLISH LANGUAGE AND LITERATURE)

Fractious form: the trans/mutable post-apartheid novel.

Supervised by Professor B. Cooper.

S.M. DLAMINI (EDUCATION)

Early language and literacy learning in a peripheral African setting: a study of children's participating in home and school communicative and literacy practices in and around Manzini, Swaziland.

Supervised by Associate Professor M. Prinsloo.

M. DU PLESSIS (ENGLISH LANGUAGE AND LITERATURE)

A unity hypothesis for the southern African Khoesan languages.

Supervised by Professor R. Mesthrie.

V.M. EVERSON (LANGUAGES AND LITERATURES)

And ever shall be? A model for teaching French as a foreign language in South African tertiary institutions.

Supervised by Professor D. Wardle.

M.B. HAUCK (ENVIRONMENTAL AND GEOGRAPHICAL)

Rethinking small-scale fisheries compliance: from criminal justice to social justice.

Supervised by Associate Professor M. Sowman and Professor J. Raakjær.

C.G. HERZENBERG (POLITICAL STUDIES)

A silent revolution: South African voters during the first years of democracy 1994-2006.

Supervised by Professor R. Mattes and Professor J. Seekings.

V. IVES-DELIPERI (PSYCHOLOGY)

The matter of mindfulness: investigations into the mechanisms of mindfulness.

Supervised by Professor M. Solms and Dr K. Thomas.

T.M. LUESCHER (POLITICAL STUDIES)

Student governance in transition: university democratisation and managerialism. A governance approach to the study of student politics and the case of the University of Cape Town.

Supervised by Emeritus Professor A. du Toit and Emeritus Professor M. Hall.

R. LUMBWE (MUSIC)

Ubwanga, a subset of Bemba indigenous knowledge systems: a comparative study of pre-colonial and post-independence wedding ceremonies in Lusaka and Kitwe, Zambia.

Supervised by Associate Professor A. Herbst.

A. MATHE (FILM AND MEDIA STUDIES)

Persuasion as a social heuristic: a rhetorical analysis of the making of the Constitution of Namibia.

Supervised by Distinguished Professor Ph-J. Salazar.

F.F. MOOLLA (ENGLISH LANGUAGE AND LITERATURE)

Individualism in the novels of Nuruddin Farah.

Supervised by Professor H. Garuba.

L.N. NATHAN (HISTORICAL STUDIES)

The failure of the SADC Organ: regional security arrangements in Southern Africa, 1992-2003.

Supervised by Professor C.C. Saunders.

J. NG'ANDU (MUSIC)

Utshimi: an emergent approach to musical arts education based on the inshini practice of Bemba storytelling.

Supervised by Associate Professor A. Herbst.

C. WOE (ENVIRONMENTAL AND GEOGRAPHICAL)

Bioregional planning in south-eastern Tanzania: the Selous-Niassa Corridor as a prism for transfrontier conservation areas.

Supervised by Associate Professor M. Ramutsindela.

J.N. OLIPHANT (EDUCATION)

Multiple arenas and professional identity: locating and defining the professionalism and accountabilities of the teacher educators in Lesotho.

Supervised by Professor C. Soudien.

G. PALERER (HISTORICAL STUDIES)

Creating a "black film industry": state intervention and films for African audiences in South Africa, 1956-1990.

Supervised by Professor V. Bickford-Smith and Associate Professor R. Mendelsohn.

K.D. PICHASKE (FILM AND MEDIA STUDIES)

Colour adjustment: race and representation in post-apartheid South African documentary.

Supervised by Associate Professor M. Botha.

P. RAMBE (EDUCATION)

The impact of using social networking sites on academic relations and student learning in a university setting.

Supervised by Dr D. Ng'ambi and Professor C. Soudien.

R. RAMTOHUL (AFRICAN GENDER INSTITUTE)

Women and politics in a plural society: the case of Mauritius.

Supervised by Professor A. Mama.

L.C. RONNIE (EDUCATION)

Transforming habitus? Experiences of mature students in a higher education institution.

Supervised by Dr H. Jacklin.

S.M. ROQUE (ANTHROPOLOGY)

Ambitions of cidade: war-displacement and concepts of the urban among bairro residents in Benguela, Angola.

Supervised by Associate Professor F.C. Ross.

S. ROWAN (ENGLISH LANGUAGE AND LITERATURE)

"The efficacy of Song Itself" - Seamus Heaney's defence of poetry.

Supervised by Professor S.F.T. Watson.

C.M. SAMSON (EDUCATION)

Italian undergraduate students comprehending economics and business texts in English as a foreign language. A case study of language-conceptual transfer strategies used in reading domain-specific texts.

Supervised by Emeritus Professor D.N. Young, Dr M. Paxton and Professor T. Dunne.

M.R. SCARBOROUGH (RELIGIOUS STUDIES)

Called to mission: Mennonite women missionaries in Central Africa in the second half of the twentieth century.

Supervised by Emeritus Professor J.W. de Gruchy.

R.L. SEGALL (PHILOSOPHY)

The fertility of theories.

Supervised by Associate Professor B. Weiss.

E.G. SETTLER (RELIGIOUS STUDIES)

Religion in the work of Frantz Fanon.

Supervised by Professor D. Chidester.

T.A. TAMASANE (SOCIOLOGY)

Welfare policy and the family in the post-apartheid South Africa: care for orphans and vulnerable children in the context of HIV/AIDS and widespread poverty in Kopanang Municipality, Free State.

Supervised by Dr J. Head.

M. TAUB (DRAMA)

Lessons from an aftermath: recovery of the self through trans-disciplinary applied drama practice.

Supervised by Associate Professor M.J. Fleishman and Associate Professor C.N. van der Merwe.

Doctoral Graduations

L.K. THESEN (ENGLISH LANGUAGE AND LITERATURE)

Lectures in transition: a study of communicative practices in the humanities in a South African university.

Supervised by Professor K. McCormick.

J.M. TWIKIRIZE (SOCIAL DEVELOPMENT)

Is community health insurance a viable means of increasing access to health care for rural households in Uganda?

Supervised by Dr C. O'Brien.

E.J.A. VAN DER VLIET (FILM AND MEDIA STUDIES)

Make-believe: claiming the "real" in contemporary fiction cinema.

Supervised by Associate Professor L. Marx.

E. VILJOEN (FILM AND MEDIA STUDIES)

New masculinities in a vernacular culture: a comparative analysis of two South African men's lifestyle magazines.

Supervised by Professor I. Glenn.

R.C. WARWICK (HISTORICAL STUDIES)

White South Africa and defence 1960-68: militarisation, threat perceptions and counter-strategies.

Supervised by Professor C.C. Saunders.

M.O. WECHÉ (LANGUAGES AND LITERATURES)

Bantu and Nilotic children's singing games: a comparative study of their value communication.

Supervised by Dr A. Nyamende.

AFRICAN GENDER INSTITUTE

CHAPTERS IN BOOKS

SALO, E. AND DAVIDS, B. 2009. Glamour, glitz and girls: the meanings of femininity in high school. In M. Steyn and M. van Zyl (Eds.), *The Prize and the Price: Shaping Sexualities in South Africa*, pp. 39-54. Cape Town: HSRC Press. ISBN 9780796922397.

ARTICLES IN PEER-REVIEWED JOURNALS

BENNETT, J. 2009. A gender analysis of national poverty reduction strategies. *Agenda*, 81: 48-63.

BENNETT, J. 2009. Keeping our heads but losing our hearts: some current sexualities and gender debates in South Africa. *East African Journal of Peace and Human Rights*, 15(1): 110-127.

BENNETT, J. 2009. Policies and sexual harassment in higher education: two steps forward and three steps somewhere else. *Agenda*, 80: 7-21.

BENNETT, J. AND REDDY, V. 2009. Researching the pedagogies of sexualities in South African higher education. *International Journal of Sexual Health*, 21(4): 239-252.

BRADFORD, B. AND DOTOIE, M. 2008. Inxoxo enkulu ngoNongqawuse (A Great Debate about Nongqawuse's Era). *Kronos: Southern African Histories*, 34: 66-105.

MATSHAKA, N. 2009. Marobot neMawaya traffic lights and wire: crafting Zimbabwean migrant masculinities in Cape Town. *Feminist Africa*, 13: 65-85.

RAMTOHUL, R. 2009. Trade liberalisation and feminisation of poverty: the Mauritian scenario. *Agenda*, 78: 55-67.

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CENTRE FOR AFRICAN STUDIES

CHAPTERS IN BOOKS

COOPER, B.L. 2009. Language, multiple worlds, and material culture in the teaching of African migrant fiction. In G. Desai (Ed.), *Teaching the African Novel*, pp. 246-258. New York: The Modern Language Association of America. ISBN 9781603290371.

Research Output

GARUBA, H.O. 2009. Between three African locations: teaching Chinua Achebe's *Things Fall Apart* at the Universities of Ibadan, Zululand and Cape Town. In G. Desai (Ed.), *Teaching the African Novel*, pp. 321-339. New York: The Modern Language Association of America. ISBN 9781603290371.

GARUBA, H.O. 2009. The critical reception of the African novel. In F.A. Irele (Ed.), *The Cambridge Companion to the African Novel*, pp. 243-262. UK: Cambridge University Press. ISBN 9780521671682.

ARTICLES IN PEER-REVIEWED JOURNALS

COOPER, B.L. 2009. The Middle Passage of the Gods and the New Diaspora: Helen Oyeyemi's *The Opposite House*. *Research in African Literatures*, 40(4): 108-121.

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CENTRE FOR CONFLICT RESOLUTION

EDITED BOOKS

ADEBAJO, A. (ED.) 2009. *From Global Apartheid to Global Village: Africa and the United Nations*. Scottsville: University of KwaZulu-Natal Press. ISBN 9781869141721.

CHAPTERS IN BOOKS

ADEBAJO, A. 2009. Ending global apartheid: Africa and the United Nations. In A. Adebajo (Ed.), *From Global Apartheid to Global Village: Africa and the United Nations*, pp. 3-50. Scottsville: University of KwaZulu-Natal Press. ISBN 9781869141721.

ADEBAJO, A. 2009. The role of the Secretary-General. In A. Adebajo (Ed.), *From Global Apartheid to Global Village: Africa and the United Nations*, pp. 87-106. Scottsville, South Africa: University of KwaZulu-Natal Press. ISBN 9781869141721.

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RESEARCHING PAEDIATRIC TRAUMATIC BRAIN INJURY

Doctoral researcher Leigh Schrieff is breaking new ground with her work on traumatic brain injury among children. Schrieff started her PhD in 2005 on the implementation and evaluation of a cognitive rehabilitation programme for children following traumatic brain injury. Her plan at the time was to focus on three main areas for cognitive rehabilitation – attention, memory and executive function – but this proved too broad a subject for one person. Instead of lowering her sights, Schrieff expanded and developed her idea into something bigger. She is now second-in-command of UCT Child Neuropsychology's Head Injury Research Group, which she runs with her supervisor Dr Kevin Thomas, a member of the Brain and Behaviour Signature Theme and the Cross-University Brain-Behaviour Initiative. Here she is investigating the feasibility of a dedicated paediatric neuropsychological rehabilitation programme for South Africa, given the country's specific socio-economic climate. The aims of her doctorate and the programme is to address the dearth of published research on paediatric traumatic brain injury (pTBI) in South Africa, and the need for formal neuropsychological rehabilitation programmes in the country. "At the moment formal paediatric neuropsychological rehabilitation programmes for kids following TBI are scarce in the country," says Schrieff. "There are rehabilitation centres, but often these do not include the neuropsychological aspect."



SCHOOL OF DANCE

ARTICLES IN PEER-REVIEWED JOURNALS

FRIEDMAN, S.L. 2009. Navigating the byways of polyculturalism – whose dance are we teaching in South African schools? *Research in Dance Education*, 10(2): 131-144.

CHAPTERS IN BOOKS

CHEESMAN, D. 2009. 1978 – 1988. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 88-90. Cape Town: Scan Shop.

FOURIE, D. 2009. 1956 – 1966. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 50-51. Cape Town: Scan Shop.

FRIEDMAN, S.L. 2009. 2000 – 2009. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 120-121. Cape Town: Scan Shop.

GREYLING, E. 2009. 1934 – 1944. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 8-9. Cape Town: Scan Shop.

RAIZENBERG, L. 2009. 1967 – 1977. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 76-77. Cape Town: Scan Shop.

RANI, M. 2009. 1945 – 1955. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 20-21. Cape Town: Scan Shop.

SAMUEL, G.M. 2009. Introduction. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 6-7. Cape Town: Scan Shop.

TRIEGAARDT, E. 2009. 1989 – 1999. *75 Years in Dance – UCT School of Dance 1934 – 2009*, pp. 102-103. Cape Town: Scan Shop.

CREATIVE WORK

The Nutcracker: Produced and directed by **E. TRIEGAARDT** for CTCB and Cape Junior Ballet. Artscape Theatre, Cape Town. 12 December – 4 January 2009.

La Sylphide: Produced and directed by **E. TRIEGAARDT** for CTCB. Maynardville Open-air Theatre, Cape Town (25 January – 15 February 2009); The Masque Theatre, Muizenberg, Cape Town (6 – 9 February 2009); Bellville Civic Centre, Bellville, Cape Town (20 May 2009); Rooi Rose Cultivaria Festival, Paarl (24 September 2009).

Swan Lake: Produced and directed by **E. TRIEGAARDT** for CTCB. Artscape Opera House, Cape Town. 19-21 June 2009.

Double Bill: Paquita & La Sylphide: Produced and directed by **E. TRIEGAARDT** for CTCB in a collaborative production

with CJB for the Grahamstown National Arts Festival. Guy Butler Theatre, Grahamstown. 3-4 July 2009.

Giselle: Produced and directed by **E. TRIEGAARDT** for CTCB in a collaborative production including members from SABT. The Playhouse Theatre, Durban (14-16 August 2009); Baxter Theatre (2-5 September 2009); Rooi Rose Cultivaria Festival, Paarl (24 September 2009).

Balletscapes: Produced and directed by **E. TRIEGAARDT** for CTCB. Artscape Opera House, Cape Town. 20-21 November 2009.

Happy 75th Birthday, Ballet: Produced and directed by **E. TRIEGAARDT** for CTCB. Artscape Opera House. 22 November 2009.

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Research Output

DEPARTMENT OF DRAMA

(INCLUDING THE LITTLE THEATRE.)

ARTICLES IN PEER REVIEWED JOURNALS

BAUM, R. 2009. And thou shalt bind them for a sign upon thy hand: Eve's tattoo and the Holocaust consumer. *Shofar*, 28(2): 1-23.

BAUM, R. 2009. Evolving with Peggy Hackney, ADTR. *Dance Therapy of Australia Association Quarterly*, 8(1): 5-6.

