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The Premier University of African Scholarship

Professor MW Makgoba
Vice-Chancellor and Principal
The strength of the research endeavour at the University of KwaZulu-Natal is a measure of its success as an institution. The quality of the work done by all its researchers, senior as well as upcoming and younger researchers, in the sciences as well as the wider humanities, gives one ample reason for believing in the future of UKZN as a major South African research university, and one whose larger research endeavour relates both to national research priorities and international developments. Today’s fundamental investigations will provide tomorrow’s knowledge, and it is this that will determine the quality of life for the generations to come, and on which they can base their opportunities and hope for the future.

Research at UKZN provides a unique insight into the ways in which the separate components of the University’s Mission are realised: what it means to be a truly South African University; how academic excellence is premised on innovative research and how this is benchmarked; how research can and should be informed by critical engagement with society; and how scholarship that has been constrained in the past by an oppressive history now needs to be driven by a transformative post-colonial, post-apartheid agenda that addresses the inequities of that past and its many legacies of disadvantage.

I believe that in its real commitment to each of these aspects of the University’s Mission, research at UKZN continues to give meaning and substance to the University’s Vision of being a Premier University of African Scholarship. This is not simply modish rhetoric: African scholarship is what we do, and do best, at UKZN. At its most responsible, such scholarship is conscious of where it is located and explicitly positions itself in relation to the region and the communities that it is engaged with. It is grounded without being parochial, and brings its deep understanding of local conditions and indigenous epistemologies to bear on global issues.

Conversely, its engagement with its immediate social and physical context is also approached through the lens of the best of international knowledge. African scholarship, as practised at UKZN and exemplified by our leading researchers, is both local and global. It is driven by local realities and observations and relates to the challenges we face as a society. It includes among its criteria for excellence those of relevance and benefits for the communities it serves, and it operates in an academic climate of unqualified freedom of inquiry and freedom to publish.

Professor MW Makgoba
Vice-Chancellor and Principal
In 2006/2007 the University of KwaZulu-Natal continued to give meaning and substance to its definition of itself as a research-led university with a vision to be the Premier University of African Scholarship. The University is committed to the practice of scholarship that addresses the inequities of the past and discards irrelevant structures and programmes in favour of more appropriate ones for a democratic, African and South African context. Such scholarship is premised on research that is both local and global in its outlook, research that not only bases itself in an understanding of indigenous knowledges and circumstances from which to investigate global issues but also brings the best international perspectives to bear on its consideration of the region and the communities that it serves.

Leading Research-led South African University

Our claim to being a leading research-led South African university was supported in 2006 and 2007 by a number of clear indicators. The University’s publication output of accredited journal articles, books, chapters in books and refereed conference proceedings has gone from strength to strength since 2004, with the 2007 audit of 1083.71 publication units for 2006 by the Department of Education – the second-highest figure for all universities and science councils in the country - showing a remarkable increase of nearly 50% over the three-year period. This success can be attributed to the University’s strategic drive to encourage all its academics to engage in research and publication, which is supported by a generous productivity award scheme. Interestingly, the Faculties that have made the greatest contribution to the University’s overall publication – in equal portions - are the Faculty of Science and Agriculture and the Faculty of Humanities, Development and Social Sciences.

The University has also distinguished itself in terms of national criteria of research excellence. By 2007, UKZN had secured seven of the prestigious South African Research Chairs in the National Research Foundation South African Research Chairs Initiative. They are Professor Nceba Gqaleni (Chair in Indigenous Health Care Systems), Professor Steve Johnson (Chair in Evolutionary Biology), Professor Sunil Maharaj (Chair in Gravitating Systems), Professor Thumbi Ndung’u (Chair in Systems Biology of HIV and AIDS), Professor Francesco Petruccione (Chair in Quantum Information Processing and Communication), Professor Dorrit Posel (Chair in Economic Development), and Professor Deresh Ramjugernath (Chair in Fluorine Process Engineering and Separations Technology).
Researchers at UKZN have also engaged more fully with the evaluation and rating system of the National Research Foundation (NRF), which provides a benchmark for research standing. By opening themselves to evaluation by their peers, nationally and internationally, researchers at UKZN are now among the relatively small number of rated researchers in South Africa whose work has impact not only in South Africa but also internationally. It is particularly gratifying that more researchers from the humanities and social sciences are participating in the rating scheme. By 2007, 137 academics at UKZN had succeeded in being rated. As an additional incentive to researchers to apply for rating and so further benefit from the funding opportunities that this affords, the University has also introduced a research incentive award for being rated.

The University has moreover become the most successful participant of all South African universities in the NRF Thuthuka Programme. In 2007, the total NRF award amounted to R5,638,810, which was matched by the University with another R5,029,719. Participation in this research capacity development programme has been from across the whole spectrum of the University, and members of staff from most of the Faculties have been recipients of substantial grants from the Thuthuka Programme.

The research success of the University is of course also dependent on the resources made available to its researchers and researchers-in-training by the University itself from the research support budget, which in 2007 amounted to approximately R42 million (including research development equipment). In addition to its Research Incentive Scheme of productivity awards paid directly to researchers for their accredited research publications, the University’s Competitive Grant Scheme is designed to assist members of staff completing their doctoral degrees and also to enable new members of staff to establish themselves as UKZN-affiliated researchers who can then also benefit from the productivity award scheme. On a similar competitive basis, the University’s Postdoctoral Fellowship programme makes provision for long-term, two-year postdoctoral fellowships as well as for shorter-term, six-month postdoctoral grants to enable newly graduated PhDs to convert their theses into publications.

External Grants and Research Centres

The University is reliant for the major source of its research income on external grants and contracts for research projects. In 2007, the Research Office processed new grants and contracts alone to the value of R614 million, many of which also include research training and capacity development. And, once again, the UKZN Foundation managed to raise in excess of R100 million from donors for research and development activities.

Particular research expertise and strength is focused around the many Research Centres, Institutes and Units of the University that engage with the one issue that demands and absorbs, as does perhaps no other, the research expertise of many of the best scientists in Africa and worldwide – in the Humanities, Social Sciences, Public Health, Epidemiology and
Biomolecular Sciences: the HIV and AIDS pandemic that is devastating South African and African society. Professor Salm Abdool Karim’s Centre for the AIDS Programme of Research in South Africa (CAPRISA), with its major external funding and national and international collaborations, provides an example of how scholarship in Africa can draw on and benefit from external resources to develop essential research in a local and global context. The same is true of the Health Economics and AIDS Research Division (HEARD), led by Professor Alan Whiteside, and of the Africa Centre under Professor Marie-Louise Newell.

African Scholarship

South Africans collaborating with other Africans to find solutions to the shared problems of Africa: this is the common denominator of those research groups that grapple with the challenge of meeting the food security needs of our continent and of developing sustainable rural livelihoods. Professor Mark Laing’s Africa Centre for Crop Improvement provides a model for integrating its research on staple foods with the training of postgraduate students from all over Africa, as does Professor Sheryl Hendriks’s African Centre for Food Security, which, with its Africa-wide and international network of partnerships, has been appointed as the Southern African Development Community (SADC) Centre of Excellence for Vulnerability Assessment and Alleviation.

The generation of new knowledge by Africans, about Africans, and for Africans: this scholarly ethos also informs the work of important research centres in the wider humanities at UKZN. The Centre for African Literary Studies, under Professor Mbuwelo Mzamane, on the Pietermaritzburg Campus has been consolidating its research with a programme of workshops and conferences around its unique Lindfors Collection of African literature, an African studies research resource that is unequalled anywhere. The Centre for Civil Society under Professor Patrick Bond, with its programme of research and seminars as well as its outstanding publication output, has become known as the leading academic-based centre in Africa devoted to citizens’ initiatives for social and environmental justice. The Sinomlando Centre for Oral History and Memory Work in Africa, founded by Professor Philippe Denis on the Pietermaritzburg Campus, is dedicated to recovering through oral testimonies the histories of people in all sectors of society, and especially to address through the Memory Box Programme the psycho-social needs of children affected by HIV and AIDS. And the Centre for Critical Research on Race and Identity investigates, under the leadership of Professor Gerhard Maré, issues around race and racism, both under and after apartheid, and the ways in which race and identity are involved in the processes of nation- and citizenship-building.

The concept of African scholarship is given further definition by a wide spectrum of research at UKZN, and comprises amongst others, at the top end of the scale, work as diverse as that of our A-rated researchers: Professor Patricia Berjak, in cyropreservation of seeds and recalcitrant germplasm; Professor Rob Gous, in poultry science, and Professor Michael Chapman, in South African literary studies. African scholarship further encompasses the work of Professor Steve Reid’s Centre for Rural Health; the negotiation between the indigenous knowledge systems of African traditional healers and of Western medical research by Professor Nceba Gqaleni, and the research into the systems biology of HIV and AIDS by Professor Thumbi Ndung’u. It is equally represented by Professor Thenjiwe Magwaza’s expansion of her research into the symbolic significance of the traditional cultural dress of Zulu women into African and international debates about gender and feminism, as well as by Professor Fambirai Takawira’s work on telecommunications in Africa. And in the School of Physics, the Quantum Technologies research group, headed by Professor Francesco Petruccione, is not only contributing to the development of a national profile in quantum technologies but, more immediately, has been involved with the eThekwini Metro Council in rolling out an unbreakable quantum cryptography security system on its IT network. But identification of these scholars is highly selective, even random; many others must remain unmentioned here.

African scholarship is, furthermore, flagged by the titles of the no fewer than 20 accredited scholarly journals edited and published in the College of Humanities (surely no other Faculty, let alone University, in the country can match this?), each of which identifies its disciplinary or interdisciplinary concern from a South African perspective. And an ever-growing body of scholarship that qualifies as having an African focus and orientation is to be found in an extremely wide and diverse range of masters and doctoral research projects being undertaken in all Faculties at UKZN.

The whole research endeavour of UKZN depends not only on the passion for research and the brilliance of the researchers themselves, but also on the dedication of all the administrators, technicians and students who make it possible for the University to maintain its excellent research profile both nationally and internationally. There are, of course, ongoing challenges presented to our researchers, but there are as many opportunities, and the University is committed to providing its researchers with every possible support to realize these.
Local Relevance – International Recognition

Professor TD Chetty

Pro-Vice-Chancellor: Corporate Relations
The vision of UKZN to be the Premier University of African Scholarship has acted as a framework within which to generate high-level knowledge at the local level, and thus enter the global knowledge system on the basis of this local legitimacy. New approaches to developing strategic partnerships have emerged, substantial resources for the performance of research have come into the University through grants and contracts, and a set of research initiatives has been identified that act as the interface between the activities of the University and the needs of development. Examples of such research initiatives are to be found in the fields of HIV and AIDS, Economic Development, Water and Waste Management and Sustainable Rural Livelihoods.

Most significant, however, from the perspective of productivity, is that the research output of the University, in terms of publications recognised for subsidy purposes, has increased significantly over the short life of the institution to the point where UKZN is one of the most respected research institutions in the country. The new University can legitimately claim to be a research-led institution, with a firmly entrenched culture of research grounded in the daily realities facing the citizenry.

Breaking down the apartheid divide through the creation of a unified, stable, financially sustainable and scholastically productive institution has indeed been the success of UKZN. This publication bears testimony to such success by highlighting UKZN’s major research thrusts, top researchers, grants received and presents the full list of 2006 and 2007 accredited publications.
Leading Research Centres
THE CENTRE FOR THE AIDS PROGRAMME OF RESEARCH IN SOUTH AFRICA (CAPRISA)

A multi-institutional team led by Professor Salim Abdool Karim, CAPRISA was founded in July 2002 with funding from the United States National Institutes of Health, by the Universities of KwaZulu-Natal, Cape Town, Western Cape, Columbia University and the National Institute for Communicable Diseases.

CAPRISA’s goal is to develop and undertake globally relevant and locally responsive AIDS research, to build local research infrastructure through cores of expertise and to provide training through research fellowships tenable both in South Africa and the United States. The research programme comprises:

- Epidemiology: Cross-sectional and longitudinal studies on the evolving HIV epidemic, in particular, the risks of incident HIV in young women in rural South Africa.
- Pathogenesis: Longitudinal studies on acute HIV infection, focusing on viral genetics, host genetics, humoral & cellular immunology associated with viral set point and disease progression.
- Prevention: Randomized control trials of the safety and efficacy of Tenofovir microbicide gel and Ad5 Merck vaccine in preventing HIV infection.
- Treatment: Clinical trials to assess strategies for the integration of TB and HIV treatment.

ASTROPHYSICS AND COSMOLOGY RESEARCH UNIT

The Astrophysics and Cosmology Research Unit is a new centre based at UKZN. The broad goals of the Unit are to:

- Promote research in astrophysics and cosmology thereby advancing understanding of the universe and the diverse range of structures it contains.
- Increase awareness of astrophysics and cosmology by informing the public of latest developments in these fields.
The Unit aims to achieve these goals through:

- A strong research programme centred around academic staff, postdoctoral researchers, postgraduate 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 jointly funded the construction of the Southern African Large Telescope (SALT) and is strongly backing the South African bid to host the Square Kilometer Array (SKA). The Unit aims to make a significant scientific contribution to these facilities as well as the national endeavour to advance astronomy.

HEALTH ECONOMICS AND HIV/AIDS RESEARCH DIVISION (HEARD)

Led by Professor Alan Whiteside, HEARD is a self funded Unit. It is a UNAIDS Collaborating Centre and also the Secretariat for the World Bank’s Economic Reference Group. It conducts research on the socio-economic aspects of public health, especially the HIV and AIDS pandemic. Its mission is to inspire health and development strategies that improve the welfare of people in and beyond Africa. To that end, HEARD uses an integrated approach and abides by the ethos of sharing knowledge and transferring skills.

In 2006, HEARD moved from a project to a programme-based research agenda. The two current programmes are:

1. ‘Systemic Interpretations of the Pandemic and Creating Sustainable Response Systems’
2. ‘The Effects of the Pandemic on Vulnerability in Africa, specifically for Children, Women and Families’.

These programmes seek to answer three ‘big’ questions that encapsulate key scientific and practical concerns about development in the context of HIV and AIDS:

1. What are the key driving forces behind the pandemic and its various impacts in Africa?
2. What constitutes effective responses to the pandemic?
3. What does vulnerability mean?

At any one time, HEARD has 20-25 linked projects in progress. The international scope of HEARD’s work is characterised by cross-country studies, its presence on global platforms and, in southern Africa, via a regional research partnership and capacity building network that it has established with other research organisations.

THE AFRICA CENTRE

The Africa Centre has its headquarters at Somkhele within the Hlabisa sub-district under Umkhanyakude District Municipality in northern KwaZulu-Natal. It has access to laboratories and offices based at UKZN’s Doris Duke Medical Research Institute in Durban. Professor Marie-Louise Newell has been at the helm as the Director since 2005. The Centre was established in 1997 by the former University of Natal and the University of Durban-Westville (now UKZN); the South African Medical Research Council, and the UK-based charity, the Wellcome Trust. At its inception, the Centre was created to conduct and support research, addressing pressing population and reproductive health questions affecting people in sub-Saharan Africa. The latter focus changed in 2002, to more accurately reflect the broader range of health research conducted at the Centre. Hence its current name, the Africa Centre for Health and Population Studies.

