



UNIVERSITY OF
KWAZULU-NATAL
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UNIVERSITY OF KWAZULU-NATAL RESEARCH REPORT 2010

Agriculture and Food Security

Energy and Technology for
Sustainable Development

Maritime Studies

HIV/AIDS, TB and Health Promotion

Water, Environment
and Biodiversity

Social Development and
Economic Studies

Biotechnology

Indigenous African Knowledge Systems

Gender, Race and
Identity Studies

University of KwaZulu-Natal

Research Report 2010

The Premier University of African Scholarship



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Research Report 2010

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Professor Malegapuru W Makgoba
Vice-Chancellor and Principal

In 2010, UKZN maintained its upward trend in research output and there were a number of significant research achievements which demonstrated its increasing stature as a research-led institution in line with its mission and vision.

The proportion of publishing staff increased to 84% from 73% in 2009. In 2010, the research output per academic staff was, for the first time, evaluated in terms of the newly introduced Senate norms of 120, 90 and 60 Productivity Units (PUs) for professors, senior lecturers and lecturers respectively. On the average, the professoriate produced at 92% of their norm, senior lecturers at 53% and lecturers at 29%. Comparative figures for 2009 were 88%, 51% and 27% respectively. About 71% of the professoriate produced at or above the norm, compared to 23% of the senior lecturers and 19% of the lecturers.

According to the Academic Ranking of World Universities (ARWU), UKZN has for the 9th year running, maintained its position in the top 500 listing of Universities, and was also ranked third nationally and regionally (in Africa). Nationally, there was improved performance based on the research output benchmarks set by the Department of Higher Education and Training. Since 2007, the research publications output has increased on the average of about 12.5% per year and UKZN has maintained its position as the third highest producer of doctoral graduates in the country.

In 2010, the number of researchers occupying the top 30 positions was 42 which is an increase of 24% from 2009. In 2010, about 95% of the top publishing researchers had PhDs. The number of African researchers in this category, increased to 4 (10%) from 2 (6%) in 2009. The proportion of female researchers was 17% compared to 18% in 2009. The number of NRF rated researchers increased by 76% from 2009. The majority of the top publishers were in the 40-50 year age group. In 2010, they constituted about 45% compared to 47% in 2009. From 2008 to 2010, the number of researchers producing an equivalent of at least three journal articles per year, increased by 21%. The Top Publishing faculty was Science and Agriculture with a share of 45% (2010) and 53% (2009). The second highest publishing faculty was Humanities,

Development and Social Sciences with corresponding shares of 25% (2010), 26% (2009).

The CAPRISA 004 study results on tenofovir gel as a potential effective method of prevention against HIV/AIDS for women, received both national and international acclaim. *Science* considered it to be one of the Top Ten Scientific Breakthroughs in 2010. In *Nature* it was one of the top science news stories for the year. The *Lancet* readers voted the publication the second best most likely to influence practice and research.

In July 2010, the Centre for Quantum Technology (CQT) installed and operated a secure network using quantum-based encryption technology, to link the Moses Mabhida Stadium and the Durban Joint Operations Centre, during the 2010 FIFA World Cup. This was the first public global event to successfully use the encryption solution.

In 2010, the number of researchers with NRF rating increased from 179 (2009) to 204 (2010). About 25 percent of NRF rated researchers were female.

A total of R312 million was received for research grants and contracts in 2010 compared to R266 million in 2009. In addition, UKZN received R11.3 million in 2010, compared to R12.2 million in 2009, through the NRF Research Infrastructure Support Programme. The increasing research funding is a clear demonstration of the competence and competitiveness of our researchers in attracting funding in both international and national arenas.

In 2010 the UKZN Press published 22 titles, a number of which received national literary awards.

It is indeed pleasing to see how both the institutional research productivity and base of publishing researchers are increasing consistently, keeping us on course to achieve the objectives Goal Three in our Strategic Plan. I would like to thank all the researchers for their contribution to our achievements.

PRE-EMINENCE IN RESEARCH

DEPUTY VICE-CHANCELLOR (RESEARCH) & UNIVERSITY DEAN OF RESEARCH



Professor Nelson Ijumba

Deputy Vice-Chancellor: Research

Professor Cheryl Potgieter

University Dean of Research



In 2010, the University of KwaZulu-Natal not only maintained its upward trajectory in research output but also had a number of significant research achievements which demonstrated its increasing stature of UKZN as a research-led institution in line with its mission and vision.

The proportion of publishing staff increased to 84% from 73% in 2009. Overall, the per capita research output increased from 55 Productivity Units (PUs) (2009) to 58 PUs. An analysis of the per capita output in terms of the Senate norms of 120, 90 and 60 PUs for the professoriate, senior lecturers and lecturers, respectively, shows that: The professoriate generated 92% of their expected PUs, compared to 88% in 2009. Corresponding figures for senior lecturers were 53% (2010) and 51% (2009). For lecturers it was 29% (2009) and 28% (2010). In 2010, about 71% of the professors produced at or above the expected norm, compared to 23% of the senior lecturers and 19% of the lecturers.

In 2010 the number of researchers in the top 30 published positions was 42, which was an increase of 24% from 2009. About 95% of the top publishing researchers had PhDs. The number of African researchers has increased to 4 (10%) from 2 (6%) in 2009. The proportion of female researchers in this category was 17% in 2010, compared to 18% in 2009. The number of NRF-rated researchers increased by 76% from 2009.

The majority of the researchers in the top 30 published positions are in the 40-50 year age group. In 2010, 45% of the researchers were in this age group, compared to 47% in 2009 and the top publishing Faculty was Science and Agriculture with a share of 45% in 2010 compared to 53% in 2009. The second highest publishing faculty was Humanities, Development and Social Sciences with corresponding shares of 25% (2010) and 26% (2009).

The number of researchers producing an equivalent of at least 3 articles increased from 61 in 2008 to 74 (2010). The proportion of Africans in this category has increased from 5% (2008) to 14% in 2010. However, the proportion of females has decreased from 25% (2008) to 19% (2010). In 2010, about 41% of the researchers in this category were from Faculty of Science and Agriculture and 28% from the Faculty of Humanities, Development and Social Sciences.

UKZN has maintained its position as the third highest producer of research publications and doctoral graduates at the national level. According to the Academic Ranking of World Universities (ARWU), UKZN maintained its presence and gradually improving its position in the top 500 listing of Universities, and was also ranked third nationally and regionally (i.e. in Africa).



SOCIALLY-RESPONSIVE RESEARCH

The CAPRISA 004 Trial Research Team led by Principal Investigators (top): Professors Quarraisha and Salim Abdool Karim (bottom from left) Dr Koleka Mlisana, Dr Leila Mansoor, Dr Janet Frohlich and Dr Sengeziwe Sibeko.



The CAPRISA 004 study results on tenofovir gel as a potential effective method of prevention against HIV/AIDS for women, received both national and international acclaim. *Science* considered it to be one of the Top Ten Scientific Breakthroughs in 2010. In *Nature* it was one of the top science news stories for the year. *The Lancet* readers voted the publication the second best most likely to influence practice and research. In July 2010, the Centre for Quantum Technology (CQT) installed and operated a secure network using quantum-based encryption technology, to link the Moses Mabhida Stadium and the Durban Joint Operations Centre, during the 2010 FIFA World Cup. This was the first public global event to successfully use the encryption solution.

The number of researchers with NRF rating increased from 179 (2009) to 204 (2010). Over the past two years about 27 per cent of NRF-rated researchers are female. Programmes of workshops and one on one consultations have been put in place by the Research Office to improve the institutional participation in the NRF rating system as well as increase the number of Female and Black rated researchers.

In 2010, a number of our staff received prestigious appointments and awards. Professor Bill Bishai was appointed the first substantive Director of the KwaZulu-Natal Research Institute for TB and HIV/AIDS (K-RITH). Professor Deresh Ramjugernath received the 2010 Vice-Chancellor's Research Award in recognition of his excellence in research. He was also the recipient of the National Science and Technology Forum (NSTF) Award in the category of Eskom Research Capacity Developers for his substantial contribution in the development of research capacity in the field of thermodynamics. Professors Jamshid Moori, David Ward and Ruth Teer-Tomaselli were awarded the University Fellowship in recognition of their distinguished contribution to research.

In 2010, 13 Thuthuka projects were funded to the tune of R 4.177 million from the NRF and R2.111 million from the University. About 74% of the funded researchers were Female and 82% Black, compared to 73% and 79% respectively; in 2009 all the projects were from the Faculty of Science and Agriculture. The NRF also funded more projects through the Technology Human Resources for Industry Programme (THRIP). In 2010, 18 projects received a total of R 31.7 million from THRIP and industry, compared to R 87.8 million in 2009. All the projects were from the College of Agriculture Engineering and Science, equally distributed between the two constituent Faculties. An additional funding of R 9.2 million was received from the NRF through the National Equipment and Nanotechnology Programmes. The University contributed a total of R 3.1 million to the two programmes.

External grants and contracts remained a major source of income used to fund a great proportion of the University's knowledge production initiatives. A total of R312 million was received for research grants and contracts in 2010 compared to R266 million in 2009. Additionally, the UKZN Foundation succeeded in raising over R 100 million from donors for research and other activities. The majority of the funded projects were in the area of HIV/AIDS. In 2010, the University allocated a total of R58 118 million as a research support grant. It included R 12 million for research development equipment. Additionally, UKZN received R 4.42 million from the Department of Higher Education and Training (DoHET) as a research development grant. The funds were used for: research capacity initiatives, internal grants and awards, research productivity incentives, major research equipment purchases and institutional contributions to NRF funding. The main disbursements of the funds were: Competitive research grant (7%), doctoral grants (8.6%), postdoctoral scholarships (12%), Top 30 rewards and productivity incentives (56.6%), Thuthuka support (5.16%) and research equipment (20.7%).

The Research Office continues to value the contribution to research productivity, made by retired research active staff and associates from other nationally and internationally based institutions. By the end of 2010, the number of Senior Research Associates (SRAs) and Honorary Research Fellows (HRFs) had increased, respectively to 50 and 74, from 35 and 36 in 2009. About 41% of the HRFs and 24% of the SRAs were 2010 appointments.

Following a comprehensive analysis of institutional research profile and extensive consultations with the researchers the following were identified as UKZN research focus areas, based on proven strengths and strategic objectives:

- HIV/AIDS, TB and Health Promotion
- Biotechnology
- Water, Environment and Biodiversity
- Social, Development and Economic Studies
- Agriculture and Food Security
- Energy and Technology for Sustainable Development
- Gender, Race and Identity Studies
- Indigenous African Knowledge Systems
- Maritime Studies

Implementation of research initiative in these areas will ensure UKZN's effective contribution to the National System of Innovation and global research agendas.

The Intellectual Property and Technology Transfer Office registered, in the name of UKZN, a patent for the method of

estimating the dry-out point of steam generating evaporator, developed by Professor Edward Boje, and a design for a surgical hand support device developed by the late Professor Edward Bowen-Jones, Professor Mahindra Dyer and Professor Glen Bright.

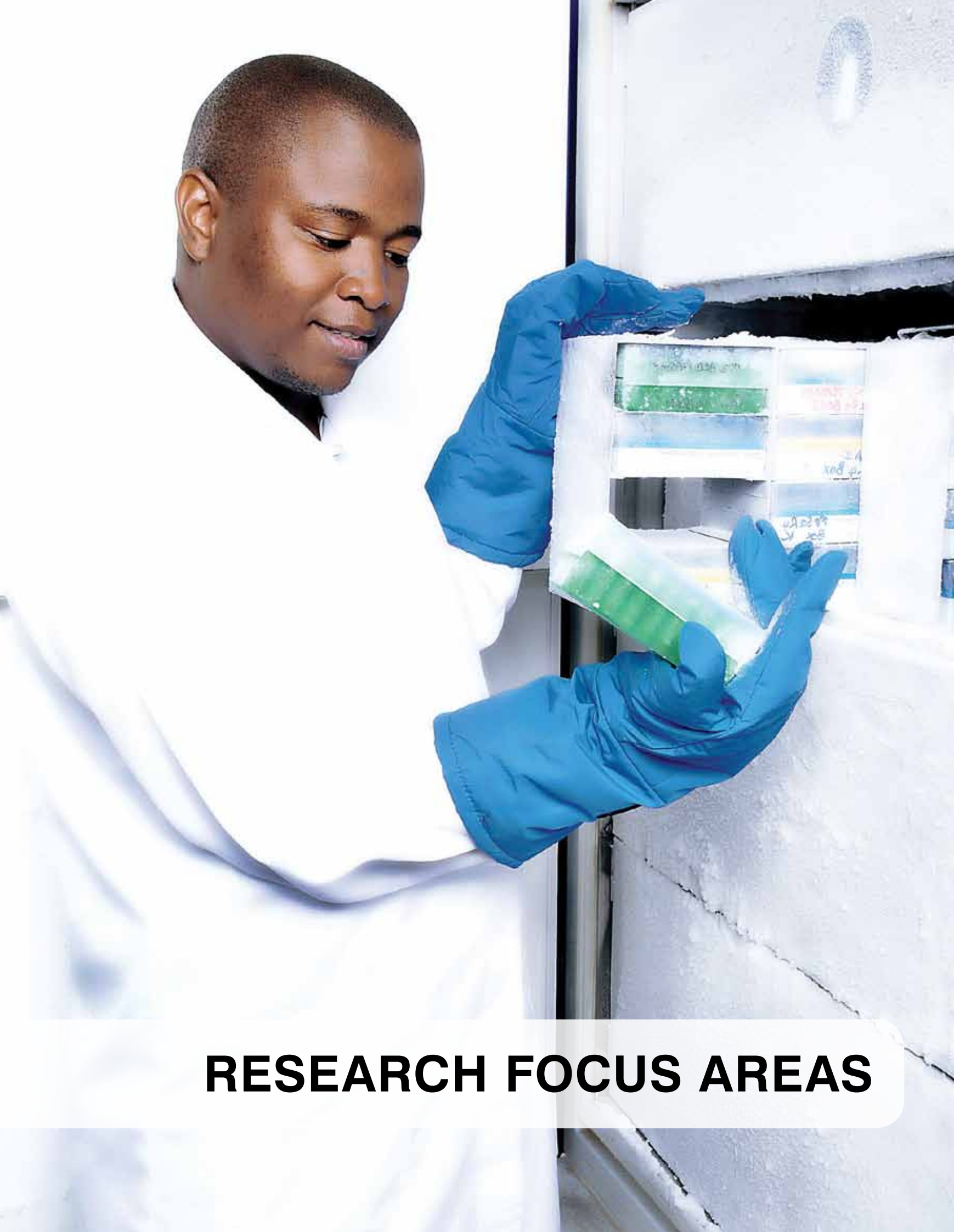
The UKZN institutional repository, ResearchSpace, has been operational since October 2009. Initially, only current theses were loaded onto the database but in 2010 a project to scan and upload older print copies of Masters and Doctoral theses of the University was begun. The cost of the project is estimated at nearly R1 million, approximately half of which has been made available from various Library endowment funds. In order to start the project a high resolution scanner was purchased and the services of DISA (Digital Imaging South Africa,) which has an office in the E G Malherbe Library, were engaged to carry out the scanning. By 31st December, 1,795 theses had been scanned, of which 794 had been uploaded to ResearchSpace, bringing the total number of theses in ResearchSpace to 2,472.

The most popular databases used in 2010 were once again *Science Direct* and *EbscoHost*, with *Science Direct* topping the popularity poll this year (last year it was *EbscoHost*) and ProQuest. The *Web of Knowledge* was also well used. New databases activated for 2010 include the *ACM Digital Library*,

LWW Journals @ OVID, *Business Insights* and *Marketline*. The library also subscribed to more titles through publishers Taylor & Francis (on the Informa platform) and Springer; these collections afford increased access to human and social sciences journal titles. Again, the use of electronic journals peaked during the second semester 2010.

In 2010 the UKZN Press published 22 titles. A number of UKZN Press authors received awards: *Peace versus Justice? The Dilemma of Transitional Justice in Africa* edited by Chandra Lekha Sriram and Suren Pillay and co-published with James Currey Publishers, was named CHOICE Outstanding Academic Book of the Year; Kobus Moolman the winner of the Poetry Category of the South African Literary Awards (2010) for his collection, *Separating the Seas*; *Guardian of the Light* by Paddy Kearney won the Andrew Murray-Desmond Tutu Prize 2010; Gcina Mhlophe received a SAMA award for her CD *Songs and Stories of Africa* in the category, 'Best Kiddies Album: English'; Gcina Mhlophe and William Ndabayakhe Zulu were joint winners in the "Language and Literature" category in the PanSALB Multilingualism Awards; Mhlophe was awarded the prize for her translation of her CD, *Songs and Stories of Africa*, into isiZulu (*Umcelo Nezindaba Zase-Afrika*) and isiXhosa (*Umcelo Neentsomi Zase-Afrika*); Zulu won the award for *Liyoze Line Nangakithi*, an isiZulu adaptation of his autobiography, *Spring Will Come*.





RESEARCH FOCUS AREAS

The University of KwaZulu-Natal (UKZN) has identified a number of research focus areas which it believes are critical to supporting its vision, not only as a notable centre of African scholarship in South Africa, but as an integral player in the global partnership embodied in the Millennium Development Goals, which seek to restore a sense of meaningful development to some of the world's poorest countries.

Through sustained research involving multi-disciplinary and cross-border collaborations, the University's efforts are pushing research boundaries, impacting international research trends, and drawing South Africa and Africa into a global network of knowledge production and academic excellence.

Thus our areas of research focus are globally relevant, yet locally responsive and include: HIV/AIDS, Tuberculosis and Health Promotion; Biotechnology; Water, Environment and Biodiversity; Social Development and Economic Studies; Agriculture and Food Security; Energy and Technology for Sustainable Development; Gender, Race and Identity Studies; Indigenous African Knowledge Systems; and Maritime Studies.

In addition, the full spectrum of research – from curiosity-driven to application-based and participatory action research – is undertaken at UKZN, where there is a strong emphasis on team work. Senior academics take pride in the mentorship they provide to postgraduate students, postdoctoral scholars and other emerging researchers.

RESEARCH FOCUS AREAS

- Agriculture and Food Security
- Biotechnology
- Energy and Technology for Sustainable Development
- Gender, Race and Identity Studies
- HIV/AIDS, Tuberculosis and Health Promotion
- Maritime Studies
- Indigenous African Knowledge Systems
- Social Development and Economic Studies
- Water, Environment and Biodiversity

Agriculture & Food Security

RESEARCH FOCUS AREAS



The African Centre for Crop Improvement

The African Centre for Crop Improvement (ACCI), located within the Faculty of Science and Agriculture, was established in 2001 to train African plant breeders, in Africa, in the area of African food security crops. Its vision: African scientists solving Africa's food problems.

The ACCI was initially funded solely by the Rockefeller Foundation but in 2007 the Bill and Melinda Gates Foundation came on board through a consortium known as the Alliance for a Green Revolution in Africa (AGRA) which is funding a second round of five cohorts of 10 students. This brings to more than 80 the number of PhDs in plant breeding that the ACCI aims to train.

The ACCI students undertake academic studies for two years in Pietermaritzburg before returning to their home countries to conduct three years of field research breeding African food security crops, primarily using conventional plant breeding methods in the environments in which the new crop cultivars will be grown by small-scale farmers.

The focus of the PhD theses is on the applied breeding of key food crops such as sorghum, cassava and cowpeas for increased disease and drought tolerance, and improved yields and quality, with the aim of improving food security in 12 African countries including Ethiopia, Kenya, Mozambique, Zambia and Malawi.

A key feature of the project is that AGRA has committed itself to ongoing funding of ACCI graduates who continue to breed their chosen food crop, aiming to deliver registered cultivars to farmers. Graduates have started to register a range of new crop cultivars in their home countries.

The staff of the ACCI each has their own plant breeding projects including mutagenesis of sorghum and wheat, development of low phytic and maize using molecular markers, breeding for high beta-carotene maize and the development of biofuel crops.

The African Centre for Food Security

Aware of the growing food security crisis in Africa, the School of Agricultural Sciences and Agribusiness established the African Centre for Food Security (ACFS) in 2006 to contribute to building and sustaining the critical mass of African expertise required to alleviate hunger on the continent.

The ACFS, one of very few institutions internationally providing accredited capacity development for food security research and policy analysis, aims to contribute towards eradicating food deprivation and enhance sustainable livelihoods among people and nations of sub-Saharan Africa. Its achievements have been remarkable and include: endorsement by the New Partnership for Africa's Development (NEPAD) as the lead agency in the food security activities of the Comprehensive African Agricultural

Development Programme (CAADP) and formal recognition as the Southern African Development Community (SADC) Regional Centre of Excellence for Vulnerability Assessment and Analysis (VAA), including VAA training and co-ordination. It is one of the few established Food Security Centres in the world to offer transdisciplinary training, and through UKZN, named degrees in food security. Through its representatives, the Centre played a leading role in the development of the Framework for Agricultural Food Security (FAFS).

The FAFS continues to be a reference food security document for NEPAD. The ACFS has also continued to play key roles in CAADP processes, including in the review of the agricultural investment plan and strategy for various African countries. The CAADP asserts that country-driven planning and programming is crucial for ensuring food security in Africa through agriculture-driven economic development.

The CAADP seeks to shift the development agenda away from donor-driven projects to comprehensive growth strategies that replace structural adjustment projects with a new way of doing business in Africa and through a radical African-owned initiative which broadens and improves sector-wide approaches and poverty reduction strategies.

In 2008 the Centre saw the graduation of its first PhD students.

Poultry Research

Research over the past 20 years has involved the development of simulation models that predict food intake and growth of broilers and pigs, and reproductive activity in broiler breeders and laying hens.

These simulation models have optimised the way in which broilers and pigs should be fed so as to maximise any one of a number of objective functions, such as margin over feed cost or feed conversion efficiency. The model developed at UKZN has been taken up by poultry scientists and producers around the world.

The research has led to extensive publications on the lighting management of broiler breeders and has resulted in a paradigm shift in the way that these birds are managed throughout the world.

As part of its engagement with the community, the Poultry Institute is involved in training prospective poultry managers by providing them with the skills needed to manage people, finances, poultry operations and even themselves. The Institute has impressive training facilities, including accommodation, lecture rooms, computers and a wide range of ongoing poultry operations, and these are housed on the University's research and training farm, Ukulinga. This Institute has been, and continues to be, highly successful in training students and preparing them for life.



Horticulturist Lawrence Maduramuthu and eThekweni Extension Officer Lungile Dladla in spinach beds in Newlands East, Durban.





Biotechnology is a broad multi-disciplinary area which is defined by the United Nations Convention on Biological Diversity as “any technological application that uses biological systems, living organisms, or derivatives thereof, to make or modify products or processes for specific use”. Biotechnology has a range of applications in medicine, industry, agriculture, and the environment.

The adoption of the National Biotechnology Strategy in 2001 created the impetus for rapid growth in the field of biotechnology in South Africa. The challenges identified in that strategy have informed a number of research groups at UKZN which are involved in the various sectors of biotechnology.

The School of Biochemistry, Genetics, and Microbiology leads the biotechnology initiative at UKZN by providing a common link to various biotechnology research projects and has a wide curriculum geared to train students in areas of biotechnology ranging from the bio-engineering of industrial yeast for controlled flocculation to biofuel production, mitochondrial enzyme regulation, the development of biomarkers of water pollution in aquatic organisms and an examination of the microbial response to climate changes in soils, and the implications on carbon-cycle feedbacks.

Specific Research Disciplines within the field include:

Chemistry: Research areas include organic synthesis, asymmetric catalysis, peptide drug design and computational chemistry. Collaborative research is conducted around the testing of tuberculosis and anti-fungal drugs, the identification and diagnosis of tuberculosis and radio-labelled imaging agents. Researchers have access to an extensive collection of modern instrumentation – among the best on the African continent – which includes four NMR spectrometers (including 600 MHz with solids probe), a wide range of chromatographic equipment (including GC-MS, LC-MS and MALDI TOF).

Medical Biochemistry: A mini drug discovery platform set-up facilitates the conducting of assays for various natural and synthetic compounds to test for cytotoxicity. An evaluation of immunotoxicity using apoptosis assays is also conducted.

■ **HIV/AIDS and TB:** A collaborative link with Virology at Inkosi Albert Luthuli Hospital has been established to screen compounds for anti-HIV activity. Currently, the research focus is on using micro RNA species to type serum in patients infected with TB. This has therapeutic potential in infected patients.

- **Cancer:** Novel drug development and screening also targets cancer.
- **Diabetes:** Development of a novel non-genetic animal model for Type-2 diabetes is under way using rats. This research also focuses on the analysis of the chemical composition of several functional foods and medicinal plants and extracts as well as their effects on non-communicable chronic diseases.
- **Malaria:** To combat the scourge of malaria in Africa, a research team is focused on malaria-related biochemistry, diagnostics, vaccines, metabolism, sequestration, immune-modulation, anti-malarial drug action and potential drug targets. The team is looking at developing new ways to diagnose malaria with a simple and cost-effective dipstick assay. To understand how the disease affects cells of the immune system during a malaria infection and under the influence of anti-malarial drug therapy, an X-Ray microanalysis is used which enables the measurement of minute changes in the concentrations of elements within individual cells. The expression, location and structure of the protein are being studied.
- **Sleeping Sickness:** Research is conducted into *Trypanosomiasis* which looks at poultry pathogens and trypanosomes of importance in South Africa and the rest of Africa in order to develop diagnostic assays, therapeutic strategies and, ultimately, vaccines against the diseases caused by these infectious agents. The research focuses on the molecules involved in the binding of the pathogens to their host tissues, antigenic differences between different strains of pathogens and between those of field strains and vaccine strains. Techniques in protein purification and characterisation, immunochemistry and molecular biology are employed.
- **Stem cell research:** Research is conducted involving the regulation of skeletal muscle formation from mouse and human stem cells. The effect of extracellular and growth factors as well as anti-retrovirals (ARVs) on this process is being investigated. In addition, the generation of *in vitro* three-dimensional, functional, skeletal muscle is under development. Techniques used include tissue culture, primary cell isolation, fluorescence and confocal microscopy (including live cell imaging), wound healing assays and standard protein determination methods.

RESEARCH FOCUS AREAS

Nano-therapeutics: Research is conducted into the use of nanotechnology in foreign gene delivery (classical and mitochondrial gene therapy), expression and gene silencing mediated by RNA interference. UKZN has a dedicated cell/tissue culture facility which is also actively involved in assays looking at the *in vitro* cytotoxic effects of natural products.

Genetics: Quantitative, population and molecular genetics technologies are employed in unveiling the contribution that genes make to important traits in animals. Molecular techniques are used to examine genetic factors underpinning biological diversity in the field of evolutionary biology. In the field of redox systems biology, the focus is on elucidating how the components in biological systems are integrated to give functional properties.

Microbiology: Research is conducted into the role and function of micro-organisms in a wide range of environmental and biotechnological processes. These include screening for biocatalysts from environmental samples, optimisation of biotechnological processes by artificial intelligence tools, isolation and characterisation of micro-organisms and their secondary metabolites with potential to tackle pathogens, improving beer quality by profiling flavour-active ester compounds in beer under different fermentation and nutritional conditions, and the study of diesel degradation mechanisms by several isolates using real time PCR and proteomic techniques.