FLEISHMAN, F. 2009. Knowing performance: performance as knowledge paradigm for Africa. *South African Theatre Journal*, 23: 116-136.

MILLS, E. 2009. When the voice itself is image. *Modern Drama*, 52(4): 389-404.

MILLS, E. 2009. Theatre voice: practice, performance and cultural identity. *South African Theatre Journal*, 23: 84-93.

SINGER, J. 2009. Searching the silences for the sounds of a "new poetics" in the female voice. *South African Theatre Journal*, 23: 68-83.

CHAPTERS IN BOOKS

BAUM, R. 2009. Conclusion. *75 Years of Dance: UCT School of Dance 1934-2009*, pp. 142-144. Cape Town: UCT School of Dance.

BAUM, R. 2009. Jews, blood, and Ethiopian dance in Israel: critical race theory & the postcolonial. In C. Matzke and O. Okagbue (Eds.), *African Theatre: Diasporas*, pp. 85-99. Suffolk, UK: James Currey Publishers. ISBN 9781847015013.

BAUM, R. 2009. Pink sofas, purple roofs: lesbians in online chat. In R.A. Lind (Ed.), *Race Gender Media: Considering Diversity Across Audiences, Content and Producers*. 2nd Edition. Boston: Pearson Books. ISBN 9780205537358.

BAUM, R. 2009. Surviving absence: preliminary findings on dance therapy & war trauma. In K. Dunphy, J. Guthrie and E. Loughlin (Eds.), *Dance Therapy Collections*, No. 3, pp. 118-126. Melbourne: Dance Movement Therapy Association of Australia. ISBN 9780646514956.

CREATIVE WORKS

FLEISHMAN, F. 2009. *Every Year, Every Day, I am Walking*. Directed. Theatre. Professional Actors. French Cultural Centre, Maputo, Mozambique; Proyecto Festival, Buenos Aires, Argentina; KKNK Festival, Oudtshoorn; Aardklop Festival, Potchefstroom; Juice Festival for Young Audiences, Newcastle, UK; International Theatre Festival of Kerala, Trissur, India. (January – December).

HYLAND, G. 2009. *Kissed By Brel* Directed. Theatre Cabaret. Professional Performers. Jermyn Street Theatre, London. (23 June – 8 August).

HYLAND, G. 2009. *Heart of Sand*. Directed. Dance. Professional Dancers. Klein Karoo Nasionale Kunstefees. (4-6 April).

HYLAND, G. 2009. *Judith, A Parting from the Body* by Howard Barker. Directed and Set Design. Theatre. Professional Actors. Intimate Theatre, Hiddingh Campus. (20-24 October).

HYLAND, G. 2009. *2009 Fleur du Cap Awards Ceremony*. Directed and Set Design. Award Ceremony. Professional Performers. Artscape Theatre, Cape Town. (9 March).

HYLAND, G. 2009. *A Night Out, Pieces from Pinter* Directed and Set Design. Theatre. Student Company. Arena Theatre, Hiddingh Campus. (5-13 June).

HYLAND, G. 2009. *As You Like It* by William Shakespeare. Directed and Set Design. Theatre. Professional Company. Maynardville Open-Air Theatre, Cape Town. (7 January – 14 February).

KABWE, M. 2009. *Fragments of Bark & Bone*. Directed and conceived. Student Cast. Little Theatre Complex, Cape Town. (20-23 May).

KABWE, M. 2009. *Sacred Harvest* Directed and Devised. Professional Cast. University of Witwatersrand, Johannesburg. (27-30 August).

MBOTHWE, M. 2009. *Ingwaba Lendaba Lise Cankwe Ndela* Directed and co-written. Professional Cast. Infecting the City Festival, Cape Town; National Arts Festival, Grahamstown; Red Location Museum, Port Elizabeth; Wits Theatre, Johannesburg; Artscape Theatre, Nyanga East Zolani Centre, Khayelitsha Site C Blue Hall, Cape Town.

MBOTHWE, M. 2009. *Broken Promise* Directed and co-written. Artscape Theatre, Cape Town.

MBOTHWE, M. 2009. *Sacred Harvest* Directed and co-written. Wits Theatre, Johannesburg.

MBOTHWE, M. 2009. *Trojan Horse* Semi-professional Cast. Co-directed. Secondary Schools, Cape Town.

FATHER, J. 2009. *As You Like It* by William Shakespeare. Choreographed. Professional Company. Maynardville Open-Air Theatre, Cape Town. (7 January – 14 February).

FATHER, J. 2009. *Under the tree, around the corner* Choreographed and directed. Professional cast. IZIKO Rust en Vreugd Gallery, Buitenkant Street (February).

FATHER, J. 2009. *Dreaming the Futures* Choreographed, designed and directed. Professional cast. Design Indaba, Cape Town Convention Centre (25-28 February).

FATHER, J. 2009. *Qaphela Caesar* Choreographed and directed. Dance Theatre adaptation of William Shakespeare's Julius Caesar. Student and Professional Cast. Hiddingh Hall, Orange Street (27 March – 4 April).

FATHER, J. 2009. *Body of Evidence* Choreographed and directed. Professional Cast. National Arts Festival, Grahamstown (2-4 July), Playhouse Company, Durban (15-17 October).

FATHER, J. 2009. *Blind Spot* Choreographed, designed and directed. Professional cast. Metropolis Biennale, Copenhagen, Denmark (6-9 August).

FATHER, J. 2009. *Metamania* Directed. Student Cast. Little Theatre Complex (2-4 September).

FATHER, J. 2009. *Step into White Light* Choreographed and directed. Professional cast, Spier Estate, Stellenbosch, Cape Town (4 December).

TEMMING, S. 2009. *Verlange/for Longer* by Amy Jephta. Directed and designed. Theater. Senior students. Arena Theater, Orange Street. (17-25 April).

TEMMING, S. 2009. *Kersieboord* by Sandra Temmingh. Directed and designed. 2nd year students. Rehearsal Studio, Hiddingh Campus. (23-26 September).

WEARE, C.B. 2009. *Macbeth* by Pieter-Dirk Uys. Directed and designed. Theatre. Little Theatre, Hiddingh Campus (25 February – 21 March).

WEARE, C.B. 2009. *Decadence* by Steven Berkoff. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. The Intimate Theatre, Cape Town. (29 April – 16 May).

WEARE, C.B. 2009. *Bigger, Better, Faster* by Alan Committie. Directed. Theatre. Professional actors. Montecasino Theatre, Johannesburg. (6 May – 4 June).

TOP AWARD FOR BOOK ON THE SAN PEOPLE

Professor Pippa Skotnes of the Michaelis School of Fine Art has been awarded the prestigious Outstanding Academic Title status by *Choice* magazine for her book, *Claim to the Country: The Archive of Wilhelm Bleek and Lucy Lloyd*. The book and accompanying DVD brings together most of an archive on the San people created by philologist Wilhelm Bleek and linguist and folklorist Lucy Lloyd in the late 1800s. *Claim to the Country* was described by one reviewer as "hauntingly beautiful, deeply informed, and poignantly moving". Appearing annually in the January issue of *Choice*, the premier source for reviews of academic works, the Outstanding Academic Title list reflects the best in scholarly titles and attracts wide attention from the academic library community. For her next project, Skotnes will be researching 19th century magistrate Louis Anthing, who had introduced Bleek to the San people.



WEARE, C.B. 2009. *Elizabeth: Almost by Chance a Woman* by Dario Fo. Produced, directed and designed. Theatre. Professional actors. Little Theatre. (17 June – 4 July).

WEARE, C.B. 2009. *The Zoo Story* by Edward Albee. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. National Arts Festival Fringe. (6-11 July).

WEARE, C.B. 2009. *The British Lines Tour. 2010 Repertory Season*. Produced. Theatre. Professional actors. Presented by The Mechanicals. Little Theatre Complex. (15 July – 23 August).

WEARE, C.B. 2009. *Bigger, Better, Faster* by Alan Committie. Directed. Theatre. Professional actor. Theatre on the Bay, Cape Town. (7 July – 1 August).

WEARE, C.B. 2009. *The Birthday Party* by Harold Pinter. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. Little Theatre. (15 July – 1 August).

WEARE, C.B. 2009. *Decadence* by Steven Berkoff. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. The Intimate Theatre, Cape Town. (4-23 August).

WEARE, C.B. 2009. *"The Zoo Story"* by Edward Albee. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. The Intimate Theatre. (4-23 August).

WEARE, C.B. 2009. *Cowboy Mouth* by Sam Shepard and Patti Smith. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. The Intimate Theatre, Cape Town. (15 September – 4 October).

WEARE, C.B. 2009. *The Zoo Story* by Edward Albee. Produced, directed and designed. Theatre. Professional actors. Presented by The Mechanicals. The Hilton Festival, KwaZulu-Natal. (18-20 September).

WEARE, C.B. 2009. *We and Them* by Lena Farugia. Directed. Theatre. Professional actors. Windsor Historical Society Conference, Del Colorado Hotel, San Diego, California, USA. (16-17 October).

WEARE, C.B. 2009. *Taking Stock* by Alan Committie. Directed. Theatre. Professional actor. Theatre on the Bay, Cape Town. (16 December 2009 – 24 January 2010).

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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

HOADLEY, U.K. AND JANSSEN, J. 2009. *Curriculum: Organizing Knowledge for the Classroom*. 343pp. 2nd edition. Cape Town: Oxford University Press Southern Africa. ISBN 9780195987218.

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THE MOBILE GENERATION

Mobile phones have developed into a veritable mass technology in South Africa with over 30 million regular users in 2009. The situation is similar in other African countries. Research, led by Associate Professor Ana Deumert (Linguistics), investigates the many ways in which mobile phones have created new opportunities for written communication and social interaction (especially among the youth). Although English is strongly associated with digital communication in general, South African data shows strong usage of indigenous languages in these spaces, and mobile media can thus be vehicles for the promotion of African languages. As part of this ongoing research, the m4Lit project, conducted in collaboration with the Shuttleworth Foundation and Dr Marion Walton (Media Studies), was completed in 2009. m4Lit explored the potential of mobile media to stimulate reading and writing among South African teens by offering a serialised novel (a so-called m-novel) via a specifically designed mobi-site and MXit. The novel *Kontax* was thus launched, in both English and isiXhosa.



DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

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LASS, R.G. AND LAINE, M. 2009. Databases, dictionaries and dialectology. Dental instability in early middle English: a case study. In M. Dossena and R. Lass (Eds.), *Studies in English and European Historical Dialectology*, pp. 91-134. Bern: Peter Lang. ISBN 9783034300247.

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TO BE COLOURED

Coloured identity, which first emerged in the 19th century, is said to be pivotal to racial thinking in southern African societies. It's also an issue that's emotive and controversial, and coloured communities have been marginalised and stigmatised. In *Burdened by Race: Coloured identities in Southern Africa*, Associate Professor Mohamed Adhikari of the Department of Historical Studies brings together the most recent research and writing on the topic. Drawing on a wide range of disciplines, the book also sets out to offer new insights into coloured "self-identification". And in a first for the subject, it examines colouredness across the region, from South Africa, Zimbabwe, Zambia and Malawi. Contributors tackle themes such as trauma and memory, creolisation, coloured identity in post-apartheid South Africa, and community and coloured identity in District Six, Cape Town.



CENTRE FOR FILM AND MEDIA STUDIES

(INCLUDING THE CENTRE FOR RHETORIC STUDIES.)

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SALAZAR, PH.-J. 2009. Nobel rhetoric; or, Petrarch's Pendulum. *Philosophy and Rhetoric*, 1: 373-400.

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SÄNGER, W. AND HADLAND, A. 2009. Challenging patriarchal scripts? A gender analysis of South Africa's community print media. *Agenda*, 77: 4-17.

VAN DER VLIET, E. 2009. Naked Film: Stripping with The Idiots. *Post Script - Essays in Film and the Humanities*, 28(3): 14-30.

PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS

ELLIOT, C., MARSDEN, G., BLAKE, E.H. AND WALTON, M. 2009. Design notations for creating virtual environment. In J. Cohen and S. Hazelhurst (Eds.), *Proceedings of the Conference of Southern African Institute for Computer Scientists and Information Technologists (SAICSIT)*, 12-14 October 2009, Johannesburg, South Africa, pp. 7-15. Johannesburg: SAICSIT. ISBN 9781605586434.

VOELOO, S., WALTON, M. AND DEUMERT, A. m4Lit: a teen m-novel project in South Africa. *Proceedings of the 8th World Conference on Mobile and Contextual Learning (mLearn 2009)*, 26-30 October 2009, Orlando, USA. ISBN 9870578040516.

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MICHAELIS SCHOOL OF FINE ART

(INCLUDING THE CENTRE FOR CURATING THE ARCHIVE.)

AUTHORED BOOKS

SKOTNES, P.A. 2009. *Book of Iterations*. Cape Town: Axeage Private Press. 129pp. ISBN 97806204573.

ARTISTS' BOOKS AND CATALOGUES

CAMPBELL, K. 2009. *Recasting the Colophon: Typography Specimen and Catalogue*. Cape Town. ISBN 9780620457347.

LAMPRECHT, A. 2009. *History 'n'.* (Exhibition Catalogue). Cape Town: UCA Gallery. 24pp. ISBN 978062045043.

YOUNGE, J.B.F. 2009. *Deep Skin* (Ed.). (Exhibition Catalogue). Paris: La Noire Galerie, Paris. 52pp. ISBN 9780620440462.

YOUNGE, J.B.F. 2009. *Urban Animal*. Cape Town: Art+Text, Cape Town, 40pp. ISBN 979062044988.

ARTICLES IN PEER-REVIEWED JOURNALS

JOSEPHY, S. 2009. Twin Town. *Postamble: A Multidisciplinary Journal of African Studies*, 4: 1-15.

LAMPRECHT, A. 2009. A Book About Now. *Art South Africa*, 8(2): 77.

LAMPRECHT, A. 2009. Bright Young Things: Avant Garde. *Art South Africa*, 7(4): 46-47.

JOURNAL ARTICLES, CATALOGUE ESSAYS AND WORKS OF A POPULAR NATURE

WEINBERG, P. 2009. *The Glory of the Game, Rugby and the Jewish Minyan*. Contributing photographer. Cape Town: Kaplan Kushlick Foundation, South African Jewish Museum, Cape Town, pp. 50-88. ISBN 9780620456333.

CREATIVE WORKS

EXHIBITIONS

SOLO EXHIBITIONS

ALEXANDER, J. 2009. Solo Exhibition: *On Being Human*. Galilee Chapel, Durham Cathedral, Institute of Advanced Study, Durham University. 03/03/2009 to 22/03/2009.