The Centre’s mission is to conduct policy-relevant health and population research, in an ethical manner, in partnership with the community in which it works and to enhance the capacity of the people of sub-Saharan Africa to do research. Over the past few years, the Centre has started to evolve from a research Centre focused on description to one focused on intervention and treatment. The detailed knowledge of the local population, based on the Africa Centre Demographic Information System that follows 90 000 household members, both resident and non-resident, in addition to the well-resourced Hlabisa Health Sub-district Anti-Retroviral Treatment (ART) programme places the Africa Centre in a unique position to answer its primary research question: What is the long-term impact for the population of a well-functioning and comprehensive ART in a resource-poor, rural setting.
AFRICAN CENTRE FOR FOOD SECURITY

The African Centre for Food Security (ACFS’s) mission is to contribute towards eradicating food deprivation and promoting sustainable livelihoods among people and nations of sub-Saharan Africa. The Centre is the only institution internationally providing accredited capacity development for food security research and policy analysis.

By facilitating and conducting professional training and trans-disciplinary research, and through targeted information dissemination and informed advocacy, the Centre seeks to establish, support and sustain a critical mass of personnel, as well as a network of collaborating institutions and organisations, equipped to lead effective food security policy and practice across the sub-continent. The ACFS is the African Union’s New Partnership for Africa’s Development (NEPAD) lead agency for Food Security and has led the development and consultation of the Comprehensive African Agriculture Development Programme (CAADP) Framework for African Food Security (FAFS) - the policy framework that guides interventions and investment for CAADP Pillar III- and as the lead institution for food security capacity development in SADC.

It is the implementing agency for the Framework for African Food Security (FAFS) and co-ordinates and provides assistance to regional economic commissions and countries in the identification of priorities for food security investment, policy and programming planning, implementation and monitoring through strategic and practical technical support, research evidence building and capacity development. The Centre has the second largest postgraduate programme in the Faculty of Science and Agriculture and has raised R4 915 000 for research and capacity development in Africa over the past year.

THE CENTRE FOR CRITICAL RESEARCH ON RACE AND IDENTITY (CCRRI)

The Centre for Critical Research on Race and Identity facilitates the study of race thinking and changing identities so as to improve understanding of, and stimulate public dialogue about, the various bases for perceptions of human diversity and difference (see http://ccrri.ukzn.ac.za).

The Centre uses South Africa as a complex, multi-layered backdrop to study, and suggest practical solutions to local and global issues of race and identity. Its ultimate goal is to contribute towards social justice and tolerance of human difference, and to confirm and explore that race and identity. Its ultimate goal is to contribute towards social justice and tolerance of human difference, and to confirm and explore that human dignity, the achievement of equality and the advancement of human rights and freedoms” and to “non-racialism and non-sexism”.

By leading a trans-disciplinary research agenda and building durable scholarly capacity, through facilitating and initiating collaborative and comparative, historically-located research, the Centre develops public understanding, stimulates constructive dialogue, and aims to guide policy formulation. It hosts research scholars at its excellent premises, where regular seminars are also held.

The Centre was established on the basis of an extensive prior planning and a feasibility study supported by the Ford Foundation. The University has committed significant resources to ensuring its success.

CENTRE FOR HIV/AIDS NETWORKING (HIVAN)

The research arm of the Centre for HIV/AIDS Networking (HIVAN) is directed by Professor Eleanor Preston-Whyte. It has a varied research profile in the social and community aspects of HIV and AIDS. HIVAN personnel are currently working closely with medical researchers at the McCord Hospital in Overport, Durban, designing projects largely to answer the questions raised by the treatment and care of patients attending the hospital, and particularly those on ARV treatment. Four HIVAN researchers are completing and publishing the findings of their research in rural areas surrounding Durban. The Centre collaborates in most of its studies with international colleagues who assist in training young local researchers with whom HIVAN publishes regularly in South African and international journals.

AFRICAN CENTRE FOR CROP IMPROVEMENT

The vision of the African Centre for Crop Improvement (ACCI) is: Africans solving Africa’s food problems in Africa. The Director of the ACCI is Professor Mark Laing. His research interests include plant breeding, biological control agents and the use of silicon in agriculture. The ACCI funded by AGRA (a consortium of the Rockefeller and the Bill and Melinda Gates Foundations), is a Unit within the Faculty of Science and Agriculture which has a mandate to train 80 African PhD students in plant breeding. These students train for two years at the ACCI, then return home to undertake three years of field research, breeding African food security crops, using conventional and biotechnological tools.

The focus is on the breeding of key food crops (cereals, roots and tubers and pulses) for increased drought tolerance, yield and quality, improving food security in several African countries including Ethiopia, Burkina Faso, Mali, Kenya, Malawi, Mozambique, Rwanda, Tanzania, Uganda and Zambia.
Strategic Initiatives
Strategic research areas have been identified by the University of KwaZulu-Natal. These are areas where expertise has been built up over a long period of sustained research involving multi-disciplinary and international collaborations, and where University researchers have already made an impact on global research trends. These areas are HIV and AIDS, Economic Development, Water, Forestry and Conservation. In addition to these, the full spectrum of research – from curiosity-driven to applications-based and participatory action research – is undertaken at the University. There is a strong emphasis on teamwork. Senior academics take pride in the mentorship they provide to graduate students.
HIV and AIDS

As the pre-eminent academic institution in the epicentre of the HIV epidemic in South Africa, UKZN has taken up the challenge of providing leadership in the response to HIV and AIDS, and of undertaking research to enhance and strengthen the broader societal response to HIV and AIDS. This leadership role in research and a groundbreaking comprehensive AIDS programme for students and staff serve as the cornerstone of the University’s AIDS Plan.
Partnerships include networking and collaborating with AIDS researchers within UKZN, at other South African academic institutions and around the world. In developing partnerships at a global level, the University strives to nurture international institutional partnerships, such as the long-standing relationship with Columbia and Harvard Universities.

The University’s AIDS Strategic Research Initiative includes several well-established HIV research groups and projects:

**HEARD** *(HIV ECONOMIC AND RESEARCH DIVISION):*
Since 1998, HEARD has grown under the leadership of Professor Alan Whiteside to become a well established Unit with several international and local projects that investigate the socio-economic impact of AIDS.

**HAVEG** *(HIV/AIDS VACCINE ETHICS GROUP):*
Based in the School of Psychology and led by Professor Graham Lindegger, HAVEG conducts research and training on the ethical aspects of HIV vaccine trials.

**HIVAN** *(HIV/AIDS NETWORKING CENTRE):*
Headed by Professor Eleanor Preston-Whyte, HIVAN facilitates networking in HIV and AIDS related research and training.

**ECI** *(ENHANCING CARE INITIATIVE):*
Led by Professor Umesh Lalloo, this Unit participates in the NIH-funded network of Units conducting trials of therapeutics for HIV infection and its complications in children and adults. In addition, ECI conducts training programmes for doctors and nurses on clinical AIDS management.

**THE COLUMBIA UNIVERSITY - SOUTHERN AFRICAN FOGARTY AIDS TRAINING AND RESEARCH PROGRAMME:**
This training and research programme, led by Professor Quarraisha Abdool Karim, builds scientific capacity in HIV and AIDS and Tuberculosis research in several countries in Southern Africa to enhance continuing efforts to counter the HIV and AIDS and TB epidemics.

**VICTOR DAITZ CHAIR IN HIV/AIDS RESEARCH:**
The current incumbent in this Chair is Professor Hoosen Coovadia, who is an international leader in mother-to-child transmission of HIV.
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 Research Initiative (EDSRI) is to strengthen and enhance applied and policy-relevant research in the field of economic development.

Initiated in June 2003, the EDSRI is led by Professor Vishnu Padayachee from the School of Development Studies and managed by representatives of Economics and Finance, Sociology, Development Studies, Economic History, Agribusiness, Cultural and Heritage Tourism and 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 the EDSRI and to provide feedback as to how to move the research initiative forward.

Early in 2004 the EDSRI sponsored a Stata 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.

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. This research encompasses the formal and informal economy, the nature of poverty, the characteristics of poor areas, and socio-economic empowerment.
The Soil-Plant-Atmosphere Continuum Research Unit, led by Professor Michael Savage of the School of Environmental Sciences, specialises in micrometeorology and agrometeorology (plant-water and soil-water relations). The Unit has a major research thrust in the investigation of the balance of energy above various surfaces. This internationally-recognised research emphasises the use of various methods for the measurement of evaporation, sensible heat and, more recently, carbon dioxide fluxes above surfaces. Most of this research is funded by the Water Research Commission. The agrometeorological techniques used and research programmes include: evaporation measurement studies, fire ecology, eddy covariance research, surface layer scintillometer research, Bowen ratio research, surface renewal research, the impact of global climate change on maize grain yields, research on systems for the measurement and modelling of surface energy and water transport and radiation in the soil-plant-atmosphere system as well as in-service training programmes.

The Pollution Research Group (PRG) has expanded its activities into municipal water and wastewater management as a result of the Memorandum of Agreement between the eThekwini Municipality Water and Sanitation and the University. The city is the focus of attention of a multi-disciplinary team of engineers, biologists, political scientists and community medical professionals. Activities include 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. The research on the anaerobic baffled reactor process has internationally recognized collaborative research projects being undertaken in South-East Asia and Africa. A UNEP/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. Ongoing research for the Water Research Commission, Eskom and Sasol is continuing.

The School of Biological and Conservation Sciences studies biological limnology with particular reference to man-made lakes and integrated catchment management.

The School of Bioresources Engineering and Environmental Hydrology focuses on process studies, land-use impacts, design hydrology and integrated water resource assessment.

The Institute for Natural Resources (INR) is an associate institute of the University. It provides applied research into and management of water resources, decision support tools for estuaries, fresh water management and water conservation.

In addition to these larger water research groups there are several other initiatives notably on wetlands, community interactions and sanitation, estuary-related research, radar rainfall relationships and flood forecasting, and water and public health.

Research grants in the field of water total about R20 million a year from international funders including the Ford Foundation, the European Union and UNESCO.
South African Research Chairs Initiative (SARChI)
CHAIR IN INDIGENOUS HEALTH CARE SYSTEMS
Professor Nceba Gqaleni
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Leading medical scientist at the Nelson R Mandela School of Medicine, Professor Nceba Gqaleni, occupies the Chair in Indigenous Health Care Systems and conducts basic and applied research into traditional medicine and African Health Care Systems. The Chair will - through research - contribute to developing 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 and AIDS. This service-orientated intervention works with a large group of traditional health practitioners trained at the Medical School to enhance their ability to respond to the HIV and AIDS epidemic.

CHAIR IN FLUORINE PROCESS ENGINEERING AND SEPARATION TECHNOLOGY
Professor Deresh Ramjugernath
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The former Head of the School of Chemical Engineering, Professor Deresh Ramjugernath, has been awarded the Research Chair in Fluorine Process Engineering and Separation Technology. Professor Ramjugernath is contributing to the South African Government’s Fluorine Expansion Initiative (FEI) by researching and developing this country’s fluorinated products including pharmaceuticals and agrochemicals. Although South Africa possesses the second largest supply of fluorspar, it currently imports all its fluorinated products. His activities as the Chair will be directly linked with two major companies: the Nuclear Energy Corporation of South Africa and SASOL.

CHAIR IN GRAVITATING SYSTEMS
Professor Sunil Maharaj
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Award-winning academic, Professor Sunil Maharaj, is the recipient of the Research Chair in Gravitating Systems valued at R12.5 million for a period of five years. Professor Maharaj, the Director of the Astrophysics and Cosmology Research Unit in the School of Mathematical Sciences, focuses his primary research on the modeling of astrophysical processes in stars and the mathematics of large scale dynamics in cosmology. His outstanding contribution 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 evolution of radiating matter.
CHAIR IN SYSTEMS BIOLOGY OF HIV AND AIDS
Professor Thumbi Ndung’u
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The Research Chair in Systems Biology was awarded to molecular virologist, Professor Thumbi Ndung’u of the Nelson R Mandela School of Medicine whose research focuses on biological mechanisms underlying HIV and AIDS pathogenesis. A Harvard graduate, Professor Ndung’u is interested in the development of biomedical interventions which can be used in resource-poor environments to stop the spread of HIV and AIDS. Professor Ndung’u’s work is a research programme that investigates the interplay between human genetic factors, viral factors and the resultant immune responses. In order to develop novel drugs or vaccines, it is important to understand how HIV-1 interacts with the human host, ultimately leading to infection or disease. The research focuses on understanding disease pathogenesis, particularly in the context of the severe HIV epidemic in Africa. He was responsible for the development of the first full-length infectious clone of HIV-1C from Africa - an extremely important reagent for detailed genetic studies of this strain. HIV-1C is the most common strain of the disease.

CHAIR IN EVOLUTIONARY BIOLOGY
Professor Steven Johnson
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Prominent academic and researcher Professor Steven Johnson of the School of Biological and Conservation Sciences has been 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 is focused 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.

CHAIR IN QUANTUM INFORMATION PROCESSING AND COMMUNICATION
Professor Francesco Petruccione
petruccione@ukzn.ac.za

Professor Francesco Petruccione, who is the Director of UKZN’s Research Group on Quantum Technology, is the recipient of the Research Chair in Quantum Information Processing and Communication. The research interests of Professor Petruccione, a highly-acclaimed researcher and the author of several books, include open quantum systems, decoherence, quantum information processing and communication, statistical physics and Monte Carlo methods.
CHAIR IN ECONOMIC DEVELOPMENT

Professor Dori Posel
pose@ukzn.ac.za

Professor Dori Posel hopes to use the opportunities provided by the Research Chair in Economic Development to foster intra- and inter-institutional collaboration, and to strengthen particularly empirical and micro-econometric research skills. Professor Posel has been the recipient of numerous research awards and fellowships including the Vice-Chancellor’s Research Award in 2005 and a P-rating by the NRF in 2001. Her areas of specialisation include migration, labour markets, household behaviour, and household survey design and analysis. She has published widely on research relating to labour migration and remittance behaviour; changes in labour force participation and employment; the determinants of earnings; and intra-household allocation. 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.
NRF – Rated Researchers
PROFESSOR MICHAEL CHAPMAN

Michael Chapman, Professor of English was UKZN’s first NRF A-rated researcher in the arts and social sciences. The rating indicates that Professor Chapman is recognised by his peers as a world leader in his field of South African and African 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) received the prestigious Bill Venter Prize for academic writing.

His most recent book Art Talk, Politics Talk appeared in 2006. As a project of the UKZN-based South African Literary-cultural Group, he is currently editing a collection of essays titled: Postcolonialism: South African Perspectives.

PROFESSOR PATRICIA BERJAK

Professor Patricia Berjak of the School of Biological and Conservation Sciences has worked extensively in the field of seed biology, initially on the mechanics of deterioration of stored orthodox seeds and the problems posed by the inherent xero tolerant mycoflora and for the past 25 years on recalcitrant seeds. Along with her collaborator and husband, Professor Norman Pammenter, and a succession of research students, she has published extensively in the area of recalcitrant seeds.

Professor Berjak’s endeavours have gained her several honours, including recognition by the South African Department of Science and Technology in 2004 as the year’s Distinguished Women Scientist; induction as a Fellow of the Academy of Sciences for the Developing World in 2005; and in 2006, the award of the seldom-bestowed Gold Medal of the South African Association of Botanists. Also in 2006, she was honoured by the award of the National Order of Mapungubwe: Silver, for her contributions to seed science.

Professor Berjak collaborates locally with colleagues at the Universities of the Witwatersrand, and Cape Town and the Wildlife Biological Resource Centre of the National Zoological Gardens in Pretoria. Internationally, she has strong links with the Millennium Seed Bank and the National Center for Genetic Resources Conservation in the United States.