Screening is performed to isolate micro-organisms with potential for biotechnological applications. Among the studies currently under way are the following:

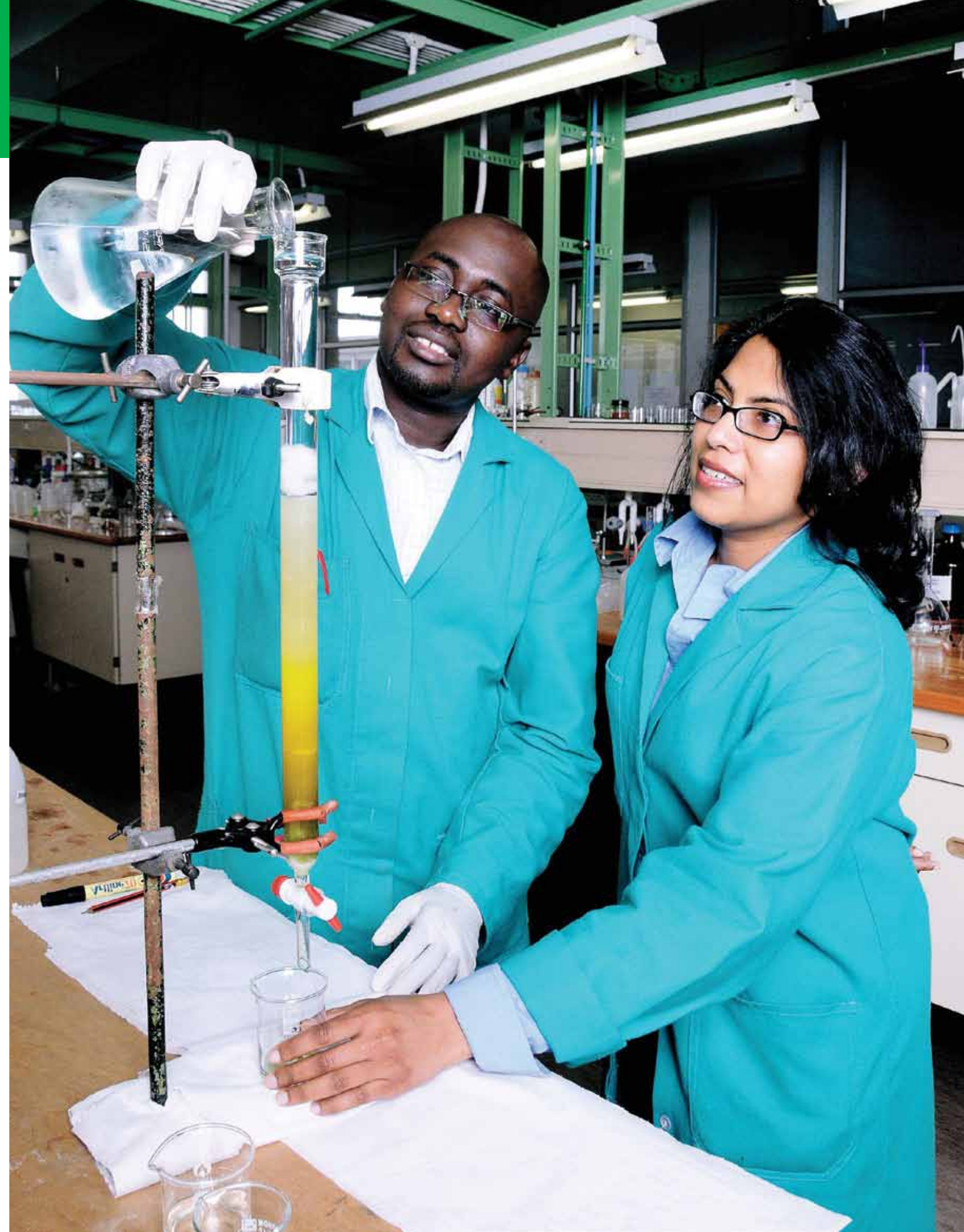
- **Biofuels:** Research in this area focuses on the impact of microbial population dynamics on the stability and performance of biotechnological processes employed to generate bio-gas or bio-hydrogen and an assessment of the potential of organic waste materials for microbiological energy generation. It also includes bio-mining for novel, thermophilic enzymes for lignocelluloses metabolism, cloning in heterologous hosts and enzyme characterisation, construction of lignocelluloses-metabolising and ethanol fermenting strains, construction of consortia for lignocelluloses bioconversion to ethanol, and the application of crude enzyme extracts in conjunction with recombinant yeast strains expressing cellulose and xylanase-degrading enzymes in order to develop enzyme cocktails to be used in biofuel production from lignocellulosic biomass in consolidated bio-processing fermentations.
- **Biopulping:** An assessment of seasonal microflora variation and their physical and chemical effects on wood chips for the pulping industry is under way. The aim is the development

of strategies to manage chip piles in order to avoid chip deterioration which leads to reduced pulp yields or inferior pulp quality.

- **Water-related studies:** Studies are taking place which examine the biochemical and molecular characterisation of bacteria isolated from wastewater treatment plant for chlorophenol degradation. Research focuses on the genomic evolution and adaptation of phenol-degrading bacteria to lethal phenol concentrations. Phenol-degrading isolate increased the phenol tolerance level from 400 mg/L to 800 mg/L and 2.5 fold in degradation rate within a 10-day adaptation period. Studies in a virus evaluation programme of the Umgeni River in Durban showed varying viral abundance along the Umgeni River and many enteropathogenic viruses have been detected. Other studies demonstrate that bio-competitive exclusion can be used to slow down metal corrosion by supplementing additional nitrogen sources. Studies into the generation and on-site treatment of synthetic grey water for non-potable application are also carried out by the Discipline.

Other water-related studies include:

- The impact of irrigation water quality on the safety of fresh fruits and vegetables, a six-year collaborative research project with the University of Pretoria.
- Bioremediation of water co-contaminated with chlorinated organic compound and heavy metals and profiling the microbial population and diversity involved in the degradation processes. In order to gain insight into the metabolic functioning of the microbial population the total DNA (metagenome) isolated from the contaminated site was sequenced by pyrosequencing.
- The contribution of heterotrophic micro-organisms to eliminate metal from groundwater.
- The study of bacterial diseases associated with aquaculture and the ability of the pathogenic bacteria to form biofilms, identifying their antimicrobial resistance phenotypes, identifying alternative strategies to eliminate these micro-organisms, including the use of phytochemicals, identifying the role of quorum sensing in biofilm formation and attempting to inhibit quorum sensing and thus the associated pathogenicity. Additionally, genotyping of these bacterial pathogens is being undertaken, as is a study on the genes associated with antimicrobial resistance which hamper effective therapy.
- Aerobic catabolism of aromatic priority pollutants by freshwater and marine micro-organisms.





Energy & Technology for Sustainable Development

The Energy and Technology for Sustainable Development focus area is providing leading research for the needs of South Africa and is in keeping with the mission of UKZN as the Premier University of African Scholarship. The energy sector is by far the largest contributor to global GDP and is the engine that drives the world's economy. Humankind's insatiable appetite for energy has meant that this sector influences all aspects of the economy and has direct and indirect bearing on the socio-economic development of a country and its people.

In the National System of Innovation, energy security has been identified as one of the "grand challenges". Research in the energy sector is not limited to production and distribution of electricity, but also to the minimisation of energy usage, as well as the limitation of the negative environmental effects which are caused by the production and use of energy sources. In this regard there has been a rapidly-growing research interest in improving and developing new technologies for the reduction of carbon dioxide and other greenhouse, and flue gases emitted from coal power plants and fuel burning plants.

There are a number of definitions of sustainable development, but one of the simplest argues that it is development which uses resources available to meet human needs while still preserving the environment so as not to compromise the needs of future generations. Research that is currently undertaken at UKZN in the area of technologies for sustainable development is finely woven into the research being undertaken in the energy sector. The development of technologies for renewable energy, which include fuel production from renewable sources, is a perfect example of this. Research in sustainable technologies also includes environmental sustainability studies which aim to ensure that current industrial processes lead to minimal damage to the environment.

At UKZN there are a number of Units and Centres in this focus area which are conducting research in various aspects of energy production and utilisation as well as technology application for sustainable development. Some of the Units have been established through close research collaborations with major industries such as ESKOM and SASOL. The partnership with ESKOM has resulted in massive investment in research and the establishment

of state-of-the-art facilities such as the High Voltage Direct Current (HVDC) Centre and the Vibrational Research and Test Centre (VRTC). The facilities are for research on improved equipment and system performance of electricity transmission and distribution networks. Sustainable manufacturing and chemical production is an area of strength in the Faculty of Engineering with large research groupings in the Schools of Mechanical and Chemical Engineering respectively. The Thermodynamics Research Unit which resides in the School of Chemical Engineering is a SASOL Centre of Excellence in Chemical Thermodynamics and undertakes research into the improvement and optimisation of chemical and separation processes for SASOL. Partnerships also exist with major players in the telecommunications industry with a centre of excellence in this area in partnership with Telkom and Alcatel-Lucent in the School of Electrical, Electronic and Computer Engineering.

Research work on renewable and alternative energy systems and technologies such as solar and wind as well as biofuels and conversion of municipal waste to natural gas for electricity production is being conducted by multi-disciplinary teams in the College of Agriculture, Engineering and Science. One of the pillars of this initiative is the Integrated Renewal Energy Advancement Programme (IREAP) which is a partnership between UKZN, engineering company Karebo Systems, the Department of Trade and Industry, the Industrial Development Corporation of South Africa (IDC), the Technology and Human Resources for Industry Programme (THRIP), and other relevant partners for the development of a strategy for fundamental research into renewal energy.

This research focus area is also the home base for two South African Research Chairs Initiative (SARChI) – Chairs which are technology based, namely, the Quantum Information Processing and Communication Chair, which is at the frontier of applying quantum mechanics to develop new technologies in the areas of quantum cryptography and quantum computing, and the Fluorine Process Engineering and Separation Technology Chair, which supports the South African Fluorochemical Expansion Initiative (FEI) and will aid in the development of a substantial fluorochemical industry in the country.



Gender, Race & Identity Studies

The focus of Gender, Race and Identity Studies draws on multiple Disciplines within the University, to examine the ways in which identities are constructed, created and consolidated.

Disciplines across UKZN draw on several frameworks for engaging with issues of race, and gender, among other social categories – like age, sexualities and class. In the context of health inequalities, for example, AIDS, gender and sexual violence, the focus areas of Gender, Race and Identity provide important conceptual tools to address how social structures that arise in history are reproduced but are also open to change.

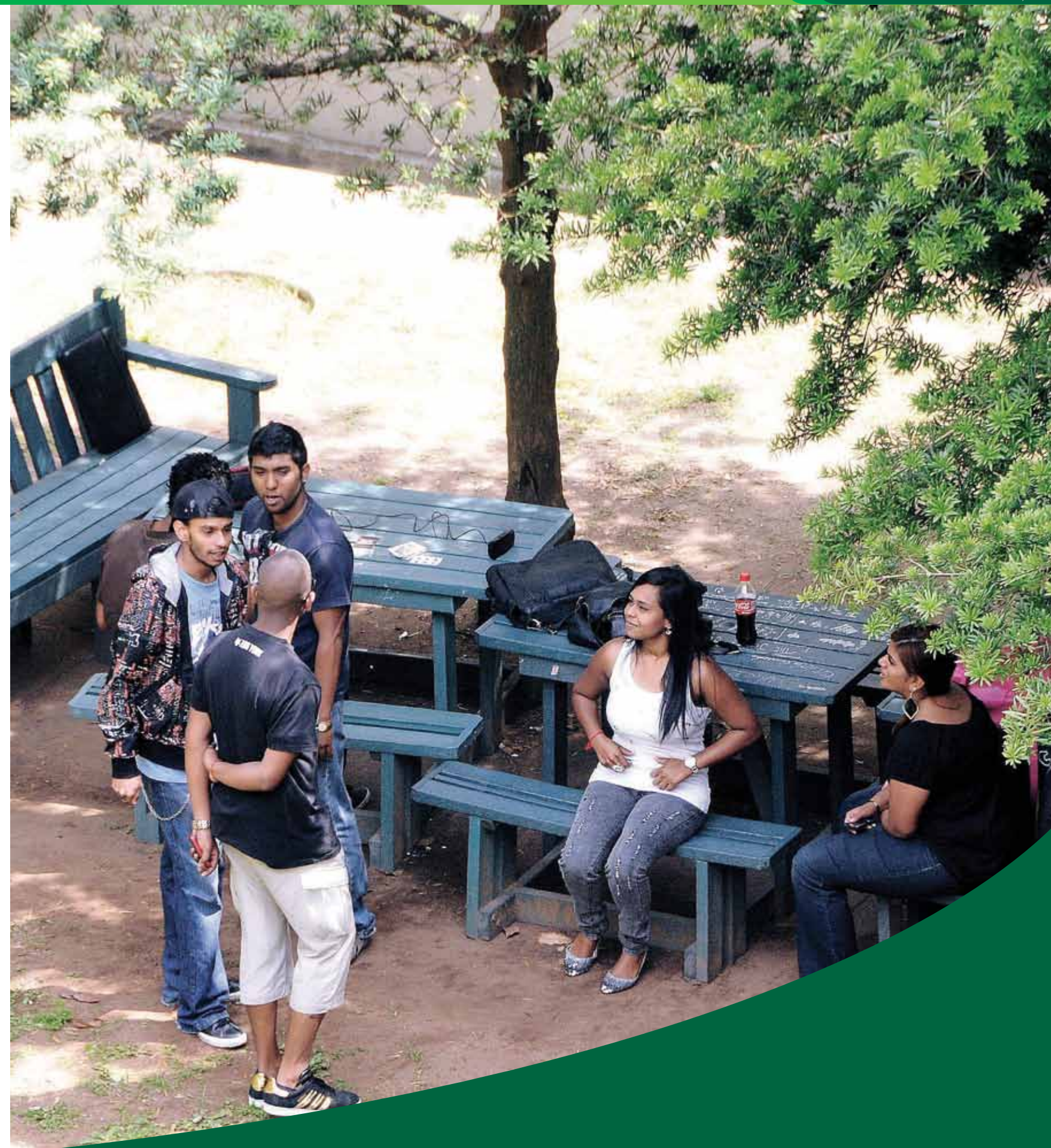
Strongly influenced by contemporary critical theories which question the framing of power inequalities, Gender, Race and Identity focus on the dynamism and intersections of social inequalities and the vulnerabilities and anxieties of those belonging to groups usually constructed as powerful, as well the agency of those belonging to groups usually seen as lacking power.

Through the Centre for Critical Research on Race and Identity (ccri), the University has engaged specifically with the issue of “racial classification”. This theme is broad and demands interdisciplinary approaches to formulating and executing projects and analysing data. It also requires that a range of discrete initiatives speak to each other – those that address thinking race and gender in everyday life and public discourse, that search for and challenge ‘race’ requirements in legislation, that raise questions about institutional location and purpose of race classification and research that express how the ‘agents’ of classification fulfill their tasks and the effects on those classified.

The focus area locates itself by initiating serious and difficult debate, and by researching alternative routes to creating a society that is non-racial and that is simultaneously and measurably moving towards greater equality than that which is currently experienced by all South Africans.



RESEARCH FOCUS AREAS



HIV/AIDS, TB and Health Promotion

RESEARCH FOCUS AREAS



As the pre-eminent academic institution at the epicentre of the HIV epidemic in South Africa, UKZN has taken up the challenge of providing leadership in response to HIV and AIDS, and is undertaking ongoing research to enhance and strengthen the biomedical and broader societal response to the epidemic. UKZN continues to attract international recognition for its groundbreaking research in both HIV prevention and treatment.

In the field of HIV/AIDS research, well-established partnerships exist which facilitate networking and collaboration with researchers within UKZN, at other South African academic institutions, and around the world.

At a global level, UKZN strives to nurture international institutional partnerships such as its long-standing relationship with the universities of Columbia and Harvard, both in the United States. In recognition of its standing as a world-class research centre in HIV/AIDS and TB, the University has successfully attracted funding from influential international organisations such as the Howard Hughes Medical Institute (HHMI), the Wellcome Trust, the US National Institutes for Health (NIH), the US Agency for International Development (USAID), and the European Union (EU).

Through the Columbia University-Southern African Fogarty AIDS Training and Research Programme, the institution is committed to building scientific capacity in HIV/AIDS and tuberculosis research in several countries in Southern Africa to enhance continuing efforts to counter the HIV/AIDS and TB epidemics. Now in its 16th

year, the programme has trained many of South Africa's young AIDS and TB researchers.

UKZN's focus on HIV/AIDS, TB and Health Promotion is a multi-faceted and multi-disciplinary initiative, involving a number of established research groups and projects which recognise the importance of rigorous scientific inquiry aimed at, for example, an understanding, of the pathogenesis, virology, immunology and epidemiology as it relates to HIV/AIDS, or the role of breastfeeding in mother-to-child HIV transmission and the facilitation of clinical trials for treatment of HIV and TB in both children and adults.

At the same time, however, this research cluster does not neglect the socio-economic implications and impact of diseases such as HIV/AIDS and TB. Thus, there is significant emphasis on research into the ethics, law and human rights issues as they relate to the administering of AIDS vaccines through the ELH (Ethics, Law, Human Rights) programme, and the HIV/AIDS Vaccine Ethics Group (HAVEG). The broad socio-economic impacts of AIDS are examined through the Health, Economics and HIV/AIDS Research Division (HEARD), and the research around the role of indigenous health care systems in addressing the epidemic is conducted under the leadership of a Chair in Indigenous Health Care Systems.

Working in partnership is critical, given the complexity of the virus, and the extent of its impact on our population.

The Africa Centre for Health and Population Studies

The Africa Centre for Health and Population Studies, one of UKZN's Research Centres which conducts community-based research on HIV epidemiology, prevention and treatment, partners with the local Department of Health in the rural area of Hlabisa in northern KwaZulu-Natal to provide AIDS treatment to thousands of patients at each of the 17 primary health care clinics in the district.

With core funding from the Wellcome Trust, the Centre hosts a large demographic and health surveillance system with annual household and individual surveillance of 90 000 people in 11 000 households. Another major area of research is the role of breastfeeding in mother-to-child transmission of HIV.

Using the data from its demographic surveillance system, the Africa Centre has demonstrated the relative importance of the lifetime number of partners (as opposed to concurrent partners) as the main risk factor for HIV infection. It has also investigated trends in adult mortality before and after the introduction of the HIV treatment programme, showing a significant decline in overall population mortality and HIV-related adult mortality following ART roll-out, in a high HIV prevalence community.

Subsequently, research at the Centre has also shown a decline in early (0-2 years) childhood mortality and it was estimated that the decline was partly due to the roll-out of the Prevention of Mother-to-Child Transmission (PMTCT) programme and reduction in the number of HIV-infected children.

Another multi-institutional team works under the banner of the Centre for the AIDS Programme of Research in South Africa (CAPRISA) and undertakes cutting-edge research on HIV epidemiology, pathogenesis, prevention and treatment and examines the links between tuberculosis and AIDS care.

Established in 2002 under the NIH-funded Comprehensive International Programme of Research on AIDS (CIPRA) by five partner institutions – the Universities of KwaZulu-Natal, Cape Town, and the Western Cape; the National Institute for Communicable Diseases, and Columbia University in New York – CAPRISA is a designated UNAIDS Collaborating Centre for HIV Prevention Research.

Since its inception, the CAPRISA research programme has delivered a number of significant findings which are making a tangible impact on the way in which the epidemic is currently being managed and treated at home and beyond.

Studies at the rural Vulindlela Research Centre near Howick, for example, have provided a detailed understanding of the epidemiology, risk factors and vulnerability to high rates of HIV infection in young women in South Africa; the CAPRISA 004 trial of the Tenofovir gel microbicide provided the proof-of-concept evidence that antiretrovirals can prevent HIV infection in women; the 002 Acute HIV infection study has generated new data on how viral and host factors impact on the risk of HIV and its natural progression as a key contribution to vaccine development and testing; and the 003 SAPIT trial provided critical evidence for World Health Organisation guidelines on how to treat patients with HIV and TB co-infection.

In addition, the Enhancing Care Initiative, part of the NIH-funded network, which conducts clinical trials of therapeutics for HIV infection and subsequent complications in children and adults, played an important role in uncovering the epidemic of extensively drug-resistant tuberculosis (XDR-TB) at the Church of Scotland hospital in the rural area of Tugela Ferry.

The HIV Pathogenesis Programme which conducts research into HIV immunology, virology and pathogenesis also contributed towards the discovery of the various HLA (human leukocyte antigen) genotypes that are associated with lower viral load.

The HIV/AIDS, TB and Health Promotion initiative is a highly dynamic focus area which is constantly evolving and expanding to meet needs and respond to exigencies on the ground. To this end, four areas of intensive research into tuberculosis and HIV/AIDS – which are likely to yield significant breakthroughs within a few years in the diagnosis, prevention and treatment of the diseases – are underway, thanks to a multi-million rand grant from the Howard Hughes Medical Institute (HHMI) in the United States.

The grant, the biggest ever for medical research in South Africa, will establish the KwaZulu-Natal Research Institute for Tuberculosis and HIV (K-RITH), to construct a new building for the Institute at the University's Nelson R Mandela School of Medicine and fund TB and HIV research at UKZN for the next 10 years.

The Institute, which will be one of the most sophisticated of its kind in the world, will offer state-of-the-art facilities for researchers and students from across Southern Africa.



Maritime Studies

Marine Science and Coastal Engineering

UKZN research in Coastal Engineering is led by Professor Derek Stretch, who is the eThekweni Municipality Chair in Civil Engineering and Professor of Hydraulics and Environmental Fluid Mechanics at the School of Civil Engineering.

The Metro, UKZN and TU Delft (TUD) in Holland, one of the top 20 universities in the world, recently agreed to collaborate on research in Coastal Engineering.

TUD are partners in Professor Stretch's SANPAD-funded research projects at St Lucia estuarine lake and a group of 10 Dutch post-graduate students visited UKZN recently to take part in the ongoing work.

One of the most significant aspects of Professor Stretch's research, and that of his postgraduate students, is his unique



and innovative collaboration with Biological and Conservation Sciences. This partnership sees engineers working hand-in-hand with biologists on the ecosystem functioning of Lake St Lucia, one of the world's critically important estuarine systems which is part of the iSimangaliso world heritage site.

Since 2004, Stretch has been working with Professor Renzo Perissinotto from the School of Biological and Conservation Sciences on developing an integrated biophysical model for the entire estuarine system. Recent funding from SANPAD, WWF and the NRF will ensure that this work continues for at least another three years.

Overall the group's research suggests that the artificial separation of the St Lucia and Mfolozi inlets is by far the most significant anthropogenic impact on the functioning of the lake and that its reversal is key to sustainability of the system. Ongoing research aims to guide future management strategies to best achieve this.

The primary research focus aims to achieve significant scientific advances in the analysis and modelling of human impacts on productive aquatic ecosystems, including threatened estuarine systems – addressing issues of sustainability, increasing pollution, flow reductions, and widespread degeneration of the functioning of these critical ecosystems. The main innovation targeted in the research is the effective integration of physical dynamics with ecosystem responses in a way that is appropriate for encapsulating understanding of their functioning into predictive models for application to sustainable management.

Overall, the scientific importance of the activities of the research group is embedded in its focus on developing new insights and understanding of the structure, functioning and sustainable management of critical productive hydro-ecosystems.

Secondary research focus areas are:

- Climate change – prediction models, adaption strategies
- Air quality analysis and modelling in urban areas
- Analysis and design of renewable energy systems – wave, wind, currents
- Analysis and mitigation of natural hazards – floods, droughts, dispersion of toxic gases.
- Catchment management – erosion/sediment yield, soil moisture mapping, remote sensing, modelling.
- Management of urban water reticulation networks and storm water systems.

The group uses theoretical, computational and field-based research techniques to develop insight and understanding of flows in the natural environment. They work as a multidisciplinary team

RESEARCH FOCUS AREAS

using an integrated approach to understanding and modelling physical and biological systems.

Professor Stretch said their Coastal Engineering collaboration with the eThekweni Municipality was developing rapidly. He currently has three PhD students working on the project in addition to several MSc students at the metro conducting research on aspects of water infrastructure.

Maritime Initiative

The Maritime Initiative has been identified as a potential Research Focus Area for UKZN, based on historical activities in this area as

well as the University's geographic position on the South African East Coast.

There are existing Masters level qualifications as well as undergraduate and Honours qualifications in Science and Agriculture (Biological Sciences) with a range of modules offered across the various Faculties.

Clear opportunities for closer collaboration, and especially for interdisciplinary PhD study and the Maritime Initiative in this area has been identified.



Indigenous African Knowledge Systems

RESEARCH FOCUS AREAS



An independent review by a team of external national experts established that UKZN has a number of researchers who publish work in the field of indigenous knowledge or African scholarship. The University subsequently identified Indigenous African Knowledge Systems as a strategic focus area for research, teaching and learning. A number of developments have since taken place demonstrating growth in this area.

■ **The Indigenous Knowledge Systems Expo and the Traditional Medicine Conference.** Co-hosted by UKZN with the Department of Science and Technology, UKZN Chancellor and Premier of KwaZulu-Natal, Dr Zweli Mkhize, the events were a tremendous success, attracting researchers and knowledge holders from all over the world. The results of the first phase of a clinical trial on *Sutherlandia frutescens* and early HIV infection were released at the conference by a team of researchers in which UKZN was represented by Dr Douglas Wilson and Professor Nceba Gqaleni.

■ **Ethnobotany and Ethnopharmacology.** Understanding the traditional uses of plants for medicinal purposes (ethnobotany) and the medicinal value and efficacy of indigenous plant species (ethnopharmacy) are critical areas of study if South Africa is to achieve its vision of becoming a leader in the global pharmaceutical industry – from which many pharmaceuticals are derived. The University has an active research programme in this field, which has produced a number of publications and made significant findings.

The scope of the research is wide – there are more than 3 000 medicinal plants presently traded and used in African traditional medicine – and ranges from the pharmacological screening of coniferous plants such as the *African Podocarpaceae* and the pharmacological potential of plants from the Orchidaceae family, to investigations of the effect of storage on the phytochemical composition and biological activities of certain Southern African medicinal species.

Other areas of research include: the study of medicinal plants traditionally used for the treatment of stomach ailments; the isolation of the antibacterial compounds from *Erythrina caffra*; the study of medicinal plants used by the Venda communities to treat venereal disease and plants used to treat diarrhoea; the efficacy, safety and pharmacological properties of commercial herbal mixtures which are an increasingly popular form of African traditional medicine.

Studies are also being undertaken to compare the anti-microbial activity of bulb versus leaf extracts of certain plants so as to reduce the threat to species that comes with the increasing harvesting of bulbs.

Work has also started on the phytochemical makeup of *Cyrtanthus contractus*, a member of the family Amaryllidaceae, from which the commercial Alzheimer drug Galanthamine has been produced.

■ **The National African Traditional Medicines consortium,** chaired by UKZN's Professor Nceba Gqaleni, has received R11 million in funding from the Department of Science and Technology for indigenous knowledge system bioprospecting and product development. The consortium is conducting research and development of products for conditions such as HIV/AIDS, TB and diabetes. They have developed a research and development agreement with knowledge holders, a first of its kind in South Africa.

■ **UKZN is participating in the National Cosmeceuticals Consortium,** also funded by the Department of Science and Technology. The work by Dr Ncoza Dlova, a specialist in Dermatology at the Nelson R Mandela School of Medicine, on the use of plant extracts for treatment of hyperpigmentation was chosen as the "Best Work and Presentation for further Research and Development" by UKZN's Intellectual Property and Technology Transfer which is considering a process for developing a patent.



Social Development & Economic Studies

RESEARCH FOCUS AREAS



Integral to UKZN's mission is a strategic thrust towards research and knowledge production that expresses itself in practical interventions for the upliftment of the wider South African society.

Economic development is a national priority and the University makes full and innovative use of its existing capacity in this regard.

The main focus of the Economic Development Strategic Initiative (EDSRI) is to strengthen and enhance applied and policy-relevant research in the field of economic development.

Initiated in June 2003, EDSRI is managed by representatives from the Disciplines of Economics and Finance, Sociology, Development Studies, Economic History, Agri-Business, Cultural

and Heritage Tourism, and the Health Economics and HIV/AIDS Research Division (HEARD).

In its structure, the EDSRI aims to cover the interests of UKZN academic members across all the University's campuses in the area of economic development. The role of each steering committee member has been to ensure that progress within the EDSRI is reported to academics across as large a number of Schools as possible, to engage a broad interest and stake in the EDSRI, and to provide feedback as to how to move the research initiative forward.

The EDSRI has convened a number of workshops on development-related issues. Workshops have been held on subjects such as "Making data work for development", while the EDSRI sponsored

a Strata training course – a statistical programme for data analysis for staff and students. The course aimed to improve researchers' familiarity with the software necessary to access and process data.

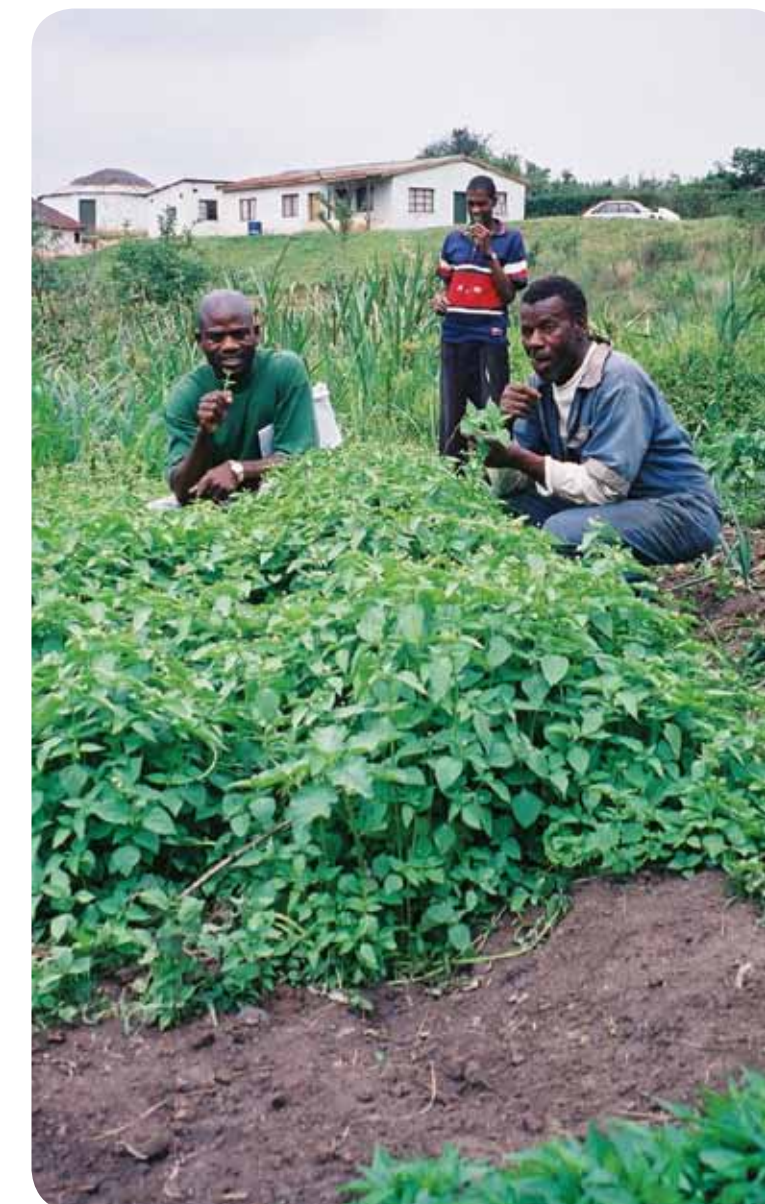
The EDSRI focuses on racial, gender, urban-rural economic and livelihood inequalities in South Africa and continues to ask what the relationship is between the growth and spatial distribution of the public and private economic sectors. The research encompasses the formal and informal economy, the nature of poverty, the characteristics of the poor, areas and socio-economic empowerment.