ALEXANDER, J. 2009. Solo Exhibition: *Survey*. Jack Shainman Gallery, New York. 19/03/2009 to 18/04/2009.

LANGERMAN, E. 2009. Solo Exhibition: *Subtle Thresholds, the representational taxonomies of disease*. South African Museum, Cape Town. 25/07/2009 to 31/07/2010.

MACLENNY, V. 2009. Solo Exhibition: *Crossing*. David Krut Projects, Johannesburg. 28/10/2009 to 25/11/2009.

SKOTNES, P.A. 2009. Solo Exhibition: *Book of Iterations: an exhibition of work*. Institute for the Humanities, Michigan University, USA. 23/11/2009 to 21/01/2010.

WEINBERG, P. 2009. Solo exhibition: *Here and There*. Kalk Bay Modern, Cape Town. 07/10/2009 to 31/10/2009.

YOUNGE, J.B.F. 2009. *Deep Skin*. Cosmopolis Internationale, 18, Rue Scribe, Nantes, France. 17/06/2009 to 12/07/2009.

CURATED EXHIBITIONS

LAMPRECHT, A. 2009. Curator and participant. *History n.* UCA Gallery, Cape Town. 23/09/2009 to 16/10/2009.

GROUP EXHIBITIONS (CURATED)

ALEXANDER, J. 2009. Group Exhibition: *Hotel Dajti, The Symbolic Efficiency of the Frame*. Curated by Edi Muka and Joa Ljungberg. Tirana International Contemporary Art Biennial, Hotel Dajti, Tirana. 18/09/2009 to 22/10/2009.

ALEXANDER, J. 2009. Group Exhibition: *Survey Havana*. Curated by Kcho. Meeting Point. Convent of St Francis, Havana Biennial. Havana, Cuba. 27/03/2009 to 30/04/2009.

ALEXANDER, J. 2009. Group Exhibition: *Verity, Faith and Justice*. Curated by Fumio Nanjo. Dojima River Biennial, Dojima River Forum, Osaka. 08/08/2009 to 06/09/2009.

INGGS, S.C. 2009. Group Exhibition: *Sanbao International Printmaking Exhibition*. Curated by Nunna Resnick. Shanxi University College of Fine Art and Beijing Centre Academy of Fine Art, China. 20/05/2009 to 16/06/2009.

INGGS, S.C. 2009. Group Exhibition: *Vision, Devotion, Revelation*. Curated by Marcus Bury and Kate Stevens. Hackelbury Fine Art, Launceston Place, London, England. 17/10/2009 to 18/12/2009.

JOSEPHY, S. 2009. Group Exhibition: *Chobi Mela V International Festival of Photography, Bangladesh, 2009*. Curated by Shahidul Alam. Goethe Institute. 30/01/2009 to 20/02/2009.

JOSEPHY, S. 2009. Group Exhibition: *Format International Photography Festival: Photocinema*. Curated by Louise Clements. QUAD, Derby, United Kingdom. 06/03/2009 to 05/04/2009.

VAN DER SCHIFF, L.J. 2009. Group Exhibition: *Spot on... DAK'ART*. The Institut fr Auslandsbeziehungen (Institute for Foreign Cultural Relations, ifa). The Institut fr Auslandsbeziehungen - ifa, ifa-Gallery, Berlin, Germany. 03/04/2009 to 21/06/2009 and ifa, ifa-Gallery, Stuttgart, Germany. 15/10/2009 to 03/01/2010.

WORLD SINGS SOPRANO'S PRAISES

UCT graduate and rising opera star Pretty Yende wowed the audience and the jury to make history at the Hans Gabor Belvedere International Singing Competition, where, competing against 158 other candidates from across the globe, she won all the first prizes. Yende walked off with the honours in the opera and operetta category, and received the Media Jury Prize, the Audience Prize and the Chambre Professionnelle des Directeurs d'Opera Prize. It is the first time in the history of the competition that one singer has managed this feat. She was then invited to perform in a number of international operas, and landed engagements with prestigious opera houses such as Opera Graz, Deutschen Oper Am Rhein, Stadttheater Klagenfurt, and Wiener Kammeroper, and received an invitation to perform in a concert at La Scala. "I was very shocked that I won so many prizes," says Yende. "When my name was called the first time I was very excited that I had at least won one prize. And then it just went on and on and on."



VAN DER SCHIJFF, L.J. 2009. Group Exhibition: *Ways of life, reconsideration. Exhibition of African designers*. 2nd edition of the Pan-African Festival of Algiers. Le Muse national d'art moderne et contemporain d'Alger (MAMA), Algeria. 05/07/2009 to 20/07/2009.

YOUNGE, J.G.F. 2009. Group Exhibition: *Re)Connaitre l'Afrique*. Curated by Jean Paul Bath. L'Escale Galerie, Levallois, Paris, France. 01/01/2009 to 31/01/2009.

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DEPARTMENT OF HISTORICAL STUDIES

(INCLUDING THE CENTRE FOR POPULAR MEMORY.)

EDITED BOOKS

ADHIKARI, M. (ED.) 2009. *Burdened by Race: Coloured Identities in Southern Africa*. 272 pp. Cape Town: UCT Press. ISBN 9781919895147.

CESARANI, D., KUSHNER, T. AND SHAIN, M. (EDS.) 2009. *Place and Displacement in Jewish History and Memory: Zakor v'Makor*. 189pp. London: Vallentine Mitchell. ISBN 9780853039402.

CHAPTERS IN BOOKS

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MENDELSON, R. AND SHAIN, M. 2009. Constructing a usable past: history, memory and South African Jewry in an age of anxiety. In D. Cesarani, T. Kushner and M. Shain (Eds.), *Place and Displacement in Jewish History and Memory: Zakor v'Makor*, pp. 43-52. London: Vallentine Mitchell. ISBN 9780853039402.

PHILLIPS, H. 2009. How did South African universities come about? In J. Fourie (Ed.), *Let's Talk About Varsity*, pp. 45-52. Stellenbosch: Gabemba. ISBN 9780620445054.

SAUNDERS, C.C. 2009. The Angola/Namibia Crisis of 1988 and its resolution. In S. Onslow (Ed.), *Cold War in Southern Africa*, pp. 225-240. London: Routledge. ISBN 041547205.

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SHAIN, M. 2009. Antisemitism and the Far Right in South Africa, 1930-1994. In M. Baumgarten, P. Kenz and B. Thompson (Eds.), *Varieties of Antisemitism*, pp.

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ENCYCLOPAEDIA ENTRIES

PHILLIPS, H. 2009. Epidemics. In A. Iriye and P.-Y. Saunier (Eds.), *The Palgrave Dictionary of Transnational History. From the mid-19th Century to the Present Day*, pp. 341-344. United Kingdom: Palgrave Macmillan. ISBN 9781403992956.

ARTICLES IN PEER-REVIEWED JOURNALS

BICKFORD-SMITH, V. 2009. Creating a city of the tourist imagination: the case of Cape Town, "The Fairest Cape of Them All". *Urban Studies*, 46(9): 1763-1785.

GESCHIER, B. 2009. Nobody says how people died of heartache: constructing a primary narrative in a pedagogical setting. *Southern African Review of Education*, 15(1): 79-95.

GODBY, M.A.P. 2009. Color in the representation of the South African townships. *NKA Journal of Contemporary African Art*, 24: 72-81.

GODBY, M.A.P. 2009. The photograph album of an unknown American missionary in Natal, c.1930: the good news and the bad. *South African Historical Journal*, 61(2): 15.

NASSON, W.R. 2009. The deal (2007): Gladstone, Disraeli and a South African historian in the court of Hollywood. *Historical Journal of Film Radio and Television*, 29(3): 365-379.

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SAUNDERS, C.C. 2009. Namibian solidarity: British support for Namibian Independence. *Journal of Southern African Studies*, 35(2): 437-454.

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SAUNDERS, C.C. AND COLENSO, G. 2009. New light on the Pan-African Association: part 1. *African Research and Documentation*, 107: 18.

VAN VUUREN, L. 2009. 'And he said they were Ju/Wasi, the people...'. History and Myth in John Marshall's "Bushmen Films" 1957-2000. *Journal of Southern African Studies*, 35(3): 557-574.

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WORDEN, N.A. 2009. Demanding satisfaction: violence, masculinity and honour in late eighteenth-century Cape Town. *Kronos: Southern African Histories*, 35: 32-47.

WORDEN, N.A. 2009. Roundtable review article: Networks of Empire. *International Journal of Maritime History*, 21(1): 335-340.

WORDEN, N.A. 2009. The changing politics of slave heritage in the Western Cape, South Africa. *Journal of African History*, 50: 23-40.

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ISAAC AND JESSIE KAPLAN CENTRE FOR JEWISH STUDIES AND RESEARCH

Please refer to <http://www.research2009.uct.ac.za> for the 2009 profile of the Isaac and Jessie Kaplan Centre for Jewish Studies and Research.

SCHOOL OF LANGUAGES AND LITERATURES

AUTHORED BOOKS

BOBODO-MADIKIZELA, P. AND VAN DER MERWE, E.N. 2009. *Memory, Narrative and Forgiveness. Perspectives on the Unfinished Journeys of the Past*. UK: Cambridge Scholars Publishing. 424pp. ISBN 1443801585.

YARDLEY, J.C. AND ATKINSON, J.E. 2009. *Curtius Rufus: Histories of Alexander the Great, Book 10*. Oxford: Oxford University Press. 288pp. ISBN 9780199557622.

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CORNILLE, J.-L. 2009. la belle dorlotée (bordel Baudelaire). In N. Dodille (Eds.), *idées et représentations coloniales dans l'océan indien*, pp. 583-594. Paris: Univ Paris Sorbonne. ISBN 9782840506072.

HAMBIDGE, J.H. 2009. Oor berge in en dale. In D. Marais (Ed.), *As Almal Ver Is*, pp. 85-89. Cape Town: Tafelberg Publishers. ISBN 9780624048015.

HAMBIDGE, J.H. 2009. Less is (M)Orr: Après le deluge (or rather more or less...): An essay about and conversation with Margaret Orr. In M. Steyn and M. van Zyl (Eds.), *The Prize and the Price: Shaping Sexualities in South Africa*, pp. 234-263. Cape Town: HSRC Press. ISBN 9780796922397.

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REISENBERGER, A. 2009. A Jewish perspective. In C. van der Merwe (Ed.), *Ancient Tales for Modern Times*, pp. 181-185. Wellington: Lux Verbi. ISBN 9780796307897.

REISENBERGER, A. 2009. Translating spirituality into words. In M. Pillay, S. Nadar and C. Le Bruyns (Eds.), *Ragbag Theologies: Essays in Honour of Denise M Ackerman - A Feminist Theology of Praxis*, pp. 85-94. Stellenbosch: Sun Press. ISBN 9781920338169.

WARDLE, D. 2009. Julius Caesar and religion. In M. Griffin (Ed.), *A Companion to Julius Caesar*, pp. 100-111. United Kingdom: Blackwell Publishing. ISBN 9781405149235.

WARDLE, D. 2009. Octavian's Dream Team. In R. Pognault (Ed.), *Présence de Suétone*, pp. 133-143. Paris: Clermont-Ferrand. ISBN 2900479169.

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ATKINSON, J.E., TRUTER, E. AND TRUTER, E. 2009. Alexander's Last Days: Malaria and Mind Games? *Acta Classica*, LII: 23-46.

EHANDLER, E.E. 2009. Madness in Homer and the verb mainomai. *Acta Classica, supplementum III*: 8-18.

CORNILLE, J.-L. 2009. Derniers Tours. *Nottingham French Studies*, 48(1): 47-68.

CORNILLE, J.-L. 2009. Pot-pourri (de la Nouvelle américaine aux Petits Poèmes en Prose). *Revue de Littérature comparée*, 2: 151-163.

CORNILLE, J.-L. 2009. Un alphabet pour les initiés (Proust et Joyce). *Cahiers Internationaux de Sociologie*, 122-123-124: 45-58.

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CORNILLE, J.-L. 2009. Genèse d'un mauvais genre: la pose du poème en prose baudelairien. *Arena Romanistica: Journal of Romance Studies*, 5: 58-75.

CORNILLE, J.-L. 2009. Hypnos y Morfeo o el sueño del traductor Una alegoría (Baudelaire entre Poe y De Quincey). *Vasos Comunicantes*, 4(2008-2009): 41-49.

CORNILLE, J.-L. 2009. La muerte del editor (Echenoz y Lindón). *Trama y Texturas*, 10: 113-126.

CORNILLE, J.-L. 2009. Le complexe d'Érostrate - L'anticipation du Baudelaire dans Le Mur. *Etudes Sartriennes*, 13: 189-212.

NYAMENDE, M.A.E. 2008. Beyond 2000: Sharpening the focus on the indigenous languages. *South African Journal of African Languages*, 28(2): 126-132.

REISENBERGER, A. 2009. Religious education through literature. *Jewish Affairs*, 64(1): 38-43.

SMUTS, L. 2009. Die "ek" in (YK): Die desentralisasie van die subjek in Breyten Breytenbach se digbundel ("YK"). *Tydskrif vir Letterkunde*, 46(2): 81-96.

SHYMAN, I.W.O. 2009. The loneliness of two long-distance rationalists: Gellner and Bassani. *Italian Studies in Southern Africa*, 22(2): 24-56.

WYNCHANK, A. 2009. Deux visions d'une reine berbère: La Kahena, héroïne féministe ou hétéroicière. *Australian Journal of French Studies*, XLVI(1-2): 83-96.

WYNCHANK, A. 2009. Perception of the relationship France/Africa by the Frenchman André Gide and the Guinean Camara Laye. *Tydskrif vir Letterkunde*, 46(1): 179-191.

WYNCHANK, A. 2009. Le Franc de Djibril Diop Mambety, une réinvention du cinéma africain. *Revue de l'Université de Moncton*, 40(1): 1-5.

ENCYCLOPEDIA ENTRIES

ATKINSON, J.E. 2009. Entries on Alexander the Great and Arrian. *Encyclopedia of the Bible and its Reception*, Vols. 1 and 2: 743-747 and 811-815.