She is also the co-convenor of the series of specialist international workshops on desiccation-tolerance and sensitivity in seeds and vegetative plant tissues.
PROFESSOR ROB GOUS

Respected academic, leading scientist and Research Fellow, Professor Rob Gous of the School of Agricultural Sciences and Agribusiness, was recently awarded the prestigious A-rating status by the NRF following a re-evaluation of his research progress. This is the second time that Professor Gous has received this rating - the first time being 10 years ago. In both instances this has been in recognition of his contribution in the field of poultry science.

Professor Gous’ research over the past 15 years has involved the development of simulation models that predict food intake and growth of broilers and pigs. The simulation models initially provided answers to “what-if?” scenarios, but he and his team have moved on from there and are now optimising 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. These models are being used successfully around the world.

As part of his engagement with the community, Professor Gous is a founder member of the KZN Poultry Institute where the purpose is to train prospective poultry managers by providing them with the skills needed to manage people, finances, poultry operations and even themselves! Professor Gous has been chairman of the SA Branch of the World’s Poultry Science Association for many years and was recently elected Senior Vice-President of the world body of the Association, having previously served in that position from 2000 to 2004.

PROFESSOR LAWRENCE HAMILTON

Professor Lawrence Hamilton, a graduate of Cambridge University in the United Kingdom, and previously Mellon Research Fellow at Clare Hall, Cambridge, is an Associate Professor in the School of Politics at the Howard College campus. He is also an Affiliated Lecturer in Political Theory in the Department of Politics, Cambridge. In 2007-08 he is Visiting Fellow at Clare Hall, Cambridge. He has been the recipient of a number of awards for his academic scholarship: the Cambridge Gladstone Memorial Prize, the Mandela Cambridge Scholarship; the Cambridge Political Economy Society Trust Award; the UKZN Book Prize (2004), for his book, The Political Philosophy of Needs (Cambridge University Press, 2003 [2007]); a UKZN Competitive Research Grant (2004); the South African National Research Foundation Presidents’ Award (2006-7) – an award of five years research funding for outstanding research achievements among young researchers, and he has recently been rated as one of the top 12 young political theorists worldwide.

Besides his book, he has also published a large number of journal articles and book chapters on a variety of topics within contemporary political philosophy, the history of political thought, political economy and South African politics. His research interests include various aspects of contemporary political philosophy, such as political judgment, needs, rights, states, markets and constitutionalism; the political thought of Aristotle, Machiavelli, Hobbes, Rousseau, Hume, Smith,
Hegel, Proudhon and Marx; the history of imperialism; and South African politics and political economy, particularly land reform, the constitution of 1996, public debt, power and sovereignty. He has been invited to discuss his research with radio, internet and conference audiences in Sweden, Germany, France, the United Kingdom, the United States, Brazil and South Africa. He is currently writing a book on political judgement, provisionally entitled, *Human Needs and Political Judgement*.

His more recent research collaborations include the following: in 2007 he was invited to co-edit an issue of *Constellations* (one of the top five political theory journals worldwide) on *Economic Necessity* with Professor Sonja Amadae of the University of Ohio, for which he will also write an article. He recently completed a paper with Professor Nicola Viegi of the University of Cape Town on “Public Debt in South Africa”, which has been presented in Cambridge and at UKZN. He is an editor of *Theoria*, an international, peer-reviewed journal in social and political theory based in South Africa, and he has refereed for many of the leading journal and book publishers in Politics, Economics and Philosophy.

**DR SERBAN PROCHES**

Dr Serban Proches, a Senior Lecturer in Biogeography in the School of Environmental Sciences at the Westville campus, hails from Romania where he studied up to Masters level and worked at the National Museum of Natural History in Bucharest. He moved to South Africa in 1999 and was awarded a PhD from the then University of Durban-Westville in 2002. He completed a number of postdoctoral projects at the University of Port Elizabeth (2002-2004), the University of Stellenbosch (2005-2006) and the Pietermaritzburg campus of the University of KwaZulu-Natal (2007).

His research focuses on patterns of species distribution and diversity in southern Africa and globally, but his work also includes new species descriptions and studies of ecological interactions. He has studied groups of organisms as diverse as flowering plants, insects, mites and vertebrates in both marine and terrestrial environments. Dr Proches conducted field work across southern Africa, Europe, the Middle-East and South-East Asia. However, some of his recent studies had a desktop focus, looking at the quantification of food plant diversity, and species name representation on the internet and in the scientific literature.

He has authored more than 40 scientific publications, some of which appeared in top international journals such as *Nature* and *Science*. He was appointed Associate Editor of the *Journal of Biogeography* in 2007. His main collaborators to date (five or more co-authored papers) are Professor David Marshall of the Universiti Brunei Darussalam; Professor Richard Cowling of the Nelson Mandela Metropolitan University, and Professor Dave Richardson and Dr John Wilson of Stellenbosch University.
Professor CT Downs engaged in fieldwork on the Cape Parrot
Poicephalus robustus of Marutswa Forest, Bulwer, KZN.
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

FACULTY OF ENGINEERING

ADALI, S, Professor [B1] Mechanical Engineering
BOJE, ES, Professor [C1] Electrical, Electronic and Computer Engineering
BRIGHT, G, Professor [C2] Mechanical Engineering
CARSKY, M, Professor [C3] Mechanical Engineering
EITELBERG, EV, Professor [B3] Electrical, Electronic and Computer Engineering
GOVENDER, S, Professor [Y1] Mechanical Engineering
MOROZOV, EV, Professor [B2] Mechanical Engineering
PEGRAM, GGS, Professor [C2] Civil Engineering
RAMJUGERNATH, D, Professor [Y2] Chemical Engineering
SCHULZE, RE, Professor [B2] Bioresources Engineering and Environmental Hydrology
VERJENKO, VE, Professor [B2] Mechanical Engineering
VON KLEMPERER, CJ, Dr [Y2] Mechanical Engineering

FACULTY OF SCIENCE AND AGRICULTURE

ARIATTI, M, Professor [C2] Biochemistry, Genetics and Microbiology
BABOOLAL, D, Professor [C1] Mathematics and Applied Mathematics
BECKETT, RP, Professor [B3] Biological and Conservation Sciences
BERJAK, P, Professor [A2] Biological and Conservation Sciences
BHARUTH-RAM, K, Professor [B2] Physics
BOB, U, Professor [C3] Mechanical Engineering
BURNETT, WA, Dr [C2] Biological and Conservation Sciences
COETZER, THT, Professor [B3] Biochemistry, Genetics and Microbiology
COULING, VW, Dr [C2] Physics
DALE, AI, Professor [C1] Mathematics and Applied Mathematics
DANKELMANN, PA, Professor [B3] Mathematics and Applied Mathematics
DE LANGE, OL, Professor [C1] Chemistry
DENNISON, C, Professor [C1] Biochemistry, Genetics and Microbiology
DIAB, RD, Professor [B3] Environmental Science
DOWN, CT, Professor [C2] Biological and Conservation Sciences
DOYLE, TB, Professor [C1] Physics
ERWIN, DJ, Dr [Y2] Mathematics and Applied Mathematics
FORD, TA, Professor [B2] Chemistry
FRIEDRICH, HB, Professor [C2] Chemistry
GOLDRING, JPD, Professor [C2] Biochemistry, Genetics and Microbiology
GOUS, RM, Professor [A2] AgriScience and Agribusiness
GOVINDER, KS, Professor [C3] Mathematics and Applied Mathematics
GREEN, JM, Professor [C3] Community Resources
GUTEV, VG, Professor [B1] Mathematics and Applied Mathematics
HAMER, ML, Professor [C2] Biological and Conservation Sciences
HART, RC, Professor [B3] Biological and Conservation Sciences
HELLBERG, MA, Professor [B1] Physics
HENNING, MA, Professor [B1] Mathematics and Applied Mathematics
HEY, JD, Professor [B2] Physics
HUGHES, ARW, Professor [C2] Physics
HUGHES, JC, Professor [C2] Biological and Conservation Sciences
JAGANYI, D, Professor [C2] Chemistry
JOHNSON, SD, Professor [B1] Biological and Conservation Sciences
JONNALAGADDA, SB, Professor [C2] Chemistry
KIOKO, JI, Dr [Y2] Science Access
KRUGER, HG, Dr [C2] Chemistry
LAING, MD, Professor [C3] African Centre for Crop Improvement
LAWES, MJ, Professor [C2] Biological and Conservation Sciences
LEACH, PGL, Professor [B1] Mathematics and Applied Mathematics
LLOBELL, A, Dr [C2] African Centre for Crop Improvement
LOVEGROVE, BG, Professor [B2] Biological and Conservation Sciences
MACE, RL, Dr [C2] Physics
MAHARAJ, SD, Professor [B3] Mathematics and Applied Mathematics
MAHARAJ, B, Professor [C2] Environmental Science
MARTINCIGH, BS, Professor [C2] Chemistry
MCCOURT, S, Professor [C3] Environmental Science
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**COLLEGE OF HEALTH SCIENCES**

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<td>BOND, P</td>
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**College of Law and Management Studies**

**Faculty of Law**
- MCQUOID-MASON, DJ, Professor [B1]  
  Law
- MUBANGIZI, JC, Professor [C2]  
  Law

**Faculty of Law and Management Studies**
- HARRIS, GT, Professor [C1]  
  Economics and Finance
- WHITESIDE AW, Professor [C1]  
  Health Economics and HIV/AIDS Research Division (HEARD)
In addition to the major contributions of our NRF-rated researchers and the prodigious publication output of our most accomplished researchers, the University’s future research is being mapped out by researchers who are beginning to make significant contributions to their particular fields of study. Some of these scientists extend the University’s existing strengths in medicine and the sciences, especially those related to agriculture and the environment. But there are others whose work extends into the social, cultural and metaphysical spheres. Featured here are 21 promising researchers.

**DR BUSISIWE ALANT**  
School of Science, Mathematics and Technology Education

**PROFESSOR PRECIOUS SIBANDA**  
School of Mathematical Sciences

**DR BUSISIWE NCAMA**  
School of Nursing

**PROFESSOR RICHARD NAIDOO**  
Pfizer Molecular Biology Research Facility

**DR BRENDA MOODLEY**  
School of Chemistry

**DR GLENN MAGUIRE**  
School of Chemistry

**DR MARIANA CiaciarelliLO**  
School of Agricultural Sciences and Agribusiness

**Mr MICHAEL BROOKS**  
School of Mechanical Engineering

**DR THAVENDRAN GOVENDER**  
School of Pharmacy and Pharmacology
PROMISING RESEARCHERS

PROFESSOR PRASHINI MOODLEY
Medical Microbiology

PROFESSOR THOMAS KONRAD
School of Physics

PROFESSOR NHLANHLA MKHIZE
Head, School of Psychology

DR PARAMESPRI NAIDOO
School of Chemical Engineering

PROFESSOR ALBERT THEBINKOSI MODI
School of Agricultural Sciences and Agribusiness

MS SUMAIYA JAMAL
School of Biochemistry, Genetics and Microbiology

MR MICHAEL QUAYLE
School of Psychology

MR PATRICK GOVENDER
School of Biochemistry, Genetics and Microbiology

DR KAVILAN MOODLEY
School of Mathematical Sciences

PROFESSOR MICHAEL KIDD
Deputy Dean, Faculty of Law

DR AUGUSTINE GUBBA
School of Agricultural Sciences and Agribusiness (SASA)

DR NEIL KOORBANALLY
Assistant Dean, Faculty of Science and Agriculture, Senior Lecturer (Organic Chemistry), School of Chemistry
Doctoral Graduates
FACULTY OF EDUCATION

DOCTOR OF EDUCATION

Bhagowat, Latchmie, BPaed, BEdHons, MEd
Thesis: To Lead or not to lead: The Principal as a leader in a climate of school transformation
Supervisor: Dr P Ramrathan

Jacobs, Cecilia, BA, HDE, MEd(CapeTown)
Thesis: Negotiated understandings of the academic literacy practices of tertiary educators
Supervisor: Professor MA Samuel

Khoboli, Benedict Mapere, BSc, MSc(Reeding)
Thesis: Changes in Science teachers’ practices of learner-centred education as a result of action research in Lesotho
Supervisor: Professor CK Malcolm

Mokobocho-Mohlakoana, Karabo Mabahlakoana, BSc(Illinois), PGCE(Lesotho), MSc(Reeding)
Thesis: Pregnant at the wrong time: experiences of being a pregnant young woman while school – selected Lesotho cases
Supervisor: Dr S Singh

Mudaly, Ronicka, BPaed, BEdHons(UNISA), MEd
Thesis: Empowering Secondary School’s practices of learner-centred education as a result of action research in South Africa
Supervisor: Professor R Sookraj

Maistry, Suriamurthee, BCom, BComHons, BEdHons, MEd
Thesis: Teacher learning in a community of practice: a case study of teachers of Economics and Management Sciences
Supervisor: Professor KL Harley

Naidoo, Devika Rani, BPaed, BA, Hons(UNISA), BEdHons, MEd
Thesis: Curriculum, context and identity: An investigation into the curriculum practices of Grade 9 teachers in three contrasting socio-economic school contexts
Supervisor: Professor KL Harley

Supervisor: Professor R Sookraj

Ramklaas, Serela Samita, BPhys, MEd
Thesis: The Physiotherapy Undergraduate Curriculum: A case for professional development
Supervisors: Professor R Vithal and Professor K Kathard

Singh, Selvia Kista, BA HDE, BA Hons(UNISA), MEd
Thesis: Violence in schools: a recipe for disaster
Supervisor: Dr P Ramrathan

DOCTOR OF PHILOSOPHY

Chikoko, Vitalis, DipEdTech, BEdHons, Med (Zimbabwe)
Thesis: Negotiating roles and responsibilities in the context of decentralised school governance: A case study of one cluster of schools in Zimbabwe
Supervisor: Professor RT Moletsane

Grossi, Edwina Theresa, DipRemedial Ed(RAU), DipEducation(College), BEdHons
Supervisor: Professor N de Lange

Kajee, Leila, BPaed, BA Hons(UNISA), MEd
Thesis: Negotiation, participation, and the construction of identities and autonomy in online communities of practice: A case study of online learning in English at a university in South Africa
Supervisor: Professor R Balfour

Moorosi, Pontso Christine, BA(Lesotho), BEdHons, MEd
Thesis: Policy and practice related constraints to increased female participation in Education management in South Africa
Supervisor: Dr V Wedekind

Naidoo, Devika Rani, BPaed, BA Hons(UNISA), BEdHons, MEd
Thesis: Curriculum, context and identity: An investigation into the curriculum practices of Grade 9 teachers in three contrasting socio-economic school contexts
Supervisor: Professor KL Harley
Ngcobo, Thandi Moira, BA(Zululand), BEdHons, MEd(Rhodes)
Thesis: The relationship between academic performance, school culture and school leadership in historically disadvantaged African township secondary schools: implications for leadership
Supervisor: Professor KL Harley

Sathiparsad, Reshma, BASocWk, BAHons SocWk(UNISA), MSocSc
Thesis: Gender-based violence and masculinity: A study of rural male youth
Supervisor: Professor C Mitchell

FACULTY OF ENGINEERING
DOCTOR OF PHILOSOPHY

Huang, Tzu-Hua, BScEng
(Chemical Engineering)
Thesis: A computational fluid dynamic and experimental study of an ozone contactor
Supervisors: Professor C A Buckley and Mr C J Brouckaert

Lecler, Neil Louis, MScEng
(Agricultural Engineering)
Thesis: Performance of irrigation and water management systems in the lowveld of Zimbabwe
Supervisors: Professor R E Schulze and Professor J C Smithers