The overall research objective of the Research Chair in Economic Development, held by economist Professor Dori Posel, is to explore the interface between households and labour markets in South Africa, advancing knowledge across a range of socio-economic areas, including those relating to marriage, migration, child care, household survival strategies and resource sharing, and labour force participation and employment.

The research is integral to evaluating the experiences of economic development among individual South Africans and to assessing economic and social policy that seek to reduce poverty and increase well-being.



Moses Mabhida Stadium



Water, Environment & Biodiversity

RESEARCH FOCUS AREAS



UKZN has wide and varied expertise and experience in water-related teaching, research and outreach activities throughout South Africa and in many parts of Africa and beyond. The research focus area draws in a range of academics and students from all the University's Colleges and most of its Faculties.

UKZN's strength in the field of water is evident in its nationally and internationally recognised researchers with active research programmes and postgraduate students in water-related fields, and several ongoing research projects supported by local and international funders. These projects and the contribution of the University's graduates have resulted in UKZN being recognised as one of the leading institutions in water-related research and training in South Africa and internationally.

Hydrology

Research is centered on improving our understanding of the functioning of the hydrological cycle, its sensitivity to human influences and the development of tools through which this

knowledge can be applied for effective water resources management and planning.

Within this context, hydrology research is conducted within the following areas:

- Agricultural water use and innovation in irrigation practices.
- Water related aspects of land use change.
- Hydrology process studies.
- Hydrological aspects of climate change and forecasting.
- Hydrological model and database design and development.

Development of tools and practices to assist in the implementation of South Africa's National Water Act and the management of the country's water resources is an outcome of these studies, but the Research Group is also active in regional, continental and global initiatives. One of the more notable outputs from this group is the Agricultural Catchments Research Unit's Agro-hydrological Modelling System, a software system that is being used as a research and management tool for water resources planning and operations in South Africa and provides a foundation for several ongoing research projects.

Projects completed recently include a revised agrohydrological atlas for South Africa, and tools to estimate the water use of commercial afforestation in South Africa, both of which are now used by the Department of Water Affairs and Forestry in water licensing and regulation.

Waste, Water and Sanitation Management

As a result of a Memorandum of Agreement signed between the eThekweni Municipality's Water and Sanitation Department and UKZN, the University's Pollution Research Group (PRG) has expanded its activities into municipal water and wastewater management. These activities form the focus of a multi-disciplinary team of engineers, biologists, political scientists and community medical professionals, and have included participation in two European Union research projects related to membrane bioreactors and the identification and dissemination of best practice of water and sanitation supply to unserved communities.

Sanitation projects are being undertaken on pit latrines and urine diversion toilets. Collaborative research on the anaerobic baffled reactor process includes internationally recognised projects being undertaken by the non-governmental organisation Borda, which is working in South-East Asia and Africa.

Research for the Water Research Commission and SASOL is ongoing. The Pollution Research Group recently received a R 2.8 million grant from the Bill & Melinda Gates Foundation to fund its toilet technology and sanitation research, the aim of which is to design a toilet system that will lead to the safe disposal of waste water in poor communities. UKZN was one of eight institutions – and the only one in Africa – chosen out of 22 to take part in the "Reinvent the Toilet" challenge.

Micrometeorology and Agrometeorology

Investigations are conducted into the energy and water balances between the soil, plants and atmosphere through the Soil-Plant-Atmosphere Continuum Research Unit (SACRU) which specialises in micrometeorology and agrometeorology. This internationally-recognised Research Unit has a major research thrust in the investigation of energy and water balances and emphasises the use of and development of methods for the measurement of evaporation, sensible heat and, more recently, carbon dioxide fluxes above land surfaces. Most of this research is funded by the Water Research Commission.



UKZN researchers at work



Hydrological Engineering

The way in which engineering interacts with the natural environment and can be used to promote sustainable practices is consolidated in research conducted by the Centre for Research in Environmental, Coastal, and Hydrological Engineering (CRECHE). Projects include the management of landfill emissions, the dispersion of pollutants in the atmosphere and coastal waters, spatial rainfall modelling and estuary bio-hydrodynamics. The Centre also conducts leading national research into radar-rainfall relationships and flood forecasting through its Satellite Applications and Hydrology Group (SAHG).

Limnology

Biological limnology research, with particular focus on man-made lakes and integrated catchment management, is concentrated in the School of Biological and Conservation Studies. Members of the Grassland Science Group collaborate with communities in the Upper-Thukela on a pilot "Payment for Environmental Services" project funded by the Department of Water Affairs and Forestry. Here, indicators for the payment of water services are developed and tested.

Applied research into and management of water resources, decision support tools for estuaries, fresh water management and water conservation is conducted by the Institute of Natural Resources, an associate institute of UKZN.

In addition to these larger water research groups there are several other initiatives, notably working on wetlands, soil erosion, community interactions and sanitation, estuary-related research, and water and public health.

Thanks to a major investment by the Water Research Commission, research grants in the field of water total about R20 million a year from international funders, including the Ford Foundation, the European Union and Dutch and Swedish Development Agencies.

The Smallholder System Innovations (SSI) Research Project

This flagship research project cuts across and involves all UKZN groups. An applied and development-oriented research programme, it aims at advancing knowledge on how to balance water for food and the environment with a particular focus on upgrading smallholder rain-fed agriculture in water-stressed catchments. The multi-disciplinary research programme encompasses biophysical and social research themes, Grassland Science and the University's Farmers' Support Group, with the researchers working closely with other stakeholders, including local communities at two pilot catchments (Potshini and Makanya) in two river basins (Thukela and Pangani) in South Africa and Tanzania respectively.

The project is being implemented jointly by five research institutions: Sokoine University of Agriculture (Tanzania); Stockholm University (Sweden); the UNESCO-IHE Institute for Water Education (Netherlands); the University of KwaZulu-Natal; and the International Water Management Institute. Funded by the Dutch and Swedish governments, the programme – notwithstanding its development orientation – is based on innovative and cutting-edge disciplinary science and has supported two UKZN PhD students and four MSc students as part of a group of more than 20 postgraduates across the partner institutions.

LEADING RESEARCH CENTRES

LEADING RESEARCH CENTRES



Africa Centre for Health and Population Studies

The Africa Centre for Health and Population Studies was established in 1997 as an initiative of the former University of Natal and University of Durban-Westville in association with the South African Medical Research Council with funding provided by the Wellcome Trust, a medical charity in the United Kingdom.

The Centre is based in Somkhele in the south-western part of the Umkhanyakude district of northern KwaZulu-Natal, with access to laboratories and offices at the Doris Duke Medical Research Institute building in Umbilo. The Centre is located within the College of Health Sciences at the University.

Community-based research on HIV epidemiology, prevention and treatment is conducted by the Centre which flourishes under the leadership of Professor Marie-Louise Newell.

Major areas of research are demographic surveillance and the role of breastfeeding in mother-to-child transmission of HIV. The Centre, with core funding from the Wellcome Trust, hosts a large demographic and health surveillance system with annual household and individual surveillance of around 90 000 members of 11 000 households.

The Africa Centre partners with the local Department of Health in the Hlabisa HIV Treatment and Care Programme – since 2004 thousands of people have been initiated on treatment at each of the 17 primary health care clinics.

Comprehensive antiretroviral therapy (ART) coverage aims to reverse the substantial increase in HIV-related deaths in populations with a high prevalence of the disease. Using the data from its demographic surveillance system, the Centre has investigated trends in adult mortality before and after the introduction of the HIV treatment programme. The investigation showed a significant decline in overall population mortality and HIV-related adult mortality following ART roll-out, in a high HIV prevalence community.

Subsequently, research has also shown a decline in early

(0-2 years) childhood mortality and it was estimated that the decline was partly due to the roll-out of the PMTCT programme and the reduction in the number of HIV-infected children, but mostly due to the ART programme.

The key objectives of the Centre's current research initiatives (2007-2012) are:

- To further improve understanding of HIV dynamics and the impact of antiretroviral treatment (ART) roll-out at individual, household, clinic and community levels.
- To identify approaches to and target groups for interventions.
- To evaluate interventions at individual, household and community levels.
- To implement and further evaluate HIV treatment and prevention programmes.

Research at the Centre is multi-disciplinary using demography, epidemiology, social sciences, clinical, virological, immunological, bio-informatics and data based expertise to build a comprehensive and exciting research portfolio aiming at further understanding the HIV dynamics in the rural area in which it operates.

The resources which sustain all ongoing research include: the Africa Centre Demographic Information System (ACDIS) based on the socio-demographic household and the HIV behavioural surveillance, the Bio-informatics Unit, the Africa Centre Virology Laboratory at the Nelson R Mandela School of Medicine in Durban and the Hlabisa HIV Treatment and Care Programme. The social science research aims to fill the gaps in understanding behaviour relevant to acquiring or transmitting HIV, and to inform the development, and participate in the evaluation of, supportive interventions.

The clinical research takes full advantage of the Centre's presence in, and involvement with, the HIV Treatment and Care Programme delivery, while the population research charts the changing HIV epidemic in the area's rural population, including the impact of the treatment programme.

The African Centre for Crop Improvement (ACCI)

The African Centre for Crop Improvement (ACCI) was established in 2001 to train African plant breeders – in Africa – on African food security crops. It set out to train five cohorts of eight plant breeders, starting with the first cohort in 2002, with a vision of African scientists solving Africa's food problems.

The ACCI was initially funded solely by the Rockefeller Foundation but in 2007 the Bill and Melinda Gates Foundation came on board as well through a consortium known as the Alliance for a Green Revolution in Africa (AGRA) which is funding a second round of five cohorts of 10 ACCI students. This brings to more than 80 the number of PhDs in plant breeding that the ACCI aims to train.

The ACCI students undertake academic studies for two years in Pietermaritzburg before returning to their home countries to conduct three years of field research breeding African food security crops, primarily using conventional plant breeding methods in the environments in which the new crop cultivars will be grown by small-scale farmers.

The focus of the PhD theses is on the applied breeding of key food crops such as sorghum, cassava and cowpeas for increased

disease and drought tolerance and improved yields and quality, with the aim of improving food security in 12 African countries including Ethiopia, Kenya, Mozambique, Zambia and Malawi.

A key feature of the project is that AGRA has committed itself to ongoing funding of ACCI graduates who continue to breed their chosen food crop, aiming to deliver registered cultivars to farmers. Graduates have started to register a range of new crop cultivars in their home countries.

The ACCI is a unit within the Faculty of Science and Agriculture based in Pietermaritzburg. It is headed by Professor Mark Laing whose research interests include: plant breeding, biological control agents and the use of silicon in agriculture.

The staff of the ACCI each has their own plant breeding projects including mutagenesis of sorghum and wheat, development of low phytic and maize using molecular markers, breeding for high beta-carotene maize and the development of biofuel crops.



The African Vision Research Institute (AVRI)

The African Vision Research Institute (AVRI) is an African-based institute that links intellectuals, institutions, organisations and other personnel in the pursuit of confronting and dealing with the challenges of Africa's eye health issues. The organisation is led by Professor Kovin Naidoo, an Associate Professor of the University.

AVRI aims to reduce the burden of blindness in Africa by encouraging research activity among African scientists which is relevant to the control of eye diseases, human resource development and infrastructural capacity enhancement for increased eye care service delivery. The mission of the Institute is to develop research capacity and appropriate skills in an effort to eliminate visual impairment and avoidable blindness in Africa, in support of VISION 2020: The Right to Sight campaign initiated by the WHO and IAPB in 2000. This global campaign draws stakeholders involved in eye care to escalate and coordinate efforts towards eliminating avoidable blindness in the world by the year 2020.

The Institute is affiliated with the University of KwaZulu-Natal (UKZN); both organisations having a commitment to growing vision and eye research on the African continent. In addition to undertaking research, AVRI currently provides training in research methods; offers technical and logistical support on a range of research projects; assists post-graduate students to become

skilled researchers and research writers; assists authors to communicate effectively and scientifically; promotes, undertakes, and sources resources (journal articles, funding, information, etc); and promotes publication of research findings. Additionally, the Institute intends to disseminate research-related information to interested African researchers through its website, newsletters and publications.

AVRI also provides holistic support to post-graduate research projects, including assistance with writing protocols and proposals; advising on methodologies; designing of surveys/questionnaires; layout and content of conference abstracts, posters and presentations; sourcing publications and documents for research projects; and data entry and analyses in the form of descriptive reports.

Thus far, the Institute has made in-roads into developing linkages in East and West Africa and is currently pursuing North-South collaborative partnerships to strengthen the delivery of its mandate.

Professor Naidoo is the International Agency for the Prevention of Blindness (IAPB) Chair for Africa and the Global Programmes Director for the International Centre of Eyecare Education (ICEE) in Africa.

Astrophysics and Cosmology Research Unit

The Astrophysics and Cosmology Research Unit is an established centre based at UKZN and headed by Professor Sunil Maharaj.

The broad goals of the Unit are to:

- Promote research in astrophysics and cosmology thereby advancing the understanding of the universe and the diverse range of structures it contains.
- Increase awareness of astrophysics and cosmology by informing the public of the latest developments in these fields.

The Unit aims to achieve these goals by:

- A strong research programme centered on academic staff, post-doctoral researchers, post-graduate students, affiliated researchers and visitors.
- Regular colloquia, technical seminars and journal club

meetings as well as the organisation of larger workshops and conferences.

- Stronger links with local institutions and collaborations with leading international research groups. The Unit identifies strongly with the recognition of astronomy as a focus area in South Africa.

The South African Government has recently jointly funded the construction of the South African Large Telescope (<http://www.salt.ac.za/nSALT>) and is strongly backing the South African bid to host the Square Kilometre Array (<http://www.ska.ac.za/nSKA>).

The Unit is making scientific contributions to various projects associated with these facilities as well as the national endeavour to advance astronomy.



The Centre for the AIDS Programme of Research in South Africa (CAPRISA)

The Centre for the AIDS Programme of Research in South Africa (CAPRISA) is a world-class research centre that focuses its scientific contributions on HIV epidemiology, pathogenesis, prevention and treatment. The multi-institutional team, led by Professor Salim S Abdool Karim, was established in 2002 under the NIH-funded Comprehensive International Programme of Research on AIDS (CIPRA) by five partner institutions – the University of KwaZulu-Natal, University of Cape Town, University of the Western Cape, the National Institute for Communicable Diseases, and Columbia University in New York. CAPRISA is a designated UNAIDS Collaborating Centre for HIV Prevention Research. It is an official research institute of the University of KwaZulu-Natal.

CAPRISA's main goal is to undertake globally relevant and locally responsive research which contributes to understanding HIV epidemiology, pathogenesis, vaccines, microbicides as well as the links between tuberculosis and AIDS care.

To achieve this goal, CAPRISA conducts research in four main scientific programmes, each with a focused set of projects and at least one pivotal study:

- **Prevention and Epidemiology:** HIV prevalence and incidence studies at the rural Vulindlela Research Centre near Howick have made important contributions to a better understanding of epidemiology, risk factors and vulnerability to high rates of HIV infection in young women. These data laid the basis for the CAPRISA 004 tenofovir gel trial as well as the CAPRISA 007 trial of an innovative conditional cash transfer strategy to prevent HIV in school-going adolescents.
- **Microbicides:** The CAPRISA 004 tenofovir gel microbicide trial provided the proof-of-concept that antiretrovirals can prevent sexually transmitted HIV infection in women. This study, which radically changed the global HIV prevention landscape, was

ranked among the Top 10 Scientific Breakthroughs of 2010 by the journal, *Science*. The follow-up CAPRISA 008 study is assessing the impact of real-world implementation of tenofovir gel in family planning clinics while the CAPRISA 006 study is now focused on understanding how tenofovir gel works to prevent HIV *in vivo* in order to design an improved gel with substantially higher efficacy.

- **HIV Pathogenesis and Vaccines:** The Acute HIV infection (CAPRISA 002) study has generated new knowledge on how viral and host factors impact on the risk of HIV and its natural progression as a key contribution to vaccine development and testing. The long-term follow-up after acute HIV infection has led to new insights into the factors impacting the development of broadly neutralising antibodies. These studies have shed light on the viral genetic bottleneck, the relationship between T-cell immunity and disease progression and the potential role of genital inflammation as a risk factor for HIV acquisition in women.
- **HIV and TB Treatment:** The CAPRISA 003 SAPIT (Starting ART at three Points in TB) trial, which aimed to determine the optimal time for initiation of antiretroviral therapy (ART) in HIV-tuberculosis co-infected patients, redefined the international guidelines on the treatment of TB-HIV co-infection. The findings of the SAPIT trial have already been implemented in several countries, including South Africa. The follow-on study (CAPRISA 005) is now focused on determining the extent of and reasons for relapse and re-infection in incident cases of tuberculosis in HIV-infected patients on ART.

In addition to its research programme, CAPRISA has a well-established training programme which offers both pre-doctoral as well as post-doctoral fellowships to gain mentored research experience at CAPRISA.

The Centre for Critical Research and Identity (ccrri)

The Centre for Critical Research on Race and Identity (ccrri) is primarily a research unit. It was created and functions to initiate and facilitate research and to collaborate with others in the execution of research projects and related activities. The Centre focuses in the first instance on South Africa, but not as a unique site for the issues it confronts. The problems and opportunities that present themselves here demand local research, theorising and recommendations but also benefit from other insights and comparative research and can contribute to initiatives elsewhere.

Based on successes during the establishment phase of the Centre, 2010 saw the expansion of the Centre's networks through research, hosting of events or preparing for future events and through issues covered in discussions held at the Centre. The ccrri organised the highly successful Symposium on Classification and its Consequences with national and international participants, developed links with the Paris-based International Social Science Council and participated in the UNESCO-initiated African Coalition of Cities against Racism and Discrimination through policy research and serving on the Scientific Committee of Coalition's Africa section.

It proved appropriate in 2010 to continue with projects – or at least the majority of them – under the umbrella theme of “classification”. This theme is broad enough to demand inter- or even intra-

disciplinary approaches to formulating and executing projects and analysing data as well as allowing a range of apparently discrete initiatives to speak to each other. These initiatives include those that address race thinking in everyday life and public discourse, that search for and challenge a “race” requirement in legislation, that raise questions about the institutional location and purpose of race classification, and research that explores how the “agents” of classification fulfil their tasks and the effects on those classified.

Based on this research and that undertaken by associates of the Centre, strong opinions expressed in public comment by analysts and the motivation for and work presented at two workshops attended by staff (in one case co-hosted by the Centre), the ccrri expressed its own strong concern at the effects of continuing race classification in South Africa. Not only is there very little evidence that such an approach is serving its purpose – namely of achieving greater equality than the legacy bequeathed by apartheid – but its intended or unintended consequence is to reproduce the discredited notion of identifiable races.

The Centre, therefore, unambiguously locates itself in terms of initiating serious and difficult debate on alternative routes towards creating a society that is truly non-racial; a society that has simultaneously to be one that is measurably moving towards greater equality than is experienced on a daily basis by all South Africans, the large majority at the lower end of the divide.

The Centre for Quantum Technology (CQT)

The Centre for Quantum Technology (CQT), a Research Group in the School of Physics at the University of KwaZulu-Natal, began its operations in 2006 with an ambitious plan to foster research and development in the field of Quantum Information Processing and Communication (QIPC). The vision was to attract students to an exciting inter-disciplinary field of research and technology, to train them in a world-class research and development institute and facilitate the establishment of a sustainable quantum technology industry. This would provide opportunities for skilled individuals to engage their expertise and transform local knowledge pools into focused, innovative solutions.

The year 2010 marked the beginning of the fruition of this vision with the formalisation of QZN Technology (Pty) Ltd, a commercial vehicle for the research and development output at the CQT, and preliminary developments around a national, intra-disciplinary research facility in applied QIPC. Together with the CQT, these two structures will provide a sustainable capacity in quantum innovation for South Africa to leverage the upcoming opportunities in the information technology industry of the 21st century.

Undoubtedly the highlight of 2010 for the CQT was the deployment of quantum-secured communication solutions at the Moses Mabhida Stadium during the 2010 FIFA World Cup TM. This project has catapulted South Africa into the global race of QIPC. The European Union and the *Scientific American* (Japan) have recognised this project as a major milestone towards the market acceptance of QIPC. Building on the Quantum City initiative, the CQT and the eThekweni Municipality again partnered to provide a quantum cryptography security solution to one of the most crucial links of Durban's ICT initiatives during the 2010 FIFA World Cup TM. The Quantum Stadium project encrypted the link between Durban's Moses Mabhida Stadium and eThekweni's offsite Joint Operations Centre that housed the South African Police Force, Emergency Services and National Intelligence. The deployed system was similar to that used in the Quantum City initiative; however additional redundancy was added as a safety measure. The quantum communication link secured telephone, internet, video, data and email traffic traveling across the fibre optic link. This was the first time that quantum cryptography was applied to secure an event of global relevance.

The project attracted the interest of local and international media as well as the global QIPC research community. The National, Provincial and Local Government demonstrated their interest

in this development by participating in the official launch of the Quantum Stadium Project on 21 May 2010.

The development of the Quantum Stadium project from the proof-of-concept experiments in a laboratory environment to the fruition of the technology during the 2010 FIFA World Cup TM has demonstrated the ability of the Centre to engineer solutions from inception and support them throughout the innovation cycle. The establishment of a Centre of Competence will further enhance the capacity of the quantum technology industry to further develop such solutions.

The European Commission's Roadmap for Quantum Information Processing and Communication and the European Telecommunications Standards Institute have recognised this project as a major milestone towards the market readiness of quantum information processing solutions.

In 2006 the Centre for Quantum Technology hosted a very successful international conference on Quantum Technology in Durban. This was motivation to repeat the conference in 2010. From 20 to 23 September, 2010 the Centre for Quantum Technology organised the international conference on Recent Progress in Theoretical and Experimental Foundations of Quantum Technology. The Conference also started a new cycle of Conferences: The Quantum Africa series of conferences which is planned to take place consecutively in several African countries.

The motivation for this conference was to provide a knowledge base for research in quantum technology in South Africa, with emphasis on quantum cryptography. On the basis of the list of invited and confirmed international speakers, the conference was of great interest to colleagues from around the world. The conference featured many internationally renowned speakers and experts in quantum information processing, quantum cryptography, quantum optics, ultra-cold atoms, open quantum systems, quantum biology, and other relevant areas of quantum technologies.

During the year 2010 the Centre organised and hosted a workshop at UKZN on Quantum Field Theory on Curved Spacetime: From the Algebraic Approach to Local Covariance between 23 and 27, August. In December the Centre hosted a workshop on the topical issue of Non-Markovian unravellings for Open Quantum Systems.

Health Economics and HIV/AIDS Research Division (HEARD)

Health Economics and HIV/AIDS Research Division (HEARD) conducts applied research to support development interventions aimed at mobilising evidence for impact in health and HIV in the Southern African Development Community (SADC) and East Africa region.

Established in 1998, the Division – led by Professor Alan Whiteside – collaborates with a range of international institutional and individual partners.

Heard supports UNAIDS, the SADC Secretariat and Parliamentary Forum and the South African and African leadership in responding to issues of health, development and HIV.

Its objectives are to:

- Improve private and public sector understanding of the socio-economic impacts of HIV and AIDS through an applied research focus.
- Promote multi-sectoral responses to the impact of HIV and AIDS.
- Develop the practice of health economics and social/behavioural science.
- Train business and community leaders, professionals and government officials in the strategic planning for the management of HIV and AIDS and other health issues.

Its general principles are:

- Effective interventions through sound socio-economic, social and behavioural analysis and interdisciplinary research.
- The transfer of skills.
- The sharing of knowledge.
- Capacity building.
- Research utilisation.

HEARD currently focuses its research in three strategic areas: prevention and social mobilisation; health systems and health and care access; and Health and HIV in the urban context.

In a context of multiple stressors and rapid environmental and social change, HEARD conducts research that contributes to an understanding of the key driving forces behind the many epidemics which constitute HIV in Africa and its impact on health, effective and sustainable responses to health and HIV challenges, and sustainable interventions aimed at wellness and vulnerability.

Through its activities HEARD ensures the uptake of research that will leverage evidence-based action through the design and management of projects that are utilisation-driven collaboration, with scholars and stakeholders, to ensure research meets the needs of decision-makers building the capacity of researchers to translate research into policy and practice.

With reference to its research capacity building programme in Africa, the Division creates opportunities and provides support through an internship programme for young Masters graduates, support to increase the number of PhD qualified researchers in the region and building internal research staff capacity.

Its Gender Equality and HIV Prevention Programme combines research with policy and programmatic interventions to advance gender equality and roll back HIV, with a particular focus on the following areas:

- Research – generating knowledge on interventions which support gender equality and HIV prevention with a focus on structural and community level interventions in order to support knowledge about “what works”.
- Policy and Programmes – strengthening HIV programmes and policies in Southern and Eastern Africa to create an enabling environment for gender equality.
- Capacity Building – building a body of researchers in Southern and Eastern Africa with the capacity to undertake work on gender inequality and HIV prevention.

LEADING RESEARCH CENTRES

KwaZulu-Natal Research Institute for Tuberculosis and HIV (K-RITH)

Four areas of intensive research into tuberculosis (TB) and HIV/AIDS – which could yield significant breakthroughs within a few years in the diagnosis, prevention and treatment of the killer diseases – are underway at UKZN thanks to a multi-million rand grant from the Howard Hughes Medical Institute (HHMI) in the United States.

The grant, the biggest ever for medical research in South Africa, is being used to:

- Establish the KwaZulu-Natal Research Institute for Tuberculosis and HIV (K-RITH).
- Construct a R308-million building for the institute on the grounds of the Nelson R Mandela School of Medicine in Durban.
- Fund TB and HIV research at UKZN for the next 10 years.

The HHMI has committed R219 million towards the construction of the K-RITH building with the balance being made up by the research body, Lifelab, and UKZN. The American institute will provide another R10 million a year to fund ongoing research into TB and HIV at K-RITH.

The Institute, described as the most sophisticated of its kind in the world, will offer state-of-the-art facilities for researchers and students from across Southern Africa.

Although current research will concentrate on TB and HIV, if circumstances and demands change in the future, the facilities can be easily adapted to meet new requirements and challenges.

Research is being led by the Director of K-RITH, Professor William R Bishai, in co-operation with local and United States researchers.

Pollution Research Group (PRG)

The **Pollution Research Group (PRG)**, led by Professor Chris Buckley, was established in 1973 as a self-funded contract research group within the Department of Chemical Engineering at the then University of Natal to investigate problems around industrial water management in South Africa. The Group has expanded its activities into municipal water and wastewater management as a result of a Memorandum of Agreement between the eThekweni Municipality's Water and Sanitation Department and UKZN. An agreement has been signed whereby the Municipality provides financial support – R1 million a year for five years – for providing scientific support to the Water and Sanitation Department.

These activities form the focus of attention of a multi-disciplinary team of engineers, biologists, political scientists and community medical professionals and have included participation in two European Union research projects related to membrane bioreactors and in identifying and disseminating best practice of water and sanitation supply to unserved communities. Sanitation projects are being undertaken on pit latrines and urine diversion toilets. Collaborative research on the anaerobic baffled reactor process includes internationally recognised projects being undertaken by the NGO BORDA in South-East Asia and Africa (BORDA has been announced as the International Water Association's 2011 research award winner).