EXHIBITION ON REPRESENTATION OF DISEASE

Associate Professor Fritha Langerman, from UCT's Michaelis School of Fine Art, is the creator behind *Subtle Thresholds*, which has been on exhibition at the South African Museum in Cape Town since 25 July 2009 (and will run until the end of July 2010). "This project includes all of my research interests," says Langerman, whose visual research centres around taxonomies of knowledge, the representation of the biomedical body and curation. Part of Langerman's PhD research, *Subtle Thresholds* is a curated mixed-media work with objects from the collections of the South African Museum and the University of the Witwatersrand's Adler Museum. The exhibition presents an exploded view of the biomedical world and works with conceptual and material layering. It includes "viral light boxes" constructed from pharmacological labware, laser-cut metal discs, both chromed and rusted, electron microscope images of animal faeces, autoclaves and sterilisers tethered to medical cabinets, and cabinets of animal specimens collapsed with medical instruments. "Subtle Thresholds draws attention to debates surrounding biomedical visual and material culture, and presents a complex visual network of the inter-relationships between zoological, human and microbial worlds," explains Langerman. "It also aims to expose some of the cultural and historical mythologies that have contributed to the location of disease as a state of otherness and separation."



WARDLE, D. 2009. Alexander Severus. *Encyclopedia of the Bible and its Reception*, Vol. 1: 741.

WARDLE, D. 2009. Annals. *Encyclopedia of the Bible and its Reception*, Vol. 2: 45-47.

WARDLE, D. 2009. Antoninus Pius. *Encyclopedia of the Bible and its Reception*, Vol. 2: 296-298.

WARDLE, D. 2009. Asiarchs. *Encyclopedia of the Bible and its Reception*, Vol. 2: 1042-1043.

PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS

SMAUSE, M.R., GXILISHE, D.S. AND DE VILLIERS, J. 2009. Children's insensitivity to information from the Target of Agreement: the case of Xhosa. In J. Crawford, K. Otaki and M. Takahashi (Eds.), *Proceedings of the 3rd Conference on Generative Approaches to Language Acquisition North America (GALANA 2008)*, 4-6 September 2008, University of Connecticut, Somerville, MA USA: Cascadia Press. ISBN 9781574734362.

CREATIVE WRITING

ANTHOLOGY OF POEMS

HAMBIDGE, J.H. 2009. *Vuurwiel*. 120pp. Cape Town: Human & Rousseau.

POEMS PUBLISHED IN ANTHOLOGIES

REISENBERGER, A. 2009. 1. last testament 2. my father's gift. In H.A. Hodge (Ed.), *New Contrast South African Literary Journal*, pp. 74-74. Cape Town: Tandym Print.

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SOUTH AFRICAN COLLEGE OF MUSIC

ARTICLES IN PEER-REVIEWED JOURNALS

HERBST, A. 2008. Editorial. *Journal of the Musical Arts in Africa*, 5: vii-vii.

LAREY, F. AND ENGELBRECHT, L. 2008. Challenges of score reduction for piano of a South African opera: Hans Huyssen's *Masque*. *Journal of the Musical Arts in Africa*, 5: 37-71.

CREATIVE WORKS

ARRANGEMENTS

CAMPBELL, M.I. 2009. *Into Yam/Nomeva/Baby Ntshware*. Soloist, symphony orchestra and jazz rhythm section. 7 min.

CAMPBELL, M.I. 2009. *Malaika*. Soloist, symphony orchestra and jazz rhythm section. 4 min.

CAMPBELL, M.I. 2009. *Mama Ndyalila*. Soloist, Symphony orchestra and jazz rhythm section. 5 min.

CAMPBELL, M.I. 2009. *Mayibuye*. Soloist, symphony orchestra and jazz rhythm section. 5 min.

CAMPBELL, M.I. 2009. *Soweto blues*. Soloist, symphony orchestra and jazz rhythm section. 4 min.

CAMPBELL, M.I. 2009. *Woza*. Soloist, symphony orchestra and jazz rhythm section. 5 min.

HAUBRICH, W. 2009. *Fifa Theme (orchestration)*. Commissioned by Richard Cock Musical Enterprises. Orchestra, rhythm section, dancers. 8 min.

HAUBRICH, W. 2009. *Handel's Queen of Sheba comes to the Cape*. Commissioned by Richard Cock Musical Enterprises. Orchestra, rhythm section, dancers. 8 min.

HOFMEYR, H.P. 2009. *Al lê die berge nog so blou*. Commissioned by Pro Cantu Choir. Mixed choir, violin. 4 min.

HOFMEYR, H.P. 2009. *Vaarwel my eie soetelief*. Commissioned by Pro Cantu Choir. Treble choir. 4 min.

COMPOSITIONS

HAUBRICH, W. 2009. *AfriSax suite*. Commissioned by Doug Masek. Two saxophones, tape. 11 min.

HAUBRICH, W. 2009. *Kraal*. Requested by University of Southern California Thornton School of Music. Brass quintet, African marimba band. 6 min.

Research Output

HOFMEYR, H.P. 2009. *Il giardino delle Esperidi*. Requested by Raffaele Trevisani. Solo flute, flute sextet. 9 min.

HOFMEYR, H.P. 2009. *It takes two*. Requested by Trio Hemanay. Flute, cello, piano. 7 min.

HOFMEYR, H.P. 2009. *Saartjie*. Chamber opera. Commissioned by the Gordon Institute for the Performing and Creative Arts (GIPCA) for the SA College of Music centenary celebrations. Soprano, mixed chorus, chamber orchestra. 21 min.

HOFMEYR, H.P. 2009. *Wynverse* (Hennie van Coler). Commissioned by Woordpoort Festival, Pretoria. High voice, piano. 5 min.

KLATZOW, F. 2009. *Words from a broken string*. Chamber opera. Commissioned by GIPCA for the SA College of Music centenary celebrations and dedicated to Pippa Skotnes. Solo voices, choir, orchestra. 20 min.

KLATZOW, P.J.L. 2009. *24 Preludes for piano*. Dedicated to Joseph Stanford. 40 min.

KLATZOW, P.J.L. 2009. *Night sky, distant water*. Requested by and dedicated to Kotaro Fukuma for his 30th anniversary. Solo piano. 6 min.

LILLEY, A.C.P. 2009. *Brother gone*. Commissioned by the South African Music Rights Organisation (SAMRO). Jazz Septet. 7 min.

LILLEY, A.C.P. 2009. *Song for Bheki*. Commissioned by SAMRO. Jazz septet. 8 min.

LILLEY, A.C.P. 2009. *York Street*. Commissioned by SAMRO. Jazz septet. 8 min.

STELTZNER, B. 2009. *Kabaud, Solo de Concours (orchestration)*. Requested by the South African College Schools (SACS) Concerto Festival. Arranger. 8 min.

WATT, M.E. 2009. *Lied en lewe*. Commissioned by the Federasie van Afrikaanse Kultuurverenigings (FAK) for the 2009 Woordpoort Arts Festival, University of Pretoria. Soprano, piano. 10 min.

WATT, M.E. AND ROUX, A. 2009. *Tronkvoël*. Chamber opera. Commissioned by GIPCA in collaboration with Cape Town Opera. Soloists, male chorus and orchestra. 20 min.

PERFORMANCE PRACTICE

ROSSI, M.J. AND COOPER, G.E. 2009. Long Island University (LIU) presents a workshop on South African Jazz

by Dr Mike Rossi, University of Cape Town. 8 December. Lecture and performance demonstrations to general public and LIU students. Long Island University, Brooklyn, New York. Commissioned by KIC Travel Grant, NRF.

PERFORMANCES

BACHAROVA, F.A., DANIEL, P. AND CFO, 2009. *Violin Concerto No. 3 (Mozart), Symphony No. 7. (Beethoven)*. City Hall, Cape Town. 9 April 2009. Leader, solo violin. 120 min.

BACHAROVA, F.A., DU TOIT, G.F. AND CHERNEV, C. 2009. *Trio in D Minor Op. 29 (Mendelssohn)*. Baxter Concert Hall, Cape Town. 24 February. 30 min.

BACHAROVA, F.A., FOURIE, E., GOODWIN, P. AND CHERNEV, C. 2009. *Bacharova Quartet Recital. Quartet No. 2 (Barodin), Quartet Op. 76 No. 4 (Haydn), Quartet Op. 13 No. 2 (Mendelssohn), Two Pieces for String Quartet (Shostakovich)*. Baxter Concert Hall, Cape Town. 9 November. Leader, violin. 90 min.

BACHAROVA, F.A., HOFMEYR, H. AND BRITS, O. 2009. *Lied van die somerwind for flute and violin*. The Darling Music Experience, Darling. 8 February. Violinist, composer 12 min.

BACHAROVA, F.A., HUGHES, O.A. TAN, M. AND CFO, 2009. *Piano Concerto (Schumann), Symphony No. 4 (Bruckner)*. City Hall, Cape Town. 26 November. Leader. 90 min.

BACHAROVA, F.A., KLIMASARA, M., HASSE, I., WASHINGTON, C. AND SNAITH, D. 2009. *Going with the grain (Butler)* Endler Hall, Stellenbosch. 8 July. Violinist. 30 min.

BACHAROVA, F.A., MITCHELL, P., MAGALHAES, L., MARTENS, S., LESCH, D., COETZEE, P., DAVEY, C., DIPPENAAR, L., BENBOOI, S., GROENEWALD, H., CHRISTA, K., LE ROUX, C., SPEYERS, G., MARTENS, P., MALAN, J.P., DU PLESSIS, A., BOSCH, L. AND APPELSTAEOT, N. 2009. *Concerto for Violin and Piano with String Orchestra in D (Mendelssohn)*. Endler Hall, Stellenbosch. 9 July. Violinist. 37 min.

BACHAROVA, F.A., NATANIEL, N., ROBERTS, G., HASSE, I., CARTER, J., WASHINGTON, L., PEREIRA, A., VAN RENEN, C., GHESQUIERE, R., BRITZ, S., KLIMASARA, M., DU TOIT, A., HOFMEYR, Z., ROUSSOPOULOS, N., SNAITH, D., HARLEY, J.H., VAN DER WESTHUIZEN, A., MALAN, J.P. AND MEYER, M. 2009. *Stellenbosch International Chamber Music Festival. Peter and the wolf Op. 67 (Prokofiev)*. Endler Hall, Stellenbosch. 6 July. Violinist. 40 min.

BACHAROVA, F.A., QUINT, P. HUGHES, O.A. AND CFO, 2009. *CPO Symphony Concert. Overture to Candide (Bernstein), Violin Concerto (Korngold), Symphony No. 10 (Shostakovich)*. City Hall, Cape Town. 19th November. Leader. 90 min.

BACHAROVA, F.A., ROMERO, G., DANIEL, P. AND CFO, 2009. *Romeo and Juliet Suite (Prokofiev), Piano Concerto No. 2 (Prokofiev), Ride of the Valkyries Prelude (Wagner), Liebestod from Tristan and Isolde (Wagner), Prelude, Act 3 from Lohengrin (Wagner)*. City Hall, Cape Town. 2 April. Leader, solo violin. 120 min.

BACHAROVA, F.A., YAMPOLSKY, V., VONDRAČEK, L. AND CFO, 2009. *Variations on a Theme by Tchaikovsky Op. 36a (Arensky), Variations on a Theme by Paganini (Racmaninov), Sheherazade (Rimski-Korsakov)*. City Hall, Cape Town. 30 April. Leader, solo violin. 120 min.

CAMPBELL, M.I. AND UCT BIG BAND. 2009. *National Youth Jazz Festival*. DSG Campus, Grahamstown. 1 July. Conductor, composer, arranger. 35 min.

CAMPBELL, M.I., MARUNSKY, M., BLASER (SWITZERLAND), S., WASHINGTON (US), S., LAKSO (SWEDEN), T. AND GIBSON, K. 2009. *United Nations Sextet. Joy of Jazz Festival Grahamstown, Grahamstown*. 2 July. Bassist, director. 75 min.

CAMPBELL, M.I., OTTAR, N., SNIJDERS (HOLLAND), R., SCHILDER, H. AND LENGUASA, P. 2009. *International Rhythm Exchange. Joy of Jazz Festival Grahamstown, Grahamstown*. 17 August. Bassist, director. 75 min.

CAMPBELL, M.I., SELOTA, S., MNGOMA, S., USE THORNTON AND PLAATJES, M. 2009. *African Renaissance. USC Thornton School of Music. Bovard Auditorium, University of South California*. 1 April. Composer, arranger. 90 min.

DU TOIT, G.F. AND GRINGOLTS, I. (RUSSIAN VIOLINIST) 2009. *Sonata No. 4 in A Minor (Beethoven), Sonata No. 1 in F (Grieg), Souvenir dun lieu cher Op. 42 (Tchaikovsky), La Berceuse d'Aitacha Enia Op. 52 (Szymanowski), Nocturne and Tarantella Op. 28 (Szymanowski)*. Endler Hall, Stellenbosch, Baxter Concert Hall, Cape Town. 20, 21, 23, 28 February, 1 March. Duo. 80 min.

DU TOIT, G.F. AND JOHANNESBURG PHILHARMONIC ORCHESTRA. 2009. *Piano Concerto No. 2 (Shostakovich)*. Linder Auditorium, Johannesburg. 18, 19 March. Soloist. 30 min.

DU TOIT, G.F. AND KWAZULU-NATAL PHILHARMONIC ORCHESTRA. 2009. *Piano Concerto (Grieg)*. City Hall, Durban. 21 May. Soloist. 30 min.

JOINT WINNERS OF UCT 2009 BOOK AWARD

It doesn't happen too often, but the 2009 UCT Book Award was awarded to two scholars, both from the Faculty of Humanities. Prof. Pippa Skotnes of Michaelis School of Fine Art was awarded the prize for her work *Claim to the Country: The Archive of Wilhelm Bleek and Lucy Lloyd*. Anthropologist David Lewis-Williams regards the book as "surely the most amazing ethnographic source in the world". (Also see page 93). Prof. Nigel Penn of the Department of Historical Studies was recognised for his book *Forgotten Frontier: Colonist and Khoisan on the Cape's Northern Frontier in the 19th Century*. In the book, released in 2006, Penn resurrects the history of the Northern Cape frontier. Relying primarily on records of the Dutch East India Company, he argues that the Northern Cape played a crucial role in shaping the attitudes and institutions that contributed to the subjugation of the Khoisan people. The move into the interior by the Dutch colonists had by the end of the eighteenth century, says Penn, either reduced these herders and hunters into an underclass in the colonial world, or expelled them beyond it.



DU TOIT, G.F. STELTZNER, B. AND AMADEUS WINDS. 2009. *Quintet in E flat K.452, (Mozart) Quintette (Taffanel), Quintet in E flat Op. 16 (Beethoven)*. Baxter Concert Hall, Cape Town. 13 June. Pianist, clarinetist. 60 min.

DU TOIT, G.F., LAREY, F., VAN SCHALKWYK, A. AND UCT STRING ORCHESTRA. 2009. *Triple Piano Concerto (Bach)*. Baxter Concert Hall, Cape Town. 22 September. 25 min.

HAUBRICH, W. 2009. *Kraal, at African Renaissance: connecting cultures through musical journeys*. South African marimba musicians, students of USC's Thornton school of Music, Los Angeles. Bovard Auditorium, USC's Thornton School of Music, Los Angeles. 1 April. Performer, arranger, composer. 6 min.