Mariah, Lynette, BScEng
(Chemical Engineering)
Thesis: Membrane distillation of a concentrated mixed brine
Supervisors: Professor C A Buckley, Mr C J Brouckaert and Professor D Jaganyi

McKnight, Tyrone James, BScEng
(Chemical Engineering)
Thesis: Molecular simulation of pure component and binary vapour-liquid equilibrium using linux Beowulf clusters
Supervisors: Professor D Ramjugernath, Professor M Starzak and Professor K Bolton

Ngatched Nkouatchah, Telex Magloire, MScEng
(Electronic Engineering)
Thesis: Compound codes based on irregular graphs and their iterative decoding
Supervisor: Professor F Takawira

Okonta, Felix Ndubisi Henry, MEng (Nigeria)
(Civil Engineering)
Thesis: Capacity of vertically loaded piles in low density sands
Supervisor: Professor H D Schreiner

Vugampore, Jean-Marie Varney, MScEng (Moscow)
(Mechanical Engineering)
Thesis: Development of high strength material for aircraft bolt
Supervisors: Dr B Verijenko and Professor V E Verijenko

FACULTY OF HEALTH SCIENCES
DOCTOR OF PHILOSOPHY

Chetty, Ravani, BSocSc(N), BSocScHons, MCur
(Nursing)
Thesis: Maternity Care in KwaZulu-Natal: Towards a Grounded Theory of Adolescent-Friendly Maternity Services
Supervisor: Professor NO Adejumo

Irinoye, Omolola Oladunni, BSc Nur, MSc Nur, MSc
(Nursing)
Thesis: The Conceptions of Sexual Relationships Among the Yoruba People in Nigeria
Supervisor: Professor LR Uys

Kamanzi, Gapira Désiré, B Public Health, MN(CommunHealth)
(Nursing)
Supervisor: Professor LR Uys

Libetwa, Miriam, Dip In Nurs(Zambia), Deg In Nurs(Zambia), MPH (Zambia)
(Nursing)
Thesis: Development and Implementation of a Staff Development Plan for Nurses in One District in Zambia Based on a Learning Organization Approach
Supervisor: Professor NO Adejumo

Mustafa, Najah Mohammed Saad, Baccalaureus Curationis(University of)
(Nursing)
Thesis: Process of Change in Nursing Education in the Arab Gulf Region
Supervisor: Professor NS Gwele
Voce, Anna Silvia, AdvDip(AdEd)(Natal), MN(CommunHealth) (Liverpool) (Nursing)
Thesis: The Development of a District-Based Model of Intervention for Improving the Quality of Maternal Health Care at Primary Level
Supervisor: Professor LR Uys

NELSON R MANDELA SCHOOL OF MEDICINE

DOCTOR OF PHILOSOPHY

Naidoo, Strinivasen, BSc(UW), MTech(MLST) (Clinical Pharmacology)
Thesis: The Regulations of kinins in endothelial cells with an in vitro model of angiogenesis
Supervisors: Professor D Raidoo and Professor M McLean

FACULTY OF MANAGEMENT STUDIES

DOCTOR OF ADMINISTRATION

Waterman, Nicholas, BScHons(PolyTech Lond), MA(Weberhampton)
Thesis: Commercial Sex Work in Maseru: An exploratory study of Public policy-making in Lesotho
Supervisor: Dr Y Pencelliah

DOCTOR OF BUSINESS ADMINISTRATION

Bob, Roshini, MBA, DipMgt Stud, PGCertMgt (Buckinghamshire)
Thesis: Women in Management: A comparative study of the Public (Education) and Private (Banking) sectors in Durban
Supervisor: Professor D V Soni

Naidoo, Pravine, BProc,MBA(Business School Netherlands International)
Supervisor: Professor P S Reddy

DOCTOR OF PHILOSOPHY

Steytler, John Frederick, BA(UNA), MCom(Merbur), MSc(London) (Economics)
Supervisor: Professor M Holden

Thurlow, James Marcus, BSc,BScHons,MCom (Economics)
Thesis: Trade liberalisation and poverty in South Africa: A computable general equilibrium and micro-simulation analysis of past and potential trade policies
Supervisor: Professor M Holden

FACULTY OF HUMANITIES

DOCTOR OF PHILOSOPHY

Burelli, Elaine, MA (Culture, Communication & Media Studies)
Thesis: Crime and punishment on the SABC: Documentary in the global era
Supervisor: Professor RE Teer-Tomaselli

Chachage, Bukaza Loth, MA(Dar es Salaam) (Information Studies)
Thesis: Developing a model for a corporate records management system with special reference to sustainability reporting in Iringa Region, Tanzania
Supervisors: Dr P Ngulube and Professor C Stilwell

Chellan, Noel, MA (Geography)
Thesis: An examination of the social, economic and environmental impacts of ecotourism: Case studies of the St Lucia area and the uKhahlamba-Drakensberg region in South Africa
Supervisor: Professor U Bob

Chetty, Suryakanthie, MA (History)
Thesis: ‘Our victory was our defeat’: Race, gender and liberalism in the Union Defence Force, 1939-1945
Supervisor: Dr M du Toit
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Program</th>
<th>Thesis</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chirkut, Sheila, MA</td>
<td>Gender Studies</td>
<td>The cultural identity and self-perception of Stanger working Hindu married women in relation to religio-cultural festivals</td>
<td>Dr T Magwaza</td>
</tr>
<tr>
<td>Demmer, Craig, BSocScHons(Natal), MA(Cuny), EdD(Columbia)</td>
<td>Social Work</td>
<td>AIDS-related bereavement in the South African context: A study of KwaZulu-Natal, Durban</td>
<td>Professor V Sewpaul</td>
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<tr>
<td>Foko, Thato Emmanuel, MA</td>
<td>Digital Media</td>
<td>The role of computer games and social constructivism in skills development of learners from different educational backgrounds</td>
<td>Professor A Amory</td>
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<tr>
<td>Gumede, Nompumelelo Patience, BA(Hons)(Pret), MA</td>
<td>Geography</td>
<td>Rural women, technology and indigenous knowledge systems in South Africa: Case studies from KwaZulu-Natal</td>
<td>Professor U Bob</td>
</tr>
<tr>
<td>Harrison, Phillipa Anne, MA</td>
<td>Geography</td>
<td>The role of tourism in natural resource management in the Okavango Delta, Botswana</td>
<td>Professor B Maharaj</td>
</tr>
<tr>
<td>Kabigumila, Simeon Kajelero, MTh</td>
<td>Theology</td>
<td>Conversion and revival: A critical analysis of the revival movement among Lutheran Christians in the North Western diocese of the Evangelical Lutheran Church in Tanzania</td>
<td>Professor AO Balcomb and Dr MD Biyela</td>
</tr>
<tr>
<td>Kalabamu, Faustin TiniruKwka, MPhil(Edin), Cert Hsing(Oxford Polytechnic)</td>
<td>Housing/Planning</td>
<td>Changing roles of women in housing processes and construction: The case of Lobatse Township, Botswana</td>
<td>Professor A Adesayo</td>
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<tr>
<td>Kalengo, Edison Muhindo, MPhil(Nottingham)</td>
<td>Theology</td>
<td>Sacrifice in Hebrews 9:1 – 10:18 and Ganda sacrifice: A study in relation to the Christian sacrament of the Eucharist</td>
<td>Professor JA Draper</td>
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<tr>
<td>Kumalo, Raymond Simanga, MTh(UNISA)</td>
<td>Theology</td>
<td>Theology and education: The role of the church in education for social transformation: A methodist contribution</td>
<td>Professor SM de Gruchy</td>
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<tr>
<td>Laryea, Philip Tetteh, MTh</td>
<td>African Christianity</td>
<td>Christianity as vernacular religion: A study in the theological significance of mother tongue apprehension of the Christian faith in West Africa with reference to the works of Ephraim Amu</td>
<td>Professor K Bediako</td>
</tr>
<tr>
<td>Mdegella, Owdenburg Moses, MTh(FullerTheolSem,Tanzania)</td>
<td>Theology</td>
<td>Authenticity of Christian conversion in the African context: An investigation into the rationale for the Hehe to convert to Christianity with special reference to the Iringa Diocese of the Evangelical Lutheran Church in Tanzania (1899-1999)</td>
<td>Professor AO Balcomb</td>
</tr>
<tr>
<td>Moorgawa, Premanund, MA(Brighton)</td>
<td>Digital Media</td>
<td>Development of a model for the professional development of primary school teachers in Mauritius</td>
<td>Professor A Amory</td>
</tr>
<tr>
<td>Ngcongo, Mxolisi Lovelace, MA</td>
<td>Sociology</td>
<td>A sociological study of sex education in a primary school</td>
<td>Professor EA Mantzaris and Dr S Reddy</td>
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<tr>
<td>Nhlumayo, Victor Bafikile, MA</td>
<td>IsiZulu</td>
<td>Ucwangino ngolimi lwesigodi isiCele</td>
<td>Dr NP Ndimate</td>
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<tr>
<td>Name</td>
<td>Degree/Affiliation</td>
<td>Thesis</td>
<td>Supervisor(s)</td>
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<tr>
<td>Nolte-Schamm, Claudia Margarethe</td>
<td>MA(Grad.Theol. Union, California)</td>
<td>A comparison between Christian and African traditional paradigms of reconciliation and how they could dialogue for the benefit of South African society</td>
<td>Professor AO Balcomb</td>
</tr>
<tr>
<td>Omar, Salmin Idruss</td>
<td>LLM(Malaysia) (Religion and Culture)</td>
<td>The impact of the promotion of alcohol consumption on poverty alleviation in Malawi: An Islamic solution</td>
<td>Professor SE Dangor</td>
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<tr>
<td>Ozodi, Christopher Chinedu</td>
<td>MTh (Theology)</td>
<td>Clinical pastoral education for Igbo society: A cross cultural model for a family/community-based educational process in pastoral care</td>
<td>Dr ED Ward and Professor IA Phiri</td>
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<tr>
<td>Radebe, Joseph</td>
<td>MA (Sociology)</td>
<td>Community-based tourism in KwaZulu-Natal and its impact on the local people</td>
<td>Professor EA Mantzaris and Dr MSE Vawda</td>
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<tr>
<td>Raju, Rajandren</td>
<td>MIS (Information Studies)</td>
<td>Unionising library and information staff in the tertiary sector: a feasibility study</td>
<td>Professor C Stilwell and Mr AB Leach</td>
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<td>Ramanna, Nishlyn</td>
<td>BMus (Music)</td>
<td>Jazz discourse: A contextualised account of contemporary jazz in post-apartheid Durban and Johannesburg</td>
<td>Professor CJ Ballantine</td>
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<tr>
<td>Rudwick, Stephanie Inge</td>
<td>MA (Munich) (Linguistics)</td>
<td>Language, identity and ethnicity in post-apartheid South Africa: The Umlazi Township community</td>
<td>Professor N Kamwangaamalu</td>
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<tr>
<td>Sandwith, Corrine Lynette</td>
<td>MA (English Studies)</td>
<td>Culture in the public sphere: Recovering a tradition of radical cultural-political debate in South Africa, 1908-1960</td>
<td>Professor MJ Daymond</td>
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<tr>
<td>Seedat, Mariam</td>
<td>MSocSc (Sociology)</td>
<td>A sociological investigation into the socialization process of the female African domestic worker in the Durban Metropolitan region</td>
<td>Dr L-HP Stears</td>
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<tr>
<td>Shangase, Sibusiso Elphus</td>
<td>MA (isiZulu)</td>
<td>A historical perspective and linguistic analysis of onomastic elements with special reference to the Shangase clan</td>
<td>Professor SE Ngubane</td>
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<tr>
<td>Stobie, Cheryl</td>
<td>MA (English Studies)</td>
<td>Somewhere in the double rainbow: Representations of bisexuality in selected post-apartheid South African novels</td>
<td>Professor JU Jacobs</td>
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<tr>
<td>Warmback, Andrew Edward</td>
<td>BCom, BDiv (Rhodes) (Theology)</td>
<td>Constructing an Oikotheology: The environment, poverty and the Church in South Africa</td>
<td>Professor SM de Gruchy</td>
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<tr>
<td>Waweru, Humphrey Mwangi</td>
<td>MTh (Theology)</td>
<td>A critical analysis of the vision of the New Jerusalem in Revelation 21:9-22:5 in light of the Kikuyu concept of dreams and visions</td>
<td>Professor P Decock and Professor JA Draper</td>
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<tr>
<td>Willis, Owen</td>
<td>MSc(Leicester) (Theology)</td>
<td>Like ships passing in the day: The interface between religion and international development in the programmes, publications and curricula of Canadian academic institutions</td>
<td>Professor SM de Gruchy</td>
</tr>
</tbody>
</table>
FACULTY OF LAW

DOCTOR OF PHILOSOPHY

Kalima, Justin Moses, LLM
Thesis: The effectiveness of Environmental Law in Malawi: An analysis of the principal legal tools for achieving environmental protection with emphasis on the Criminal Sanction
Supervisor: Professor M A Kidd

May, Christopher John, MBA (Stell) (International Marketing)
Thesis: Marketing strategies of South African manufacturing firms in international markets
Supervisor: Professor RC O’Neill

FACULTY OF SCIENCE AND AGRICULTURE

DOCTOR OF PHILOSOPHY

Abdel Rahman, Eitimad Hashim, MSc(Khartoum) (Biology)
Thesis: Taxonomic Status of Arvicanthis Lesson, 1842 from Sudan
Supervisors: Dr GC Contratfatto, Dr PJ Taylor and Dr JM Lamb

Aweke, Girma Taye, MSc(Reading) (Statistics)
Thesis: Using spatial modeling techniques to improve analysis from agricultural and field trials
Supervisors: Dr PM Njuho and Professor LM Haines

Buwa, Lisa Valencia, MSc(Rhodes) (Botany)
Thesis: Biological activity of traditional medicinal plants used against venereal diseases in South Africa
Supervisor: Professor J van Staden

Buyeye, Sicelo Malizo, MScAgric (Soil Science)
Thesis: Some soil chemical and fertility aspects of the land disposal of a water treatment residue on selected soils of KwaZulu-Natal, South Africa
Supervisor: Professor JC Hughes

Campbell, Tracey Barbara, MScAgric (Horticultural Science)
Thesis: Gladiolus Scabridus – The road to conservation and commercialisation
Supervisors: Professor JP Bower and Mrs R Van Niekerk

Chetty, Chezlyn Cheryl, MSc (Microbiology)
Thesis: Transformation and Regeneration of Brassica oleracea var. capitata
Supervisor: Dr MV Rajam

Chukwujekwu, Jude Chinedu, BScHons(Nigeria) (Ethnobotany)
Thesis: A pharmacological study of some Nigerian medicinal plants
Supervisor: Professor J van Staden

Ciake Ciake, Fidèle Lavenir, MSc(Yaounde I) (Mathematics)
Supervisor: Professor J Banasiak

Derera, John, MSc(Zimbabwe) (Plant Breeding)
Thesis: Genetic effects and associations among grain yield, stress tolerance and yield stability in southern African maize germplasm
Supervisors: Professor P Tongoona, Professor MD Laing and Professor WAJ de Miliano

Dlamini, Dennis Jabulani Mduduzi, MSc (Hydrology)
Thesis: Assessment of the water poverty index at mesocatchment scale in the Thukela Basin
Supervisors: Professor RE Schulze and Professor GPW Jewitt