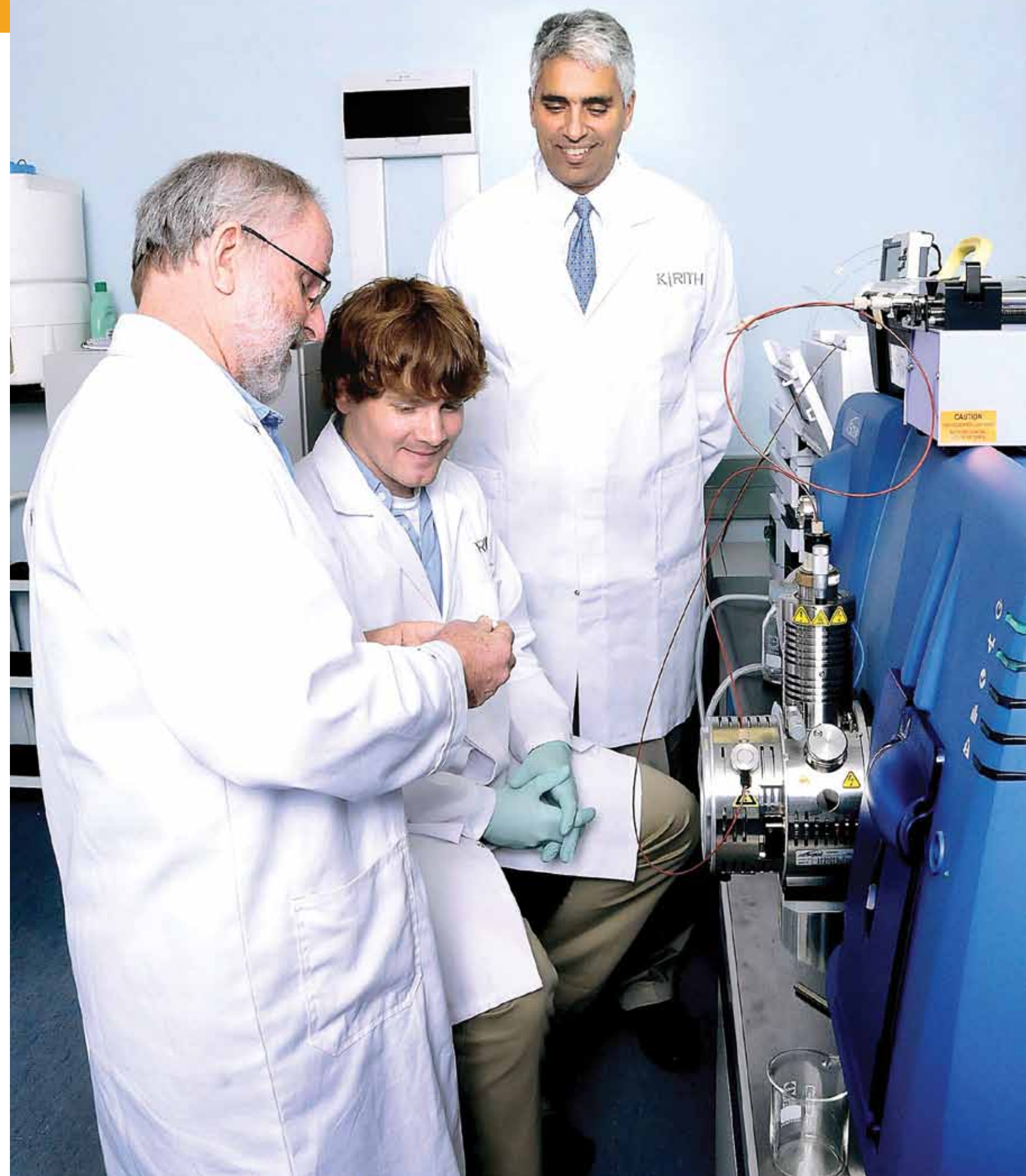
In 2008/9 a United Nations Environment Programme (UNEP)-

United Nations Industrial Development Organization (UNIDO) project on the water efficiency in African breweries was successfully completed. A new project to provide background information for the permitting of industrial wastewaters flowing into domestic sewage works was initiated. Research for the Water Research Commission and Sasol is continuing.

The PRG recently received a R2.8 million grant from the Bill and Melinda Gates Foundation to fund its toilet technology and sanitation research, the aim of which is to design a toilet system that will lead to the safe disposal of waste water in poor communities. UKZN was one of eight institutions – and the only one in Africa – chosen out of 22 to take part in the Reinvent the Toilet Challenge. The team includes 10 academics in the School of Chemical Engineering each contributing their specialised skills. The PRG will work closely with the eThekweni Municipality, local companies, as well as the Water Research Commission of South Africa, Hering South Africa, Partners in Development, EnviroSan and Energy Engineering International.

The grant will allow the Group to move sanitation and toilet technology to higher levels. The urine-diversion toilets will be changed and developed to include three streams of water – urine, faeces and wash water. Forward osmosis will be used to concentrate the liquid streams while the solids will be dried and incinerated.

From left: Dr John Adamson, Analytical Chemist; Peter McCaffrey, Medical Student; and Professor William R Bishai, Director, K-RITH assessing sample quality before loading a patient's blood specimen into a mass spectrometer. This device will help researchers measure the levels of tuberculosis and HIV medication in the bloodstream as they try to design better treatment protocols.





SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE (SARCHI)

SOUTH AFRICAN RESEARCH CHAIRS INITIATIVE (SARCHI)



Applied Poverty Reduction Impact Assessment

Professor Julian D May
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Professor Julian May is the NRF-funded South African Research Chair in Applied Poverty Reduction Assessment to which he was appointed in 2009.

The aims of the Chair are in three interrelated areas of applied poverty reduction assessment: the on-going improvement of the indicators that are used to reflect change; the analysis of the impact of poverty reducing interventions; and investigating wider dynamics that offset or contribute towards desired policy goals.

Professor May is the first person in a developing country to be appointed to the Technical Advisory Group of the International Comparisons Project (ICP) based in Washington DC, USA, which guides the collection of data for the calculation of Purchasing Power Parity (PPP) used to standardise the measurement of Gross Domestic Product and poverty indicators.

Working with four telecentres in poor communities in KwaZulu-Natal, Community-based Learning, ICT and Quality-of-life (CLIQ) trained 100 participants in the use of computers and the internet. The impact of this training and their use of ICT have been monitored using participatory research methods.

In Uganda, Tanzania, Rwanda and Kenya a project using panel data from 1 600 households interviewed in 2008 and again in 2010 has developed new methods of depicting multi-dimensional poverty and has estimated the causal association between ICT access and poverty reduction. This was presented to the international ICT4D2010 conference held in London in 2010.

The third assessment is an impact assessment of the KwaZulu-Natal Gijima programme for Local Economic Development (LED) which involves targeted grants to promote poverty reduction through enterprise. A multi-disciplinary team of economists, planners and impact specialists is working on this project.

Finally using a competitive grant awarded by the European Union (EU) via the Programme to Support Pro-Poor Policy Development (PSPPD), a collaborative project with the London School of Hygiene and Tropical Medicine and the University of Cape Town is examining factors influencing inequities in child outcomes.



Economic Development

Professor Dori Posel
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Professor Posel obtained her PhD in Economics from the University of Massachusetts in the United States in 1999. She has been the recipient of numerous awards for her research and has published widely on questions of migration, marriage and labour markets. Her recent published research investigates specific characteristics of the post-apartheid period in South Africa, including: the temporary nature of labour migration; the returns to English language proficiency in the South African labour market; marriage in the context of bridewealth payments; and the determinants of subjective well-being or happiness.

The overall research objective of the Research Chair in Economic Development is to explore the interface between households and labour markets in South Africa, advancing knowledge across a range of socio-economic areas, including those relating to marriage, migration, child care, household survival strategies and resource sharing, labour force participation and employment.

The research is integral to evaluating the experiences of economic development among individual South Africans and to assessing economic and social policy that seeks to reduce poverty and increase well-being.

Professor Posel is also using the opportunities afforded by the Research Chair to foster and strengthen quantitative research skills in the analysis of South African micro datasets.

Professor Dori Posel is an economist who specialises in the micro-econometric analysis of household survey data. Her Research Chair in Economic Development is located in the School of Development Studies.



Fluorine Process Engineering and Separation Technology

Professor Deresh Ramjugernath
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Professor Deresh Ramjugernath is the South African Research Chair in Fluorine Process Engineering and Separation Technology and Director of the Thermodynamics Research Unit.

Professor Ramjugernath and his team of co-workers are contributing to the South African Government's Fluorochemical Expansion Initiative (FEI) by researching and developing fluorinated products, including pharmaceuticals and agro-chemicals.

Although South Africa possesses the second largest reserves of fluorspar (the starting material for all fluorochemicals), it currently imports almost all of its fluorinated products. There is very little beneficiation of the fluorspar reserves in the country and the activities under the Chair would assist in addressing this problem by developing technology and human capacity to drive the development and expansion of a fluorochemical cluster.

The research activities under the Chair are not limited to fluorochemicals but also cover the areas of chemical thermodynamics and separation technology. In this regard the Research Unit has one of the best equipped laboratories in the Southern Hemisphere and is one of the largest groups working in this field.

The activities under the Chair are very strongly linked to industry with collaboration in the application of research and development with two major South African companies - the South African Nuclear Energy Corporation (NECSA) and SASOL.



Evolutionary Biology

Professor Steve Johnson
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Prominent academic and researcher Professor Steve Johnson of the School of Biological and Conservation Sciences was awarded the Research Chair in Evolutionary Biology – valued at R7,5 million – for a five-year period.

His research in the field of evolutionary biology focuses on plant pollinator interactions. The interactions between flowers and their pollinators are not only important for seed production of wild plants and crops but have also been instrumental in the evolution of the spectacular diversity of the world's flowering plants.

Professor Johnson has contributed significantly to the understanding of the evolutionary diversification of plants in southern Africa and also the ecological requirements that plants have for their reproduction.



Quantum Information Processing and Communication

Professor Francesco Petruccione
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Francesco Petruccione, Professor of Theoretical Physics, was awarded an Innovation Fund grant in 2005 to set up a Centre for Quantum Technology and in 2007 was granted the South African Research Chair for Quantum Information Processing and Communication.

Professor Petruccione has been working on the theory of open quantum systems, which is at the basis of many recent quantum technological applications. The miniaturization of technological devices necessitates manipulation of objects at the nanoscale level at which coherent quantum mechanical processes start to dominate the physical properties.

The unavoidable interaction of these systems with their environment gives rise to dissipative mechanisms and a strong loss of quantum coherence, i.e. decoherence. Since perfect isolation of quantum systems is not possible, it is of central importance to incorporate the methods and tools of the theory of quantum systems in the exploration of quantum technologies. Among the basic tools of the new quantum technologies are quantum metrology, quantum control, quantum, communication and quantum computation.



Indigenous Health Care Systems

Professor Nceba Gqaleni
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scientifically proven African traditional medicines and also to the institutionalisation of the African traditional health care system. Various projects currently exist and include the United States government-funded Biomedical and Traditional Healing Collaboration on HIV/AIDS; the NIH/NCCAM-funded traditional medicine clinical trial at Edendale Hospital in Pietermaritzburg, and the Department of Science and Technology IKS Bioprospecting Programme.

This platform promotes bidirectional referrals between traditional healthcare practitioners (THPs) and public health centres, and documents ethnomedical evidence, bioprospecting and other mechanisms to evaluate plant-based and herbal mixtures for biological activity with therapeutic efficacy in the areas of cancer, TB, and HIV/AIDS. It also conducts clinical trials and equips THPs to conduct their own clinical research on traditional medicine. Above all, the indigenous health care systems research enhances scientific knowledge on traditional medicine and attracts young scientists to this field.

Professor Gqaleni obtained his PhD in Bioscience and Biotechnology from the University of Strathclyde in Scotland. He is a former Deputy Dean at the Nelson R Mandela School of Medicine and was also Operations Director at the Doris Duke Medical Research Institute at the University.

Professor Gqaleni is a member of the International Association of Physicians in AIDS Care; Chair of the IKS Bioprospecting and Product Development Platform of the Department of Science and Technology and has served on the Presidential Task Team on Traditional Medicines and the World Health Organisation (African region) Expert Committee on Traditional Medicines.

The prime focus of Professor Nceba Gqaleni, Research Chair in Indigenous Health Care Systems Research, is to provide a platform for research and development in the field of traditional medicine providing an essential academic link between national policy and implementation.

The Chair will – through research – contribute to developing



Systems Biology of HIV and AIDS

Professor Thumbi Ndung'u
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HIV-1 infected people are able to achieve relative control of HIV-1 replication. The knowledge gained from studies of people able to resist or control HIV-1 may eventually be used to develop novel vaccines or therapies against HIV and AIDS.

A graduate of the University of Nairobi and Harvard University, Professor Ndung'u is a molecular virologist by training based at the Doris Duke Medical Research Institute at UKZN's Nelson R Mandela School of Medicine. In 2007 he was awarded the prestigious Vice-Chancellor's award for exceptional research and research-related scholarly activities. He was previously awarded the Edgar Haber Award at Harvard University for outstanding doctoral thesis research.

Professor Ndung'u's previous significant accomplishments include the development of the first full-length infectious clone of HIV-1C from Africa, an important reagent for detailed genetic studies of this strain. This genetic tool allows for various studies on drug sensitivity and vaccine design to be conducted. He is also credited with the generation of the subtype C simian human immunodeficiency virus (SHIV), a genetic chimera between HIV and SIV vaccine tests. Recently, his group has contributed to the understanding of adaptive and innate immune mechanisms against HIV-1 in patients and viral adaptation to these responses.

Professor Ndung'u's main research interests are in the host-virus interactions underlying HIV and AIDS pathogenesis and antiviral immune responses. He is also interested in the development of biomedical interventions that can be used in resource-limited settings to stop the spread of HIV and AIDS. He has a special interest in the training and development of young scientists.

He was until October 2010 Co-Chair of the Young and Early Career Investigators Committee (YECIC) of the Global HIV Vaccine Enterprise and played a key role in the development of the Enterprise's 2010 Scientific Strategic Plan.

Professor Thumbi Ndung'u holds the position of associate professor in HIV/AIDS Research at UKZN and is Director of the HIV Pathogenesis Programme (HPP), a collaborative initiative between the University, Harvard Medical School and the University of Oxford. The HPP is dedicated to understanding host-pathogens interactions in HIV and tuberculosis infections, particularly immune responses and to the training of globally competitive African scientists.

Professor Ndung'u, his team and their collaborators are currently studying how certain individuals are able to resist HIV-1 infection despite evidence of persistent exposure and how certain



Gravitating Systems

Professor Sunil Maharaj
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Professor Sunil Maharaj is the holder of the prestigious South African Research Chair in Gravitating Systems. He was made a Fellow of UKZN in 2009 for his research contributions.

Professor Maharaj, who is the Director of the Astrophysics and Cosmology Research Unit in the School of Mathematical Sciences, focuses his primary research on the modelling of astrophysical processes in relativistic stars and the mathematics of large scale dynamics in cosmology.

His contribution, in collaboration with many MSc and PhD students, to science and technology is manifested in his work on gravitational forces within the context provided by Einstein's theory of general relativity. These works include: exact solutions of the Einstein Field equations, the structure of ultra compact stars and the thermodynamics of radiating matter.



NRF A-RATED RESEARCHERS

National Research Foundation (NRF) A-Rated Researchers are defined as “researchers who are unequivocally recognised by their peers as leading international scholars in their field for the high quality and impact of their recent research outputs”.



Professor Patricia Berjak
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Since 1978 Professor Berjak has supervised to graduation 410 MSc students and 176 PhD students, many of whom have gone on to establish successful scientific careers of their own, both in South Africa and abroad.

Professor Berjak teaches seed biology at the senior undergraduate level, and is a leader of two Honours modules, focusing on desiccation sensitivity and desiccation tolerance, and cryobiology. She also consistently inducts interns at senior undergraduate level into research.

Professor Berjak, who holds the positions of Emeritus Professorship and Senior Research Associate, has established a worldclass research group in the School of Biological and Conservation Sciences. The activities of her group include fundamental and applied recalcitrant seed research, cryostorage and the provision of postgraduate level training in cryobiology. The high esteem in which international colleagues hold Professor Berjak is attested by her invitations to work in laboratories abroad and to attend numerous international conferences as a keynote speaker.

She has published 17 367 peer reviewed papers in international literature and 60 book chapters and full length peer reviewed conference proceedings. In 2005, the Darwin Initiative of the United Kingdom Government, awarded her a major competitive grant in collaboration with the Millennium Seed Bank, Royal Botanic Gardens, Kew, in England.

She is the recipient of a number of prestigious awards, some of which include the Gold Medal of the South African Association of Botanists in 2006, the National Order of Mapungubwe from the State President of South Africa (also 2006), the National Research Foundation's Lifetime Achiever Award in 2008, and the eThekweni Living Legend Award in 2010.

Professor Patricia Berjak, an 'A' rated scientist, is recognised internationally for her pioneering fundamental studies on seed recalcitrance. Her early achievements are exemplified in the publication in the international literature of five papers from her doctoral thesis, the findings of which contributed a major chapter, demonstrating the importance of membrane deterioration in viability loss, in the definitive book *Seed Viability* by EH Roberts.

Professor Berjak rapidly attained a position of international eminence for her fundamental studies on recalcitrant seeds and their conservation. She has also demonstrated the importance of seedborne fungi in the loss of storage viability.

NRF-RATED RESEARCHERS

NRF A-RATED RESEARCHERS



Professor Michael Chapman
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Professor Michael Chapman, Emeritus Professor and Fellow at UKZN and Fellow at the Stellenbosch Institute for Advanced Study, is recognised by his peers as a world leader in the field of southern African and post colonial literature.

Professor Chapman has produced major works on, among others, the poets Roy Campbell and Douglas Livingstone, the new black poets of the 1970s, and the *Drum* short-story writers of the 1950s. His study, *South African English Poetry: A Modern Perspective* (1984) won the Sanlam Award for literary criticism.

His literary history, *Southern African Literatures* (1996; 2003) received both the University of Natal Book Prize and the prestigious Bill Venter Prize for academic writing. His collection of essays, *Art Talk, Politics Talk* (2006), was the winner of the 2006/2007 University of KwaZulu-Natal Book Prize.

Professor Chapman edited the collection of essays, *Postcolonialism: South African Perspectives* (2008) and, together with colleague Emeritus Professor Margaret Lenta, compiled a major collection of essays by 15 leading academics, entitled *SA Lit: Beyond 2000* (2011). He is the Editor-in-Chief of the accredited journal, *Current Writing*, and was recently awarded an NRF "blue skies" grant to research the uses of literature in contemporary South African society.

A member of the advisory board of the Ferguson Centre for African and Asian Studies (Open University, United Kingdom), and the intercultural committee of the International Comparative Literature Association, Professor Chapman was awarded the Gold Medal of the English Association of Southern Africa in recognition of his services to English education.



Professor Rob Gous
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Professor Rob Gous of the School of Agricultural Sciences and Agribusiness continues to contribute to knowledge in the field of poultry science at UKZN.

His research over the past 20 years has involved the development of simulation models that predict food intake and growth of broilers and pigs, and reproductive activity in broiler breeders and laying

hens. These simulation models initially provided answers to 'what-if' scenarios, but he and his team have moved on from there and they now optimise the way in which broilers and pigs should be fed to maximise any one of a number of objective functions, such as margin over feed cost or feed conversion efficiency. He has been given many opportunities to travel to distant places to present these models to poultry scientists and producers who use these models around the world.

Together with Dr Peter Lewis, a researcher from the United Kingdom, Professor Gous has published extensively on the research they have conducted over the past ten years on the lighting of broiler breeders. The lighting management of these birds was previously based on what is done to commercial laying pullets, and their research has shown that such practices are inappropriate for broiler breeders. This has resulted in a paradigm shift in the way that these birds are managed throughout the world.

As part of his engagement with community, Professor Gous is a founder member of the KwaZulu-Natal Poultry Institute, whose purpose is to train prospective poultry managers by providing them with the skills needed to manage people, finances, poultry operations and even themselves. The Institute has impressive training facilities, including accommodation, lecture rooms, computers and a wide range of on-going poultry operations, and these are housed on the University's research and training farm, Ukulinga. This Institute has been, and continues to be, highly successful in training students and preparing them for life.

NRF A-RATED RESEARCHERS



Professor Steve Johnson
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Professor Steve Johnson holds the South African Research Chair in Evolutionary Biology and is a Professor in the School of Biological and Conservation Sciences on UKZN's Pietermaritzburg campus.

His PhD on the pollination of plants in the Cape flora was obtained from the University of Cape Town in 1994 and he has since become a leading specialist in the field of plant pollination biology.

Professor Johnson's research is aimed at understanding the evolutionary diversification of plants, particularly in southern Africa, the conservation of plant-pollinator mutualisms, and the reproductive biology of invasive species. He has recently developed a strong interest in the role of floral volatiles in mediating specialised plant-pollinator interactions, and has established a state-of-the-art laboratory for the study of chemical cues used by plants to attract insect pollinators.

Professor Johnson has published more than 190 peer-reviewed scientific papers, co-authored a book on the *Natural History of Table Mountain* and has also written many popular science articles. He is currently on the editorial boards of two international journals, *Oecologia* and *Arthropod-Plant Interactions*. He received the NRF President's Award in 1999 and currently holds an A2-rating from the NRF.



Other NRF-Rated Researchers - 2010

OTHER NRF-RATED RESEARCHERS



COLLEGE OF LAW AND MANAGEMENT STUDIES		
FACULTY OF LAW		
NAME	TITLE	SCHOOL
Kidd M	Professor	Law
McQuoid-Mason DJ	Professor	Law
Mubangizi JC	Professor	Law
FACULTY OF MANAGEMENT STUDIES		
Harris GT	Professor	Economics and Finance
Reddy PS	Professor	Public Administration and Development Management
Stainbank LJ	Professor	Management Studies
Harris G	Professor	Management Studies

COLLEGE OF HUMANITIES		
FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES		
NAME	TITLE	SCHOOL
Armstrong JY	Professor	Literary Studies, Media and Creative Arts
Ayee J	Professor	DVC Humanities
Ballantine CJ	Professor	Literary Studies, Media and Creative Arts
Ballard RJ	Dr	Development Studies
Bland RM	Dr	Africa Centre
Bond P	Professor	Centre for Civil Society
Calder IMS	Professor	Centre for Visual Arts
Collier JD	Professor	Philosophy and Ethics
Collings SJ	Professor	Psychology and Centre for Social Work
Coullie JE	Professor	Literary Studies, Media and Creative Arts
De Meyer BAMS	Professor	Literary Studies, Media and Creative Arts
Denis PMBR	Professor	Theology and Religion
Dimitriu I	Professor	Literary Studies, Media and Creative Arts
Draper JA	Professor	Theology and Religion
Durrheim K	Professor	Psychology
Ebrahim AFM	Professor	Theology and Religion
Green JM	Professor	Africa Centre for Food Security
Green MM	Professor	Literary Studies, Media and Creative Arts
Henzi SP	Professor	Psychology
Hilton JL	Professor	Classics
Koopman A	Professor	Language, Literacies and Media Education
Kumar P	Dr	Religion and Theology

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES		
NAME	TITLE	SCHOOL
Leeb-Du Toit JC	Professor	Literary Studies, Media and Creative Arts
Lenta P	Professor	Philosophy and Ethics
Maharaj P	Dr	Development Studies
Mare PG	Professor	Centre for Critical Research on Race
Marks M	Professor	Sociology and Social Studies
Marschall S	Professor	Cultural and Heritage Tourism
May JD	Professor	Development Studies
McCracken D	Professor	Anthropology, Gender and Historical Studies
Murove M	Dr	Philosophy and Ethics
Nadar S	Dr	Religion and Theology
Pattman R W	Professor	Sociology and Social Studies
Peters WH	Professor	Architecture, Planning and Housing
Phiri IA	Professor	Religion and Theology
Potgieter CA	Professor	Psychology
Ruggunan S	Dr	Industrial, Organisational and Labour Studies
Sooryamoorthy R	Professor	Sociology and Social Studies
Spurrett DJ	Professor	Philosophy and Ethics
Stiebel EA	Professor	Language, Literacies and Media Education
Stilwell C	Professor	Sociology and Social Studies
Stobie C	Professor	Language, Literacies and Media Education
Teer-Tomaselli RE	Professor	Language, Literacies and Media Education
Tomaselli KG	Professor	Literary Studies, Media and Creative Arts
Turner N	Professor	isiZulu
Vahed G	Professor	Anthropology, Gender and Historical Studies
Wessels MA	Dr	Literary Studies, Media and Creative Arts
West GO	Professor	Religion and Theology
Whiteside AW	Professor	HEARD
FACULTY OF EDUCATION		
Bhana D	Professor	Education
Buthelezi MT	Professor	Education
de Villiers M	Dr	Education
Deacon RA	Dr	Education
Francis DA	Professor	Education
Mncube VS	Dr	Education
Morrell RG	Professor	Education
Muthukrishna A	Professor	Education
Ramrathan P	Professor	Education

OTHER NRF-RATED RESEARCHERS - 2010

COLLEGE OF HEALTH SCIENCES		
FACULTY OF HEALTH SCIENCES		
NAME	TITLE	SCHOOL
Brysiewicz P	Dr	Nursing
Daniels WMU	Professor	Human Physiology
Essack SY	Professor	Pharmacy and Pharmacology
Govender T	Dr	Pharmacy and Pharmacology
Govender T	Professor	Pharmacy and Pharmacology
McKune AJ	Professor	Sports Science
Musabayane CT	Professor	Human Physiology
Ncama BP	Dr	Nursing
Newell ML	Professor	College of Health Sciences
Oduntan OA	Professor	Optometry
Peters-Futre EM	Professor	Human Physiology
Puckree T	Honorary Professor	Physiotherapy
Satyapal KS	Professor	Clinical Anatomy
Suleman F	Dr	Pharmacy and Pharmacology
Uys LR	Professor	Nursing
NELSON R MANDELA SCHOOL OF MEDICINE		
Bhimma R	Professor	Maternal, Child and Women's Health
Coutsoudis A	Professor	Paediatrics and Child Health
Gqaleni N	Professor	Occupational and Environmental Health
Kvalsvig JD	Dr	Family and Public Health
Moodley J	Professor	Women's Health and HIV Research Unit
Mosam A	Dr	Dermatology
Naicker T	Professor	Optics and Imaging
Naidoo DP	Professor	Cardiology
Naidoo N	Professor	Occupational and Environmental Health
Naidoo R	Professor	Medical Microbiology
Naidoo S	Dr	Family and Public Health
Ndung'u PT	Professor	Molecular Virology
Pillay M	Dr	Pathology and Laboratory Medicine
Singh JA	Dr	CAPRISA
Taylor M	Professor	Community Health