HAUBRICH, W., ROSSI, M.J. AND BLAKE, M. 2009. *Kat Pack Christmas*. New Space Theatre, Cape Town. 18-28 November. Trombonist. 120 min.

HOFMEYR, H.P. AND HEMANAY, T. 2009. *It takes two for flute, cello and piano*. Grahamstown National Arts Festival, Grahamstown. 8 July. Composer. 7 min.

HOFMEYR, H.P. AND JEN, S. 2009. *Preludio and Umsindo from Partita africana for piano*. Sala Koncertowa Orkiestry, Zamosc, Poland. 9 October. Composer. 9 min.

HOFMEYR, H.P. AND KRIVOKAPIC, G. 2009. *Lachrymae for guitar*. Concertgebouw, Amsterdam, Netherlands, 26 September; Dialograum, Bonn, Germany, 4 November; Musikschule der Stadt Wese, 15 November. Composer. 14 min.

HOFMEYR, H.P. AND SERFONTEIN, M. 2009. *Vier gebede by jaargetye in die Boland (Hofmeyr), Die Vrou*

(Du Plessis). Gala Concert, Odeion, Bloemfontein. 25 June. Composer, pianist. 40 min.

HOFMEYR, H.P. AND IHANG, D. 2009. *Partita for double-bass*. Vancouver Recital Society, Vancouver, Canada. 1 March. Composer. 13 min.

HOFMEYR, H.P., AXEL, B., LUCKERT, L. AND LOMBARD, B (PIANO). 2009. *Notturmo elegiaco for violin, cello and piano*. Noces en los jardines del Real Alcazar, Alcazar, Spain. 14 August. Composer. 8 min.

HOFMEYR, H.P., GUROVA, M. AND SMIT, C. 2009. *En skielik is dit aand*. Song cycle for soprano and piano. Radio Vaticano, Italy (broadcast). 4 March. Composer. 13 min.

HOFMEYR, H.P., HOFMEYR, Z. AND NAY, M. 2009. *Sonata I for violin and piano*. Northwards, Johannesburg. 10 May. Composer. 22 min.

HOFMEYR, H.P., KRIVOKAPIC, G. AND SMIT, C. 2009. *Rapsodia notturna for guitar and piano*. Studio Hangstein, Lemgo, Germany. 5 September. Composer. 14 min.

KHAN, K. 2009. *Comfort ye: a benefit for the homeless*. Metropolitan Opera and New York City Opera, Symphony Space, New York. 21 December. Pianist. 150 min.

KHAN, K. 2009. *Dead man walking (Heggie)*. Artscape Opera House, Cape Town. 16, 22, 24, 30 October. Conductor. 180 min.

KHAN, K. 2009. *Elisir D'Amore (Donizetti)*. Baxter Concert Hall, Cape Town. 23, 25, 26, 27, 28, 29 August. Conductor. 160 min.

KHAN, K. 2009. *Winnie (Ndodana-Breen)*. Durban Playhouse, Durban. 12 July. Conductor. 30 min.

KLATZOW, P.J.L. AND GE, P. 2009. *Sonata for piano (2004)*. Sydney Conservatorium of Music, West Recital Hall, Sydney, Australia. 16 June. Composer. 20 min.

KLATZOW, P.J.L. AND LASAREFF-MIRONOFF, C. (VIOLA). 2009. *Sonata for solo viola (2008)*. Faculty Chamber Music Concert, Knuth Hall, San Francisco State University. 7 July. Composer. 13 min.

KLATZOW, P.J.L. AND PUCHHAMMER-SEILLIOT, J. 2009. *Sonata for solo viola (2008)*. Canadian Viola Festival, Montreal, Canada. 10, 11 October. Composer. 13 min.

LAREY, F. 2009. *Solo Recital*. Lindbergh Arts Foundation, Muizenberg. 25 March. Soloist. 40 min.

LAREY, F. AND DU TOIT, G.F. 2009. *Piano Four-Hands Recital*. Bellville Civic Centre, Bellville. 15 April. Duo. 60 min.

LAREY, F. AND TIKOLO, P.S. 2009. *Lieder Recital*. Baxter Concert Hall, Cape Town. 17 March. Accompanist. 70 min.

LIEBL, L.B. AND COMBRINK, A. 2009. *Solo Voice Recital*. Hermanus Music Society, Hermanus. 29 May. Baritone soloist. 70 min.

LIEBL, L.B. AND KHAN, K. 2009. *Dead man walking*. Artscape Opera House. 16-30 October. Baritone. 150 min.

LIEBL, L.B., VAN SCHALKWYK, A. AND VAN NIEKERK, H. 2009. *Art Song Recital of Richard Strauss and Stephen Foster*. Nassau Centre, Cape Town. 22 February. Baritone soloist. 40 min.

Research Output

LILLEY, A.E.P. 2009. *The Waiters live in Cape Town, featuring Black Market*. Witteboom Civic Centre, Cape Town. 2 November. Pianist, composer. 60 min.

LILLEY, A.E.P., ANDREWS, D.I., PETERSEN, A.M., SOTSHONONZA, B., SCOTT, C., UCT BIG BAND AND UCT SYMPHONY ORCHESTRA. 2009. *SAMRO Symphonic Jazz Concert*. Baxter Concert Hall, Cape Town. Conductor, arranger. 90 min.

ROSSI, M.J. AND BRUBECK, D.B. 2009. *The Darius Brubeck Quartet*. The Bulls Head, Barnes, United Kingdom. 11 July. Performer, soloist. 120 min.

ROSSI, M.J. AND BRUBECK, D.B. 2009. *The Darius Brubeck Quartet*. The Pizza Express, London. 13 July. Performer, soloist. 120 min.

ROSSI, M.J., BRUBECK QUARTET, D., RIDLEY, M. AND GIBBONS, W. 2009. *Chichester Jazz Festival*, United Kingdom. 8 July. Performer, soloist. 120 min.

STELTZNER, B. AND CAPE TOWN OPERA. 2009. *Cunning little vixen (Janáček)*. Artscape, Cape Town. 20–28 November, 5 performances. Principal clarinet. 105 min.

STELTZNER, B. AND DU TOIT, F. 2009. *Second D. Mus. solo recital. Sonata in B flat (Sciaroli), Andantino and Scherzo Brillante (Jeanjean), Time Pieces (Muczynski), Sonata in F Minor, Op. 120, No.1. (Brahms)*. Chisholm Recital Room, Cape Town. 1 December. 60 min.

WATT, M., LE ROUX, J. AND PRANDI, E. 2009. *Vyf liedere for tenor and piano (Eugène Marais)*. Grosses Haus Landestheater Eisenach, Germany. 21 September. Composer. 10 min.

WATT, M.C., LE ROUX, J., AND PRANDI, E. 2009. *Vyf liedere for tenor and piano (Eugène Marais)*. Grosses Haus Landestheater Eisenach, Germany. 21 September. Composer. 20 min.

WATT, M.C., LE ROUX, J. AND TSIALIS, J. 2009. *Five Mtshali songs for tenor and chamber orchestra*. Kammerspiele des Südthüringisches Staatstheater, Meiningen, Germany. 11 April. Composer. 15 min.

RECORDINGS

BÁCHAROVA, F.A. 2009. *Alfred Schnittke Concerto Grosso No. 1 and Symphony No. 9*. Cape Philharmonic Orchestra, O.A. Hughes. Released by BIS Records, Sweden. BIS-CD-1727. Leader, soloist. 60 min.

LILLEY, A.E.P. 2009. *Jazzing and jiving: the Cape Town sessions*. Released by ACM, ACM C00061. Composer and performer. 70 min.

ROSSI, M.J. AND WELLER, A.W. 2009. *Twenty fabulous fingers*. Released by the performers. 6009632293372. Performer. 52 min.

ROSSI, M.J., BEBELAAR, P. AND SUESSE, K. 2009. *Jazz und Elektronik: live at the Baxter*. Released by the performers. 009632293389. Composer, performer. 64 min.

STELTZNER, B. AND SAXOFOURTE (SAXOPHONE QUARTET) 2009. *Hambani kakuhle Kwela*. Released by Bannoutah: African Music for Saxophone Quartet, 36music CD36008. 3 min.

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DEPARTMENT OF PHILOSOPHY

CHAPTERS IN BOOKS

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DEPARTMENT OF POLITICAL STUDIES

AUTHORED BOOKS

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DU TOIT, A. 2009. Institutionalizing free inquiry in universities during regime transitions: the South African case. *Social Research*, 76(2): 627–658.

MILNE, C. 2009. Affirmative action in South Africa: from targets to empowerment. *Journal of Public Administration*, 44: 969–990.

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BOOK TACKLES MEMORY AND TRAUMA

In 2006, Associate Professor Chris van der Merwe of the Afrikaans Studies section and Professor Pumla Gobodo-Madikizela of the Department of Psychology joined up to host a conference titled *Memory, Narrative and Forgiveness: Reflecting on Ten Years of the Truth and Reconciliation Commission (TRC)*. The occasion brought together an international group of scholars to reflect on the work of the TRC, and its impact across the globe. In 2009, Van der Merwe and Gobodo-Madikizela teamed up again to edit *Memory, Narrative and Forgiveness: Perspectives on the Unfinished Journey of the Past*. While inspired by the TRC, an interdisciplinary team of scholars identify historical events beyond the TRC to explore the opportunities and challenges for reconciliation and forgiveness to victims, perpetrators and bystanders. The contributors investigate the relation between trauma and memory, and the complex, interconnected issues of trauma and narrative; the changing role of memory in the aftermath of mass trauma; and the potential of forgiveness to heal.



NAIDOO, V. 2009. The provincial government reform process in South Africa: policy discretion and developmental relevance. *Politikon*, 36(2): 259-274.

NASH, A.J. 2009. Zen Communist: Breyten Breytenbach's view from underground. *Tydskrif vir Letterkunde*, 46(2): 11-27.

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DEPARTMENT OF PSYCHOLOGY

EDITED BOOKS

GOBODO-MADIKIZELA, P. AND VAN DER MERWE, C.N. (EDS.) 2009. *Memory, Narrative and Forgiveness: Perspectives on the Unfinished Journeys of the Past*. UK: Cambridge Scholars Publishing. 424pp. ISBN 1443801585.

CHAPTERS IN BOOKS

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GOBODO-MADIKIZELA, P. 2009. Working through the past: some thoughts on forgiveness in cultural context. In P. Gobodo-Madikizela and C.N. van der Merwe (Eds.), *Memory, Narrative and Forgiveness*, pp. 148-169. UK: Cambridge Scholars Publishing. ISBN 1443801585.

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Psychology, pp. 183-214. Second edition. Cape Town: UCT Press. ISBN 9781919895154.

THOMAS, K., MALCOLM-SMITH, S.M. AND BALL, M.L. 2009. Contributions of cognitive science approaches to cognitive developmental psychology. In J. Watts, K. Cockcroft and N. Duncan (Eds.), *Developmental Psychology*, pp. 436-457. Second edition. Lansdowne, Cape Town: UCT Press. ISBN 9781919895154.

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BANDAWE, C.R. 2009. A synopsis of the field health education in Malawi. *Malawi Medical Journal*, 21(4): 159-162.

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Research Output

- DU PLESSIS, N., KAGEE, A. AND MAW, A. 2009. Women's experiences of reporting rape to the police: a qualitative study. *Social Work*, 45(3): 275-289.
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ENGAGING WITH RHETORIC IN POLITICS

In his fascinating new book on rhetoric, *L'Hyperpolitique. Une passion française*, Distinguished Professor Ph.-J. Salazar from UCT's Centre for Rhetoric Studies shows how and why the refusal to deal positively with rhetoric in politics has led, in democratic countries, to the reinforcement of executive prerogatives and the decay of public debate. "Rhetoric is all about learning how living socially is a matter of transacting arguments", argues Salazar, in a profile run by leading French financial newspaper, *Le Nouvel Economiste*. He adds: "The political tragedy is that we use rhetorical technologies in a disorderly manner. Yet, to know how to argue is a civil right. What I would like to see is Rhetoric being taught in schools so that young people will know how to decipher arguments made by politicians, understand them and be able to argue back". French leadership consultants have showcased Salazar's views as a new trend in management, and he has also been approached by the French government's strategic think tank. He has appeared on French television, *Public-Sénat*, and he writes a regular chronicle on rhetoric and politics for a major French public intellectual online magazine, *L'Annuel des idées*.



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GIPCA, A FIRST FOR AFRICA

The Gordon Institute for Performing and Creative Arts (GIPCA), launched in late 2008 and funded generously by the Donald Gordon Foundation, provides exciting new opportunities to bring together centres and departments of art and production, theory and practice, thereby mediating the process of artists' creative collaborations. The Institute is rare in the sheer variety of disciplines with which it engages: incorporating live arts practice with less perishable or 'permanent' arts within a single organisation, celebrating the research embedded in arts scholarship, exploring the demands of spectacular media (such as theatre, dance, circus or opera) and their relationships to creative writing, art, scenography, architecture, design, metallurgy (and other arts), and collaborating in development of new art movements while re-investigating and re-invigorating old forms. GIPCA launched the Great Texts/Big Questions series in 2009, which offers lectures on great texts of all kinds – with 'texts' understood in a contemporary sense as written pieces as well as art from other media, such as performance – alongside the 'big questions' that plague (or should plague) listeners.



Great Texts/Big Questions speaker Dr. Mamphela Ramphele asks "To what extent has our transformation process embraced the intimate in public discourse?"

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CENTRE FOR SOCIAL SCIENCE RESEARCH

Please refer to <http://www.research2009.uct.ac.za> for the 2009 profile of the Centre for Social Science Research.

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UCT LIBRARIES

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Health Sciences

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PRIMARY HEALTH CARE DIRECTORATE

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DEPARTMENT OF RADIATION MEDICINE

DEPARTMENT OF SURGERY



"Above all, from bench to field, our research endeavours are closely aligned with the national health priorities and burden of disease, and every effort is made to ensure that the products of our research are translated into recommendations for action in the wider health sector"





Dean's Report

The research enterprise of the Faculty continues to be acknowledged globally, nationally and locally for its excellence. We are the only Health Sciences Faculty in Africa that has been listed in the top 200 of the Times Higher Education-QS World University Rankings in the field of Life Sciences and Biomedicine. In 2009 we were listed at 119, up from 148 in 2008. The next South African university in this category in 2009 was rated at 277.