Druce, David James, MSc (Biology)
Thesis: Species requirements, coexistence and habitat partitioning at the community level: Rock Hyrax and Klipspringer
Supervisors: Professor R Slotow and Professor G Kerley
Eldeen, Ibrahim Mohammed Suliman, MSc(Khartoum) (Ethnobotany)
Thesis: Pharmacological investigation of some trees used in South African traditional medicine
Supervisors: Professor J van Staden and Dr EE Elgorashi

Esprey, Luke John, MSc (Biology)
Thesis: Assessment of a Process-based Model to Predict Growth and Yield of *Eucalyptus grandis* Plantations in South Africa
Supervisors: Professor N Pammenter, Mr CS Smith and Dr P Sands

Hamza, Alnazier Osman Mohammed, MSc(Surrey) (Physics)
Thesis: Automatic Analysis Obtained from QC Measurements of Mammography X-ray Units and the Design of an Improved QC Phantom for Mammography
Supervisors: Professor M Alport and Dr WID Rae

Hancock, Carolyn Elizabeth, MSc (Genetics)
Thesis: Identification and remediation of student difficulties with quantitative genetics
Supervisor: Professor TR Anderson

Jackson, Jennifer Gouws, BSc(Hons) (Biochemistry)
Thesis: Changes in endosome-lysosome pH accompanying pre-malignant transformation
Supervisor: Dr E Elliott

Kearney, Teresa Catherine, MSc (Biology)
Thesis: Systematic Revision of Southern African Species in the Genera *Eptesicus*, *Neoromicia*, *Hypsga* and *Pipistrellis* (Chiroptera: Vespertilionide)
Supervisors: Dr GC Contrafatto and Dr PJ Taylor

Kozakiewicz, Jan Marek, MSc(Wroclaw University) (Mathematics)
Thesis: Singularly Perturbed Equations with Applications to Kinetic Theory – Analytic Methods and Numerical Investigations
Supervisors: Professor J Banasiak and Dr N Parumasur

Ledwaba, Lesibana Peter, MSc (Chemistry)
Thesis: Cyano ligand derivatives of Platinum (II) Terpyridines
Supervisors: Professor JS Field and Professor OQ Munro

Lukangu, Gastao, MScAgric (Community Resources)
Thesis: Factors and strategies influencing smallholders’ participation in the agricultural market in southern Nassa, Mozambique
Supervisors: Professor JM Green and Mr S Worth

Magadula, Joseph Jangu, MSc(Dar Es Salaam) (Chemistry)
Thesis: Extractives from the Gentianaceae and Euphorbiaceae
Supervisor: Professor DA Mulholland

Mahabile, Meck, MSc(London) (Agricultural Economics)
Thesis: Determinants of herd productivity in Botswana: A focus on land tenure and land policy
Supervisors: Professor MC Lyne and Dr A Panin

Maharaj, Shimul Kumar, MSc (Physics)
Thesis: Linear and Non-linear Fluctuations in Dusty Plasmas
Supervisors: Professor R Bharuthram and Professor SR Pillay

Mahomed, Abdul Samad, MSc (Chemistry)
Thesis: Partial Oxidation of n-Octane using Hydrotalcite-like Precursors
Supervisor: Professor HB Friedrich
Maritz, Jacob Elgin, MSc (Port Elizabeth) (Mathematics)
Thesis: Stratification and domination in graphs
Supervisor: Professor MA Henning

Mukwembi, Simon, MSc (Zimbabwe) (Mathematics)
Thesis: Bounds on Distances in Graphs
Supervisors: Professor P Dankelmann and Professor HC Swart

Naidoo, Deena, MSc (Physics)
Thesis: $^{57}$Fe Mössbauer investigations in diamond, SiGe and Ge single crystals
Supervisor: Professor K Bharuth-Ram

Norris-Rogers, Mark, MSc (Applied Environmental Sciences)
Thesis: An investigation into using textural analysis and change detection techniques on medium and high resolution imagery for monitoring plantation forestry operations
Supervisors: Dr F Ahmed, Professor P Coppin and Dr J van Aardt

Nsabimana, Antoine, MSc (Moscow) (Plant Molecular Biology)
Thesis: Establishing genetic diversity of Rwanda Highland banana using random amplified polymorphic DNA markers
Supervisor: Professor J van Staden

Ochuodho, Julius Onyango, MSc (Nairobi) (Crop Science)
Thesis: Physiological basis of seed germination in Cleome gynandra (L.)
Supervisor: Professor AT Modi

Olaniran, Ademola Olufolahan, MSc (Obafemi Awolowo Univ) (Microbiology)
Supervisors: Professor B Pillay and Professor D Pillay

Padayachee, Jayanethie, MSc, (Cape Town) (Physics)
Thesis: Computer-Aided Diagnosis in Mammography: Correlation of Regions in Multiple Standard Mammography Views of the Same Breast
Supervisors: Professor MJ Alport and Dr WID Rae

Peel, Michael John Stephen, MSc (Pretoria) (Grassland Science)
Thesis: Towards a predictive understanding of Savanna vegetation dynamics
Supervisors: Professor PJK Zacharias and Dr H Biggs

Pillay, Deena, MSc (Biology)
Thesis: The influence of bioturbation by the sandprawn Callianassa kraussi Stebbing on macrobenthic assemblages of the Little Lagoon, Durban Bay
Supervisors: Professor AT Forbes and Professor G Branch

Qwabe, Sabatha Thulane, MSc (Wits) (Environmental Science)
Thesis: A Viable Strategy to Sugar Cane Lignocellulosic Bio-Ethanol Development in Southern Africa
Supervisors: Dr HK Watson and Professor G Garland

Salim, Ali Mohammed, MSc (Nairobi) (Chemistry)
Thesis: The Effect of Antioxidants on the para-aminobenzoic Acid Photosensitised Formation of Thymine Dimmer and Singlet Oxygen
Supervisors: Professor BS Martincigh

Schönborn, Konrad Janek, BSc (Hons) (Biochemistry)
Thesis: Using student difficulties to identify and model factors influencing their ability to interpret external representations of antibody-antigen binding
Supervisor: Professor TR Anderson
Shannon, Graeme William, MSc (University of Kent at Canterbury) (Biology)
Supervisors: Professor R Slotow, Mr B Page and Professor K Duffy

Shittu, Adebayo Osagie, MSc (Obafemi Awolowo Univ) (Microbiology)
Thesis: A Comparative Epidemiological Analysis of Clinical Strains of Staphylococcus aureus in Nigeria and South Africa
Supervisor: Professor J Lin

Simoonga, Christopher, MSc (Wits) (Biology)
Supervisor: Professor C Appleton

Sinkala, Winter Nelson, MSc, (UZ) (Mathematics)
Thesis: Symmetry Analysis of Equations of Financial Mathematics
Supervisors: Professor PGL Leach and Dr JG O’Hara

Tomlinson, Kyle Warwick, MSc (Applied Mathematics)
Thesis: Consequences of architecture and resource allocation for growth dynamics of bunchgrass clones
Supervisors: Professor TG O’Connor, Professor JW Hearne and Professor J Swart

Van Rooyen, Zelda, MScAgric (Horticultural Science)
Thesis: Factors affecting mesocarp discoloration severity in ‘Pinkerton’ avocados (Persea Americana Mill.)
Supervisors: Professor JP Bower and Dr I Bertling

Walker, Nicholas James, MSc (Southampton) (Hydrology)
Thesis: Assessment of agro-ecosystem sustainability across varying scales in South Africa
Supervisors: Professor RE Schulze and Dr GA Kiker

Zimba, Kenneth, MSc (Zambia) (Mathematics)
Thesis: Fischer-Clifford matrices of the generalized symmetric group
Supervisor: Professor J Moori
FACULTY OF SCIENCE AND AGRICULTURE

DOCTOR OF PHILOSOPHY

Abalo, Grace, MSc(Makerere) (Plant Breeding)
The thesis: A comparative analysis of conventional and marker assisted selection methods in screening for resistance to maize streak virus disease
Supervisor: Professor P Tongoona
Co-supervisor: Dr J Derera

Assefa, Yoseph, MSc(Alemaya) (Entomology)
The thesis: Sugarcane stem borers in Ethiopia, ecology and phylogeography
Supervisor: Dr D Conlong
Co-supervisor: Professor DJ Brothers

Barnett, Wayne Peter, MSc (UCT) (Geology)
Supervisor: Professor MK Watkeys

Chetty, Jonathan, MSc (Chemistry)
The thesis: The Oxidative Dehydrogenation of Hexane and Octane over Variadium Magnesium Oxide Catalysts.
Supervisor: Professor HB Friedrich

De Bruyn, Paul Anthony, MSc (UPE) (Biology)
Supervisors: Professor M Schleyer, Dr C Moloney

Efisue, Andrew Abiodun, MSc(Ibadan) (Plant Breeding)
The thesis: Studies of drought tolerance in interspecific progenies of Oryza glaberrima (steud) and O. Sativa (L) and an appraisal of the use of male gametocides in rice hybridisation
Supervisor: Professor P Tongoona
Co-supervisor: Professor MD Laing, Dr J Derera

Gar Elnabi, Mohammed Elfadil Mohammed, MSc (Sudan Uni) (Physics)
Supervisors: Professor MJ Alport, Dr WID Rae

Gusset, Markus, MSc (Swiss Federal Institute of Technology) (Biology)
Supervisors: Professor R Slotow, Dr M Somers

Huson, Laura Elizabeth Joan, BScHons (Biochemistry)
The thesis: Antibody-mediated inhibition of proteases of African Trypanosomes
Supervisor: Professor THT Coetzer

Idowu, Olufemi Abiola, MSc(Obafemi Awolowo) (Hydrology)
The thesis: Impact of irrigation with Gypsiferous mine water on the water resources of parts of the Upper Olifants Basin
Supervisors: Professor SA Lorentz, Dr M McCartney, Professor J Annadle

Joubert, Sandra Deidre, BScHons (Chemistry)
The thesis: Synthesis and structural characterisation of tin (IV) porphyrin phenoxide complexes and Schiff base derivatives for the polymerisation of epoxides
Supervisor: Professor OQ Munro
Kamau, Joseph Wainaina, MSc(Wales) (Plant Breeding)
Thesis: Genetic improvement of earliness in Cassava landraces of the semi-arid areas of Kenya
Supervisor: Professor R Melis
Co-supervisors: Dr P Shanahan, Professor MD Laing

Karari, Clement Kamau, MSc(Mississippi) (Plant Breeding)
Thesis: Identification of sorghum Sorghum bicolor (L) Moench parents and evaluation of their hybrids for yield under simulated density and moisture stress
Supervisor: Professor P Tongoona
Co-supervisor: Dr J Derera

Kazembe, Lawrence Ndekeleni McJames, MSc, (Eastern Mediterranean Univ) (Biology)
Thesis: Spatial Analysis of Malariometric Indicators in Malawi
Supervisors: Professor CC Appleton, Dr I Kleinschmidt

Light, Marnie Elizabeth, MSc (Botany)
Thesis: The role of smoke as a germination cue
Supervisor: Professor J van Staden

Mitchell, Clyde Geoffrey, MEnvDev (Environment & Development)
Thesis: Towards improved Corporate Social and Environmental Reporting in South Africa.
Supervisor: Professor T Hill

Mokotedi, Mompe Edward Oscar, MSc (Biology)
Supervisors: Professor P Watt, Professor N Pammenter

Moodley, Brenda, MSc (Chemistry)
Thesis: An investigation into the selective oxidation of Lignins found in Sappi Saiccor Pulp Mills Effluent.
Supervisors: Professor DA Muñholland, Professor J Marsh, Professor H Brookes

Mwangi, Elizabeth Muthoni, MSc, (Narobi) (Chemistry)
Thesis: An Investigation of South African Plants used for Cosmetic Purposes and for Skin Related Problems
Supervisors: Professor DA Muñholland, Professor N Dlova, Dr P Coombes

Nigro, Sara Anna Maria Eleonara, BScHons (Plant Molecular Biology)
Thesis: Genetic modification in Pinus patula using transgenic technology
Supervisor: Professor P Tongoona
Co-supervisor: Dr J Derera

Ouda, Jack Ooko, MSc(Wales) (Animal Science)
Thesis: Nutritive value and manure quality in supplemented maize stover and grass hay diets for ruminants
Supervisor: Professor IV Nsahlai
Co-supervisor: Professor AT Modi

Paterson, Marie, MScDiet (Dietetics)
Thesis: Professional development of dietitians completing compulsory community service in South Africa with special focus on KwaZulu-Natal
Supervisor: Professor JM Green
Co-supervisor: Professor EMW Maunder

Peter, Xolani Kevin, BScHons (Chemistry)
Thesis: Structure and synthesis of Gunnera perpensa secondary metabolites
Supervisor: Professor F van Heerden

Reddy, Pavel, MSc (Wits) (Biology)
Thesis: Implication of Mycoflora in Deterioration of post-harvest soybeans (Glycine max (L.) Merrill)
Supervisors: Professor P Berjak, Professor D Mycock, Professor T Aveling

Nkalubo, Stanley, MSc(Makarere) (Plant Breeding)
Thesis: Study of anthracnose (Colletotichum lindemuthianum) resistance and its inheritance in Ugandan dry bean germplasm
Supervisor: Professor R Melis
Co-supervisor: Professor MD Laing

Paterson, Marie, MScDiet (Dietetics)
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Supervisor: Professor F van Heerden

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Co-supervisor: Professor AT Modi

Paterson, Marie, MScDiet (Dietetics)
Thesis: Professional development of dietitians completing compulsory community service in South Africa with special focus on KwaZulu-Natal
Supervisor: Professor JM Green
Co-supervisor: Professor EMW Maunder

Peter, Xolani Kevin, BScHons (Chemistry)
Thesis: Structure and synthesis of Gunnera perpensa secondary metabolites
Supervisor: Professor F van Heerden