OTHER NRF-RATED RESEARCHERS - 2010

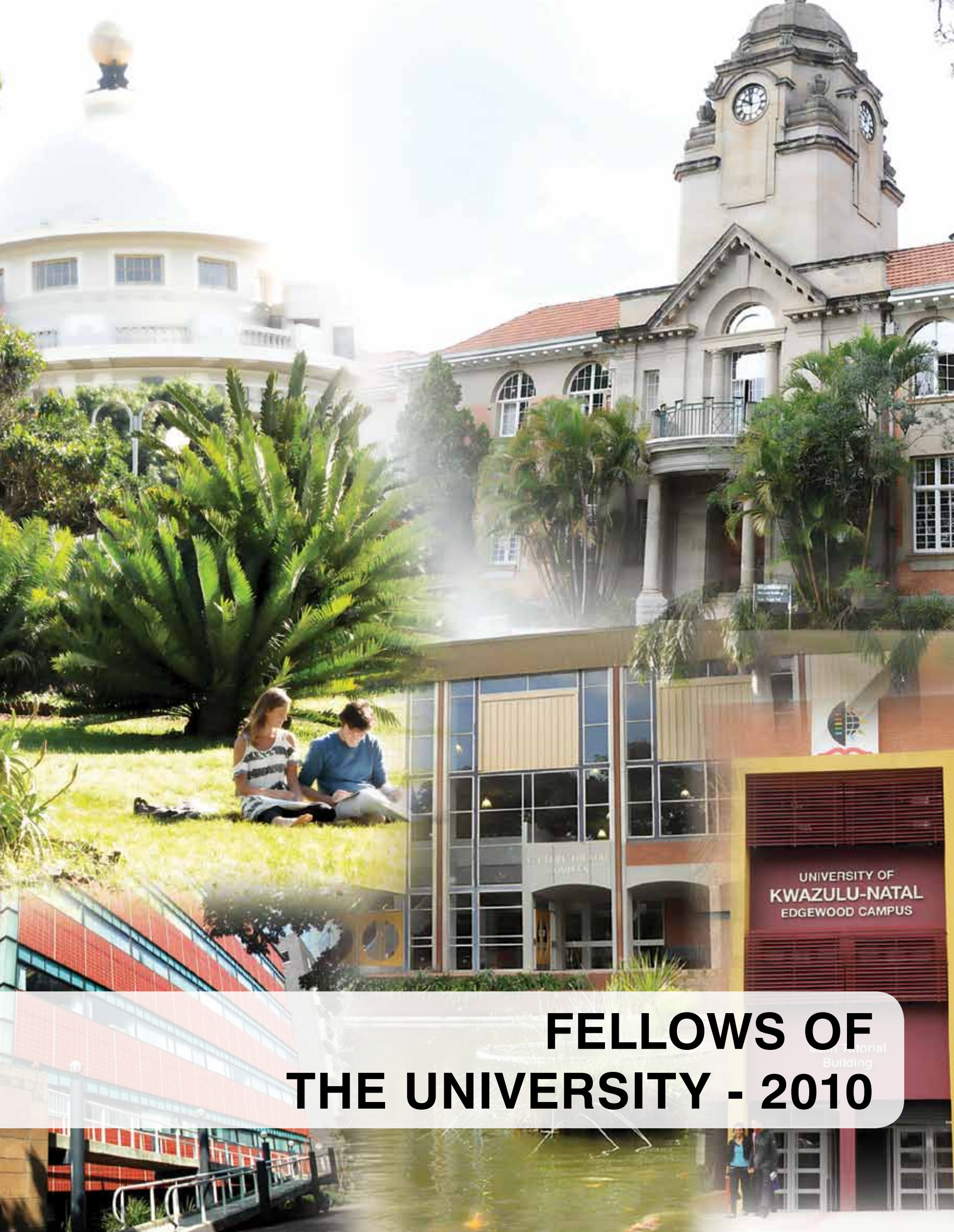
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE		
FACULTY OF SCIENCE AND AGRICULTURE		
NAME	TITLE	SCHOOL
Ariatti M	Professor	Biochemistry, Genetics and Microbiology
Baboolal D	Professor	Mathematics
Bala MD	Dr	Chemistry
Banasiak J	Professor	Mathematics
Beckett RP	Professor	Biological and Conservation Sciences
Bharuth-Ram K	Professor	Physics
Bob U	Professor	Environmental Sciences
Burnett WA	Dr	Biological and Conservation Sciences
Bytebier B	Dr	Biological and Conservation Sciences
Ciacchiariello M	Dr	Agricultural Sciences and Agribusiness
Coombes PH	Dr	Chemistry
Dankelmann PA	Professor	Mathematics
De Lange OL	Professor	Physics
Derera J	Dr	Biochemistry, Genetics and Microbiology
Downs CT	Professor	Biological and Conservation Sciences
Erwin DJ	Dr	Mathematics
Ford TA	Professor	Chemistry
Friedrich HB	Professor	Chemistry
Ghosh PP	Dr	Mathematics
Glassom D	Dr	Biological and Conservation Sciences
Goldring JPD	Professor	Biochemistry, Genetics and Microbiology
Govinder KS	Professor	Mathematics
Gutev VG	Professor	Mathematics
Hart RC	Professor	Biological and Conservation Sciences
Hellberg MA	Professor	Physics
Hendriks SL	Professor	Agricultural Sciences and Agribusiness
Hey JD	Professor	Physics
Hofmann A	Professor	Geological Sciences
Hughes ARW	Professor	Physics
Hughes JC	Professor	Environmental Sciences
Islam MS	Dr	Biochemistry, Genetics and Microbiology
Jaganyi D	Professor	Chemistry
Jonnalagadda SB	Professor	Chemistry
Juergens A	Dr	Biological and Conservation Sciences
Konrad T	Professor	Physics
Kruger HG	Professor	Chemistry
Leach PGL	Professor	Mathematics

OTHER NRF-RATED RESEARCHERS - 2010

FACULTY OF SCIENCE AND AGRICULTURE		
NAME	TITLE	SCHOOL
Light ME	Dr	Biological and Conservation Sciences
Lin J	Professor	Biochemistry, Genetics and Microbiology
Lovegrove BG	Professor	Biological and Conservation Sciences
Mace RL	Professor	Physics
Maharaj B	Professor	Environmental Sciences
Maharaj SD	Professor	Mathematics
Martincigh BS	Professor	Chemistry
McCourt S	Professor	Geological Sciences
McKenzie JF	Professor	Physics
Modi AT	Professor	Agricultural Sciences and Agribusiness
Moodley K	Professor	Mathematics
Moodley M	Dr	Physics
Moori J	Professor	Mathematics
Moyo T	Dr	Physics
Mukaratirwa S	Professor	Biological and Conservation Sciences
Mukwembi S	Dr	Mathematics
Munro OQ	Professor	Chemistry
Mutanga O	Professor	Environmental Sciences
Mwithiga G	Dr	Bioresources Engineering
Naidoo G	Professor	Biological and Conservation Sciences
Ngila JC	Dr	Chemistry
Niesler C	Dr	Biological and Conservation Sciences
Nsahlai IV	Professor	Agricultural Sciences and Agribusiness
Nyamori VO	Dr	Chemistry
O'Hara JG	Professor	Statistics and Actuarial Sciences
Olaniran AO	Dr	Biochemistry, Genetics and Microbiology
Ovechkina MN	Dr	Geological Sciences
Pammenter NW	Professor	Biological and Conservation Sciences
Perissinotto R	Professor	Biological and Conservation Sciences
Perrin MR	Professor	Biological and Conservation Sciences
Petrucione F	Professor	Physics
Pillay B	Professor	Biological and Conservation Sciences
Proches SM	Professor	Environmental Sciences
Raftery JG	Professor	Mathematics
Ray S	Professor	Mathematics
Robinson RS	Professor	Chemistry
Rodrigues BG	Professor	Mathematics

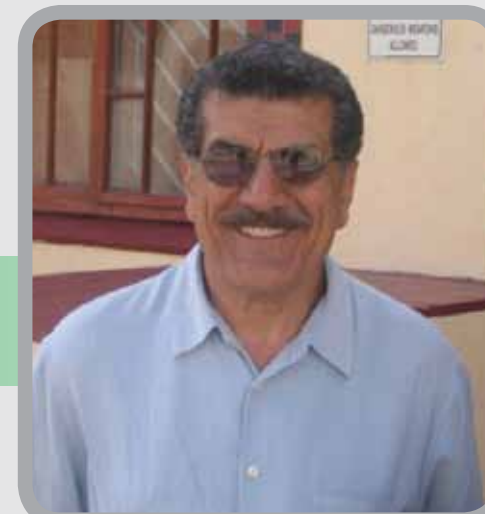
OTHER NRF-RATED RESEARCHERS - 2010

FACULTY OF SCIENCE AND AGRICULTURE		
NAME	TITLE	SCHOOL
Savage M	Professor	Environmental Sciences
Scharler UM	Dr	Biological and Conservation Sciences
Schmidt S	Professor	Biochemistry, Genetics and Microbiology
Scott DM	Professor	Environmental Sciences
Sergi A	Dr	Physics
Shindin SK	Dr	Mathematics
Shrader AM	Dr	Biological and Conservation Sciences
Sibanda P	Professor	Mathematics
Slotow RH	Professor	Biological and Conservation Sciences
Smit AJ	Dr	Biological and Conservation Sciences
Thandar AS	Professor	Biological and Conservation Sciences
Uken R	Dr	Geological Sciences
Van den Berg JE	Professor	Mathematics
Van Heerden FR	Professor	Chemistry
Van Staden J	Professor	Biological and Conservation Sciences
Walker ADM	Professor	Physics
Ward DM	Professor	Biological and Conservation Sciences
Watt MP	Professor	Biological and Conservation Sciences
Xu H	Professor	Mathematics
FACULTY OF ENGINEERING		
Bezuidenhout CN	Professor	Bioresources Engineering and Environmental Hydrology
Boje ES	Professor	Electrical Engineering
Bright G	Professor	Mechanical Engineering
Carsky M	Professor	Chemical Engineering
Jewitt GPW	Professor	Bioresources Engineering and Environmental Hydrology
Meikap B	Dr	Chemical Engineering
Ortmann GF	Professor	Bioresources Engineering and Environmental Hydrology
Pegram GGS	Professor	Civil Engineering
Ramjugernath D	Professor	Chemical Engineering
Smithers JC	Professor	Bioresources Engineering and Environmental Hydrology
Adali S	Professor	Mechanical Engineering



FELLOWS OF THE UNIVERSITY - 2010

FELLOWS OF THE UNIVERSITY



Professor Jamshid Moori
moori@ukzn.ac.za

Emeritus Professor Jamshid Moori, acknowledged as a UKZN Fellow for his contribution as an outstanding scholar of Mathematics, has served the University with distinction for more than 20 years.

Professor Moori, who retired from UKZN at the end of last year, is now a senior research professor in Mathematics at the North-West University (NWU) and also holds an honorary senior research fellowship at the School of Mathematics at the University of Birmingham in England.

He joined UKZN as a full professor in July 1989 and was promoted to Senior Professor (Level 7) of Mathematics in 1997.

Professor Moori – B-rated by the NRF – does research in the areas of Finite Simple Groups, Computational Group Theory, Representation Theory of Finite Groups and Applications of Finite Groups to Combinatorial Designs and Geometries. He has produced more than 110 original papers over the past 35 years and during this period has supervised various Honours projects and produced 11 post-graduate students.

Most of his refereed papers are published in prestigious international journals such as the *Journal of the London Mathematical Society*, *Journal of Algebra*, *Communications in Algebra*, *Journal of Group Theory*, *Representation Theory*, *Discrete Mathematics*, and the *European Journal of Combinatorics*.

Professor Moori's research projects at UKZN and the NWU, which have been recognised and supported by the NRF, have attracted national and international students, and several visiting mathematicians. His collaborative research has been very productive in recent years – currently 20 papers are in the pipeline. His recent work on the interplay between finite groups and combinatorial structures has attracted the attention of international researchers and led to him being invited to address a variety of international conferences and workshops.



Professor Ruth Elizabeth Teer-Tomaselli
teertoma@ukzn.ac.za

A dedicated scholar of international standing, Professor Ruth Teer-Tomaselli was honoured as a Fellow of UKZN in 2010.

Professor Teer-Tomaselli is an NRF B-rated research scholar and has held the UNESCO Chair in Communications for Southern Africa from 2002 to the present.

She is Vice-President of the International Association for Media and Communication Research (IAMCR), the foremost international association for media scholars, and is heading the Local Organising Committee hosting the association's 2012 annual conference in Durban – the first time the IAMCR's congress has been held in Africa with the exception of Egypt in 2005. About 1 000 delegates are expected from all over the world.

Professor Teer-Tomaselli obtained a doctorate from the former University of Natal for her thesis exploring the South African Broadcasting Corporation's (SABC's) television news coverage of the State of Emergency in the second half of the 1980s. Since then she has researched broadcasting across both radio and television, using a predominantly political-economy approach.

Professor Teer-Tomaselli is an editorial member of six international journals, including *Critical Arts*, *Feminist Media Review*, *Global Media Journal*, and the *European Journal of Cultural Studies*. She has been a board member and Chair of the new committee of the SABC as well as serving on the boards of East Coast Radio and the Durban Youth Radio.



Professor David Ward
ward@ukzn.ac.za

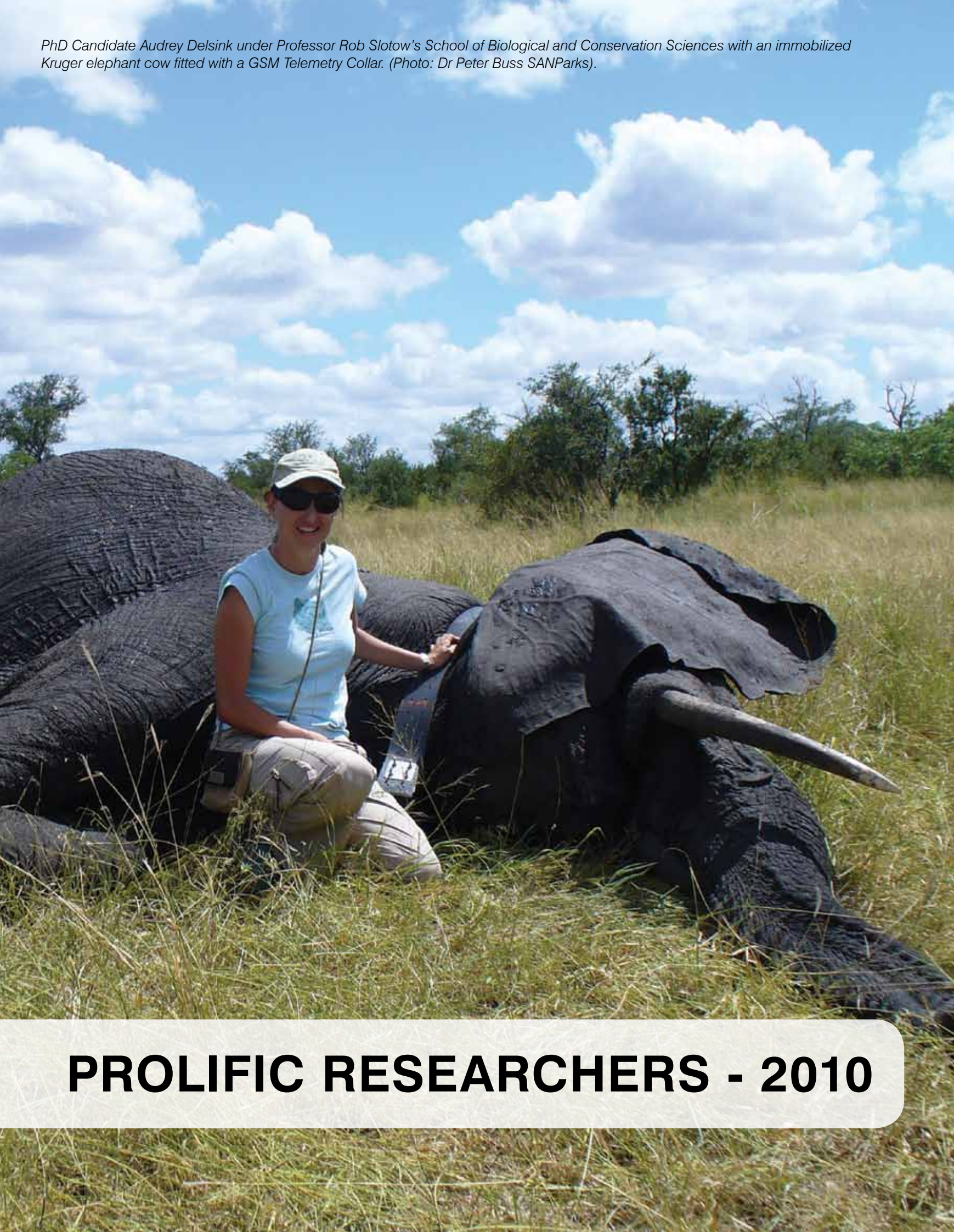
Professor David Ward, Professor of Botany at the School of Biological and Conservation Sciences, was recognised as a Fellow of the University of KwaZulu-Natal in 2010 for being a leader in his field and an internationally known and respected ecologist.

Before his current appointment at UKZN in 2004, Professor Ward was Chair of the Department of Conservation Ecology at the University of Stellenbosch from 2002 to 2004 and previous to that Director of the Ramon Science Centre, Jacob Blaustein Institute for Desert Research at Ben Gurion University in Israel from 1989 to 2000. In Israel he was awarded the Paula and David Ben Gurion prize for outstanding contributions to desert research and combating desertification.

Professor Ward has worked in several fields in ecology and physiology but focuses his research on the ecology of Acacia trees. A major field of his research is on factors causing bush encroachment. He is also interested in the chemical and physical defences of plants.

A prolific researcher, he has published more than 160 peer-reviewed articles and 15 chapters in books. His book entitled *The Biology of Deserts*, was published by Oxford University Press in 2009. The book offers a concise but comprehensive introduction to desert ecology and adopts a strong evolutionary focus.

Professor Ward obtained his PhD from the former University of Natal in 1987 for his thesis: "The biology and systematic relationships of Crowned, Blackwinged and Lesser Blackwinged Plovers".



PROLIFIC RESEARCHERS - 2010

PROLIFIC RESEARCHERS - 2010



Professor Fathel-Rahman Babike Ahmed

Science & Agriculture



Dr Muhammad Dabai Bala

Science & Agriculture



Professor Christopher John Ballantine

Humanities, Development & Social Sciences



Professor Deevia Bhana

Education



Dr Bruce McClure Biccadd

Nelson R Mandela School of Medicine



Professor Ramlall Biseswar

Science & Agriculture



Professor Urmilla Bob

Science & Agriculture



Professor Patrick Martin Bond

Humanities, Development & Social Sciences



Dr Petra Brysiewicz

Health Sciences



Professor Neil Crouch

Science & Agriculture



Dr Kim de Vasconcellos

Nelson R Mandela School of Medicine



Professor Paul Bernard Decock

Humanities, Development & Social Sciences



Professor Philippe Marie Berth Denis

Humanities, Development & Social Sciences



Professor Colleen Thelma Downs

Science & Agriculture



Mr Maximillian Du Plessis

Law



Professor Thomas Anthony Ford

Science & Agriculture



Professor Robert Mervyn Gous

Science & Agriculture



Dr Thavendran Govender

Health Sciences



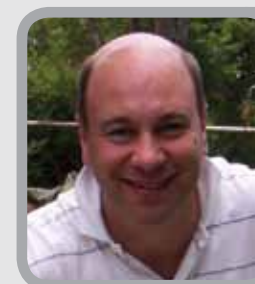
Professor Valentin Goutev Gutev

Science & Agriculture



Dr Kalpana Hiralal

Humanities, Development & Social Sciences



Professor Shannon Vaughn Hctor

Law



Professor Graham Paul Wyndham Jewitt

Engineering



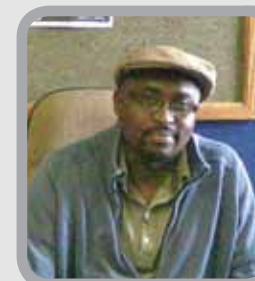
Professor Steven Dene Johnson

Science & Agriculture



Professor Sreekantha Babu Jonnalagadda

Science & Agriculture



Dr Vukile Khumalo

Humanities, Development & Social Sciences



Dr Hendrik Gerhardus Kruger

Science & Agriculture



Professor Mark Delmege Laing

Science & Agriculture



Professor Michael Lawes

Science & Agriculture



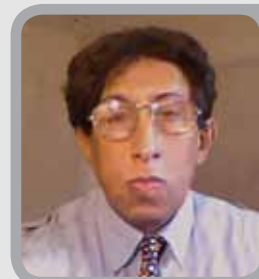
Dr Patrick Joseph Peter Lenta

Humanities, Development & Social Sciences



Professor Peter David Lewis

Science & Agriculture



**Professor Soliar
Lingham-Soliar**

Science & Agriculture



**Ms Liane
Jennifer Loots**

Humanities, Development
& Social Sciences



**Dr Glenn Eamonn
Mitchel Maguire**

Science & Agriculture



**Dr Suriamurthe
Moonsam Maistry**

Education



**Professor Sabine
Marschall**

Humanities, Development
& Social Sciences



Professor Jason Londt

Science & Agriculture



**Professor Thandinkosi
Enos Madiba**

Nelson R Mandela School
of Medicine



**Professor Sunil
Dutt Maharaj**

Science & Agriculture



**Professor Maurice
Mars**

Nelson R Mandela School
of Medicine



**Professor David Jan
Mcquoid-Mason**

Law



**Professor Bhim
Charan Meikap**

Engineering



**Professor Albert
Thembinkosi Modi**

Science & Agriculture



**Professor Samson
Mukaratirwa**

Science & Agriculture



Dr Sarojini Nadar

Humanities, Development
& Social Sciences



**Professor Marie-
Louise Newell**

College of Health
Sciences



**Dr Vusumuzi
Sithembiso Mncube**

Education



**Professor John
Stephen Moolakkattu**

Humanities, Development
& Social Sciences



Dr Onesimo Mutanga

Science & Agriculture



**Ms Uma
Mahesvari Naidu**

Humanities, Development
& Social Sciences



**Professor Klaus
Bilfried Nurnberger**

Humanities, Development
& Social Sciences



**Dr Thokozani
Ian Nzimakwe**

Management Studies



**Professor Michael
Richard Perrin**

Science & Agriculture



**Professor Isabel
Apawo Phiri**

Humanities, Development
& Social Sciences



**Professor Cheryl-Ann
Potgieter**

Humanities, Development
& Social Sciences



**Dr Reitze
Nils Rodseth**

Nelson R Mandela School
of Medicine



**Professor Renzo
Perissinotto**

Science & Agriculture



**Professor Francesco
Petruccione**

Science & Agriculture



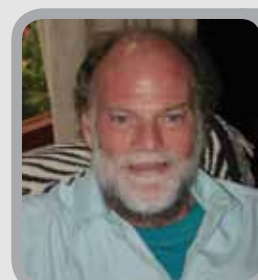
**Professor Anthony
Lingum Pillay**

Nelson R Mandela School
of Medicine



**Professor Deresh
Ramjugernath**

Engineering



**Professor Michael
John Savage**

Science & Agriculture



**Professor Precious
Sibanda**

Science & Agriculture



**Professor Radhamany
Sooryamoorthy**

Humanities, Development
& Social Sciences



**Professor Christine
Stilwell**

Humanities, Development
& Social Sciences



**Professor Keyan
Gray Tomaselli**

Humanities, Development
& Social Sciences



**Professor Johannes
van Staden**

Science & Agriculture



**Professor Robert
Hugh Slotow**

Science & Agriculture



**Professor David
Jon Spurett**

Humanities, Development
& Social Sciences



**Professor Cheryl
Stobie**

Humanities, Development
& Social Sciences



Dr Peter Vadasz

Engineering



**Professor David
Mercer Ward**

Science & Agriculture



**Professor Gerald
Oakley West**

**Humanities, Development
& Social Sciences**



**Professor John
Britten Wright**

**Humanities, Development
& Social Sciences**



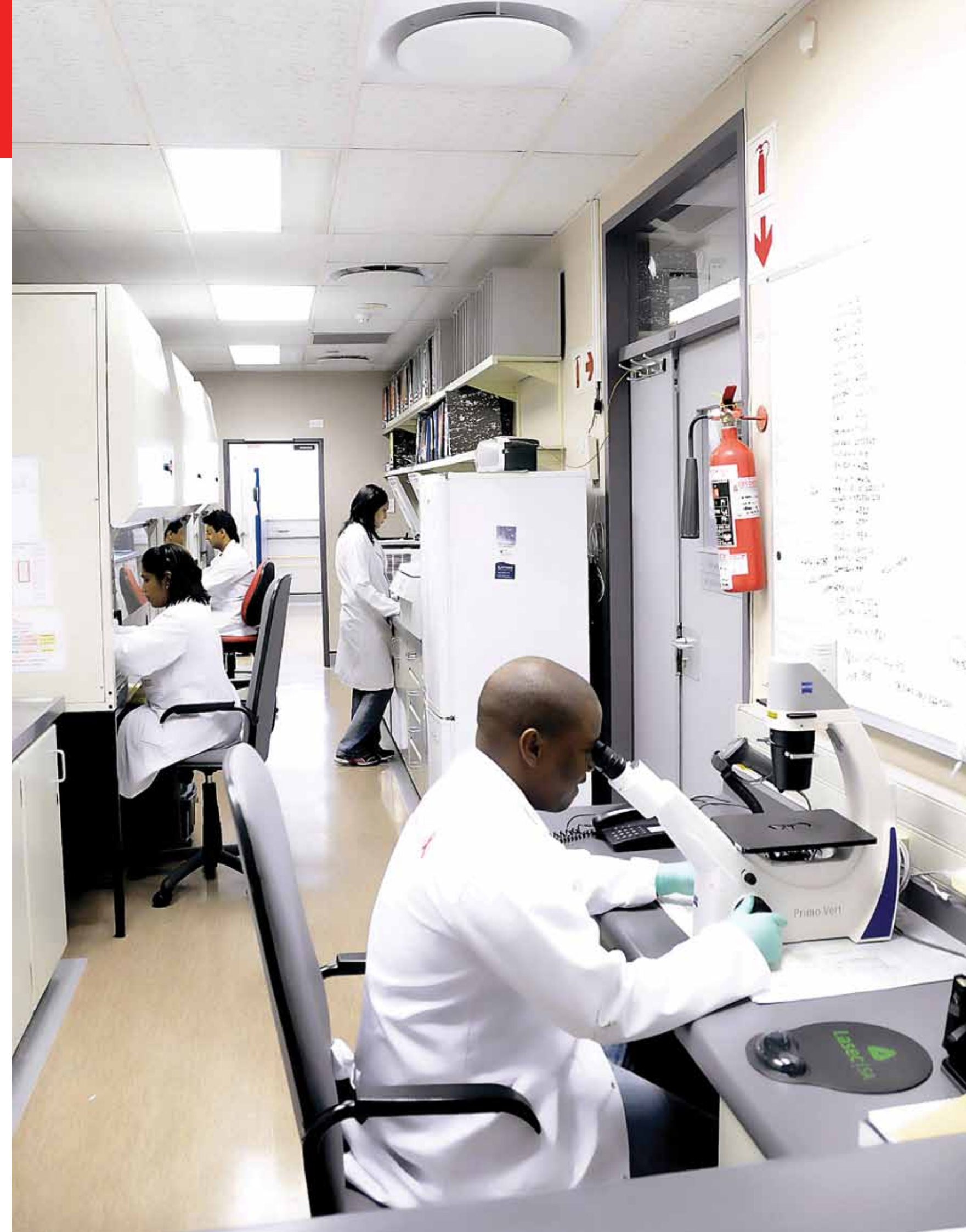
**Mr Michael Cameron
Wood-Bodley**

Law



**Professor Frederick
Noel Zaal**

Law



VICE-CHANCELLOR'S RESEARCH AWARD - 2010

VICE-CHANCELLOR'S RESEARCH AWARD - 2010



Professor Deresh Ramjugernath
Vice-Chancellor's Research Award - 2010

The Vice-Chancellor's Research Award recognises exceptional research and research-related scholarly activities in young staff members and is awarded annually by the University Council on the recommendation of the Fellowships Selection and Awards Committee.

The most recent recipient of the prestigious award, Professor of Chemical Engineering Deresh Ramjugernath, is credited with providing the leadership and support necessary to build a large and effective research team in a short space of time. The team consists of a number of MSc and PhD students, post-doctoral fellows and international collaborators. Approximately 40 post-graduate students have joined the group since 2007 and nearly 20 have graduated.

Through his personal efforts and foresight, Professor Ramjugernath has given expression to the University's commitment to nurture young black scientists: most of the research team students come from previously disadvantaged groups, and the number of female students in the team is also growing.

The group has undertaken fundamental and applied research in chemical thermodynamics, reactor technology and organic synthesis. The results of the research have been published in high impact-factor journals. An impressive total of 37 journal articles have been published in the past four years, with at least 20 additional manuscripts in preparation and under review.

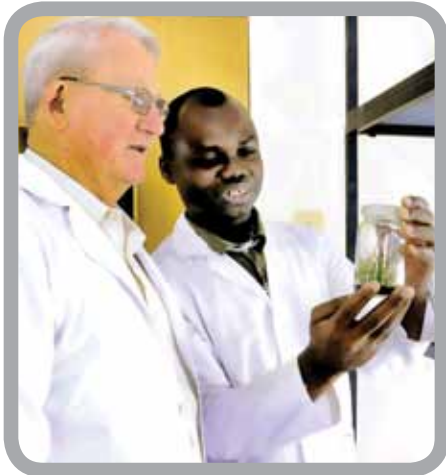
Professor Ramjugernath – who is also the South African Research Chair in Fluorine Process Engineering and Separation Technology and Director of the Thermodynamics Research Unit at UKZN – received a National Science and Technology Forum (NSTF) award for excellence in research capacity development this year.

He has, over the last three years, also served as the Chairman of the Faculty of Engineering Research Committee and has led by example in terms of demonstrating and influencing a culture of research. He has given research advice to a number of junior and senior academics and has successfully mentored at least four members of staff to completion of their doctoral degrees.



TOP PUBLISHED RESEARCHERS

TOP PUBLISHED RESEARCHERS



Top Published Overall 2010

Professor Johannes van Staden

School of Biological and Conservation Sciences

vanstadenj@ukzn.ac.za

Professor Johannes van Staden achieved his BSc and MSc in Botany from the University of Stellenbosch in the Western Cape, where he also lectured.

After joining the former University of Natal, he received a PhD in Botany in 1970. He worked his way up the academic ladder, being promoted to Professor of Botany and appointed Head of Department in 1987. In 1999 he became Director of his own postgraduate research centre – the Research Centre for Plant Growth and Development.