At a national level, our research publication output in accredited journals has consistently exceeded that from any of the other universities. In 2008 we exceeded 300 units for the first time, and in 2009 we increased this by more than 10 per cent to reach 370 units. This figure is approximately 70 per cent more than that which was achieved five years ago. An analysis of the 2009 publications (where the UCT author is either the first or last author) indicates that most are in international journals and that they are of an exceptionally high quality, with at least 5 per cent in journals with an Impact Factor of more than 10, and 25 per cent in journals with an Impact Factor of more than 4. In addition, thirteen of the top 20 authors of journal articles at UCT for the period 2005–2009 are from the Faculty. Approximately 35 per cent of our publications are from members of the Institute of Infectious Disease and Molecular Medicine (IIDMM), which was officially launched in 2005.

In 2009, the Faculty generated more than R325 million in new research funding, which amounts to approximately 40 per cent of the University's total income. Faculty research income has almost doubled in the last five years and this has been largely due to income generated by members of the IIDMM. The major funders in 2009 included the National Institutes of Health, Aeras Global TB Vaccine Foundation, Wellcome Trust and the European Union. The South African Medical Research

Council (MRC) and National Research Foundation accounted for five and twelve per cent of income respectively and the pharmaceutical industry for just under five per cent. Our Faculty is also in the fortunate position of having approximately R7.5 million annually in discretionary funding, provided by a University block grant (R1.5 million) and income from investment and trusts (R6 million), that enables us to support strategically important initiatives including postdoctoral fellowships, MRC Career Development Awards and undergraduate research.

The number of students who registered for postgraduate studies increased by almost 40 per cent from 1066 in 2006 to 1481 in 2009. Most (625) were registered for master's degrees, including about 350 medical registrars (MMed). Of particular note is the increase in the number of doctoral students and postdoctoral fellows over the last five years; 235 and 47 registered in 2009. The majority of the postdoctoral fellows (31) were attached to members of the IIDMM.

Our Faculty was very successful in securing nine of the 20 Discovery Health Foundation Clinical Research Fellowships awards in 2009. This new and exciting initiative, launched in 2007, will play an important role in developing our physician-scientists. In addition, the Department of Medicine received a Discovery Foundation Excellence Award for training academic clinicians through research.

A hallmark of the research in the Faculty is the integration of the basic, clinical and public health disciplines into a variety of cross-cutting, multidisciplinary programmes. Much of this work is done in 21 of the 62 University accredited research entities housed in the Faculty. The 21 groups include nine MRC units. In the past year, four research groups underwent peer-review, and in all cases, the groups were complimented for their excellent work. In addition, during the year the UCT/MRC Exercise

Research Unit was made a FIFA Medical Centre of Excellence and selected as one of four International Olympic Committee Research Centres worldwide. The Centre for Occupational and Environmental Health Research was also re-accredited as a WHO Co-ordinating Centre and the Infectious Diseases Epidemiology Unit was upgraded and is now called the Centre for Infectious Disease Epidemiology Research. 2009 also saw the launch of the Chronic Diseases Initiative, located in the Department of Medicine, with significant funding from the NIH.

A number of individuals and groups achieved significant recognition for their research outputs at a national and international level. It would be an impossible task to list all the achievements in this short introduction. Nevertheless, one that stands out and that epitomises our approach to translational research is that of the SA Aids Vaccine Initiative's (SAAVI) HIV vaccine programme. In the year under review, two HIV vaccines developed at UCT have begun clinical testing in Crossroads, Cape Town, and at Chris Hani Baragwanath Hospital, Soweto, and in the USA. The trial, called SAAVI 102/HVTN 073, is being conducted jointly with the HIV Vaccine Trials Network and the US National Institute of Allergy and Infectious Diseases, which forms part of the US National Institutes of Health.

Above all, from bench to field, our research endeavours are closely aligned with the national health priorities and burden of disease, and every effort is made to ensure that the products of

our research are translated into recommendations for action in the wider health sector.

We would like to express our sincere thanks to the research community in the Faculty of Health Sciences for their excellent work in the past year, and acknowledge the support of the members of the Faculty Research Committee and the Faculty Human and Animal Ethics committees. We also express our appreciation to all the administrative and financial support staff in the Faculty and in the central research directorate for their excellent back-up and support, and we thank our funders and collaborators for their ongoing interest and belief in our work.

In 2009 we reviewed our research strategy and, in the coming years, we plan to increase our research productivity and outputs, as well as the quality and integrity of our research. Central to this will be the initiation of a number of innovative research activities and the promotion of collaboration amongst disciplines, departments, units and staff in the Faculty, with disciplines and colleagues from other faculties at UCT, and with academics at other universities nationally, on the African continent and internationally. Through these initiatives, we will contribute to raising the global profile of the Faculty and the University.

Professor Marion Jacobs

Dean of the Faculty of Health Sciences

Doctoral Graduations

A.B. ABERA (CLINICAL LABORATORY SCIENCES)

Characterization of signalling cross-talk between the EP2 and FP receptors in endometrial epithelial cells.

Supervised by Associate Professor A. Katz.

M.E.G. ARMSTRONG (HUMAN BIOLOGY)

Youth fitness testing in South African primary school children: national normative data, fitness and fatness, and effects of socioeconomic status.

Supervised by Professor M. Lambert and Professor E. Lambert.

L.B. DE AZEVEDO (HUMAN BIOLOGY)

Risk factors for Achilles Tendinopathy in runners - an investigation of selected intrinsic, kinematic and muscle activity factors that are associated with Achilles Tendinopathy.

Supervised by Professor M. Schwellnus, Professor M. Lambert and Professor C.L. Vaughan.

T.L. BURGESS (HUMAN BIOLOGY)

Cardio respiratory, kinematic, neuromuscular and metabolic characteristics during the recovery period after an ultra marathon race.

Supervised by Professor M. Lambert.

C. CHANG (CLINICAL LABORATORY SCIENCES)

Structure-function and transcription regulation studies of angiotensin-converting enzyme 2.

Supervised by Professor E.D. Sturrock.

D.R. CHOPERA (CLINICAL LABORATORY SCIENCES)

Impact of cytotoxic T lymphocyte (CTL) escape mutations in acute/early HIV-1 subtype C infection on disease progression.

Supervised by Associate Professor C. Williamson and Dr Z. Woodman.

J.M. DAIRE (HEALTH AND REHABILITATION SCIENCES)

Malawi's maternal and child health policies: analysis, lessons and strategies for addressing gaps.

Supervised by Professor D.D. Khalil and Dr M. Chirwa.

V. DAVIDS (LABORATORY SCIENCES)

Elevated levels of low molecular weight substances in the red cells of some mammalian species imply unsuspected antioxidant strategies.

Supervised by Emeritus Professor E. Harley and Associate Professor A. Katz.

E. DAVIS (HUMAN BIOLOGY)

The role of the developmentally important transcription factor, TBX2, in the cell cycle and cancer.

Supervised by Dr S. Prince.

R.A. DYER (ANAESTHESIA)

Haemodynamic consequences of spinal anaesthesia for non-emergency Caesarean section.

Supervised by Professor M.F.M. James.

K. DZOBO (CLINICAL LABORATORY SCIENCES)

Matrix-mediated regulation of type I collagen synthesis and degradation in cultured fibroblasts.

Supervised by Professor M.L. Parker and Dr V. Leaner.

A. HEMMERICH (HUMAN BIOLOGY)

Rotational stability of the reconstructed anterior cruciate ligament using single vs. double-bundle surgery.

Supervised by Professor C.L. Vaughan and Dr W. van der Merwe.

L.T. HILL (HUMAN BIOLOGY)

Corticotropin-releasing factor and acute post-operative gut function in traumatic abdominal injury and elective abdominal surgery.

Supervised by Professor S. Kidson and Professor W.L. Michell.

F.M. HOWELLS (HUMAN BIOLOGY)

The role of Norepinephrine in arousal and attention: a human and rat study.

Supervised by Professor V. Russell.

K.I. HUSSEIN (HUMAN BIOLOGY)

Computer models for the design and optimization of a linear slot scanning mammography system.

Supervised by Associate Professor T. Douglas and Professor C.L. Vaughan.

E.S.W. JONES (MEDICINE)

The R563Q mutation of the beta subunit of the epithelial sodium channel: prevalence and effect.

Supervised by Associate Professor B. Rayner, Dr P. Owen and Professor P. Meissner.

R. KEETON (CLINICAL LABORATORY SCIENCES)

The role of TNFRp55 and TNFRp75 in the host immune response to Mycobacterium tuberculosis.

Supervised by Dr M. Jacobs.

W.L. KRÖGER (CLINICAL LABORATORY SCIENCES)

A molecular basis for the C-domain selectivity of angiotensin-converting enzyme.

Supervised by Professor E.D. Sturrock.

A.P. KULKARNI (CLINICAL LABORATORY SCIENCES)

Delivery of vaccinia virus complement control protein (VCP) and curcumin to the rodent brain: implications in Alzheimer's disease and HIV dementia.

Supervised by Associate Professor L. Kellaway and Professor D. Govender.

R.P. LAMBERTS (HUMAN BIOLOGY)

The development of an evidence-based submaximal cycle test designed to monitor and predict cycling performance - The Lamberts and Lambert Submaximal Cycle Test (LSCT).

Supervised by Professor M. Lambert and Professor T.D. Noakes.

N.G. LANGERAK (HUMAN BIOLOGY)

The long-term sequelae of selective dorsal rhizotomy in patients with spastic diplegia.

Supervised by Professor C.L. Vaughan, Professor J.C. Peter and Professor A.G. Fieggen.

S. MAJALIJA (CLINICAL LABORATORY SCIENCES)

Isolation and molecular characterisation of Shiga toxin Escherichia coli in cattle, water and diarrhoeal children from the pastoral systems of South-western Uganda.

Supervised by Professor G. Elisha, Dr H. Segal and F. Ejobi.

A. MARAIS (PSYCHIATRY AND MENTAL HEALTH)

A narrative analysis of young people's talk of intimate partner violence.

Supervised by Professor A.J. Flisher.

K.A. MASTERS (MEDICINE)

The diffusion of the Internet amongst South African primary care doctors: an activity systems view.

Supervised by Dr D. Ng'ambi and Associate Professor G. Todd.

A.N.P. MATIMBA (CLINICAL LABORATORY SCIENCES)

Pharmacogenetics of African populations: variation in major drug metabolising enzyme genes and its impact on personalised medicine.

Supervised by Professor R. Ramesar and Dr C. Masimirembwa.

Z. MCHIZA (HUMAN BIOLOGY)

Factors associated with obesity in South African mothers and their pre-adolescent daughters: a cross-cultural validation and comparison study.

Supervised by Professor E. Lambert and Dr J. Goedecke.

S.A. MEREDITH (MEDICINE)

The characterisation of adaptor protein homologues in Plasmodium falciparum.

Supervised by Dr H. Hoppe.

E.T. MULUH (HUMAN BIOLOGY)

Characterizing event-related oscillations and potentials in mental arithmetic by examining arithmetic-operation and problem-size effects.

Supervised by Dr L.R. John.

T.E.M. MUTSVANGWA (HUMAN BIOLOGY)

Characterization of the facial phenotype associated with fetal alcohol syndrome using stereo-photogrammetry and geometric morphometrics.

Supervised by Associate Professor T. Douglas and Associate Professor E. Meintjes.

O.A. OKORAFOR (PUBLIC HEALTH AND FAMILY MEDICINE)

Fiscal federalism and equity in the financing of primary health care: the case of South Africa.

Supervised by Professor D. McIntyre and Dr S. Thomas.

A. PARKER (CLINICAL LABORATORY SCIENCES)

The characterisation of the ectodomain shedding of the low density lipoprotein receptor.

Supervised by Professor E.D. Sturrock.

M. POSTHUMUS (HUMAN BIOLOGY)

Genetic risk factors for anterior cruciate ligament ruptures.

Supervised by Associate Professor M. Collins, Dr A. September and Professor M. Schwellnus.

E.L. RAMUGONDO (HEALTH AND REHABILITATION SCIENCES)

Intergenerational shifts and continuities in children's play within a rural Venda family in the early 20th and 21st centuries.

Supervised by Professor S.L. Amosun and Professor D.L. Parham.

Y. REN (MEDICINE)

The plasma, whole blood and intracellular concentrations of antiretroviral agents in South African children receiving combination antiretroviral therapy with and without concomitant antitubercular treatment.

Supervised by Associate Professor P.J. Smith.

P.L. SEMPLE (SURGERY)

Pituitary Apoplexy: can histopathology, radiological imaging and predisposing factors be used in predicting outcome?

Supervised by Professor J.C. Peter.

K. SORSDAHL (PSYCHIATRY AND MENTAL HEALTH)

Traditional healers and mental health care in the South African context.

Supervised by Professor D.J. Stein and Professor A.J. Fisher.

E.L. VAN DER MERWE (HUMAN BIOLOGY)

A structural and developmental study of the posttrabecular aqueous outflow pathway in the mouse eye.

Supervised by Professor S. Kidson.

P. VAN DER WATT (CLINICAL LABORATORY SCIENCES)

Expression and regulation of the nuclear transport proteins, Crm1 and KpnB1, in cervical cancer and transformed cells.

Supervised by Dr V. Leaner.

W. WEI (CLINICAL LABORATORY SCIENCES)

Functional analysis of N-myc downstream regulated gene 1 (NDRG1) in oesophageal squamous cell carcinoma.

Supervised by Dr D. Hendricks.

W. ZEMANAY (CLINICAL LABORATORY SCIENCES)

Altered protein expression patterns in oesophageal cancer.

Supervised by Dr D. Hendricks and Professor M.I. Parker.

PATENT APPLICATIONS

BARNARD, S. A Thoracoscope. PCT Patent Application PCT PCT/IB2009/007145.

BERGMAN, H.J. AND MORGAN, B.E. Neonatal Brain Well-being Monitor. PCT Patent Application PCT PCT/IB2009/054316.

BLACKBURN, J.M., KUMUTHINI, J., SERUFURI, J.S., SHOKO, A. AND VAN DYK, R. Cancer Screening Method. National Phase Patent Application South Africa 2009/5150.

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KAIRINOS, N. Wound Dressing System and Method. PCT Patent Application PCT PCT/IB2009/000080.

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VAN DER MERWE, W.M. AND WILSON, D.A.J. A Surgical Drill Aimer. PCT Patent Application PCT PCT/IB2009/006790.

GRANTED PATENTS

ACHARYA, K.R. AND STURROCK, E.D. ACE N-Domain Crystal. National Phase Patent South Africa 2008/06312.

ACHARYA, K.R. AND STURROCK, E.D. Crystal Structure of an Angiotensin-Converting Enzyme (ACE) and Uses Thereof. National Phase Patent Europe EP 1 539 815.