Reddy, Pavel, MSc (Wits) (Biology)
Thesis: Implication of Mycoflora in Deterioration of post-harvest soybeans (Glycine max (L.) Merrill)
Supervisors: Professor P Berjak, Professor D Mycock, Professor T Aveling
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Program</th>
<th>Thesis</th>
<th>Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sara, Joseph Roderick</td>
<td>MSc</td>
<td>(Biology)</td>
<td>An Investigation into the Protein Requirement of a Marine Prawn <em>Fenneropenaeus indicus</em> (H. Milne Edwards)</td>
<td>Professor AT Forbes, Professor R Gous</td>
</tr>
<tr>
<td>Shaik, Rehana</td>
<td>MSc</td>
<td>(Microbiology)</td>
<td>Genetic Diversity and the Development of a Molecular Method for the detection of <em>Xanthomonas albineans</em> strains</td>
<td>Professor D Pillay, Professor B Pillay</td>
</tr>
<tr>
<td>Taylor, Valerie</td>
<td>MSc</td>
<td>(Hydrology)</td>
<td>The hydrological basis for the protection of water resources to meet environmental and societal requirements</td>
<td>Professor GPW Jewitt, Professor RE Schulze</td>
</tr>
<tr>
<td>Whitaker, Claire Rosalie</td>
<td>MSc</td>
<td>(Biology)</td>
<td>Studies on the Biology, Fungal Contamination and Conservation of Seeds of <em>Welwitschia mirabilis</em> Hook.fil</td>
<td>Professor P Berjak, Professor N Pammenter</td>
</tr>
<tr>
<td>Clifford, Scott Llewellyn</td>
<td>MSc</td>
<td>(Chemical Engineering)</td>
<td>Molecular simulation and modelling of the phase equilibria of polar compounds</td>
<td>Professor D Ramjugernath and Professor K Bolton</td>
</tr>
<tr>
<td>Huang, Feng-Wei</td>
<td>BScEng</td>
<td>(Electrical Engineering)</td>
<td>Modelling and analysis of inverter-based FACTS devices for power system dynamic studies</td>
<td>Professor BS Rigby</td>
</tr>
<tr>
<td>Jarvis, Alan Lawrence Leigh</td>
<td>MScEng</td>
<td>(Electronic Engineering)</td>
<td>An investigation of the influence of Ag-doping on the intergranular ‘weak-link’ properties of superconducting system YBa2Cu3O7-δ</td>
<td>Professor AD Broadhurst and Professor TB Doyle</td>
</tr>
<tr>
<td>Nannoolal, Yash</td>
<td>MScEng</td>
<td>(Chemical Engineering)</td>
<td>Estimation of pure component properties of organic compounds from molecular structure</td>
<td>Professor D Ramjugernath and Dr J Rarey</td>
</tr>
<tr>
<td>Pillay, Sarushen Dhanapalan</td>
<td>MScEng</td>
<td>(Chemical Engineering)</td>
<td>An environmental life cycle assessment of the provision of recycled water in Durban</td>
<td>Professor CA Buckley</td>
</tr>
<tr>
<td>Reddy, Prashant</td>
<td>MSc</td>
<td>(Chemical Engineering)</td>
<td>Development of a novel apparatus for vapour-liquid equilibrium measurements at moderate pressures</td>
<td>Professor D Ramjugernath and Professor JD Raal</td>
</tr>
<tr>
<td>Sinclair, Douglas Scott</td>
<td>MScEng</td>
<td>(Civil Engineering)</td>
<td>Spatio-temporal rainfall estimation and nowcasting for flash flood forecasting</td>
<td>Professor GGS Pegram</td>
</tr>
<tr>
<td>Sookay, Nirvan Karam</td>
<td>BScEng</td>
<td>(Mechanical Engineering)</td>
<td>Modelling and empirical characterization of environmental degradation of FRP laminates in Southern Africa</td>
<td>Dr C von Klemperer</td>
</tr>
</tbody>
</table>
**FACULTY OF HEALTH SCIENCES**

**DOCTOR OF PHILOSOPHY (HEALTH SCIENCES)**

Naidoo, Padmini, BA (Human Movement) Bachelor of Sport Science Honours, Masters in Sport Science

Thesis: An Analysis of Perceived Leadership Styles and Levels of Job Satisfaction of Sport Administrators Employed at Tertiary Institutions in South Africa

Supervisor: Professor Y Coopoo

**DOCTOR OF PHILOSOPHY IN NURSING**

Middleton, Lyn Elizabeth, Advanced Diploma in Education, Bachelor of Social Science Honours (Natal)

Thesis: A Social Constructionist Analysis of Talk in Episodes of Psychiatric Student Nurse-Psychiatric Client Community Based Interaction

Supervisor: Professor LR Uys

**NELSON R MANDELA SCHOOL OF MEDICINE**

**DOCTOR OF MEDICINE**

Paruk, Fathima, MBChB(Natal), FCOG(SA) (Obstetrics & Gynaecology)

Thesis: Critically ill obstetric and gynaecology patients require specific severity of illness scoring systems.

Supervisor: Professor J Moodley and Professor S Bhagwanjee

**DOCTOR OF PHILOSOPHY**

Bosch, Brenda Ann, BSocS(Natal), B SocSc(Hons)(Natal), MSocSc(Natal) (Behavioural Medicine)

Thesis: Biopsychosocial changes in the Human Stress Response, with Specific Reference to stress measurement and certain moderating variables.

Supervisor: Professor L Schlebusch

Madiba, Thandinkosi Enos, MBChB(Natal), MMed(Natal), FCS(SA), PG Dip Pl Ethics(Cape Town) General Surgery


Supervisor: Professor JV Robbs and Professor MR Haffajee

**FACULTY OF EDUCATION**

**DOCTOR OF PHILOSOPHY**

Motala, Mariam Bibi, BA(UDW), BA(Hons)(UDW), MA(Clin Psych)(UDW) (Behavioural Medicine)


Supervisor: Professor L Schlebusch and Ms BA Bosch

**Bharuthram, Sharita, BA,HDE,BAHons(UNISA),MA**

Thesis: Developing reading strategies in Higher Education through the use of integrated reading/ writing activities: A study at a University of Technology in South Africa

Supervisor: Professor R Balfour

**Ebrahim, Hasina Banu, JPED (Springfield), BA, BEdHons, MEd (UNISA)**

Thesis: Constructions of childhood for and by children in two Early Childhood Centres in the Province of KwaZulu-Natal, South Africa: An ethnographic study

Supervisor: Professor A Muthukrishna

**Ntombela, Sithabile, BA, JED (Zululand)BEdHons, DipSpecEd,MEd (Manchester)**

Thesis: The complexity of educational policy dissemination in the South African context: A case study of Inclusive Education Policy in selected schools in greater Durban.

Supervisor: Professor R Moletsane

Co-Supervisor: Professor G Maré

**Stuart, Jean Dorothy, PTPG (CapeTown), BAHons (UNISA)**

Thesis: From our Frames: Exploring visual arts-based approaches for addressing HIV and AIDS with pre-service teachers.

Supervisor: Professor C Mitchell

**Mthiyane, Cynthia Nonhlanhla, BPaed, BEdHons (Zululand), MScEd (State University of New York)**


Supervisor: Dr V Wedekind
DOCTOR OF EDUCATION

Balkaran, Nirmala, BEdHons(Unisa),MEd
Thesis: Teacher desegregation in KwaZulu-Natal: A spatial analysis
Supervisor: Professor R Sookrajh

Joubert, Robin Wendy Elizabeth, DipOccTher(Pretoria), BA(UNISA), MOccTher
Supervisor: Dr Z Naidoo and Professor MA Samuel

Singh, Lorraine Pushpram, BA (UNISA),STD, BEdHons, MA(New York)
Thesis: Birth and Regeneration: The Arts and Culture curriculum in South Africa
Supervisor: Professor CM Malcolm

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES

DOCTOR OF PHILOSOPHY

Barichievy, Kelvin Charles, MPA (PortElizabeth) (Political Science)
Thesis: Efficiency vs democracy: Unpacking the decision-making process in South African cities
Supervisor: Professor LE Piper
Co-supervisor: Professor BJ Parker

Chauke, Elesinah, MA (Kentucky) (Systematic Theology)
Thesis: Awareness as a process toward a liberating theology for the women of South East Zimbabwe
Supervisor: Professor IA Phiri

Francis, Michael Douglas, BAHons(Alberta), MA Culture (Communication and Media Studies)
Supervisor: Professor KG Tomaselli

Gathogo, Julius Mutugi, MTh (African Theology)
Thesis: Liberation and reconstruction in the works of JNK Mugambi: A critical analysis in African Theology
Supervisor: Professor IA Phiri

Jones, Alison Rae, MPhil(Southampton) (Political Science)
Thesis: Caveat Emptor: Ideological paradigms in decolonizing and Postcolonial Africa
Supervisor: Professor RB Lawrence

Kemoni, Henry Nyabuto, MPhil(Moi) (Information Studies)
Thesis: Records management practices and public service delivery in Kenya
Supervisor: Professor P Ngulube
Co-supervisor: Professor C Stilwell

Lwehabura, Mugyabuso Julius Festo, MA (Sheffield) (Information Studies)
Thesis: The status and practice of information literacy for teaching and learning in four Tanzanian universities
Supervisor: Professor C Stilwell

Lombardozzi, Letizia Maria, MA (English Studies)
Thesis: Journeying beyond Embo: The construction of exile, place and identity in the writings of Lewis Nkosi.
Supervisor: Professor L Stiebel

Maharaj, Ajiv, MTRP (Geography)
Thesis: The development of an appropriate planning framework for the Durban Central Beachfront tourism locality
Supervisors: Professor U Bob and Dr V Moodley

Manase, Irikidzayi, MA (English)
Supervisor: Professor EAW Gunner
Co-supervisor: Dr CA Woeber
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree/Program</th>
<th>Thesis</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapadimeng, Mokong Simon</td>
<td>MA (Witwatersrand) (Industrial, Organisational and Labour Studies)</td>
<td>Ubuntu/Botho culture: A path to improved performance and socio-economic development in South Africa – beyond rhetoric</td>
<td>Professor A Sitas</td>
</tr>
<tr>
<td>Mohamed, Sayed Iqbal</td>
<td>MA (Religion &amp; Social Transformation)</td>
<td>Dawah: Muslim women’s contribution to the reconstruction of the South African Society through entrepreneurial and religious efforts.</td>
<td>Professor AFM Ebrahim</td>
</tr>
<tr>
<td>Mosime, Sethunya Tshepho</td>
<td>BA (Botswana), MA (Sussex) (Culture, Communication and Media Studies)</td>
<td>Government ownership of the media and cultural production in Africa: Botswana Television (BT) negotiating control and cultural production in a globalizing context.</td>
<td>Professor RE Teer-Tomaselli</td>
</tr>
<tr>
<td>Parsons, Elizabeth Cline</td>
<td>MA (Emerson) MDiv (Harvard) (Systematic Theology)</td>
<td>Provoking the rocks: A study of reality and meaning on the Zambian Copperbelt</td>
<td>Professor AO Balcomb</td>
</tr>
<tr>
<td>Perry Jr, Edwin Carl</td>
<td>BA (West Virginia) MA (Geography)</td>
<td>Socio-economic and environmental perceptions and impacts of violence and crime in residential areas in Durban, South Africa</td>
<td>Dr V Moodley</td>
</tr>
<tr>
<td>Pillay, Rama</td>
<td>MA (IsiZulu)</td>
<td>The mismatch between language policy and language practice: Status planning for IsiZulu in a multilingual and multicultural society.</td>
<td>Professor PJ Zungu</td>
</tr>
<tr>
<td>Raniga, Tanusha</td>
<td>MSocSc (Social Work)</td>
<td>The implementation of the national Life-skills and HIV/AIDS School Policy and Programme in the eThekwini region.</td>
<td>Professor V Sewpaul</td>
</tr>
<tr>
<td>Thomson, James Douglas Scott</td>
<td>MSocSc (Sociology)</td>
<td>An examination of homicide statistics in South Africa (1960-2001) using a Durkheimian analysis of anomie</td>
<td>Professor SIR Burton</td>
</tr>
<tr>
<td>W’ehusha, Labunga Venance</td>
<td>MDiv (NEGST) (Biblical Studies)</td>
<td>Moses and leadership struggles in the Exodus narrative</td>
<td>Professor GO West</td>
</tr>
<tr>
<td>Wessels, Michael Anthony</td>
<td>MA (English)</td>
<td>Interpretation and the Xam narratives</td>
<td>Professor EAW Gunner</td>
</tr>
<tr>
<td>Wells, Catherine Louise</td>
<td>MA (Middlesex) (Anthropology)</td>
<td>Manipulating metaphors: An analysis of beadwork craft as a contemporary medium for communicating on AIDS and culture in KwaZulu-Natal</td>
<td>Professor S Leclerc-Madlala</td>
</tr>
</tbody>
</table>
FACULTIES OF LAW AND MANAGEMENT STUDIES

DOCTOR OF PHILOSOPHY

Chasomeris, Mihalis Georgiou, BScScHons, MComEconomics (Economics)
Thesis: South Africa’s seaborne commerce and global measurement of shipping cost
Supervisors: Professor M Holden and Professor T B Jones

McDowell, James Carol, AdvSales(NATTEK), MMI, MComEconHistory (Finance)
Supervisor: Professor GT Harris

DOCTOR OF ADMINISTRATION

Desai, Gita, BSc, MMSc (Public Admin and Bus Management)
Dissertation: The Migration of Pharmacists: A Case Study of KwaZulu-Natal
Promoter: Dr Y Penceliah

Gareeb, Simee, BPsych, MAdmin (Industrial Psychology)
Dissertation: Barriers and Gateways to Team Effectiveness
Promotor: Professor S Brijball Parumasur

Mdluli,Themba Kenneth, BA (UZ), PGDip, AdvUniDip, MPA (Public Admin)
Promoter: Professor D Singh

Ngwadla, Nomalady Mildred, MTRP, (Public Admin and Bus Management)
Promoter: Professor PS Reddy

DOCTOR OF BUSINESS ADMINISTRATION

Louw, Marthinus Thomas, PGDip(Management)(Henley Business School, MBA (Brunell Univ)
Dissertation: “Customer Centricity as a Generic Strategy for achieving sustainable growth in a commodity driven industry”.
Promoter: Professor S Lubbe

Phiri, Maxwell, MBA,
Dissertation: The challenges and implications of Corporate Rebranding: A Case Study of Amalgamated Beverage Industries (ABI)
Promotor: Professor K Poovalingum

Singh, Ramchunder, BCom(UNISA), MBA(Buckinghamshire Univ)
Dissertation: An investigation into the mortality of small businesses, with specific reference to Fuel Retailers within the Republic of South Africa.
Promoter: Professor MT Khomo

Suckling, Brian Charles, B.Iuris(UNISA)
Promoter: Dr A Kader
PROFESSOR ANNA COUTSOUDIS

Professor Anna Coutsoudis is a Professor in the Department of Paediatrics and Child Health at the Nelson R Mandela School of Medicine.

Graduating with a BSc Degree from the former University of Natal in 1973, Professor Coutsoudis went on to complete her PhD at the University in 1993 in Medical Science, her field of study. She has been attached to the Department of Paediatric and Child Health since 1989 graduating from Senior Scientist, Lecturer and Associate Professor to her current position.

Professor Coutsoudis has served on a variety of Government and International Advisory Committees such as the World Health Organisation (WHO)'s informal working group on the Prevention of Mother-to-Child transmission of HIV, Global Forum Child Health and Nutrition Research Initiative and continues to do so being a member and current Chairperson of the Technical Steering Committee (TSC) of the WHO, Child and Adolescent Health Unit (CAH); and recently elected as Chairperson of the Human Milk Banking Association of South Africa, among others.

She has received numerous honours including the La Leche League International Award for Excellence in 2001; the University of Natal’s Mary Weston Achiever of the Year Award in 2002; Amnesty International South Africa, an honour for protecting human rights in South Africa in November 2005 and was made a Fellow of UKZN in 2007.

Professor Coutsoudis has published more than 90 peer reviewed publications, the majority of which have been in the fields of the prevention of Mother-to-Child Transmission of HIV; breastfeeding and HIV, and child health.

Professor Coutsoudis is recognised as an expert in Mother-to-Child Transmission (MTCT) of HIV. In 2001 she founded - and remains Chairperson of - iThemba Lethu, a programme which addresses the needs of children threatened by HIV and AIDS. She designed and implemented the first community-based breastmilk bank in South Africa at iThemba Lethu, an innovation that has now spread to several centres in the country.

She has been successful in attracting several research grants, including one for a five-year programme investigating the effectiveness of psycho-social support, including antiretroviral drugs, on the quality of life of HIV-infected mothers and their families in resource-poor settings.

PROFESSOR ALLAN WILSON

Professor Wilson is a world authority on platinum deposits, particularly those in Southern Africa. That research commenced many years ago when he was appointed to the Geology Department on the Pietermaritzburg campus and carried out research on the Great Dyke in Zimbabwe, and the giant Bushveld Complex of South Africa. Professor Wilson has published more than 50 papers on those topics and now also works on platinum deposits in China with the Sichuan Geological Bureau and Anglo Platinum, with which he has had a long association. Professor Wilson developed the analytical laboratories in the School of Geological Sciences now located on the Westville campus.