Professor van Staden has been a Research Fellow at the University College of Wales, the University of California, the National Australian University, the Hebrew University of Jerusalem, Broom's Barn Experimental Station in the United Kingdom, and the University of West-Hungary, where he was awarded an Honorary DSc. In his career he has worked in many areas of Plant Sciences/Botany, but specifically in the fields of plant hormones, seed germination, senescence, stress physiology, post-harvest physiology, biotechnology and plant tissue culture, ethnobotany, secondary products and ethnomedicine.

Professor van Staden has supervised 79 MSc students and 90 PhD students many of whom are now working in research laboratories all over the world. He has also supervised 51 Postdoctoral Researchers.

He is the author and co-author of 1 078 papers which have been published in ISI-rated journals and since 2002 he fell within the top 0.5 percent of the internationally most cited authors.

Professor van Staden, who is the recipient of numerous awards and prizes in his field, is the Editor-in-Chief for the *South African Journal of Botany and Plant Growth Regulation* and an Associate Editor of the *Journal of Ethnopharmacology*. He serves on the Editorial Board of six other journals.



Top Woman Published 2010

Professor Colleen T Downs

School of Biological and Conservation Sciences

downs@ukzn.ac.za

Research by Professor Colleen Downs of the School of Biological and Conservation Sciences on the Pietermaritzburg campus has made an important contribution to understanding the relationships between the physiology, behaviour and ecology of southern African terrestrial vertebrates, especially Leopard Tortoises, Nile Crocodiles, various bird species and small mammals. Some of this relates to understanding the evolution of endothermy and also the phenotypic flexibility that the species have in terms of climate change scenarios.

Professor Downs has an interdisciplinary approach to her research and her outputs reflect this. In terms of ecology and conservation, she and her students have made contributions to the understanding of and conservation of several endangered species as well as contributed to the management of several species and of protected areas.

Some of their findings have been novel and include folivory in mousebirds, heterothermy in passerines, no crop in sunbirds, use of airbags in hornbill nestlings and the body temperature of leopard tortoises, tree-rats and Nile Crocodiles. Others were more practical such as pelican, oribi and parrot conservation.

Of her 132 published papers up to 2010, about 27 percent relate to vertebrate dietary aspects including water and energy turnover – especially frugivory and nectarivory; about 26% to aspects of vertebrate thermal biology including those that relate to thermoregulation and behaviour; about 43% to vertebrate conservation and ecology and about 7% to science education.

Another major contribution by Professor Downs has been in the development of research capacity, particularly at both undergraduate and graduate levels. She has supervised more than 60 postgraduate students, reviewed numerous papers for a broad range of international journals and examined theses for both UKZN and other universities. Her fostering of human capacity development continues with her sourcing monies for undergraduate vacation apprenticeship.

She is on the editorial boards and committees of various scientific bodies and has participated in review panels. Professor Downs presented a plenary at the 2010 Frugivory and Seed Dispersal Symposium in France and is convening the 2015 conference in South Africa.

Professor Downs has organised the annual national Cape Parrot Counting Day for the past 13 years. This has involved liaising with public volunteers nationally (about 300 people), producing reports, magazine articles, and making public presentations. She is currently the Chairperson of the Cape Parrot Working Group based at UKZN.



TOP PUBLISHED RESEARCHERS

TOP PUBLISHED POSITIONS 2010					
NO	TITLE	INITIALS	FIRST NAME	SURNAME	FACULTY
1	Professor	J	Johannes	Van Staden	Science & Agriculture
2	Professor	SD	Steven Dene	Johnson	Science & Agriculture
3	Professor	CJ	Christopher John	Ballantine	Humanities, Development & Social Sciences
4	Professor	CT	Colleen Thelma	Downs	Science & Agriculture
5	Professor	U	Urmilla	Bob	Science & Agriculture
6	Professor	IA	Isabel Apawo	Phiri	Humanities, Development & Social Sciences
6	Professor	KG	Keyan Gray	Tomaselli	Humanities, Development & Social Sciences
7	Professor	RH	Robert Hugh	Slotow	Science & Agriculture
8	Dr	T	Thavendran	Govender	Health Sciences
9	Dr	GEM	Glenn Eamonn Mitchel	Maguire	Science & Agriculture
10	Professor	GO	Gerald Oakley	West	Humanities, Development & Social Sciences
11	Dr	HG	Hendrik Gerhardus	Kruger	Science & Agriculture
12	Mr	BC	Bhim Charan	Meikap	Academic Support
13	Professor	P	Precious	Sibanda	Science & Agriculture
14	Professor	F	Francesco	Petrucione	Science & Agriculture
15	Professor	D	Deevia	Bhana	Education
16	Professor	NR	Neil	Crouch	Science & Agriculture
17	Professor	D	Deresh	Ramjugernath	Engineering
18	Professor	S	Sabine	Marschall	Humanities, Development & Social Sciences
18	Professor	PMBR	Philippe Marie Berth	Denis	Humanities, Development & Social Sciences
18	Professor	DJ	David Jan	Mcquoid-Mason	Law
18	Professor	DJ	David Jon	Spurrett	Humanities, Development & Social Sciences

TOP PUBLISHED RESEARCHERS

TOP PUBLISHED POSITIONS 2010					
NO	TITLE	INITIALS	FIRST NAME	SURNAME	FACULTY
18	Mr	M	Maximillian	Du Plessis	Law
19	Dr	FB	Fathel-Rahman Babike	Ahmed	Science & Agriculture
20	Professor	MJ	Michael John	Savage	Science & Agriculture
20	Professor	ML	Marie-Louise	Newell	Health Sciences
21	Professor	DM	David Mercer	Ward	Science & Agriculture
22	Professor	FN	Frederick Noel	Zaal	Law
22	Professor	VG	Valentin Goutev	Gutev	Science & Agriculture
22	Professor	R	Radhamany	Sooryamoorthy	Humanities, Development & Social Sciences
23	Professor	R	Renzo	Perissinotto	Science & Agriculture
24	Professor	RM	Robert Mervyn	Gous	Science & Agriculture
25	Professor	S	Soliar	Lingham-Soliar	Science & Agriculture
26	Professor	M	Maurice	Mars	Nelson R Mandela School of Medicine
26	Dr	P	Peter	Vadasz	Engineering
27	Professor	MR	Michael Richard	Perrin	Science & Agriculture
28	Professor	TE	Thandinkosi Enos	Madiba	Nelson R Mandela School of Medicine
29	Mr	MC	Michael Cameron	Wood-Bodley	Law
29	Professor	SV	Shannon Vaughn	Hector	Law
29	Dr	S	Sarojini	Nadar	Humanities, Development & Social Sciences
29	Professor	PM	Patrick Martin	Bond	Humanities, Development & Social Sciences
30	Professor	SB	Sreekantha Babu	Jonnalagadda	Science & Agriculture

EMERGING RESEARCHERS - 2010

EMERGING RESEARCHERS - 2010



**Dr Richard
James Ballard**

Humanities, Development
& Social Sciences



Dr Elias Cebekhulu

Humanities, Development
& Social Sciences



Dr John Derera

Science & Agriculture



**Dr Nobuhle
Purity Hlongwa**

Humanities, Development
& Social Sciences



**Dr Richard
John Lessells**

Health Sciences



**Dr Marnie
Elizabeth Light**

Science & Agriculture



Dr Bernard Matolino

Humanities, Development
& Social Sciences



**Dr Pholoho
Justice Morojele**

Education



Dr Simon Mukwembi

Science & Agriculture



Dr Onesimo Mutanga

Science & Agriculture

EMERGING RESEARCHERS - 2010



**Dr Paramespri
Naidoo**

Engineering



**Dr Vincent
Onserio Nyamori**

Science & Agriculture



**Dr Vivian Besem
Ojong**

Humanities, Development
& Social Sciences



**Dr Ademola
Olufolahan Olaniran**

Science & Agriculture



**Dr Stephanie
Inge Rudwick**

Humanities, Development
& Social Sciences



**Dr Shaun
Denvor Ruggunan**

Humanities, Development
& Social Sciences



Dr Sergy Shindin

Science & Agriculture



Dr Yetish Sing

Nelson R Mandela School
of Medicine



Dr Jerome Amir Singh

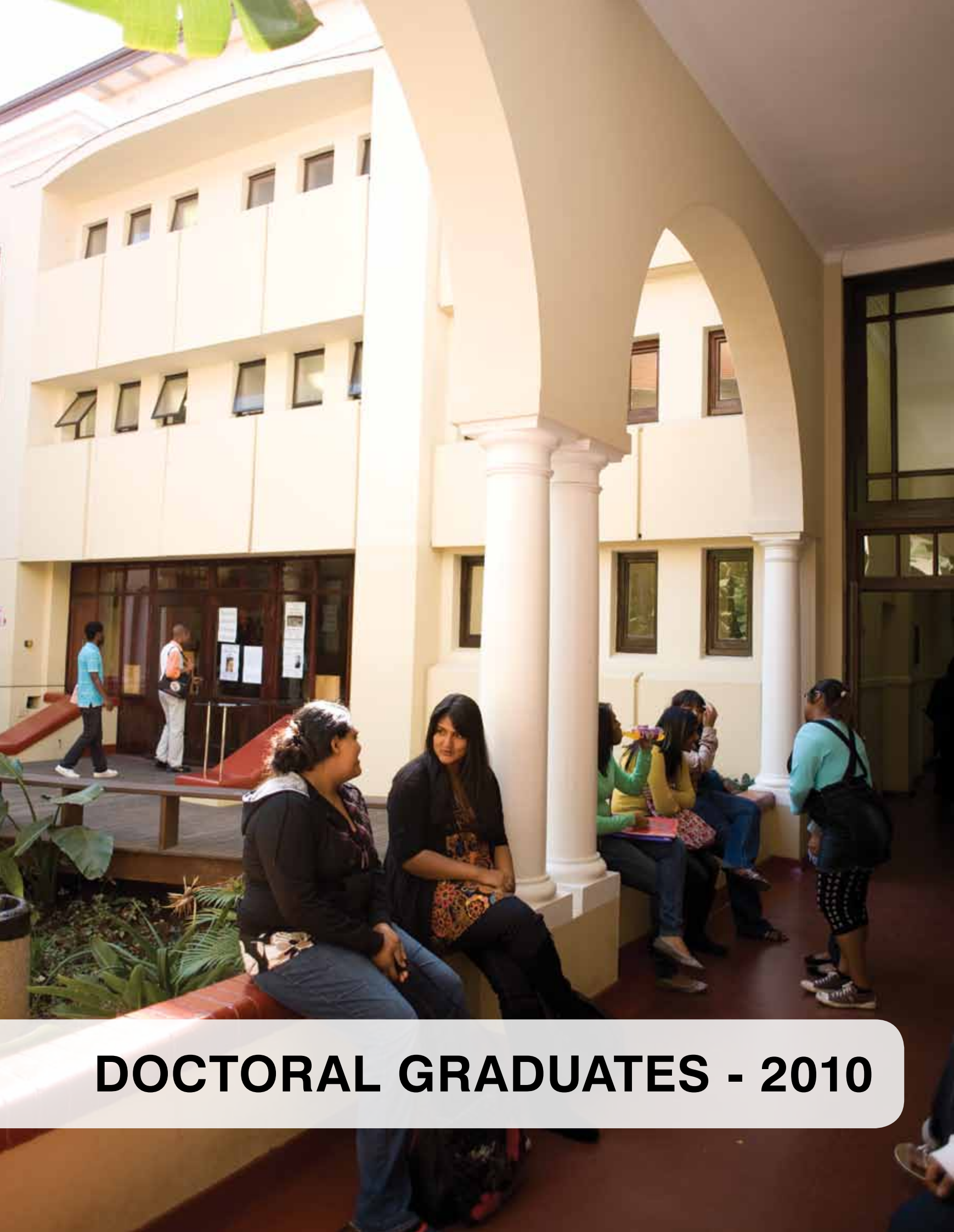
Health Sciences



**Dr Wale
Edilegnaw Zegeye**

Science & Agriculture





DOCTORAL GRADUATES - 2010

DOCTORAL GRADUATES - 2010



COLLEGE OF HUMANITIES			
FACULTY OF EDUCATION			
SURNAME	INITIALS	QUALIFICATION	THESIS
O'Brien	FY	Doctor of Philosophy (Education)	Grounding Service Learning in South Africa: The Development of a theoretical framework.
Reddy	S	Doctor of Philosophy (Education)	Experiences of clinical practice in a problem-based learning medical curriculum and subsequent clinical environments.
Reid	SJ	Doctor of Philosophy (Education)	Education for rural medical practice.
Forde	RD	Doctor of Philosophy (Education)	Minds and hearts: Exploring the teacher's role as a leader of pupils in a class.
Ram	A	Doctor of Philosophy (Education)	Speaking hands and silent voices: Exploring the identities of deaf teachers through narratives in motion.
Maharajh	LR	Doctor of Philosophy (Education)	The Bhagavath Gita for values education in Life Orientation: Perception and possibilities.
Motalingoane-Khau	CSM	Doctor of Philosophy (Education)	Women teachers talk sex: A gendered analysis of women teachers' experiences of teaching sexuality education in rural schools in the age of HIV and AIDS.
Nkosi	ZP	Doctor of Philosophy (Education)	Ucwaningo lokuhlola ukufundiswa kokufunda okubhaliwe emabangeni aphansi akhethiwe esiZulu ulimi lwasekhaya ezikoleni zaseMlazi.
Habineza	F	Doctor of Philosophy (Education)	Developing first year Mathematics student teachers' understanding of the concepts of the definite and the indefinite integrals and their link through the fundamental theorem of calculus: An action research project in Rwanda.
Naidoo	J	Doctor of Philosophy (Education)	Exploring master teachers' use of visuals as tools in mathematics classrooms.
Singh-Pillay	A	Doctor of Philosophy (Education)	An exploration of the interface between schools and industry in respect of the development of skill, knowledge, attitudes and values (SKAVs) in the context of biotechnology.
Verbeek	DC	Doctor of Philosophy (Education)	Teaching reading for meaning? A case study of the initial teaching of reading in a mainstream South African school.
Powell	PA	Doctor of Philosophy (Education)	A critical investigation into curriculum development discourses of academic staff at a South African University of Technology.
FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES			
De la Porte	SE	Doctor of Philosophy (Human Sciences)	Shifting care dynamics: The moral economy of care and its challenges in the context of the HIV/AIDS pandemic in KwaZulu-Natal, South Africa.
Naidu	UM	Doctor of Philosophy (Human Sciences)	Women, poverty and development in Clairwood, KwaZulu-Natal.
Majeke	SJ	Doctor of Philosophy (Human Sciences)	School-going youth, sexuality and HIV prevention in Northern KwaZulu-Natal: a gender perspective.
Diang'a	SO	Doctor of Philosophy (Human Sciences)	Regularising informal settlements for sustainable housing development for the urban poor: A case of Nairobi, Kenya.

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES			
SURNAME	INITIALS	QUALIFICATION	THESIS
Govender	GB	Doctor of Philosophy (Human Sciences)	An evaluation of housing strategy in South Africa for the creation of sustainable human settlements: A case study of the eThekweni region.
Macia	MJ	Doctor of Philosophy (Human Sciences)	Male sexual behaviour and protective practices in the context of a generalised HIV/AIDS epidemic: A case study of an urban and rural area in Mozambique.
Naidoo	P	Doctor of Philosophy (Human Sciences)	The making of 'The Poor' in post-apartheid South Africa: A case study of the City of Johannesburg and Orange Farm.
Desai	SA	Doctor of Philosophy (Human Sciences)	Stakeholder perceptions of ecotourism impacts and management issues in relation to private game parks: Case studies of the Ezulwini Private Park and Tala Private Park in KwaZulu-Natal, South Africa.
Ntsele	SG	Doctor of Philosophy (Human Sciences)	A gendered perspective on women and SMME development in the eThekweni Municipality region.
Houghton	JA	Doctor of Philosophy (Human Sciences)	Understanding the relationship between neoliberalism and the negotiation of urban development imperatives within public-private partnerships in Durban.
Ademola-Adeoye	FF	Doctor of Philosophy (Human Sciences)	A cross-linguistic analysis of finite raising constructions.
Altman	ME	Doctor of Philosophy (Human Sciences)	Traditional views on embodiment: A cognitive semantic analysis of terminology in indigenous medical systems.
Ngcobo	S	Doctor of Philosophy (Human Sciences)	An investigation of first-year students' attitudes towards bilingual education and impact of a dual-medium vocabulary course into home language attitudes and English acquisition at Mangosuthu Technikon.
Durden	E	Doctor of Philosophy (Human Sciences)	Staging Empowerment? An investigation into participation and development in HIV and AIDS theatre projects.
Kirby-Hirst	MA	Doctor of Philosophy (Human Sciences)	Simulacrum, Paragon, Holy Man. Fundamentalist Perspectives in the Writings of Flavius Philostratus.
Moolman	JP	Doctor of Philosophy (Human Sciences)	Autobiography of Bone: An original cycle of dramatic poems researching the problematics of a reconceptualisation of the formal boundaries between the genres of poetry and drama.
Robinson	JE	Doctor of Philosophy (Human Sciences)	Darwinising the philosophy of music education.
Gilbert	LD	Doctor of Philosophy (Human Sciences)	Ethnic militias and conflict in the Niger Delta region of Nigeria: The international dimensions (1999-2007).
Dellis	AM	Doctor of Philosophy (Human Sciences)	The behaviour and development of infants with iron deficiency anaemia: Systematic observation of nine-month-old Pemban caregiver-infant dyads.
Lunn	H	Doctor of Philosophy (Human Sciences)	Hippies, radicals and the sounds of silence: cultural dialectics at two South African universities, 1966-1967.
Kin'gara	GN	Doctor of Philosophy (Human Sciences)	Production Practices in Kenyan Television Soap Operas and the Imaging of TV Audiences: Ethnography of a Discourse in the Making.
Lamprecht	NC	Doctor of Philosophy (Human Sciences)	Representaties van Nederlandse kontakte met Kusbewoners van Afrika, 1475-1652.

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES			
SURNAME	INITIALS	QUALIFICATION	THESIS
Appiah	GW	Doctor of Philosophy (Human Sciences)	Democratisation and local government transformation in a former magisterial district of Maluti in the Eastern Cape, 1994-2005.
Wallace	DL	Doctor of Philosophy (Religion and Culture)	The construction of pagan identity in South Africa: A contested religious identity in a pluralistic society.
Mdanda	MG	Doctor of Philosophy (Human Sciences)	The Indigenous Knowledge Systems based on religion and healing as encapsulated in OEHM Nxumalo and LBZ Buthelezi's poetry.
Sithole	N	Doctor of Philosophy (Human Sciences)	Performance, Power and Agency: A study of hymns and dance in Isaiah Shembe's Nazarite Church.
Okyere-Manu	BD	Doctor of Philosophy (Human Sciences)	Shattering the Glass Ceiling: A critical feminist investigation of the ethical challenges faced by women in Black Economic Empowerment (BEE).
Naidoo	V	Doctor of Philosophy (Human Sciences)	Between Scylla and Charybdis: South Africa's Foreign Policy dilemma in Southern Africa.
Sifolo	N	Doctor of Philosophy (Human Sciences)	Assessing the role and capability of the Peace and Security Council of the African Union in bringing about peace in Africa: A case study of Burundi and Sudan.
Hardy	RM	Doctor of Philosophy (Human Sciences)	A phenomenological investigation into the lived experiences of South African primary caregivers attending to family members with traumatic brain injuries.
Ndebele	PM	Doctor of Philosophy (Human Sciences)	A study of trial participants' understanding and attitudes towards randomisation, double-blinding and placebo use, and a pilot intervention in a microbicide trial in Malawi.
Quayle	MF	Doctor of Philosophy (Human Sciences)	An investigation of stereotype activation and stereotype activation effects from the perspective of the social identity tradition.
Dibeela	CN	Doctor of Philosophy (Human Sciences)	A quest for a liberatory learning ethos: A case study of the Women's Associations in the United Congregational Church of Southern Africa.
Joshua	SM	Doctor of Philosophy (Human Sciences)	The Catholic response to HIV and AIDS in South Africa with a special reference to KwaZulu-Natal (1984-2005): A historical-critical perspective.
Materu	RH	Doctor of Philosophy (Human Sciences)	Towards gender-sensitive theological responses to HIV and AIDS: A critical study of the HIV and AIDS Policy and Programmes of the Northern Diocese of the Evangelical Lutheran Church in Tanzania.
Moore	JT	Doctor of Philosophy (Human Sciences)	Theological Education in the Lesotho Evangelical Church: A descriptive analysis.
Mwaniki	LM	Doctor of Philosophy (Human Sciences)	God's image or man's glory?: A Kenyan postcolonial feminist reading of 1 Corinthians 11: 1-16.
Nyirimana	E	Doctor of Philosophy (Human Sciences)	The tribal dimension in the division of the Kingdom of Israel: A contextual study of 1 Kings 12:1-24 from the perspective of the struggle for National Unity in Rwanda.
Ogilvie	KA	Doctor of Philosophy (Human Sciences)	Breaking words: Towards a Malagasy oral theology of homiletics.

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES

SURNAME	INITIALS	QUALIFICATION	THESIS
Siwila	L	Doctor of Philosophy (Human Sciences)	Culture, Gender and HIV and AIDS: United Church of Zambia's response to traditional marriage practices
Garaba	F	Doctor of Philosophy (Human Sciences)	An investigation into the management of the records and archives of former liberation movements in East and Southern Africa held by national and private archival institutions
Kwanya	TJM	Doctor of Philosophy (Human Sciences)	The potential of library 2.0 for research libraries in Kenya
Magaqa	VLL	Doctor of Philosophy (Human Sciences)	Review of the user-friendliness of a hospital information system using telemedicine in a traditional personnel culture at tertiary Inkosi Albert Luthuli Central Hospital of KwaZulu-Natal in South Africa
Munyua	HM	Doctor of Philosophy (Human Sciences)	Agricultural Knowledge and Information Systems (AKISs) among small-scale farmers in Kirinyaga district, Kenya
Ndenje-Sichalwe	EN	Doctor of Philosophy (Human Sciences)	The significance of records management to fostering accountability in the public service reform programme of Tanzania
Bruzas	CA	Doctor of Philosophy (Human Sciences)	The road is made by walking...: A case study of learning, knowledge creation and knowledge sharing at The Valley Trust, a South African NGO
Manicom	DP	Doctor of Philosophy (Human Sciences)	Gender essentialism: A conceptual and empirical exploration of notions of maternal essence as a framework for explaining gender difference
Mngadi	SR	Doctor of Philosophy (Human Sciences)	Space, body and subjectivity: Shifting conceptions of black African masculinity in selected anglophone African cinema

COLLEGE OF HEALTH SCIENCES

FACULTY OF HEALTH SCIENCES

SURNAME	INITIALS	QUALIFICATION	THESIS
Dolo	MJ	Doctor of Philosophy in Nursing	The Role of Spirituality in the Life of People Living with HIV/AIDS
Iyamuremye	JD	Doctor of Philosophy in Nursing	The development of a model to manage secondary traumatic stress in mental health workers in Rwanda
Mthembu	S Z	Doctor of Philosophy in Nursing	Knowledge Construction in Community Service-Learning Basic Nursing Education Programmes in Two Selected Nursing Schools in South Africa
Onianwa	PO	Doctor of Philosophy in Nursing	An Appraisal of Continuous Quality Improvement (CQI) And Development Of Quality-Care Indicators Amongst Clinical Based Nurses In Selected Teaching Hospitals In South-West (SW) Nigeria
Makatini	MM	Doctor of Philosophy (Health Sciences)	Meptides Targeting Protease Inhibition
Shaikh	MM	Doctor of Philosophy (Health Sciences)	Antifungal and anti-inflammatory activity of selected synthetic homoisoflavanones.

NELSON R MANDELA SCHOOL OF MEDICINE

SURNAME	INITIALS	QUALIFICATION	THESIS
Singh	A	Doctor of Philosophy (Medicine)	Coreceptor utilisation and primary cell tropism by HIV-1 subtype C strains.
Burns	JK	Doctor of Philosophy (Medicine)	Structural Violence and Schizophrenia: Psychosocial, Economic and cultural impact in the onset of psychosis.
Mkhize - Kwitshana	ZL	Doctor of Philosophy (Medicine)	The Influence of Helminths on Immune Responses to HIV.
Crankshaw	TL	Doctor of Philosophy (Medicine)	Patterns of Disclosure: An Investigation into the Dynamics of Disclosure among HIV-Positive women in two PMTCT Settings in an Urban Context, KwaZulu-Natal, South Africa.
Naidoo	P	Doctor of Philosophy (Medicine)	Evaluation of the clinical and drug management of HIV/AIDS patients in the private health care sector of the Ethekweni metro of KwaZulu-Natal. Sharing models and lessons for application in the public health care sector.

COLLEGE OF LAW AND MANAGEMENT STUDIES

FACULTY OF LAW

SURNAME	INITIALS	QUALIFICATION	THESIS
Vawda	YA	Doctor of Laws	Access to Life-saving Medication in South Africa: The Case for Legislative Reform.
Cohen	TJ	Doctor of Philosophy (Law)	Legality and Fairness: The interplay between the role of contract and the law of employment in South Africa.

FACULTY OF MANAGEMENT STUDIES

Dzirikure	M	Doctor of Philosophy (Management Studies)	Towards a management approach for sustainable social development programmes for orphans in Southern Africa: Application of Systems Theory.
Musekura	C	Doctor of Philosophy (Management Studies)	Assessment of causes of the failure of Gikongoro Agricultural Development Project.
Madu	JC	Doctor of Philosophy (Management Studies)	Peace through equity: An analysis of conflicts from Gender Discrimination in Land Property Rights in Enugu State of Nigeria.
Mugisa	M	Doctor of Philosophy (Management Studies)	Building human Security in Ituri Province, Democratic Republic of Congo.
Myrntinen	HM	Doctor of Philosophy (Management Studies)	Histories of violence, states of denial: Militias, martial arts and masculinities in Timor Leste.
Wielenga	C	Doctor of Philosophy (Management Studies)	Narrative as a means of healing in Rwanda.
Mensah	SN-A	Doctor of Philosophy (Management Studies)	Modelling of International Migration from a Small African Country: A Case Study of Lesotho.
Simwaka	K	Doctor of Philosophy (Management Studies)	The economic impact of HIV/AIDS on smallholder farm households in Malawi.
Kanyi	P	Doctor of Philosophy (Management Studies)	The Suitability of Wireless Technologies for Implementing an eBusiness Infrastructure in Kenyan Micro and Small Enterprises.
Govender	LN	Doctor of Commerce	Knowledge Management as a strategic tool for HRM: A study of selected Higher Educational Institutions.