BOURN, W., GRAY, C.M., KARIM, S.S.A., VAN HARMELEN, J.H. AND WILLIAMSON, C. HIV-1 Subtype Isolate Regulatory/Accessory Genes, and Modifications and Derivatives Thereof. National Phase Patent United States 7,479,547.

CHIBALE, K., NCHINDA, A.T. AND STURROCK, E.D. Angiotensin I-Converting Enzyme (ACE) Inhibitors. National Phase Patent South Africa 2007/10879.

HALSEY, R.J., RYBICKI, E.P., TANZER, F.L. AND WILLIAMSON, A.-L. Chimeric HIV-1 Subtype C GAG-Virus-Like Particles. National Phase Patent South Africa 2008/03883.

RYBICKI, E.P. AND TANZER, F.L. Expression System Incorporating a Capsid Promoter Sequence as an Enhancer of a Cytomegalovirus Promoter. National Phase Patent South Africa 2008/03928.

STEENKAMP, D.J. A Method of Isolating a Thiol. National Phase Patent United States 7,619,121.

Research Output

DEPARTMENT OF ANAESTHESIA

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GORDON, P.C. AND BATTY, D.J.B. 2009. Haemostatic problems in liver surgery: a review. *Southern African Journal of Anaesthesia and Analgesia*, 15(5): 16-18.

JAMES, M.F.M. 2009. Magnesium: an emerging drug in anaesthesia. *British Journal of Anaesthesia*, 103(4): 465-467.

LLEWELLYN, R.L., GORDON, P.C., WHEATCROFT, D., LINES, D., REED, A.R., BUTT, A.D., LUNDGREN, A.C. AND JAMES, M.F.M. 2009. Drug administration errors: a prospective survey from three South African teaching hospitals. *Anaesthesia and Intensive Care*, 37(1): 93-98.

PIERCY, J.L. 2009. The critically ill kidney. *Southern African Journal of Anaesthesia and Analgesia*, 15(3): 21-26.

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ROCHE, A. AND JAMES, M.F.M. 2009. Colloids and crystalloids: does it matter to the kidney? *Current Opinion in Critical Care*, 15(6): 520-524.

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WESTPHAL, M., JAMES, M.F.M., KOZEK-LANGEHECKER, S., STOCKER, R., GUIDET, B. AND VAN AKEN, H. 2009. Hydroxyethyl Starches. *Anesthesiology*, 111(1): 187-202.

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SCHOOL OF CHILD AND ADOLESCENT HEALTH

(INCLUDING THE DEPARTMENT OF PEDIATRICS & CHILD HEALTH [WHICH INCORPORATES THE DIVISIONS OF CRITICAL CARE & CHILDREN'S HEART DISEASE, NEUROSCIENCES AND NEONATOLOGY], AND THE FOLLOWING DIVISIONS WHICH LOCATED WITHIN THE SCHOOL OF CHILD AND ADOLESCENT HEALTH: ASSOCIATED PEDIATRIC DISCIPLINES, CHILD & ADOLESCENT PSYCHIATRY, CHILD HEALTH UNIT & CHILDREN'S INSTITUTE, PEDIATRIC ANESTHESIA, PEDIATRIC PATHOLOGY, PEDIATRIC RADIOLOGY, AND PEDIATRIC SURGERY.)

CHAPTERS IN BOOKS

ARGENT, A.C. AND RISSOON, N. 2009. The needs of children in natural or manmade disasters. In A. Gullo, J. Besso, P.D. Lumb and G.E. Williams (Eds.), *Intensive and Critical Care Medicine*, pp. 391-414. Italy: Springer. ISBN 9788847014350.

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ELEY, B.S. AND BEATTY, D.W. 2009. The basic immunology of tuberculosis. In H.S. Schaaf and A.I. Zumla (Eds.), *Tuberculosis: A Comprehensive Clinical Reference*, pp. 75-86. Europe: Elsevier Inc. ISBN 9781416039884.

JAMIESON, L. AND MUKOMA, W. 2009. Dikwankwetla - Children in Action: children's participation in the law reform process in South Africa. In B. Percy-Smith and N. Thomas (Eds.), *A Handbook of Children and Young People's Participation: perspectives from theory and practice*, pp. 73-82. New York: Routledge Journals, Taylor & Francis Ltd. ISBN 9780415468527.

KARPELOWSKY, J.S. AND RÖDE, H. 2009. Burns. In P. Puri and M. Hollwarth (Eds.), *Pediatric Surgery - Diagnosis and Management*, pp. 191-203. New York: Springer-Verlag Berlin Heidelberg. ISBN 9783540695592.

KASSAN, D.K. AND MAHERY, P.S. 2009. Special child protective measures in the Children's Act. In T. Boezaart (Ed.), *Child Law in South Africa*, pp. 185-224. Cape Town: Juta & Company, Cape Town. ISBN 9780702182129.

MAHERY, P.S. 2009. The United Nations Convention on the Rights of the Child: maintaining its value in international and South African child law. In T. Boezaart (Ed.), *Child Law in South Africa*, pp. 309-330. Cape Town: Juta & Company, Cape Town. ISBN 9780702182129.

MILLAR, A.J.W., SHARIF, K. AND GUPTA, G. 2009. Paediatric small bowel transplantation. In P. Puri and M. Hollwarth (Eds.), *Pediatric Surgery - Diagnosis and Management*, pp. 527-534. New York: Springer-Verlag Berlin Heidelberg. ISBN 9783540695592.

NEL, E., COOKE, L. AND GODDARD, E. 2009. Gastrointestinal disorders. In D.F. Wittenberg (Ed.), *Coovadia's Paediatrics & Child Health*, pp. 498-524. 6th edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

PROUDLOCK, P.M. 2009. Children's socio-economic rights. In T. Boezaart (Ed.), *Child Law in South Africa*, pp. 291-308. Cape Town: Juta & Company, Cape Town. ISBN 9780702182129.

RÖDE, H. AND NUMANOGLU, A. 2009. Jejuno-Ileal Atresia. In P. Puri and M. Hollwarth (Eds.), *Pediatric Surgery - Diagnosis and Management*, pp. 405-414. New York: Springer-Verlag Berlin Heidelberg. ISBN 9783540695592.

SHARIF, K. AND MILLAR, A.J.W. 2009. Paediatric liver transplantation. In P. Puri and M. Hollwarth (Eds.), *Pediatric Surgery - Diagnosis and Management*, pp. 603-615. New York: Springer-Verlag Berlin Heidelberg. ISBN 9783540695592.

SWINGLER, G. 2009. History-taking, physical examination, and evaluation of the sick child. In D.F. Wittenberg (Ed.), *Coovadia's Paediatrics & Child Health*, pp. 3-19. 6th edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

ZAR, H.J. AND BYE, M.R. 2009. Pulmonary manifestations of Human Immunodeficiency Virus (HIV) infection. In N.L. Turcios and R.J. Fink (Eds.), *Pulmonary Manifestations of Pediatric Diseases*, pp. 28-48. USA: Saunders Elsevier. ISBN 9781416030317.

CANDIDATE HIV VACCINE GOES INTO HUMAN TRIALS

A team from UCT's Institute of Infectious Disease and Molecular Medicine (IIDMM), led by Professor Anna-Lise Williamson (in photo), announced in 2009 that their two preventative HIV vaccines have reached the first stage of human clinical trials, a first for Africa. This trial, called SAAVI 102/HVTN 073, is also a milestone for South Africa as the country is one of the few developing nations to have developed an HIV vaccine and put it forward for human clinical trials. Trials will be conducted at the IIDMM's Desmond Tutu HIV Centre and at sites in Johannesburg and Boston in the US. These vaccines are the culmination of eight years of work by scientists from the IIDMM, the US National Institutes of Health and the Vaccine Research Centre. Their development and testing has been underpinned by funding from the South African AIDS Vaccine Initiative (SAAVI) and the US National Institute of Allergy and Infectious Diseases (NIAID). "There is still a long way to go before we will know if these products will be successful in preventing HIV infection," said SAAVI's interim director, Elise Levendal. The initial human trial is being conducted jointly with the HIV Vaccine Trials Network and NIAID, part of the US National Institutes of Health.



ARTICLES IN PEER-REVIEWED JOURNALS

AIT-KHALED, N., PEARCE, N., ANDERSON, H.R., ELLWOOD, P., MONTEFORT, S., SHAH, J., ISAAC PHASE THREE STUDY GROUP, I. AND ZAR, H.J. 2009. Global map of the prevalence of symptoms of rhinoconjunctivitis in children: the International Study of Asthma and Allergies in Childhood (ISAAC) Phase Three. *Allergy*, 64: 123-148.

ALEXANDER, A. AND MILLAR, A.J.W. 2009. The passage of a nasogastric tube does not always exclude an oesophageal atresia. *African Journal of Paediatric Surgery*, 6(1): 47-49.

ARGENT, A.C. 2009. Critical care in Africa. *Southern African Journal of Critical Care*, 25(1): 4-8.

ARGENT, A.C. 2009. Endotracheal suctioning is basic intensive care or is it? *Pediatric Research*, 66(4): 364-367.

ARGENT, A.C. AND ELEY, B.S. 2009. Viral sepsis in the pediatric intensive care unit. *Journal of Pediatric Infectious Diseases*, 4(2): 161-172.

ARGENT, A.C., KISSOON, N., DEVICTOR, D., MADDEN, M.A., SINGHI, S., VAN DER VOORT, E. AND LATOUR, J.M. 2009. Letter to the Editor: response to: Twenty-three thousand unnecessary deaths every day: what are you doing about it? *Pediatric Critical Care Medicine*, 10(5): 610-612.

BOULLE, A.M. AND ELEY, B.S. 2009. Commentary: Reducing HIV-associated tuberculosis in children. *International Journal of Epidemiology*, 38(6): 1621-1623.

BROWN, C., NUMANOGLU, A., RÖDE, H. AND SIDLER, D. 2009. Situs inversus abdominalis and duodenal atresia. *South African Journal of Surgery*, 47(4): 127-130.

BUDLENDER, D., PROUDLOCK, P.M. AND JAMIESON, L. 2008. Formulating and implementing socioeconomic policies for children in the context of HIV/AIDS: a South African case study. *IDS Bulletin*, 39(5): 62-70.

CAIRNCROSS, L., DAVIDSON, A., MILLAR, A.J.W. AND PILLAY, K. 2009. Kaposi sarcoma in children with HIV: a clinical series from Red Cross Children's Hospital. *Journal of Pediatric Surgery*, 44: 373-376.

CHARLTON, K.E., KAWANA, B.M. AND HENDRICKS, M.K. 2009. An assessment of the effectiveness of growth monitoring and promotion practices in the Lusaka district of Zambia. *Nutrition*, 25: 1035-1046.

COBAT, A., GALLANT, C.J., SIMKIN, L., BLACK, G., STANLEY, K., HUGHES, E.J., DOHERTY, T.M., HANEKOM, W.A., ELEY, B.S., JAIS, J.P., BOLAND-AUGE, A., VAN HELDEN, P., CASANOVA, J., ABEL, L., HOAL, E., SCHURR, E. AND ALCAIS, A. 2009. Two loci control tuberculin skin test reactivity in an area hyperendemic for tuberculosis. *Journal of Experimental Medicine*, 206(12): 2583-2591.

COOK, C.J. AND THOMAS, J.M. 2009. Laparoscopic heminephrectomy in 3-year old with sickle cell disease. *Pediatric Anesthesia*, 19: 623-650.

COOKE, M.L., GODDARD, E. AND BROWN, R. 2009. Endoscopy findings in HIV-infected children from Sub-Saharan Africa. *Journal of Tropical Pediatrics*, 55(4): 238-243.

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CORNELL, M., TECHNAU, K., FAIRALL, L., WOOD, R., MOULTRIE, H., VAN CUTSEM, G., GIDDY, J., MOHAPI, L., ELEY, B.S., MACPHAIL, P., PROZESKY, H., RABIE, H., DAVIES, M., MAXWELL, N. AND BOULLE, A.M. 2009. Monitoring the South African National Antiretroviral Treatment Programme, 2003 - 2007: The leDEA Southern Africa Collaboration. *SAMJ South African Medical Journal*, 99(9): 653 - 660.

DAVIES, M., CONNELL, T.G., JOHANNISEN, C.F., WOOD, K.A., PIENAAR, S.M., WILKINSON, K., WILKINSON, R.J., ZAR, H.J., ELEY, B.S., BEATTY, D.W., CURTIS, N. AND NICOL, M.P. 2009. Detection of tuberculosis in HIV-infected children using an enzyme-linked immunospot assay. *AIDS*, 23: 961-969.

DAVIES, M., KEISER, O., TECHNAU, K., ELEY, B.S., RABIE, H., VAN CUTSEM, G., GIDDY, J., WOOD, R., BOULLE, A.M., EGGER, M. AND MOULTRIE, H. 2009. Outcomes of the South African National Antiretroviral Treatment Programme for Children: the leDEA southern Africa collaboration. *SAMJ South African Medical Journal*, 99(10): 730-737.

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Research Output

DE DECKER, R., GORDON-GRAHAM, E., SELLER, N. AND LAWRENSEN, J. 2009. Surprises of off-label drug use - where had all the Prostin gone? *SAMJ South African Medical Journal*, 99(6): 432-433.

DISSANAYAKE, S.R., LEVIN, S., PIENAAR, S.M., WOOD, K.A., ELEY, B.S., BEATTY, D.W., HENDERSON, H.E., ANDERSON, S. AND LEVIN, M. 2009. Polymorphic variation in TIRAP is not associated with susceptibility to childhood TB but may determine susceptibility to TBM in some ethnic groups. *PLoS One*, 4(8): e6698.

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ALAN PIFER AWARD FOR WORK IN RURAL AREAS

Professor Raj Ramesar, of the Department of Clinical Laboratory Sciences, received the prestigious Alan Pifer Award for 2009, which recognises his breakthrough research on colon cancer and particularly how his work contributes to the welfare of South Africa's most disadvantaged communities in the Northern and Western Cape Provinces. The award is named after the former president of the Carnegie Corporation of New York. Accepting the award, Ramesar said the honour belonged to the team of surgeons and nurses, now led by Professor Paul Goldberg of the Division of Gastroenterology, who had painstakingly furthered this pioneering work. He also dedicated the award to the families and communities affected by colon cancer, particularly those the team has worked with in rural areas. "Over the years these individuals engaged with a new kind of medicine, which has the power to predict who will fall ill and who won't," he says. "It has taken a great number of years, continuity of contact, and a dedicated programme of being informative that has worked. And there is much more to be done, even in this community."