In more recent times he established similar analytical laboratories in the School of Geosciences at the University of the Witwatersrand, where he is now employed as a Professor, and Director of the Economic Geology Research Institute. Results from these Units have been used in many international publications and conference presentations. Further work will be presented by Professor Wilson on the famous Merensky Reef platinum deposit in a keynote address at the 33rd International Geological Congress in Oslo. He continues his collaboration with researchers at UKZN on the Archaean (older than 2.5 billion year old) early crustal rocks in KwaZulu-Natal.
**PROFESSOR DUNCAN BROWN**

Professor Duncan Brown, is a Professor of English Studies in the School of Literary Studies, Media and Creative Arts on the Pietermaritzburg campus. He is also an Overseas Professorial Research Fellow at the Ferguson Centre for African and Asian Studies at the Open University in the United Kingdom and is rated by the National Research Foundation as a B2 researcher.

Graduating with a BA *(cum laude)* from the former University of Natal in 1985, he received several scholarships on his way to completing his PhD in English at the University in 1996. Professor Brown joined the English Department at the University as a support tutor in 1990, moving up in a variety of posts to his current position.

He is presently responsible for teaching the following modules which he co-designed: Introduction to English Literature: an undergraduate module (level 1); Literature and Journalism: an undergraduate module (level 3); and Mediating South African Identities: a postgraduate module. Professor Brown has supervised the successful completion of eleven Masters theses, and is currently supervising a further Masters and two PhD students.

- In 2002 he was awarded the University’s Book Prize for his work: *Oral Literature and Performance in Southern Africa*;
- He serves as a member of the editorial board of *Scrutiny 2*, a SAPSE-accredited journal produced by the University of South Africa;
- He is a member of a group research project on Postcolonialism, comprising researchers from UKZN and the University of Witwatersrand. The project was awarded R750 000 over two years by the NRF;
- He is one of three co-ordinators of a collaborative research project on: The Politics of Memory in the Postcolony: Nation, Testimony, Belief, Media, run jointly by the University of Stirling, Mohamed V University in Rabat, the University of Fes and UKZN.

Professor Brown has published four books since 1991, the latest in 2006 being: *To Speak of this Land: Identity and Belonging in South Africa and Beyond*; and has contributed chapters to eight books since 1996. He has edited numerous published works.

Professor Brown initiated and is currently leading an interdisciplinary project on Religion and Spirituality in a Postcolonial Context: A Perspective from the ‘South’, involving researchers from UKZN, the University of Dehi, Rhodes University, the Open University, the University of Stellenbosch, and the University of Botswana.

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**PROFESSOR DENIS J. BROTHERS**

Professor Denis Brothers, Head of the School of Biological and Conservation Sciences, gained his PhD from the University of Kansas in 1974 and has been at UKZN ever since.

Professor Brothers is internationally recognised as an expert on the classification and biology of stinging wasps, ants and bees (*Hymenoptera: Aculeata*), both modern species and fossils, particularly the velvet-ants and relatives (*Mutillidae* and *Bradynobaenidae*), as well as on the system governing the application of names in zoology.

Recent major research collaborations have involved Russian Professors Alexander Rasnitsyn from Moscow and Arkady Lelej from Vladivostok, and Dr Jim Carpenter from New York in the United States as part of a consortium working on Assembling the Tree of Life for *Hymenoptera*.

Professor Brothers is a past President both of the International Society of Hymenopterists and the International Palaeoentomological Society, and is the current President of the International Commission on Zoological Nomenclature.

A Senior Professor and Chair of Entomology in the School of Biological and Conservation Sciences on the Pietermaritzburg campus, his special teaching interests lie in the morphology and classification of insects, and the general principles and practice of biological systematics.
Fellows of the University of KwaZulu-Natal

Professor S E Drewes, Chemistry 1989
Professor R J Haines, Chemistry 1989
Professor R G Harley, Electrical Engineering 1989
Professor A S Matheva, Constitutional and Administrative Law 1989
Professor J van Staden, Botany 1989
Professor A D M Walker, Physics 1989
Professor L W Baker, Surgery 1990
Professor M Chapman, English 1990
Professor D R Hunter, Geology 1990
Professor J R L Milton, Criminal Law 1990
Professor Y K Seedat, Medicine 1990
Professor N M Tainton, Grassland Science 1990
Professor W L Nieuwoudt, Agricultural Economics 1991
Professor M H Prozesky, Ethics 1991
Professor R E Schulze, Bioresources Eng & Env Hydrology 1991
Professor G L Maclean, Zoology & Entomology 1992
Professor M J Samways, Zoology 1993
Professor S Adali, Mechanical Engineering 1993
Professor K Bharuth-Ram, Physics 1993
Professor R Bharuthram, Physics 1993
Professor W M Freund, Economic History 1993
Professor M A Hellberg, Physics 1993
Professor P Berjak, Botany 1994
Professor H M Coovadia, Paediatrics & Child Health 1994
Professor R E Raab, Physics 1994
Professor F H J Rijkenberg, Rural Development 1994
Professor J V Robbs, Surgery 1994
Professor C J Ballantine, Music 1995
Professor J Moodley, Obstetrics & Gynaecology 1995
Professor K G Tomaselli, Cultural & Media Studies 1995
Professor H Bajnath, Botany 1996
Professor N Bhana, Finance & Accounting 1996
Professor J M Burchell, Delict and Criminal Law 1996
Professor M R Cooper, Geology 1996
Fellows of the University of KwaZulu-Natal

Professor R E Klitgaard, Economics
1996
Professor KB Nürnberg, Theology
1996
Professor M J Savage, Agrometeorology
1996
Professor K D Bhoola, Pharmacology
1997
Professor C M Breen, Institute for Natural Resources
1997
Professor P G Leach, Physics
1997
Professor H C Swart, Mathematical Sciences
1997
Professor F G Bell, Geological Computer Science
1998
Professor R M Gous, Animal & Poultry Science
1998
Professor J P C Laband, Human and Social Science
1998
Professor T M Letcher, Chemistry
1998
Professor D I D Attwell, English
1999
Professor T A Ford, Chemistry
1999
Professor B N Wolstenholme, Agriculture Science and Agribusiness
1999
Professor R Chetty, Pathology
2000
Professor M J Daymond, English
2000
Professor A A Haffejee, Surgery
2000
Professor M A Adhikari, Paediatrics
2001
Professor D A McQuoid-Mason, Delict and Street Law
2001
Professor L Richter, Psychology
2001
Professor K S Satyapal, Anatomy
2001
Professor V E Verijenko, Mechanical Engineering
2001
Professor J S Field, Chemistry
2002
Professor J J McCarthy, Geography
2002
Professor M R Perrin, Zoology
2002
Professor D A Rocke, Anaesthetics
2002
Professor W D Geach, Accountancy
2003
Professor J J Guy, History
2003
Professor J U Jacobs, English
2003
Professor G M Mody, Rheumatology
2003
Professor G Naidoo, Botany
2003
Professor G Padayachee, Development Studies
2003
Professor R D Diab, Geography
2004
Professor D Mulholland, Chemistry
2004
Professor N W Pammenter, Plant Pathology
2004
Professor C C Appleton, Plant Pathology
2005
Professor R C Hart, Botany & Zoology
2005
Professor D J Brothers, Botany & Zoology
2006
Professor A Wilson, Geology
2006
Professor D Brown, English
2007
Professor A Coutoudis, Paediatrics
2007
Most Prolific Researchers

PROFESSOR JOHN OJEWOLE
School of Pharmacy and Pharmacology
ojewole@ukzn.ac.za

Professor Ojewole, Head of the School of Pharmacy and Pharmacology in the Faculty of Health Sciences, is well-known and respected nationally and internationally for his research activities and contributions in the fields of African Traditional Medicines, Phytomedicines and Natural Products Pharmacology. He is regarded as one of Africa’s leading researchers in the field of traditional and indigenous medicines. In addition to numerous conference abstracts and proceedings, Professor Ojewole has contributed chapters to edited books on Traditional Medicines and Ethno-pharmacology. He has published over 100 scientific research articles in SAPSE-rated, ISI- and PubMed-recognised, peer-reviewed, international journals. He is the Co-Editor-in-Chief of the African Journal of Traditional, Complementary and Alternative Medicines.

PROFESSOR WARREN FREEDMAN
Faculty of Law
freedman@ukzn.ac.za

Professor Freedman’s particular interests are sub-national Constitutional Law, Coastal and Ocean Law; and Legal Education. He is an Associate Professor in the Faculty of Law on the Pietermaritzburg campus and teaches Constitutional Law and Property Law. Professor Freedman was awarded a Distinguished Teachers Award: Certificate of Excellence by the University in 2003 and has also acted as an advisor on constitutional law to the KwaZulu-Natal Legislature.

PROFESSOR DAVID WARD
School of Biological and Conservation Sciences
ward@ukzn.ac.za

Professor Ward’s research interests lie in the field of the ecology and genetics of plant-animal interactions. In particular he is interested in the effects of herbivory by large mammals on the population biology, population genetics and conservation of plant populations, especially trees. Most of his work focuses on savanna ecology. He was Chair of Conservation Ecology at Stellenbosch University until mid-2004 when he joined UKZN as Chair of Botany. Professor Ward has written more than 130 papers in peer-reviewed journals, 14 chapters in peer-reviewed books, and has recently completed a book, The Biology of Deserts, which will be published by Oxford University Press in October 2008.

MS LLIANE LOOTS
School of Literacy Studies, Media and Creative Arts
lootsl@ukzn.ac.za

Ms Loots is the dance lecturer in the Drama and Performance Studies Programme on the Howard College campus. Her research areas include the study of emerging African contemporary performance forms with a special focus on researching and writing up un-navigated contemporary dance histories of the African continent. She is the Artistic Director of the Centre for Creative Arts annual African contemporary dance festival, JOMBA!, which has actively sought to host dance companies from all over Africa in exchange programmes which have included guest classes, workshops and conferences at UKZN. She is also the artistic director and choreographer of the six-year-old professional dance company the Flatfoot Dance Company. This multi award winning company has a dance technical training and arts development programme run with the financial assistance of both the National Arts Council of South Africa and more recently HIVOS. Loots is the recipient of many local and national choreographic awards, the most recent being the 2007 KZN DANCELINK award for choreography for her work Pramotions.
Professor Friedrich, while maintaining an interest in both organometallic synthesis and homogeneous oxidation catalysis, retrained himself in the area of heterogeneous catalysis and launched the first project in this area in 2000 in collaboration with SASOL. This collaboration is now well established with 13 of his current students being SASOL bursars. He is also a pillar in the DST/NRF Centre of Excellence in Catalysis c*change. Professor Friedrich has published more than 40 refereed papers and currently supervises 21 postgraduate students.

Dr Deane-Peter Baker
School of Philosophy and Ethics
bakerdp@ukzn.ac.za

A specialist in both epistemology and the ethics of armed conflict, Dr Baker’s research straddles philosophy, ethics and security studies. He is Deputy-Head of the School of Philosophy and Ethics and Director of the UKZN Strategic Studies Group. In 2006 Dr Baker was elected Chairman of the Ethics Society of South Africa for a two year period. He has published 16 papers in peer-reviewed journals, four book chapters, three edited or co-edited, one sole authored volume (published by SCM-Canterbury Press) and over 30 media articles, editorials and book reviews. His articles have appeared in South Africa’s leading newspapers and in international publications such as the BBC’s Focus on Africa magazine. He is also regularly interviewed by journalists from the national and international print and broadcast media.

Professor Keyan Tomaselli
Culture, Communication and Media Studies
tomasell@ukzn.ac.za

Professor Tomaselli is the South African leader of a long-term international collaborative research project, “Rethinking Indigeneity”, which involves issues of representation, cultural tourism and lodge community partnerships. He has been a Visiting Professor and Fulbright Scholar at Michigan State University, a Visiting Professor at the University of North Carolina, Chapel Hill, a Smithsonian Research Associate, and a visiting Professor at many other United States institutions. Professor Tomaselli is founder and editor of Critical Arts: A Journal of South-North Cultural and Media Studies (Routledge/UNISA Press) and is founder and co-editor of the Journal of African Cinemas Intellect. He is an editor of a new Ottawa University Press book series, African and Diasporic Cultural Studies, and he serves on the editorial boards of many disciplinary flagship journals across the world. Previously President of the SA Communication Association, he has also served on the international councils of the Association for Cultural Studies and the International Association of Semiotic Studies. His recent publications include Writing in the Sand: Autoethnography Amongst Indigenous South Africans (2007), Encountering Modernity: 20th Century South African Cinemas (2000) and Where Global Contradictions are Sharpest: Research Stories from the Kalahari (2005).

Professor Rob Gous
School of Agricultural Sciences and Agribusiness
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Respected academic, leading scientist and Research Fellow, Professor Gous was recently awarded the prestigious ‘A’ rating status by the NRF following a re-evaluation of his research progress. This is the second time that Professor Gous has received this rating, the first time being about 10 years ago, and in both cases this has been in recognition for his contribution in the field of poultry science. Professor Gous’s research over the past 15 years has involved the development of simulation models that predict food intake and growth of broilers and pigs. The simulation models initially provided answers to “what-if” scenarios, but he and his team have moved on from there and they now optimize 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.
MOST PROLIFIC RESEARCHERS (continued)

PROFESSOR ROBERT MORRELL
School of Education
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Professor Morrell's major research focuses on the broad field of gender though under this rubric, his interests include the sociology of men and masculinity in Africa, fathers, young parents in school, men’s health and violence and gender in the context of HIV and AIDS. He has been an NRF B-rated scientist since 2002 with his best known research being the edited collection Changing Men in Southern Africa (2001) which has been cited over 100 times. In 2006, together with Linda Richter of the Human Sciences Research Council, he edited Baba: Men and Fatherhood in South Africa and in a follow-up study is leading a collaborative project on young, school-going parents which is funded by SANPAD (Netherlands) and involves staff at the University of the Western Cape as well as UKZN. Since 2000 he has edited three books and authored or co-authored 2 books, 18 book chapters and 23 peer-reviewed journal articles.

PROFESSOR MAX DU PLESSIS
Faculty of Law
duplessism2@ukzn.ac.za
Professor du Plessis’s research interests include international law and international criminal law, human rights and comparative constitutional law. Giving expression to his research, Professor du Plessis practices as an advocate and has appeared in a number of leading cases in the Constitutional Court; he represented Professor Kenneth Good (an academic who had been expelled by Presidential decree from Botswana) before the African Commission on Human and Peoples’ Rights. He is affiliated to the Institute for Security Studies ( Pretoria) and Matrix Chambers (London) as a research associate. He is currently working on a book titled Africa’s Response to the International Criminal Court.

PROFESSOR MICHAEL HENNING
School of Mathematical Sciences
Professor Henning’s research interests are in the field of graph theory, a major area of combinatorics. He has worked on several topics in graph theory with his favourite being in the area of domination theory in graphs. His current research is on the interplay between total domination in graphs and transversals in hypergraphs (with Dr Anders Yeo from Royal Holloway, University of London). Professor Henning has more than 240 papers in international mathematics journals and received a President’s Award (P-rating) from the Foundation for Research Development in 1996 while being a NRF B1-rated scientist since 2000.