FACULTY OF MANAGEMENT STUDIES			
SURNAME	INITIALS	QUALIFICATION	THESIS
Paul	L	Doctor of Administration	The level of and relationship between job insecurity and locus of control in an environment undergoing major restructuring
Dayaram	V	Doctor of Administration (Public Administration and Development Management)	Organisational Culture and Values in the South African Social Security Agency (SASSA): A Batho Pele Perspective
van der Watt	PG	Doctor of Administration (Public Administration and Development Management)	Implementation of the Integrated Quality Management System Policy in Public Schools in the UGU District
Maharaj	D	Doctor of Administration (Public Administration and Development Management)	Factors Impacting on Good Governance: A Case Study of Service Delivery in Child Abuse within the Ethekwini Municipal District of KwaZulu-Natal
Malahlela	MM	Doctor of Administration (Public Administration and Development Management)	Policy Considerations for the Management of Informal Businesses in a Fast Growing City: A Case Study of Polokwane Municipality
Singh	D	Doctor of Administration (Public Administration and Development Management)	Performance Management System for Senior Managers in the Public Service: A Case Study of the KwaZulu-Natal Department of Education
Mpehle	Z	Doctor of Administration	Multipurpose Community Centres as the Primary Vehicle in Service Delivery: Trends and Challenges
Beharilal	R	Doctor of Business Administration	The Perceived Strategic Value of Electronic Commerce among SMME's in South Africa: A Strategic Management Perspective
Naong	MN	Doctor of Business Administration	Impact of skills development training on employee motivation, perceptions of organisational climate and individual performance.
Carrasco	NK	Doctor of Philosophy (Science)	Zooplankton Dynamics and Ecophysiology in the St Lucia Estuary, with Emphasis on the Dominant Mysid of <i>Mesopodopsis africana</i>
Floros	C	Doctor of Philosophy (Science)	An Evaluation of Coral Reef Fish Communities in South African Marine Protected Areas
MacDonald	AHH	Doctor of Philosophy (Science)	Connectivity of Two Scleractinian Corals in the South West Indian Ocean
Morgan	SR	Doctor of Philosophy (Science)	Black Rhinoceros (<i>Diceros bicornis</i>) Habitat Selection and Movement Analysis
Naidoo	S	Doctor of Philosophy (Science)	Quantifying and Modelling the Effects of Environmental Factors on Wood Properties of <i>Eucalyptus Grandis</i> in South Africa
Naidoo	S	Doctor of Philosophy (Science)	Germplasm conservation of species producing recalcitrant seeds
Shaik	S	Doctor of Philosophy (Science)	In Vitro Studies and Phytocompound Analysis in <i>Lessertia Frutescens</i> (Fabaceae)
Bux	M	Doctor of Philosophy (Science)	Oxidative Dehydrogenation of n-Octane using Vanadium Based Hydrotalcite-Like Compounds
Chakka	S	Doctor of Philosophy (Science)	Synthesis of Tetrahydroisoquinoline (TIQ) Ligands and their Applications in Asymmetric Catalysis

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE			
FACULTY OF SCIENCE AND AGRICULTURE			
SURNAME	INITIALS	QUALIFICATION	THESIS
Elkhalifa	EA	Doctor of Philosophy (Science)	On the Activation of n-Octane using Vanadium-Magnesium Oxide Catalysts
Jali	S	Doctor of Philosophy (Science)	The Effect of Mo(CO) ₆ as a Cocatalyst in the Carbonylation of Methanol to Methyl Formate Catalyzed by Potassium Methoxide under CO ₆ , Syngas and H ₂ Atmospheres
Nadupalli	S	Doctor of Philosophy (Science)	Studies on the hypochlorite generation from seawater, and its application in effluent treatment.
Naicker	T	Doctor of Philosophy (Science)	Activation of n-Hexane using Vanadium Exchanged Zeolites
Onajole	OK	Doctor of Philosophy (Science)	Design, Synthesis and Pharmaceutical Application of Novel Polycyclic 'Cage' Diamines
Pillay	L	Doctor of Philosophy (Science)	Distribution and Speciation of Metals in the Ispingo Estuarine System, South Africa
Van Ryneveld	E	Doctor of Philosophy (Science)	Hydrogenolysis of Glycerol to Lower Alcohols
Viriri	S	Doctor of Philosophy (Science)	Bi-Modal Biometrics Authentication Based on Iris and Signature
Scott	GM	Doctor of Philosophy (Science)	Development of a Methodology for the Delineation of Air Quality Management Areas in South Africa
Thambiran	T	Doctor of Philosophy (Science)	The Integration of Climate Change Considerations into Local Air Quality Management Plans in South Africa
Clarke	BM	Doctor of Philosophy (Science)	Deformation of the Contact Aureole and Marginal Bushveld Complex Rocks in the Steelpoort Area
Vicente	EM	Doctor of Philosophy (Science)	Aspects of the Engineering Geology of Maputo City, Mozambique
Govender	G	Doctor of Philosophy (Science)	Relativistic Radiating Stars with Generalised Atmospheres
Matadi	M	Doctor of Philosophy (Science)	Singularity and Symmetry Analyses for HIV-TB Coinfection
Kweyama	MC	Doctor of Philosophy (Science)	Analysis of Shear-Free Spherically Symmetric Charged Relativistic Fluids
Msomi	AM	Doctor of Philosophy (Science)	Application of Lie Symmetries to Gravitating Fluids
Warne	RR	Doctor of Philosophy (Science)	The Thermal Sunyaev-Zel'Dovich Effect: A Probe of Cluster Physics and Cosmology
Baluku	TK	Doctor of Philosophy (Science)	Studies of Linear and Nonlinear Acoustic Waves in Space Plasmas
Ndiitwani	DC	Doctor of Philosophy (Science)	Ultra Low Frequency (ULF) Waves Observed at Mid to Low Latitudes During Daytime Using Low Earth Orbit (LEO) Satellite and Ground-Based Data
Caister	NC	Doctor of Philosophy (Science)	Group Analysis of Financial Derivatives
Mutenje	MJ	Doctor of Philosophy (Science)	Rural livelihoods in South-Eastern Zimbabwe: The impact of HIV/AIDS on the use and management of non-timber forestry products
Dugmore	TJ	Doctor of Philosophy (Science)	The Effect of Nitrogen Fertilisation and Stage of Re-growth on the Nutritive Value of Kikuya in the Midlands of KwaZulu-Natal

FACULTY OF SCIENCE AND AGRICULTURE			
SURNAME	INITIALS	QUALIFICATION	THESIS
Tyler	NC	Doctor of Philosophy (Science)	The Photoperiodic Response of Male Broiler Breeders
Donaldson	RA	Doctor of Philosophy (Science)	Seasonal effects on the potential biomass and sucrose accumulation of some commercial cultivars of sugarcane
Mare	RM	Doctor of Philosophy (Science)	Taro (<i>Colocasia esculenta</i> L. Schott) yield and quality in response to planting date and organic fertilisation
Selepe	BM	Doctor of Philosophy (Science)	The impact of home gardens on dietary diversity, nutrient intake and nutritional status of pre-school children in the Vaal Triangle, Johannesburg, South Africa
Blakey	RJ	Doctor of Philosophy (Science)	Management of Avocado Postharvest Physiology
Chiulele	RM	Doctor of Philosophy (Science)	Breeding Cowpea (<i>Vigna unguiculata</i> L.) for Improved Drought Tolerance in Mozambique
Fato	P	Doctor of Philosophy (Science)	Investigation of Heterotic Patterns and Genetic Analysis of Downy Mildew Resistance in Mozambican Lowland Maize Germoplasm
Kashenge-Killenga	SSK	Doctor of Philosophy (Science)	Breeding Investigations for salt tolerance in rice incorporating characterisation of salt affected soils and farmers' perceptions and preferences for tolerant cultivars in North-Eastern Tanzania
Kimani	JM	Doctor of Philosophy (Science)	Pigeon Peas
Naidoo	R	Doctor of Philosophy (Science)	Identification of molecular markers linked to maize streak virus, quality protein maize and low phytic acid in maize
Ojwang	PP	Doctor of Philosophy (Science)	Genetic Studies on Host-plant Resistance to Bean Fly (<i>Ophiomyia</i> spp) and seed yield in Common Bean (<i>Phaseolus Vulgaris</i>) under Semi-Arid Conditions
Tignegre	JB	Doctor of Philosophy (Science)	Genetic Study of Cowpea (<i>Vigna unguiculata</i> (L.) Walp.) Resistance to <i>Striga gesnerioides</i> (Willd.) Vatke in Burkina Faso
Pillay	D	Doctor of Philosophy (Science)	The identification and characterisation of novel pathogenic factors of <i>Trypanosoma congolense</i>
Ramsuran	V	Doctor of Philosophy (Science)	Genetic/epigenetic determinants in chemokines and chemokine receptor genes that influence HIV susceptibility in a cohort of high-risk women from South Africa
Okudoh	VI	Doctor of Philosophy (Science)	Isolation and characterisation of antibiotic(s) produced by bacteria from KwaZulu-Natal soils
Brown	M	Doctor of Philosophy (Science)	Nectar preferences of specialist and occasional avian nectarivores, and their role in the evolution of floral traits
Mwabvu	T	Doctor of Philosophy (Science)	Revision of the taxonomy and distribution of the African Millipede Genera <i>Bicoxidens</i> , <i>Spirostreptus</i> , <i>Plagiotaphrus</i> and <i>Archispirostreptus</i> (Diplopoda, Spirostreptida, Spirostreptidae)
Nangammbi	TC	Doctor of Philosophy (Science)	Systematics of the Phasianellidae in southern Africa (Mollusca: Gastropoda: Vetigastropoda)
Wilson	A	Doctor of Philosophy (Science)	Aspects of the thermal physiology and fruit digestion of Knysna (<i>Tauraco corythaix</i>) and Purple-crested (<i>Gallirex porphyreolophus</i>) Turacos
Ghebrehwet	HM	Doctor of Philosophy (Science)	The role of fire and fire-related factors on seed germination and growth of grassland species

FACULTY OF SCIENCE AND AGRICULTURE			
SURNAME	INITIALS	QUALIFICATION	THESIS
Kambatuku	JR	Doctor of Philosophy (Science)	Ecophysiological impacts of competition on bush-encroaching <i>Acacia mellifera</i> trees
Abdillahi	HS	Doctor of Philosophy (Science)	The ethnobotany and pharmacological screening of South African <i>Podocarpus</i> species
Shuttleworth	A	Doctor of Philosophy (Science)	Ecology and evolution of the specialised <i>Hemipepsis</i> wasp (Hymenoptera: Pompilidae) pollination guild in southern Africa
Matchett	KJ	Doctor of Philosophy (Science)	Recovery, resilience and stability of piosphere systems in the Kruger National Park
Riddell	ES	Doctor of Philosophy (Science)	Characterisation of the hydrological processes and responses to rehabilitation of a headwater wetland of the Sand River, South Africa
Akerman	MP	Doctor of Philosophy (Science)	Structural, Physical and Biological Studies of Gold(III) Bis(Pyrrolide-Imine) Schiff Base Complexes: Potential Chemotherapeutic Agents
Litedu	EM	Doctor of Philosophy (Science)	Progress towards the stereoselective synthesis of cycleanine
Khumalo	BJ	Doctor of Philosophy (Science)	The Relationship between Agency and Empowerment: A case study of the Ikhwe Craft Group
Adam	EMI	Doctor of Philosophy (Science)	The remote sensing of Papyrus vegetation (<i>Cyperus papyrus</i> L.) in swamp wetlands of South Africa
Escott	BJ	Doctor of Philosophy (Science)	An investigation, using synchrotron radiation and other techniques, of the composition of San rock art paints and excavated pigments from Maqonqo Shelter, and comparative paint data from three other sites in KwaZulu-Natal, South Africa
Tchoukouegno Ngnotchouye	JM	Doctor of Philosophy (Science)	Conservation Laws Models in Networks and Multiscale Flow Optimisation
Maqutu	DM	Doctor of Philosophy (Science)	Statistical methods for longitudinal binary data structure with applications to antiretroviral medication adherence
FACULTY OF ENGINEERING			
Rathilal	S	Doctor of Philosophy in Engineering	Modelling of a vibration plate extraction column
Odedina	PK	Doctor of Philosophy in Engineering	Clear-air radioclimatological modelling for terrestrial line-of-sight links for Southern Africa
Odedina	MO	Doctor of Philosophy in Engineering	A semi-empirical formulation for determination of rain attenuation on terrestrial radio links
Owolawi	PA	Doctor of Philosophy in Engineering	Characteristics of rain at microwave and millimetric bands for terrestrial and satellite links attenuation in South Africa and surrounding islands
Oyerinde	OO	Doctor of Philosophy in Engineering	Channel estimation for SISO and MIMO-OFDM communication systems
Van Der Merwe	J	Doctor of Philosophy in Engineering	Security mechanisms for distributed communications systems
Stopforth	R	Doctor of Philosophy in Engineering	Contractible arms elevating search and rescue (CAESAR) robot - improvements and modifications for urban search and rescue (USAR) robots



RESEARCH GRANTS AND CONTRACTS - 2010

Research Grants & Contracts - 2010 (Exceeding R100 000)

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE			
FACULTY OF ENGINEERING			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Rigby, Bruce Spencer	Real Time Tests of Transformerand Distance Protection Relays. A Real Time Model Development of Dynamic Controllers.	Eskom	R 125,000
Smithers, Jeffrey Colin	Refinement and Implementation of Improvement Processes to the Integrated Sugarcane Supply and Processing System.	South African Sugarcane Research Institute	R 1,074,282
Smithers, Jeffrey Colin	Integrated Modelling for Water Resource Planning and Operational Management.	Water Research Commission	R 2,300,000
Jewitt, Graham Paul Wyndham	Water Use and Economic Value of the Biomass of Indigenous Trees Under Natural and Plantation Conditions.	Council for Scientific and Industrial Research	R 230,000
Ghaffari Saadat, Mohammad	Research Work for Electrical Power and Energy.	Eskom	R 1,205,000
Schulze, Roland Edgar	Hydrological Modelling in the Waterberg Catchment Area; Climate Change impacts on Water Resources in the Waterberg.	Eskom	R 500,000
Buckley, Christopher Andrew	Co-digestion of Sewage Sludge and Industrial Concentrates.	Water Research Commission	R 1,050,000
Buckley, Christopher Andrew	Evaluation of the Dewats Process for Decentralised Wastewater Treatment.	Water Research Commission	R 300,000
Lumsden, Trevor Graeme	Projected Impacts of Climate Change on Water Quantity and Quality in the Mgeni Catchment.	Water Research Commission	R 1,492,000
Jewitt, Graham Paul Wyndham	Developing Water Related Climate Change Adaptation Options to Support Implementation of Policy and Strategies for Growth and Development.	Water Research Commission	R 3,000,000
Jewitt, Graham Paul Wyndham	A real-time web application pilot project to assess the Water Use Efficiency of Grape Growers in the Western Cape.	Department of Agriculture - Western Cape	R 764,500
Jewitt, Graham Paul Wyndham	Evapotranspiration from the Nkazana Swamp.	Council for Scientific and Industrial Research	R 280,000
Jewitt, Graham Paul Wyndham	Guidelines for Irrigation Management in Pasture Production.	Council for Scientific and Industrial Research	R 350,000
Jewitt, Graham Paul Wyndham	The Effect of Agroforestry Species on Soil Moisture.	Council for Scientific and Industrial Research	R 120,000
		TOTAL	R 12,790,782

RESEARCH GRANTS & CONTRACTS - 2010

FACULTY OF SCIENCE AND AGRICULTURE			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Tongoona, Pangirayi Bernard	Development of Base Germplasm of Grain Sorghums for Improved Productivity in Agricultural Systems in Africa.	Alliance for a Green Revolution in Africa	R 1,134,975
Dent, Mark Clifford	FETWater CMA Expertise Development Network (November 2009 – March 2010).	Water Research Commission	R 364,912
Demlie, Molla Bekele	FETWater Groundwater Network (November 2009 – March 2010).	Water Research Commission	R 403,509
Friedrich, Holger Bernhard	FRIEDRICH H - RESEARCH ORDER 1 – Fadlalla Mohammed, Cwele Thandanani.	Mintek	R 640,000
Kirkman, Kevin Peter	Convergence and Contingencies in Savanna Grasslands.	Colorada State University	R 175,350
Munro, Orde Quentin	MUNRO MINTEK RESEARCH ORDER 10 - Santham Govender, Roseanne C. Salmond, Matthew Akerman, Malcolm Bartlett.	Mintek	R 531,300
Pillay, Balakrishna	An Investigation into the Link between Water Quality and Microbiological Safety of Fruit and Vegetables from the Farming to the Processing Stages of Production and Marketing - WRC K5/1875.	University of Pretoria	R 172,625
Mudhara, Maxwell	Farmer Support Group.	Oxfam Australia	R 309,700
Rigby, Bruce Spencer	Research Report 8004.13 for Project Title: Real-Time Simulations of the Transmission Network using the RTDS simulator for protection relay mal-operation as well as protection settings.	Eskom	R 208,380
Scharler, Ursula Michaela	River Influenced Bays and Bights (RIBBS) Project PhD Supervision and Support.	Council for Scientific and Industrial Research	R 136,000
		TOTAL	R 4,076,751

COLLEGE OF HUMANITIES			
FACULTY OF HUMANITIES, DEVELOPMENT & SOCIAL SCIENCES			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Nzimande, Nom-pumelelo Barbara	SAF2P203 – Applied Population Sciences Training and Research (APSTAR II) – 2010.	United Nations Population Fund	R 736,000
May, Julian Douglas	A Socio-Economic Impact Assessment of the Local Competitiveness Fund's Implementation Projects Under the Gijima KZN LED Support Programme.	KZN Deptment of Economic Development & Tourism	R 1,286,000
Sutherland, Catherine Grace	Promoting a Green Economy.	Department of Economic Development	R 949,223
May, Julian Douglas	Analysis of the Living Conditions Survey 2008/2009.	Statistics South Africa	R 1,153,680
Valodia, Imraan Abdul Kader	Rapid Qualitative Assessment to Inform the WDR on Gender Equality and Development (WDR 2012).	The World Bank Group	R 276,791
Bonnin, Deborah Rosemary	The Study on Mapping Exercise of Policies and Programmes on HIV/AIDS in the City of Durban, South Africa.	UNESCO International Institute for Capacity Building in Africa	R 47,376
		TOTAL	R 4,449,070

RESEARCH GRANTS & CONTRACTS - 2010

FACULTY OF EDUCATION			
Wedekind, Volker Ralf	Project on FET Colleges and the Implementation of the National Curriculum (Vocational).	South African Qualifications Authority	R 1,460,000
Mudaly, Vimolan	Enhancing Secondary Mathematics Teacher Education: Collaborative partnership with SUNY-Buffalo.	State University of New York	R 844,200
		TOTAL	R 2,304,200

COLLEGE OF HEALTH SCIENCES			
FACULTY OF HEALTH SCIENCES			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
KAUCHALI, SHUAIB	KZN Autism Study.	Autism Speaks	R 438,005
KAUCHALI, SHUAIB	Early Social Communication Characteristics of Autism Spectrum Disorders (ASD) in Diverse Cultures in the United States and Africa.	Florida State University	R 204,937
Horwood, Christiane Marianne	Assistance with Implementing the WHO Intergrated Management Approaches.	World Health Organisation	R 908,215
KAUCHALI, SHUAIB	Health and Psychosocial Need: Children with Developmental Disorder in a Time of HIV.	Columbia University	R 3,110,127
Sturm, Adriaan Willem	Phenotypic and Genotypic Characterisation of Virulence Attributes of Mycobacterium Tuberculosis.	Howard Hughes Medical Institute	R 4,599,000
		TOTAL	R 9,260,284

NELSON R MANDELA SCHOOL OF MEDICINE			
Magula, Nombulelo Princess	Metabolic Complication of HAART in a South African Black Population.	Medical Research Council	R 130,000
Bhimma, Rajendra	The role of MYH9 mutations in the development of focal segmental Glomerulosclerosis in South Africa.	Medical Research Council	R 130,000
Padayatchi, Nesri	Columbia University – Southern African AIDS International/ Research Programme.	Columbia University	R 10,552,314
Ndung'u, Peter Thumbi	International Maternal Pediatric Adolescent AIDS Clinical Trials Group ("IMPAACT") Task order 6 – Year 5 (1 June 2010 – 31 May 2011).	Social & Scientific Systems Inc	R 1,010,880
Ndung'u, Peter Thumbi	Innate Host Genetic Determinants that Restrict Mother to Child HIV-1 Clade C Transmission.	Massachusetts General Hospital	R 366,095
Ndung'u, Peter Thumbi	Pathogenesis of Clade C HIV Infection.	Massachusetts General Hospital	R 245,492
Newell, Marie-Louise	Impact of Antiretroviral Therapy on HIV Epidemic Dynamics.	Brown University	R 710,294
Newell, Marie-Louise	Work on HIV, AIDS and Related Care-giving in South Africa as Part of the Study of Global Ageing and Adult Health.	World Health Organisation	R 1,413,400
Ndung'u, Peter Thumbi	Pathogenesis of Clade C HIV Infection.	Massachusetts General Hospital	R 2,400,390

COLLEGE OF HEALTH SCIENCES			
NELSON R MANDELA SCHOOL OF MEDICINE			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Swart, Johanna Christina Ma	International Training Program in Epidemiology of Aids – (Year 5 Additional Funding) – 3 Traineeships.	Columbia University	R 490,215
Padayatchi, Nesri	Tuberculosis Trials Consortium.	Columbia University	R 3,908,523
Abdool Karim, Salim Safurdeen	CAPRISA 004 - Phase IIb Trial to Assess the Safety and Effectiveness of the Vaginal Microbicide 1% Tenofovir Gel for the Prevention of HIV Infection in Women in South Africa.	Family Health International	R 12,499,570
Padayatchi, Nesri	Fogarty International Clinical Research Scholars.	Columbia University	R 364,740
Ndung'u, Peter Thumbi	International Maternal Paediatric Adolescent AIDS Clinical Trials Group ("IMPAACT") Task order 6 – Year 5 (1 June 2010 – 31 May 2011).	Social & Scientific Systems Inc	R 968,630
Ndung'u, Peter Thumbi	Co-funding for Targeting HIV Intergration Co-Factors, Targeting Cellular Proteins During Nuclear Import or Intergration of HIV – THINC.	Department of Science and Technology	R 550,000
Newell, Marie-Louise	Family Based Disclosure: A Support Programme for HIV Positive Mothers, their Children and Families.	Canadian International Development Agency	R 3,694,711
Padayatchi, Nesri	Columbia University-Southern African AIDS International/ Research Programme.	Columbia University	R 605,890
Abdool Karim, Salim Safurdeen	CAPRISA AIDS Treatment Programme - TB Recurrence Upon Treatment with HAART (TRUTH).	Centers for Disease Control and Prevention	R 3,684,625
Ndung'u, Peter Thumbi	Innate Immunity in HIV-1 infection.	Massachusetts General Hospital	R 427,509
Newell, Marie-Louise	Sub-Funding provided by PACT, Inc to Africa Centre to implement its HIV/AIDS programme in South Africa.	PACT South Africa	R 8,507,785
Padayatchi, Nesri	International Training Programme in Epidemiology of Aids – (Supplement to the Forgary AITRP Training Programme) – 06/01/2010 -05/31/2011.	Columbia University	R 1,445,400
Ndung'u, Peter Thumbi	NK Cell Function in HIV-1 Infection.	Massachusetts General Hospital	R 328,320
Gqaleni, Nceba	The Generic Product Prototype Development for Treating Diabetes Mellitus by the African Traditional Medicines (ATM) Flagship of the IKS Bioprospecting Platform.	Department of Science and Technology	R 500,000
Newell, Marie-Louise	Jiving to a Science Beat: Using Radio-style Interviews and Popular Music to Disseminate Africa Centre's Health Research, Foster Community Dialogue and Promote Evidence-based Health Practices in an Area of High HIV-prevalence in Rural South Africa.	The Wellcome Trust	R 362,703
Newell, Marie-Louise	Sub-Funding provided by PACT, Inc to Africa Centre to implement its HIV/AIDS programme in South Africa.	PACT South Africa	R 2,190,000
Newell, Marie-Louise	Sub-Funding provided by PACT, Inc to Africa Centre to implement its HIV/AIDS programme in South Africa.	PACT South Africa	R 8,507,785
Newell, Marie-Louise	Population and Integration Project Support - ZAF3P12A.	United Nations Population Fund	R 127,000

NELSON R MANDELA SCHOOL OF MEDICINE			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Padayatchi, Nesri	International Training Programme in Epidemiology of AIDS - OBSSR Supplement.	Columbia University	R 192,081
Abdool Karim, Salim Safurdeen	University of KwaZulu-Natal-Caprisa HIV/AIDS Clinical Trials Unit.	National Institutes of Health	R 612,000
Ndung'u, Peter Thumbi	Establishment of Cohorts to Support Studies of HIV Antigens and Immune Responses Required for Control of HIV.	International AIDS Vaccine Initiative	R 2,880,000
Newell, Marie-Louise	Sub-Funding provided by PACT, Inc to Africa Centre to implement its HIV/AIDS programme in South Africa.	PACT South Africa	R 14,622,470
Newell, Marie-Louise	Treatment as Prevention: Preparation for a Trial of HIV Treatment as Prevention: Acceptability and Community Education Issues.	French National Agency for Research on AIDS and Viral Hepatitis	R 181,640
Newell, Marie-Louise	Impact of a Novel Molecular TB Diagnostic System on Clinical outcomes of Multidrug-resistant TB in Rural South Africa.	London School of Hygiene & Tropical Medicine	R 1,208,680
Newell, Marie-Louise	Impact of Antiretroviral Therapy on HIV Epidemic Dynamics.	Brown University	R 583,018
		TOTAL	R 86,402,160

COLLEGE OF LAW AND MANAGEMENT STUDIES			
FACULTY OF MANAGEMENT STUDIES			
PRINCIPAL INVESTIGATOR	PROJECT TITLE	FUNDER NAME	AMOUNT AWARDED
Whiteside, Alan Walter	1) Education Mobile Task Team - HFM-A-00-02-00065-00 - Modification No.5 2) Certification regarding Terrorist Financing - HFM-A-00-02-00065-00 Modification No:6.	US Agency for International Development	R 4,321,200
Whiteside, Alan Walter	Address the Balance of the Burden of AIDS hence the acronym ABBA.	Population Council	R 1,136,681
		TOTAL	R 5,457,881



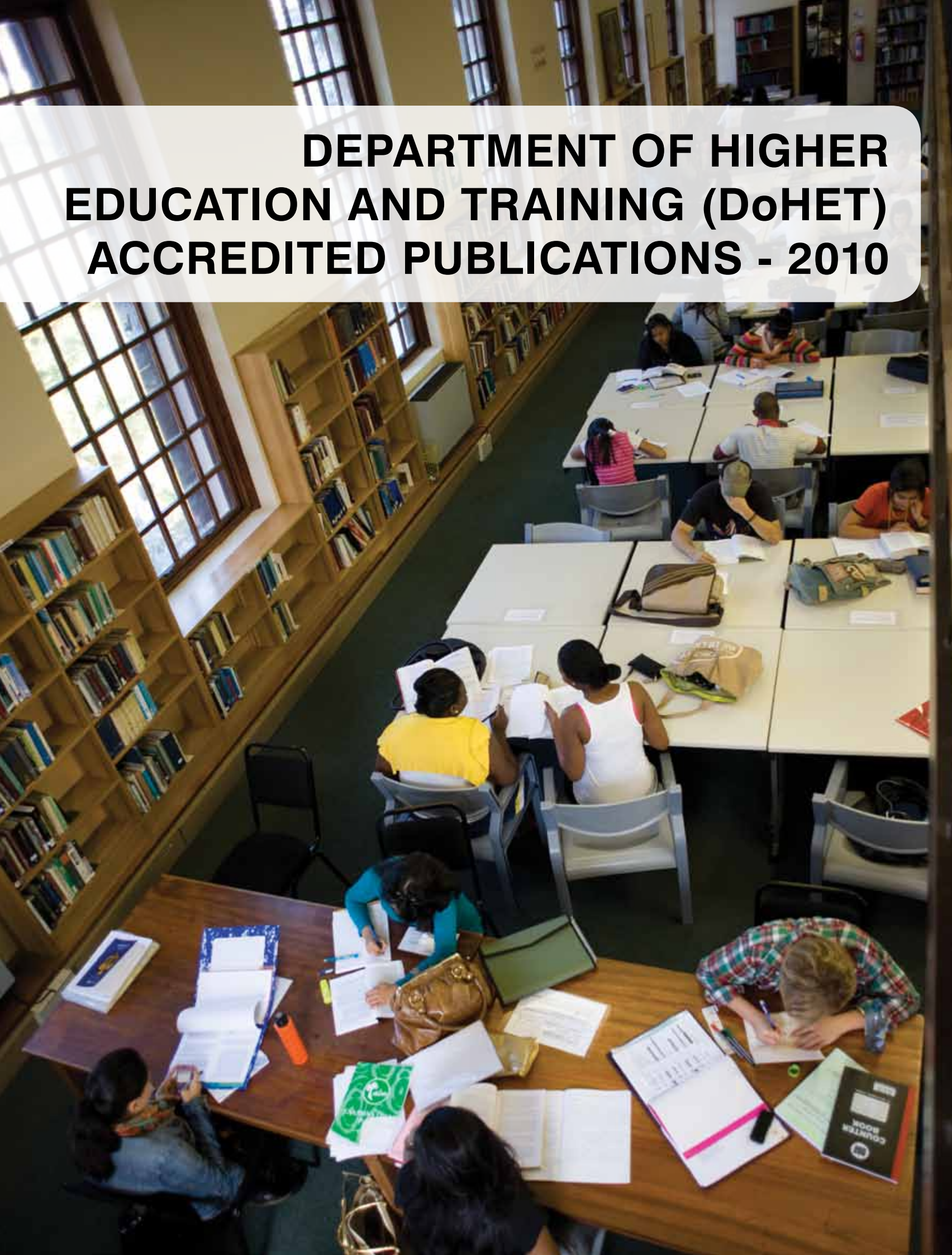
Statutory Income from the NRF 2010

STATUTORY INCOME FROM THE NRF - 2010

STATUTORY INCOME FROM THE NATIONAL RESEARCH FOUNDATION (NRF) 2010																
Faculty	ACEP	Adhoc Grants - Icd	AOPPG	BSRP	CPRR	Focus Area	HCDMA	IFRR	KFD	OFRR	Post Doctoral Fellowships	RISP	SARChI	THRIP	Thuthuka	Grand Total
Education		20,000						253,884	182,050						396,500	852,434
Engineering						129,000		1,373,378.99	23,000				4,245,440	12,396,064	300,000	12,118,832.99
Health Sciences					964,300			4,289,164.48	67,050	750,000	125,000	843,338	4,211,192		766,000	12,016,044.48
Humanities, Development & Social Sciences					567,698	1,050,412.87		2,699,828.36	200,000	300,000	450,000		8,604,029		934,500	14,806,468.23
Law								120,000								120,000
Management								160,000	15,000						60,000	235,000
Nelson R Mandela School of Medicine											125,000					125,000
Science and Agriculture	173,553	25,000	108,000	419,999	1,696,265	5,738,298.29	1,040,320	7,253,314.56	436,740	1,200,000	1,327,222.4	10,611,346	7,629,848	1,895,280	1,609,851	41,165,037.25
Grand Total	173,553	45,000	108,000	419,999	3,228,263	6,917,711.16	1,040,320	16,149,570.39	923,840	2,250,000	2,027,222.4	11,454,684	24,690,509	14,291,344	4,066,851	87,786,866.95