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HIV CAMPAIGN BOOSTED BY FRENCH GRANT

The Desmond Tutu HIV Foundation, the umbrella organisation for the Desmond Tutu HIV Centre at UCT, received a R3.3-million boost from the French Development Agency (AFD) in 2009. After AFD CEO, Jean-Michel Severino, visited some of the Foundation's research sites in Cape Town, including the Hannan Crusaid Clinic in nearby Gugulethu, he joined Archbishop Emeritus Desmond Tutu and UCT's Associate Professor Linda-Gail Bekker for a special signing ceremony. The financial award follows on a state visit by the French president, Nicolas Sarkozy, early in 2008. The money will go towards a research project that will promote HIV testing and investigate models to streamline treatment of HIV and tuberculosis in co-infected patients.



Assoc. Prof. Linda-Gail Bekker, Archbishop Emeritus Desmond Tutu and Jean-Michel Severino sign a new pact for renewed efforts to curb the onslaught of HIV.

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Please refer to the research reports of the following departments for additional publications by staff affiliated to the School of Child and Adolescent Health:

- Anaesthesia, for publications by Paediatric Anaesthesia (page 156).
- Psychiatry and Mental Health, for publications by Child & Adolescent Psychiatry (page 183).
- Radiation Medicine, for publications by Paediatric Radiology (page 192).
- Surgery, for publications by Paediatric Surgery (page 193).

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DEPARTMENT OF CLINICAL LABORATORY SCIENCES

(INCLUDING THE FOLLOWING DIVISIONS: ANATOMICAL PATHOLOGY, CHEMICAL PATHOLOGY, FORENSIC MEDICINE AND TOXICOLOGY, HAEMATOLOGY & UCT LEUKAEMIA UNIT, HUMAN GENETICS, IMMUNOLOGY, MEDICAL BIOCHEMISTRY, MEDICAL MICROBIOLOGY, AND MEDICAL VIROLOGY.)

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RESEARCHER SPICES UP ALZHEIMER'S RESEARCH

The outcome of his research could lead to the development of an effective combination treatment for conditions such as Alzheimer's disease, HIV dementia, and other neurological disorders. But a long, difficult process still lies ahead, said Amod Kulkarni, PhD graduate and now a postdoctoral fellow in the Department of Human Biology. In Kulkarni's thesis, *Delivery of Vaccinia Virus Complement Control Protein (VCP) and Curcumin to the Rodent Brain: Implications in Alzheimer's Disease and HIV Dementia*, he found that VCP, tVCP (a derivative of VCP) and curcumin, the component that gives the Indian spice turmeric its brilliant orange colour, treated some of the symptoms of Alzheimer's Disease in a transgenic mouse model carrying the abnormal genes responsible for this illness. These compounds may also be effective in the treatment of HIV dementia. Interestingly, India has a significantly low incidence of Alzheimer's Disease. Kulkarni, who hails from Akola, a small city near Mumbai in India, said that though there may be a link, one would have to ingest substantial quantities of the spice for it to have some therapeutic effect.



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DEPARTMENT OF HUMAN BIOLOGY

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DANIELS, W.M.U., FAIRBAIRN, L.R., VAN TILBURG, G., MCEVOY, C.R.E., ZIGMOND, M.J., RUSSELL, V.A. AND STEIN, D.J. 2009. Maternal separation alters nerve growth factor and corticosterone levels but not the DNA methylation status of the exon 17 glucocorticoid receptor promoter region. *Metabolic Brain Disease*, 24: 615-627.

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UCT SCHOLARS AMONG THOSE HONoured BY COUNTRY

Professor Bongani Mayosi was among two South African academics who received the Order of Mapungubwe, the country's highest national order, from President Jacob Zuma, in Pretoria in December. Mayosi, head of the Department of Medicine, was awarded the Order of Mapungubwe (silver) for his pioneering work in medical science. For many years, he has been sounding the alarm regarding the growing threat of non-communicable diseases in South Africa. He plays a leading role in two major South African health and research collaborations – the UCT-based Sub-Saharan Africa Centre for Chronic Diseases, and the Southern African Consortium for Research Excellence (see page 189). Professor Johann Lutjeharms (Department of Oceanography) was awarded the Order of Mapungubwe (Silver), for his lifetime contribution to the understanding of the Agulhas Current and the role it plays in the earth's climate. (He was unable to attend the ceremony and will receive his award from President Zuma in 2010). UCT law graduate, environmentalist and maritime lawyer Lewis Gordon Pugh was presented with the Order of Ikhamanga (gold) for his exceptional sporting triumphs that he uses to raise awareness of climate change.



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PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS

HESS, A.T., TISDALL, M.D., MEINTJES, E.M. AND VAN DER KOUWE, A.J. 2009. Real-time motion corrected MRS using EPI navigators. *Proceedings of the 17th International Symposium for Magnetic Resonance in Medicine (ISMRM)*, 18-24 April 2009, Honolulu, Hawaii, USA, p. 4646. Berkley, California: Mira Digital Publishing. ISSN 1545-4428.

Research Output

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DEPARTMENT OF MEDICINE

(INCLUDING THE FOLLOWING DIVISIONS: CLINICAL IMMUNOLOGY, DERMATOLOGY, ENDOCRINOLOGY AND DIABETIC MEDICINE, GASTRO-ENTEROLOGY, THE ALBERTINA AND WALTER SISULU INSTITUTE OF AGEING IN AFRICA/ GERIATRIC MEDICINE, HAEMATOLOGY & UCT LEUKAEMIA UNIT, HATTER INSTITUTE FOR CARDIOLOGY RESEARCH, HEPATOLOGY, INFECTIOUS DISEASES & HIV MEDICINE, LIPIDOLOGY, NEPHROLOGY AND HYPERTENSION, NEUROLOGY, CLINICAL PHARMACOLOGY, AND RHEUMATOLOGY.)

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THE PARADOXES OF HIV AND TB MEDICATION

Dr Graeme Meintjes, a Wellcome Trust Fellow at UCT, has published a study in the journal *Clinical Infectious Diseases* on the largest case series ever reported of a complex and increasingly common condition, TB IRIS, which affects people taking combined medication for HIV and TB. TB IRIS, or the HIV-tuberculosis immune reconstitution inflammatory syndrome, refers to the recurrence of tuberculosis symptoms in HIV-positive individuals who are on treatment for TB and then start antiretroviral therapy. The study, conducted from 2005 to 2006 at the community-based GF Jooste Hospital in Manenberg, Cape Town, evaluated 100 individuals with suspected TB IRIS. The study describes a paradoxical deterioration in patients being treated for both HIV and TB with drugs that are otherwise lifesaving. The TB IRIS syndrome is common in the Western Cape, linked to the triple coincidence of a very high tuberculosis notification rate (preceding the HIV epidemic, the province had – and still has – the country's highest TB rate), an expanding HIV epidemic, and widespread access to treatment for both conditions. Many are reporting a recurrence of TB symptoms such as coughs, night sweats, glandular swellings and abdominal abscesses. "ARVs cause an improvement in the immune function, which drives inflammation at the site of TB," Meintjes explains.



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RECOGNISING RESEARCH IN ENVIRONMENTAL HEALTH

Dr Andrea Rother of the School of Public Health and Family Medicine won second prize in the prestigious Young Professionals and Women in Science Competitions, aimed at African researchers. The competition is organised by a consortium of science and development agencies, including the Regional Universities Forum for Capacity Building in Agriculture and the New Partnership for Africa's Development, better known as NEPAD. The competition recognises young professionals and women scientists who are conducting innovative and pioneering research, and whose work improves agricultural productivity and the livelihoods of rural communities. Rother took second place in the Women in Science category for her paper, *Pesticide Risk Reduction Strategies for Vulnerable African Populations through Regulatory Capacity Building and Gender Appropriate Risk Communication Strategies*. The paper is built on her research in the Occupational and Environmental Health Research Unit, where she looks at areas such as risk communication, risk perception, risk management and health literacy issues related to public health, safety, and chemical management (with a particular focus on pesticides), especially in Africa.



Reaching out: Dr Andrea Rother (second from left) and fellow winners at the finals of the Women in Science Competition, held in Addis Ababa.

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DRUG USE ALTERS BRAIN ACTIVITY

Drugs affect cerebral function in the brain in such a way that it makes users less sensitive to everyday pleasure. So says Professor Nora Volkow, director of the of the National Institute on Drug Abuse in the US, who delivered the keynote address at the Brain and Behaviour Initiative's 2009 Symposium. In her address, titled *Neuroscience and Substance Abuse*, Volkow outlined the effects of substance abuse on cerebral function, and the nature of addiction. She explains that normal brain activity is disrupted by repeated drug use, specifically of alcohol and cocaine. "These drugs are very potent, atom bombs of pleasure." In turn, Professor Colleen Adnams (in photo), head of the Division of Intellectual Disability in UCT's Department of Psychiatry and Mental Health, spoke on *The Neuropsychology and Neuroimaging of Fetal Alcohol Spectrum Disorders*. Adnams' work is part of a five-year study that tracks about 80 children over a period of time to assess brain structure and function changes in subjects who were prenatally exposed to alcohol (i.e., during their mothers' pregnancies). "It will be interesting to see the difference in South African children compared to the US sites," says Adnams.



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DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

ARTICLES IN PEER-REVIEWED JOURNALS

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PRIMARY HEALTH CARE DIRECTORATE

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DEPARTMENT OF PSYCHIATRY AND MENTAL HEALTH

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BABY STEPS FOR TB TRIALS

Four-month-old Janenique Pienaar of Worcester became the first baby in 80 years to be vaccinated in a tuberculosis (TB) trial. Little Janenique was part of a proof-of-concept efficacy trial of a new candidate TB vaccine that was tested at the TB vaccine research site of UCT's South African Tuberculosis Vaccine Initiative (SATVI). The tests are conducted in partnership with Aeras Global TB Vaccine Foundation, the Oxford-Emergent Tuberculosis Consortium Ltd and the Wellcome Trust. Janenique lives in the Boland, an area with one of the highest rates of tuberculosis in the world (14 out of every thousand residents are infected), and where HIV and TB are the main causes of death. Like all South African newborns she was given the standard TB vaccine, *Bacillus Calmette-Guérin* (BCG), at birth. While BCG is known to protect against severe forms of TB in children, it does not appear to protect against lung TB, the main form of TB. In addition, BCG itself can cause disease in HIV-positive infants. The search for a safe and more effective TB vaccine – for all ages, against all types of TB and for those living with HIV – has seen 10 new candidate TB vaccines go into clinical trials worldwide. A trial report is scheduled for 2012.



TB trial: Baby Janenique and her mother, Jane.

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SCHOOL OF PUBLIC HEALTH AND FAMILY MEDICINE

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CONSORTIUM REMEDIES HEALTH CARE RESEARCH

UCT will play a pivotal role in the Southern African Consortium for Research Excellence (SACORE), one of seven new international consortia formed by the Wellcome Trust's African Institutions Initiatives to develop local institutional capacity and health research. Underpinned by £30 million (R420 million) in funding from the trust, the initiative incorporates more than 50 institutions from 18 African countries, and hopes to get African universities more involved in African health research endeavours. Home to some of the poorest countries in the world (the bottom-ranked 25 countries are in Africa), the continent carries a high burden of disease, particularly HIV, TB and malaria. The seven consortia will be led by African institutions, with partners in Europe, the US and Australia. Their task will be to build a critical mass of sustainable local research capacity by strengthening universities and research institutions and developing vital networks. SACORE's director is Dr Newton Kumwenda of the College of Medicine in Malawi. Other partners include Zambia, Zimbabwe, Botswana and the UK. UCT is one of an inner ring of supporting partners via its Clinical Infectious Diseases Research Initiative in the Institute of Infectious Disease and Molecular Medicine.



Professors Ngondi Mayosi and Robert Wilkinson will play a major role in the Southern African Consortium for Research Excellence.

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NEW FUNDING FOR LUNG-INFECTION RESEARCH

Thanks to their new Discovery Foundation Academic Fellowships, Dr Hoosain Khalfey and Dr Greg Symons have the funding to continue their potentially ground-breaking studies of lung infections. Khalfey and Symons are both senior registrars at UCT's Department of Medicine and the Respiratory Clinic at Groote Schuur Hospital. Khalfey hopes to shed some light on the most common causes of lung infections among HIV-positive patients. More specifically, he will look into the use of early bronchoscopies on HIV-positive patients with lung infections in an attempt to achieve a "definitive and rapid diagnosis" of such patients, who often pose a diagnostic conundrum for clinicians. In a second study he will investigate the use of steroids as a parallel treatment for severe community-acquired pneumonia. In turn, Symons' work deals with extensively drug-resistant tuberculosis (XDR TB), in which the TB is resistant to at least four drugs. Symons will look at the extent and severity of such drug resistance, a project that will include running a database of identified cases in the Cape Town metropole. Symons will follow up with these patients to get a handle on the disease and patients' responses to an 18-month drug regime. (Only about 10% of patients are believed to recover.)



Discoveries: With new funding, Dr Greg Symons (left) and Dr Hoosain Khalfey are pursuing studies into the nature and causes of lung infections.

TAN, E.H., ROLSKI, J., GRODZKI, T., SCHNEIDER, C.P., GATZEMEIER, U., ZATLOUKAL, P., AITINI, E., CARTENI, G., RISKA, H., TSAI, Y.H. AND ABRATT, R.P. 2009. Global Lung Oncology Branch trial 3 (GLOB3): final results of a randomised multinational phase III study alternating oral and i.v. vinorelbine plus cisplatin versus docetaxel plus cisplatin as first-line treatment of advanced non-small-cell lung cancer. *Annals of Oncology*, 20: 1249-1256.

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GROTTE, R.H. 2009. Disorders of the eye. In D.F. Wittenberg (Ed.), *Coovadia's Paediatrics & Child Health*. 6th edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

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CURBING THE TB-HIV EPIDEMIC

In conversation, Associate Professor Linda-Gail Bekker (see page 161) often falls into the habit of speaking of the cross-fertilisation between HIV and tuberculosis almost as a distinct third disease – named TB-HIV – that is in some ways divorced from its parent epidemics. That may not be too far off the mark, agrees Bekker, winner of the UK's Royal Society Pfizer Award for her work with the Desmond Tutu HIV Centre, part of UCT's Institute of Infectious Disease and Molecular Medicine. South Africa had already-scary levels of TB even before HIV was thrown into the pot, she explains. The six-fold increase in TB rates in only 20 years would suggest that South Africa is losing the battle against this "unholy synergy". Yet scientists, clinicians and policymakers mistakenly apply what they already know of TB to TB-HIV. That may not be the wisest course of attack, says Bekker. "It cannot be business as usual." To come up with novel treatments, Bekker and her 200-strong team of scientists, project leaders and nurses are applying a technique known as molecular epidemiology to look at both the genetic and the environmental factors associated with TB-HIV infection. They hope that this "fingerprint" of TB spread will point to new ways to curb the epidemic.



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