ABBREVIATIONS	
ACEP	African Coelacanth Ecosystem Programme
AOPPG	African Origin Programme
BSRP	Building for Sport and Recreation Project
CPRR	Competitive Programme for Rated Researchers

ABBREVIATIONS	
IFRR	Incentive Funding for Rated Researchers
KFD	Knowledge Fields Development
RISP	Research Infrastructure Support Programme
SARChI	South African Research Chairs Initiative
THRIP	Technology and Human Resources for Industry Programme



DEPARTMENT OF HIGHER EDUCATION AND TRAINING (DoHET) ACCREDITED PUBLICATIONS - 2010

DoHET ACCREDITED PUBLICATIONS - 2010



JOURNAL ARTICLES, 2010

Faculty of Education

Bhana, D. 2010. *Agenda*, "Here in the rural areas they don't say that men and women are equal!" Contesting gender inequalities in the early years, 84

Anderson, BM. 2010. *Agenda*, "You're not a man if you hit a girl": Coloured high-school boys articulating more peaceable expressions of heterosexual masculinity, 83

Harrison, E, McKenna, S, Searle, RL. 2010. *Acta Academica*, I won't be squeezed into someone else's frame: Stories of supervisor selection

Harley, KL, Hugo, W, Wedekind, VR. 2010. *Southern African Review of Education*, A periodical of its time: A brief history of the Journal of Education 1969 - 2009, 16(2)

Anderson, BM. 2010. *Journal of Psychology in Africa*, Coloured Boys Talk: Constructing Heterosexual Masculinities in a Working Class High School Context, 20(4)

Alant, BP. 2010. *Perspectives in Education*, We cross night: Some reflections on the role of the ESKOM Expo for Young Scientists as a means of accommodating disadvantaged learners into the field of Science and Technology, 28(4)

Mbali, VC. 2010. *South African Journal of Higher Education*, Against Journal Articles for measuring value in university output, 24(5)

Rajput, DI, van Deventer, K. 2010. *African Journal for Physical, Health Education, Recreation and Dance (AJPHERD)*, An Epoch of Controversy within Physical Education and Sport in Post-Apartheid South Africa: A Review, 16(1)

Govender, DW. 2010. *Africa Education Review*, Attitudes of students towards the use of a Learning Management system (LMS) in a face-to-face learning mode of instruction, 7(2)

Rule, PN. 2010. *Educational Philosophy and Theory*, Bakhtin and Freire: Dialogue, dialectic and boundary learning,

Maistry, SM. 2010. *South African Journal of Higher Education*, Breaking the back of economic and financial (il)literacy in South Africa: A critical reflection of the role of economic education, 24(3)

Nkosi, PM. 2010. *Agenda*, Bride abduction in KwaZulu-Natal schools and its effects on education, 1(80)

Wedekind, VR. 2010. *Research in Comparative and International Education*, Chaos or Coherence? Further Education and Training College Governance in Post-Apartheid South Africa, 5(3)

Mncube, VS, Harber, C. 2010. *International Journal of Educational Development*, Chronicling educator practices and experiences in the context of democratic schooling and quality education, 30(6)

Van Der Merwe, M, Mberengwa, L, Lekoko, R. 2010. *Journal of Family Ecology and Consumer Sciences*, community empowerment in Botswana: The practitioners' perspective, 38

Mahlomaholo, S, Francis, D, Nkoane, MM. 2010. *South African Journal of Higher Education*, Creating sustainable empowerment learning environment through scholarship of engagement, 24(3)

Bhana, D. 2010. *Agenda*, Deevia Bhana interviews Mbuyiselo Botha, 83

Mncube, VS. 2010. *Journal of Educational Studies*, Editorial, 9(1)

Deacon, RA. 2010. *Focus: The Journal of the Helen Suzman Foundation*, Educating the Educators: Challenges facing Teacher Education and Development in South Africa, 59

Deacon, RA, Osman, R, Buchler, M. 2010. *Journal of Education Policy*, Education Policy Studies in South Africa, 1995-2006, 25(1)

Deacon, RA, Osman, R, Buchler, M. 2010. *South African Journal of Higher Education*, Education Scholarship in Higher Education in South Africa, 1995-2006, 23(6)

Pillay, A. 2010. *South African Journal of Higher Education*, Embracing multiliteracy for teaching and learning in higher education, 24(5)

de Lange, N, Mitchell, CA, Moletsane, RT, Balfour, RJ, Wedekind, VR, Pillay, G, Buthelezi, MT. 2010. *Education as Change*, Every voice counts: Towards a new agenda for schools in rural communities in the age of AIDS, 14(S1)

Stears, M, Gopal, ND. 2010. *South African Journal of Education*, Exploring alternative assessment strategies in science classrooms, 30(4)

Singh, LP, Francis, D. 2010. *South African Journal of Higher Education*, Exploring responses to xenophobia: Using workshopping as critical pedagogy, 24(3)

Paideya, V, Sookrajh, R. 2010. *South African Journal of Higher Education*, Exploring the use of supplemental instruction: Supporting deepunderstanding and higher-order thinking in chemistry, 24(5)

Morojele, PJ. 2010. *Agenda*, Feminism matters in the primary school: A case from Lesotho, 83

Bhana, D, Mthethwa-Sommers, S. 2010. *Agenda*, Feminisms Today: Still Fighting, 83

Stears, M. 2010. *Southern African Journal of Environmental Education*, Fieldwork in Ecology as a Form of Experiential Learning: First-year university students' experiences of a short experiential learning intervention, 27

Chikoko, V. 2010. *South African Journal of Higher Education*, First Year Master of Education (M.Ed.) students' experiences of part-time study: A South African case study, 24(1)

Moletsane, RT, Ntombela, S. 2010. *Agenda*, Gender and rurality in Southern African contexts: An introduction, 84

Muthukrishna, A. 2010. *Gender & Behaviour*, Gender Differences in Mathematics Achievement: An Exploratory study in a primary school in KwaZulu- Natal, 8(2)

Bhana, D, Nzimakwe, TI. 2010. *International Journal of Educational Development*, Gender in the early years: Boys and girls in an African working class primary school

Karlsson, JA. 2010. *Compare*, Gender mainstreaming in a South African provincial education department: a transformative shift or technical fix for oppressive gender relations?, 40(4)

Mackay, JR, Parkinson, J. 2010. *Gender and Education*, Gender, self-efficacy and achievement among South African Technology teacher trainees, 22(1)

Balfour, RJ. 2010. *Journal of Literary Studies*, Home as Postcolonial Trope in the Fiction of V.S. Naipaul, 26(3)

Bansilal, S. 2010. *Education as Change*, How much freedom does a teacher have in designing a learning event when adhering to assessment prescription?, 14(1)

Berkhout, S, Heystek, J, Mncube, VS. 2010. *Africa Education Review*, Imagining the shaping of the reflective deliberative education leaders but finding the devil is in the detail, 7(1)

James, AA, Bansilal, S. 2010. *Indilinga: African Journal of Indigenous Knowledge Systems*, Indigenous Knowledge Practitioners Sustainable Livelihood Practices: A Case Study, 9(1)

Brijlall, D. 2010. *Learning and Teaching Mathematics*, Individualised Teacher Support Intervention-a Case Study, 8(1)

Maistry, SM, Ramdhani, J. 2010. *US-China Education Review*, Integrating social responsibility into an entrepreneurship education programme: a case study, 7(4)

Thomson, CI, Stakhnevich, J. 2010. *Critical Inquiry in Language Studies*, Language practices and perceptions: A case study of six South African teachers, 7(4)

Nkoane, MM. 2010. *South African Journal of Higher Education*, Listening to voices of the voiceless: A critical consciousness for academic industrial complex, 24(3)

Maistry, SM, Ramdhani, J. 2010. *South African Journal of Higher Education*, Managing tensions in a service-learning programme: Some reflections, 24(4)

Ebrahim, HB. 2010. *Journal of Education*, Mapping historical shifts in early care and education in South Africa, 48(-)

Mashiya, JN. 2010. *Alternation: International Journal for the Study of Southern African Literature and Languages*, Mother Tongue Teaching at the University of KwaZulu-Natal: Opportunities and threats, 17(1)

Bhana, D. 2010. *Agenda*, No to bulging stomachs: Male principals talk about teenage pregnancy at schools in Inanda, Durban, 83

Mgqwashu, EM. 2010. *Language Learning Journal*, On becoming literate in English: a during-and post-apartheid personal story, 37(3)

Mncube, VS. 2010. *Education as Change*, Parental involvement in school activities in South Africa to the mutual benefits of the school and the community, 14(2)

Muthukrishna, A. 2010. *Southern African Review of Education*, Performing teaching in the context of HIV and AIDS. A critical review of Jean Baxen's Performative Praxis: Teacher Identity and Teaching in the context of HIV/AIDS, 16(2)

Kazi, HA, Coopoo, Y. 2010. *African Journal for Physical, Health Education, Recreation and Dance (AJPHERD)*, Physical activity, alcohol use, smoking and dietary profiles of a cohort of university students, December 2010(Supplement)

Ebrahim, HB, Killian, BJ, Rule, PN. 2010. *Early Child Development and Care*, Practices of Early Childhood Development Practitioners for poor and vulnerable children from birth to four years in South Africa, DOI: 10.1080/030044309013392602

James, AA. 2010. *Problems of Education in the 21st Century*, Pre-service Student Teacher Professional Development : Research and Service-Learning, 26

Mncube, VS, Naicker, I, Nzimakwe, TI. 2010. *Journal of Educational Studies*, Professional development of school principals in South Africa: Their needs and aspirations, 9(1)

Mbatha, TA. 2010. *Alternation: International Journal for the Study of Southern African Literature and Languages*, Putting the End Point at the Beginning: Teachers' understanding of using Dual Medium approach for Teaching Literacy in Foundation Phase classrooms, 17(1)

Christiansen, IM. 2010. *African Journal of Research in Mathematics, Science and Technology Education*, Reflections on and suggestions for AJRMSTE, 14(3)

Grant, C. 2010. *Southern African Review of Education*, Resilient KwaZulu-Natal schools: An ethics of care, 16(2)

Akoojee, S. 2010. *Southern African Review of Education*, Scarce skills and public technical and vocational education and training in South Africa: Twin challenges or two sides of the same coin?, 15(2)

Deacon, RA, Osman, R, Buchler, M. 2010. *Perspectives in Education*, Scholarship in Teacher Education in South Africa, 1995-2006, 28(3)

Samuel, MA. 2010. *Perspectives in Education*, Searching for a "Pedagogy of Hope": Teacher Education and the Social Sciences, 28(1)

Reddy, S. 2010. *Agenda*, Shifting public/private boundaries: Young womens sexuality within the context of HIV and AIDS in South Africa, 83

Bhana, D, Morrell, R, Shefer, T, Ngabaza, S. 2010. *Culture, Health and Sexuality*, South African teachers' responses to teenage pregnancy and teenage mothers in schools, 12(8)

Mncube, VS. 2010. *Journal of Educational Studies*, Speaking ELAA in forked tongues: dialoguing principals responsibilities and governors experiences, 9(1)

Pattman, RW, Bhana, D. 2010. *Journal of Psychology in Africa*, Sport, Girls, Trouble and Humour: Black and Indian Boys Negotiating Gender, Race and Class in a Formerly White Single Sex School in SouthAfrica, 20(4)

Maistry, SM, Parker, K. 2010. *Africa Education Review*, Teacher efficacy: An investigation of Economics teachers, 7(2)

Grant, C. 2010. *South African Journal of Education*, Teacher leadership: A survey analysis of KwaZulu-Natal teachers' perceptions, 30(3)

Wassermann, JM. 2010. *South African Journal of Cultural History*, The erection and maintenance of monuments to Boer prisoners of war in India 1902-1948, 24(2)

Brijlall, D, Baboolal, D. 2010. *Indian Journal of Pure & Applied Mathematics*, The Katetov-Morita Theorem for the Dimension of Metric Frames, 41(3)

Stears, M. 2010. *Acta Academica*, The meaning of relevant science-what do children regard as relevant?, 42(2)

Manik, S. 2010. *Journal of Social Sciences*, The migration of Indian teachers from KwaZulu-Natal, South Africa to the United Kingdom: Escaping adverse leadership and management, 25(1-2-3)

Mudaly, V. 2010. *African Journal of Research in Mathematics, Science and Technology Education*, The role of visualisation in learners' conceptual understanding of graphical functional relationships, 14(1)

Bansilal, S. 2010. *Pythagoras*, The Use of Real Life Contexts in the CTA: Some unintended Consequences, 69

Mitchell, CA, Dillon, D, Strong-Wilson, T, Pithouse-Morgan, KJ, Islam, F, O'Connor, K, Rudd, C, Staniforth, P, Cole, A. 2010. *Changing English*, Things fall apart and come together: Using the visual for reflection in alternative teacher education programmes, 17(1)

Mudaly, V. 2010. *Pythagoras*, Thinking With Diagrams Whilst Writing With Words(71)

Piper, L, Deacon, RA. 2010. *Local Government Studies*, Too Dependent to Participate: Ward Committees and Local Democratisation in South Africa, 35(4)

Ebrahim, HB. 2010. *Journal of Education*, Tracing historical shifts in early care and education in South Africa, 48

Brijlall, D, Maharaj, A. 2010. *Pythagoras*, Using an Indicative Approach for Definition Making: Monotonicity and Boundedness of Sequences, 70

Maistry, SM. 2010. *Perspectives in Education*, Using cultural capital as a resource for negotiating participation in a community of practice: a case study, 28(3)

De Villiers, MD. 2010. *South African Journal for Science and Technology*, Vanaf die Fermat-punte na die De Villiers-punte van 'n driehoek, 29(3)

Bhana, D, Pattman, RW. 2010. *Ethnicities*, White South African school girls and their accounts of black girls at school and cross-racial heterosexual relations outside school, 10(3)

Bansilal, S, James, AA, Naidoo, M. 2010. *South African Journal of Education*, Whose voice matters? Learners, 30(1)

Ramdhani, J, Nkoane, MM. 2010. *South African Journal of Higher Education*, Why sticks and carrots are only for animals: An exploratory study on self-worth in higher education, 24(3)

Stuart, DJ. 2010. *Agenda*, Youth as knowledge producers: Towards changing gendered patterns in rural schools with participatory arts-based approaches to HIV and AIDS(84)

Engineering

Letcher, TM, Ramjugernath, D, Krolkowski, M, Domanska, U. 2010. *Fluid Phase Equilibria*, (Solid + liquid) and (liquid + liquid) phase equilibria study and correlation of the binary systems {N-butyl-3-methylpyridinium tosylate + water, or + an alcohol, or + a hydrocarbon}, 294

Tlale, N, Bright, G. 2010. *International Journal of Intelligent Systems*, 2 DOF Resolution Adjustment Laser Position Sensor (claimed for in 2009 as a conference proceeding), 8(1-4)

Pegram, GGS. 2010. *Hydrology and Earth System Sciences*, A comparison of ASCAT and modelled soil moisture over South Africa, using TOPKAPI in land surface mode, 14

Lorentz, SA, Kotze, DC. 2010. *Hydrology and Earth System Sciences*, A geophysical analysis of hydro-geomorphic controls within a headwater wetland in a granitic landscape, through ERI and IP, 14(1)

Sahoo, B, De, S, Carsky, M, Meikap, BC. 2010. *Industrial & Engineering Chemistry Research*, Enhancement of Rheological Behavior of Indian High Ash Coal-Water suspension by using Microwave Pretreatment, 49

Krishna, V, Sripriya, R, Kumar, V, Chakraborty, S, Meikap, BC. 2010. *Chemical Engineering and Processing*, Identification and prediction of air core diameter in a hydrocyclone by a Novel Online Sensor based on digital signal processing technique, 49(2)

Kumar, S, Mohanty, K, Meikap, BC. 2010. *Journal of Environmental Protection Science*, Removal of phenol from dilute aqueous solutions in a multi-stage bubble column adsorber using activated carbon prepared from Tamarindus indica wood, 4(1)

Seyoum Workneh, T, Osthoff, G. 2010. *African Journal of Biotechnology*, A review on integrated agro-technology of vegetables, 9(54)

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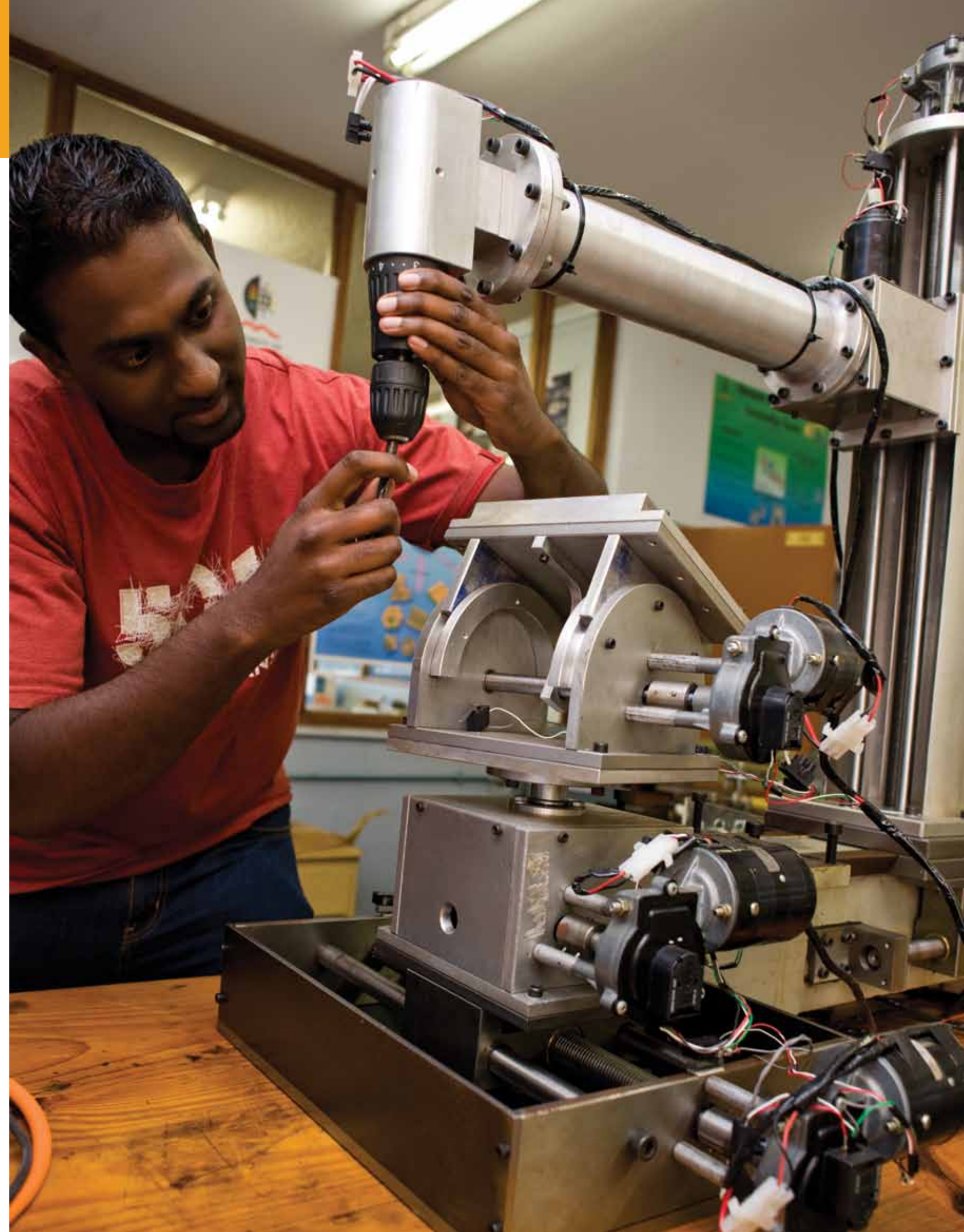
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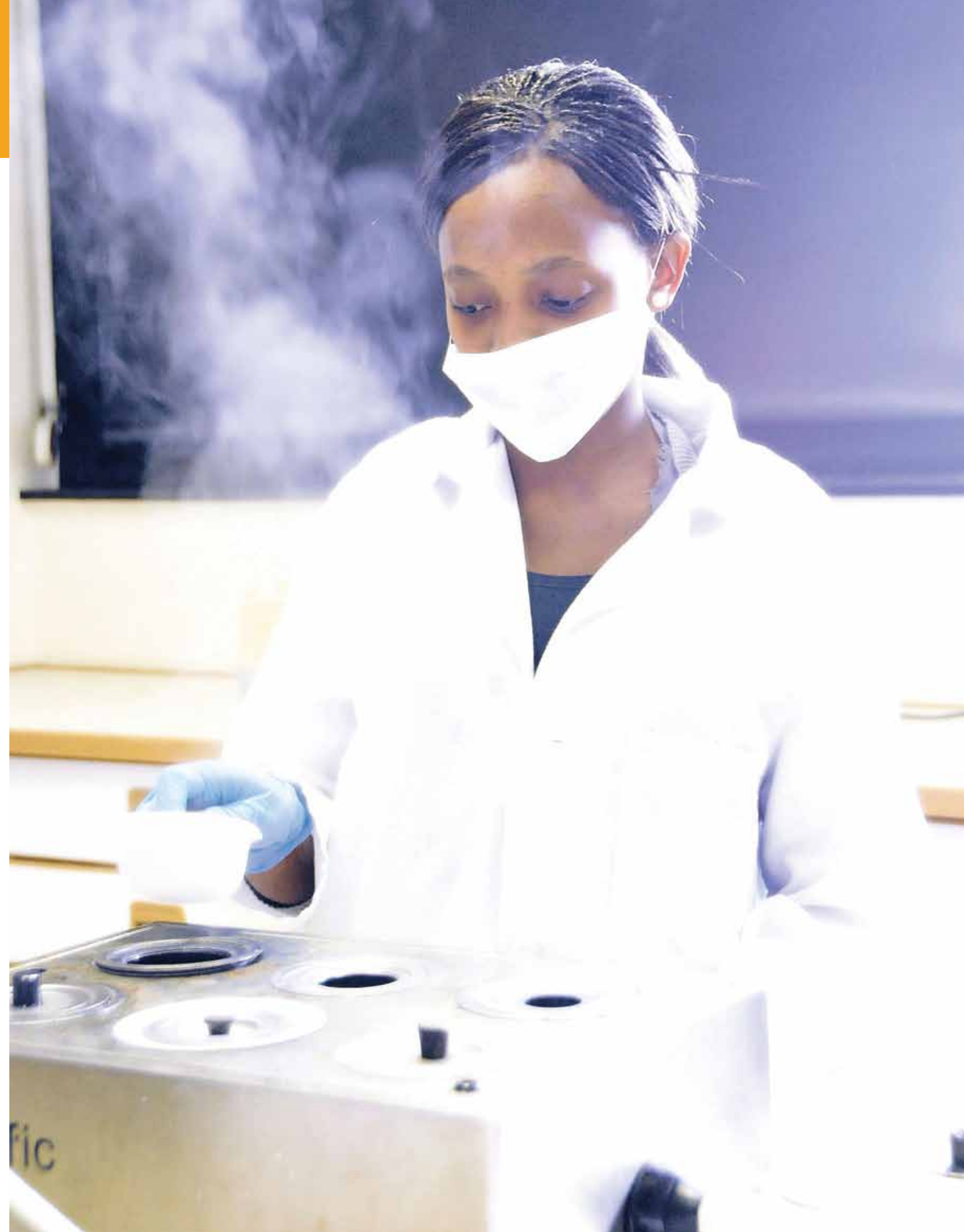
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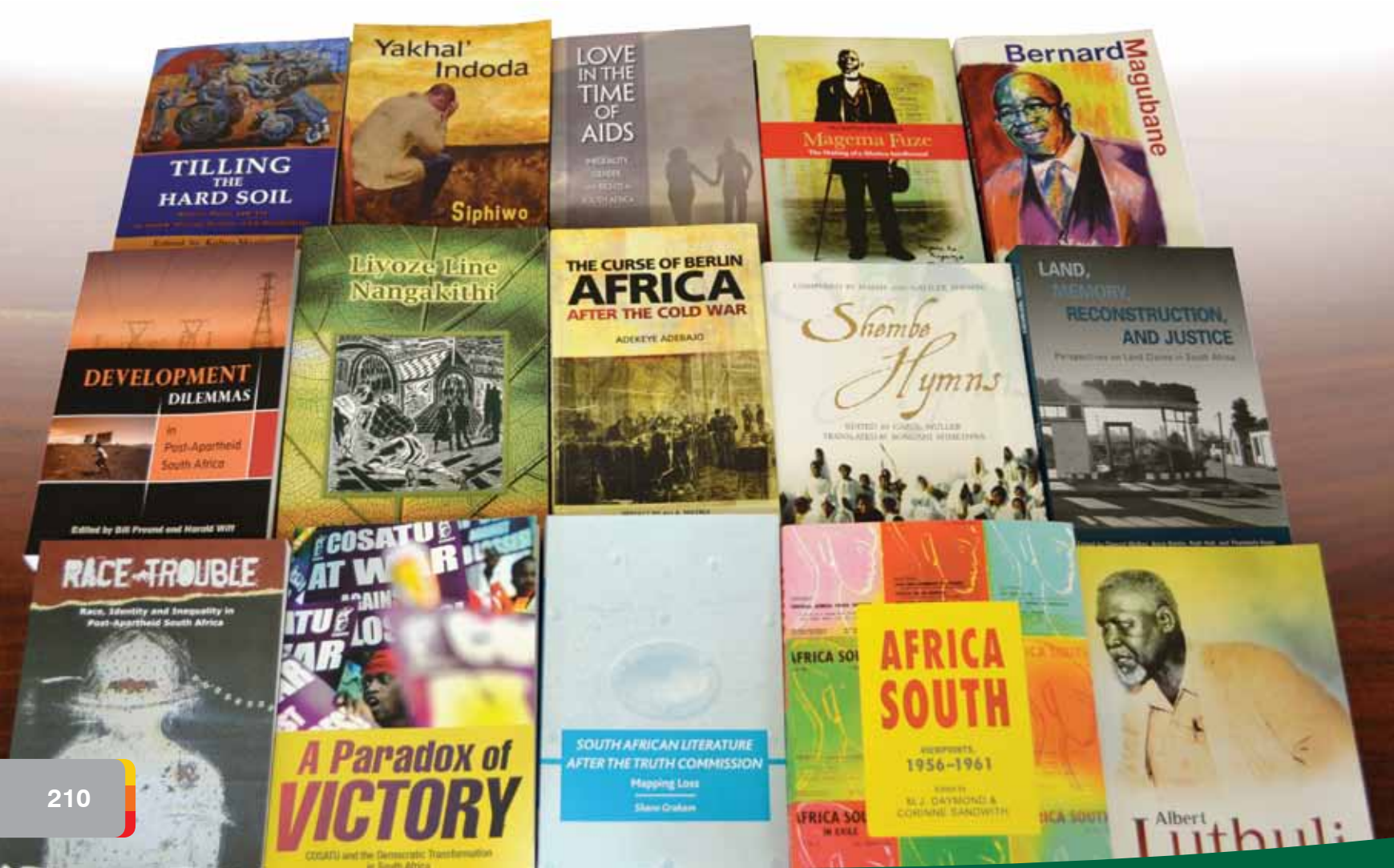
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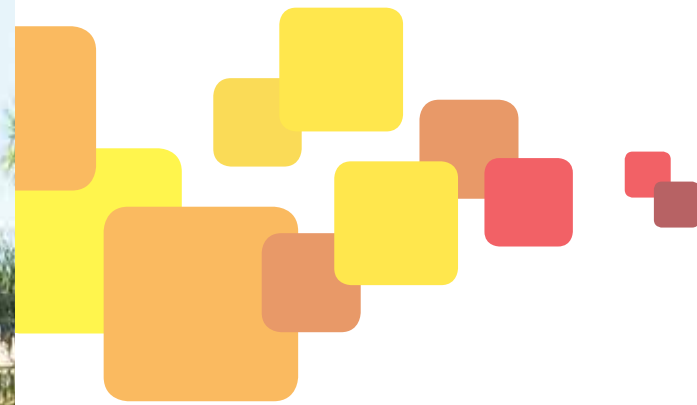
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Produced by:

**The Research Office and Corporate Relations Division
University of KwaZulu-Natal**

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Design and Layout: Brand Partners

**Photography: Anand Govender
Rod Macleod
Independent Newspapers
Lunga Memela
Greg Dardagan**

Printed by: Colour Planet

**Cover: The cover captures the University's commitment to advance
women scientists and features the
University's nine research focus areas.**

ISBN: 978 1 86840 726 2