PROFESSOR ROB SLOTOW
School of Biological and Conservation Sciences
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Professor Slotow is the Director of the Amarula Elephant Research Programme based in the School of Biological and Conservation Sciences. He completed his PhD on social behaviour in birds at the University of California, Santa Barbara, but since returning to South Africa has changed research interests to focus on Conservation Ecology. There are three focus areas: (1) Management of ecologically and economically important large mammals. (2) Evolutionary and ecological processes driving biodiversity. (3) Conservation management decision-making. Professor Slotow also works closely with Conservation Agencies, and advises them on management decision-making.
Professor de Gruchy, who is Head of the School of Religion and Theology and Professor of Theology and Development, has concentrated his research on the Social History of Christianity in South Africa, interdisciplinary issues involving the dialogue between faith and development, and – more recently - the interface between religion and public health. Professor de Gruchy has also done research for the World Health Organisation and UNAIDS. Since joining UKZN in 2000, he has contributed to the public discourse of the Christian church on issues such as poverty, environment, food security and HIV and AIDS, being a keynote speaker at a number of national and global meetings. Professor De Gruchy’s energy goes into mentoring emerging scholars in the field of theology and development, where he has supervised five successful PhDs and 39 successful Masters students, with many more in the wings. He is also the editor of the Journal of Theology for Southern Africa.

Professor Down’s main area of research is the ecophysiology, conservation and management of South African vertebrates. She has been involved with research together with postgraduates and colleagues on primates, tortoises, avian frugivores and nectarivores, Cape parrots, pelicans, dassies, oribi, bushbuck and feral cats. Her research in the field of Science Education involves problems experienced by second language Life Science students and the development of appropriate teaching strategies to address these. Professor Downs is honorary treasurer of the Zoological Society of Southern Africa; an editor of the Eurasia Journal of Math and Science and Technology Education, and the Journal Ostrich; and a member of the international review panel for the African Journal of Ecology. She has contributed to a variety of publications and has supervised honours, masters, PhD and Post Doctoral students.

Professor Colling’s research interests include traumatic stress, the psychological impact of child sexual abuse, and social attitudes toward child sexual abuse. He is currently collaborating with researchers from Africa, Sweden, the United States and Korea in an attempt to assess the cross-cultural validity/applicability of the Child Sexual Abuse Myth Scale.

Professor Johnson’s research is focused on ecology and evolution of plant pollination systems. He has contributed significantly to the scientific understanding of the evolutionary diversification of plants in southern Africa and the ecological requirements that plants have for their reproduction. He has a growing interest in the chemical signals that plants use to attract pollinators and has established the best-equipped laboratory in Africa for the study of plant volatiles and insect physiological and behavioural responses to these volatiles. He received the NRF President’s award (1999) and the Vice-Chancellors Research Award (2002). He currently holds an NRF B1 rating and the South African Chair in Evolutionary Biology.
PROFESSOR PHILIPPE DENIS  
School of Religion and Theology  
denis@ukzn.ac.za  
Professor Denis’ main areas of research are the history of the Reformation, the history of Christianity in Southern Africa, the history of HIV and AIDS in Africa, oral history methodology and memory work. Born in Belgium, Professor Denis graduated with a PhD in History from the University of Liège. He has lectured at the University of KwaZulu-Natal since 1993 and is visiting professor at the History Department of the University of Louvain since 2001. In 2006 he was elected associate member of the Royal Academy of Belgium. He has authored, co-authored or edited 20 books and published more than 100 peer-reviewed journal articles and book chapters. He is currently the Chairperson of the Oral History Society of South Africa and of the Church History Society of South Africa. An important part of his time is dedicated to the Sinomlando Centre for Oral History and Memory Work in Africa - a research and community-based project he established in the mid 1990s at the University of KwaZulu-Natal.

DR LINDA VISSEER  
Department of Ophthalmology  
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Dr Visser is the Head of the Department of Ophthalmology which she joined as a specialist in 1995, graduating to a senior specialist in 1998 and principal specialist in 2004. She has supervised or co-supervised seven Masters students and one Doctoral student. Her research studies presently involve multicentre international trials: (i) Allergan diabetic macular oedema trial with Posurderx and (ii) Allergan retinal vein occlusion trial with Posurderx; and a cross-sectional study Retinitis Pigmentosa (RP17). Dr Visser has held and continues to hold a variety of official positions including president of the Vitreoretinal Society of South Africa (2005-2009); founder member and Vice-Chair of the African Vision Research Institute; a member of the Editorial Board of the South African Ophthalmology Journal, and Chair of the Scientific and Medical Advisory Board for Retina SA. She has published in several journals and booklets dealing with eye health.

PROFESSOR MARITA CARNELLEY  
Faculty of Law  
carnelleym@ukzn.ac.za  
Professor Carnelley’s main research interest is in the area of Gambling Law, specifically the regulatory aspects vis-a-vis online gambling on a national and international level, as well as the legal ramifications of pathological gambling and cheating in gambling. Other areas of interest include Family Law and Criminal Law.

PROFESSOR DAVID MCQUOID-MASON  
Faculty of Law  
mcquoidm@ukzn.ac.za  
Professor J McQuoid-Mason is a Professor of Law at the Centre for Socio-Studies; a Director of the South African Street Law programme; and President of the Commonwealth Legal Education Association. He has facilitated at numerous NGO training workshops on Street Law, Human Rights and Democracy in a variety of African and overseas countries as well as in the establishment of paralegal advice offices in Sierra Leone, Mongolia, Moldova and Cambodia. He has conducted clinical legal education training programmes for African law professors from 13 African countries in South Africa, Nigeria and Uganda. He also conducts regular medico-legal seminars in South Africa. Professor McQuoid-Mason has published over 100 articles in law journals, 30 chapters in books and 12 books. He has delivered over 130 papers at national conferences and over 80 at international conferences. He was awarded a Special Mention by UNESCO for his work in human rights education in 2004.
DR SHANTA SINGH  
School of Sociology and Social Studies  
Singhsb@ukzn.ac.za  

Dr Singh, a senior Criminology lecturer, has contributed to Criminological and Sociological research discourses on HIV and AIDS, Prison overcrowding, Foreign Nationals in South Africa, the Indian Diaspora, Substance abuse and Juvenile offences. She is conducting collaborative research in India on the impact of prison administrative personnel and their morale on the rehabilitation of offenders. Dr Singh has received the NRF research grant, “Women in Research”, and is also conducting collaborative research on the problem of HIV and AIDS in prison, both nationally and internationally. Dr Singh is currently engaged in research on Criminology in the 21st Century and its position in contemporary society.

PROFESSOR JULIAN MAY  
School of Development Studies  
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Professor May is the principal researcher for the KwaZulu-Natal Income Dynamics Survey (KIDS), a ten-year quantitative and qualitative panel study of poverty dynamics in KwaZulu-Natal. In 1999, Professor May was appointed by the UNDP onto an evaluation team to examine the impact of their US$20 million Poverty Strategy Initiative and undertook research in Uganda, Zambia, Lesotho and the Maldives. Recently, he has worked in Lesotho and the Maldives developing national poverty monitoring systems. Between 1994 and 1998, he led the Poverty and Inequality Report commissioned by the Office of the Deputy President of South Africa and the South African Participatory Poverty Assessment. He has also worked with a number of government departments in the development of poverty reduction policy options and systems for monitoring the impact of policy, including the social security grants. He is currently working with the London School of Hygiene and Tropical Medicine on a study investigating the economic impact of AIDS related mortality. Professor May has published more than 50 papers in books and accredited journals and produced more than 120 working papers, research reports and other publications.

PROFESSOR MIKE PERRIN  
School of Botany and Zoology  
perrin@ukzn.ac.za  

Professor Perrin is a population-conservation biologist with interests in animal behaviour and eco-physiology. While in the past he worked on rodents, elephant-shrews, small carnivores and ungulates, his current focus is on African parrots and he is Director of the Research Centre for African Parrot Conservation. Professor Perrin recently completed a Darwin Initiative project with Professor Terry Burke and Dr Tee Taylor to prevent illegal trading in South African cranes and the endemic Cape Parrot and has started collaboration with Dr Tim Coles of Operation Wallacea on several research projects including space use and habitat preferences of African wild dogs and cheetahs. He has supervised more than 60 masters and doctoral projects and published more than 200 scientific papers.

PROFESSOR SHANNON HOCTOR  
Faculty of Law  
hoctors@ukzn.ac.za  

Professor Hoctor’s particular research interests include the general principles of criminal law, specific crimes, the impact of the Bill of Rights on criminal law and legal history. He obtained the BA, LLB and LLM degrees at the University of Cape Town, before completing a DJuris at Rijksuniversiteit Leiden in the Netherlands. Professor Hoctor previously taught at the University of Cape Town and the University of Port Elizabeth before taking up a Chair at the Pietermaritzburg campus of the University in July 2002. Responsible for teaching courses in substantive criminal law at undergraduate and postgraduate levels, he acts as programme co-ordinator for the LLM in Advanced Criminal Justice. He is Editor of the South African Journal of Criminal Justice and Assistant Editor of Obiter as well as being a member of a number of professional societies.
PROFESSOR JOHANNES VAN STADEN
School of Botany and Zoology
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Professor van Staden 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, plant tissue culture, ethnobotany, secondary products and ethnomedicine. He is the author/co-author of 1010 papers which have been published in ISI rated journals. In 2002 he fell within the top 0.5 percent of most cited authors internationally. He has a large number of publications that qualify as citation classics. Professor van Staden is the Editor-in-Chief for the South African Journal of Botany and a Managing Editor of the Journal of Ethnopharmacology and Plant Growth and Development as well as being on the editorial boards of many other journals. In 1999 he became Director of his own postgraduate research centre the Research Centre for Plant Growth and Development. He has supervised 69 MSc and 78 PhD students and 43 postdoctoral, many of whom are now working in research laboratories all over the world.

PROFESSOR PETER LEACH
School of Mathematics
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Professor Leach's current research activities involve the utilization of symmetry and singularity analyses of differential equations in terms of theoretical properties and with applications to the Mathematics of Finance, Epidemiology, Ecology, Quantum Mechanics, Mathematical Physics and Classical Mechanics. He is the author of more than 230 refereed articles, serves on five editorial boards, is a Fellow of the Royal Society of South Africa, a member of the Academy of Nonlinear Sciences and is on the Scientific Advisory Board of the South African Centre of Excellence in Mathematical Analysis.

PROFESSOR HONG-KUN XU
School of Mathematical Sciences
Xuhk@math.nsysu.edu.tw

Professor Xu was a Senior Professor in the School of Mathematical Sciences until December 2007. The winner of the 2004 South African Mathematical Society award, Professor Xu has published more than 130 journal articles and is an editorial member of more than 10 international mathematical journals.

PROFESSOR MANAGAY REDDI
Faculty of Law
reddim@ukzn.ac.za

Professor Reddi’s current research interests focus on violence against women while her specialist areas of teaching and research are in the fields of criminal law and procedure, gender and the law, and international criminal law. She has published a number of articles in these areas. Professor Reddi has also read papers in her specialist areas of law at both national and international conferences. She is an advocate of the High Court of South Africa and is the Deputy Dean of the Faculty of Law at Howard College.
Professor Maharaj's current research interests include symmetries on manifolds, exact solutions to the Einstein field equations, ultra-compact matter, relativistic radiating stars and inhomogeneous cosmological models. He was appointed Director of the Astrophysics and Cosmology Research Unit of UKZN from January 2006 and held the position of Head of the School of Mathematical and Statistical Sciences for four years. More than 80 of his research papers have appeared in international journals and he has edited three books. His research papers have been published in high profile journals including Classical and Quantum Gravity, General Relativity and Gravitation and the Journal of Mathematical Physics. Professor Maharaj is the recipient of the Vice-Chancellor’s Research Award, South African Mathematical Society (SAMSI) Medal for the International Year of Mathematics. Other recent awards and achievements include: Finalist in the 2007 NSTF Science and Technology Awards (in the category Research Capacity Development), the Eskom Research Capacity Development Award in 2007, and a SARChI Research Chair in Gravitating Systems awarded by the Department of Science and Technology and National Research Foundation in 2006.

Professor Bond directs the Centre for Civil Society (CCS) within the School of Development Studies. His publishing output has been spurred by the high-intensity production of knowledge that can be credited to South African, African and global civil society (often in conflict with state and capital) and by his colleagues’ ability to carefully relate the worlds of intellectuals and social change activists. Documenting the concerns of a mobilised, active citizenry has allowed Professor Bond to offer journals and book publishers cutting-edge material related to water and sanitation, energy/electricity, climate change mitigation, World Social Forum strategy debates, social movement mobilisations, South African and Zimbabwean political economy, African economics, controversies surrounding President Thabo Mbeki’s “Two Economies” thesis, microcredit, health policy, global economic crisis, and extraction of resources from the continent. His work has been carried in a variety of periodicals and he recently co-edited books with CCS colleagues Homann Chitonge and Rehana Dada. During 2007, he also presented lectures based on these publications at dozens of leading universities and conferences in North America, Latin America, Europe, Asia and Australia, and worked closely with the Council for the Development of Social Science Research in Africa and other research institutes.

Professor Phiri, former Head of the School of Religion and Theology, has been involved in the following research:

- Gender, Violence and HIV and AIDS prevention: Behaviour change interventions for church couples in Pietermaritzburg funded by the Centre for Interdisciplinary Research on AIDS at Yale University in the United States as part of collaborative research with the Circle of Concerned African Women Theologians.

- Broken Women, Healing Traditions? Indigenous Resources for gender critique and social transformation in the context of AIDS. It is funded by the National Research Foundation and involves team research by a South Africa/ Norway Research Co-operation programme.

- Catalysed Oxidative Processes - Focus is on developing competitive technologies including the Advanced Oxidation Processes (ACP), using ozone/hypochlorite/ oxygen as oxidants - for conversions to value added products and for the disinfection and treatment of drinking and waste water, as well as for industrial bleaching processes. The other goal of the studies is to synthesize and characterize new catalyst materials, with diverse supports and to modify the commercially available zeolites by loading different metals to improve shape selectivity and efficiency of the catalysts.

- Environmental Chemistry - With emphasis on the elemental uptake by edible vegetation, his Group is actively involved in a number of studies to facilitate a sustainable environment. Concluded projects include the assessment of impact of arsenic-rich mine dumps on the river streams and habitat, and the effect of soil contamination and coal mine soil on the elemental uptake by spinach, mushrooms, ginger, African potato and various seaweeds including Gelidium sp, sea grapes and sea lettuce.

Professor Phiri has co-authored and co-edited a variety of books and has contributed chapters to a wide selection of publications.

Having more than 100 research publications in peer-reviewed international journals, Professor Jonnalagadda’s research interests are spread broadly in two areas:

- Competitive Technologies - Focus is on developing competitive technologies including the Advanced Oxidation Processes (ACP), using ozone/hypochlorite/oxygen as oxidants - for conversions to value added products and for the disinfection and treatment of drinking and waste water, as well as for industrial bleaching processes. The other goal of the studies is to synthesize and characterize new catalyst materials, with diverse supports and to modify the commercially available zeolites by loading different metals to improve shape selectivity and efficiency of the catalysts.

- Environmental Chemistry - With emphasis on the elemental uptake by edible vegetation, his Group is actively involved in a number of studies to facilitate a sustainable environment. Concluded projects include the assessment of impact of arsenic-rich mine dumps on the river streams and habitat, and the effect of soil contamination and coal mine soil on the elemental uptake by spinach, mushrooms, ginger, African potato and various seaweeds including Gelidium sp, sea grapes and sea lettuce.
PROFESSOR PATRICIA BERJAK
School of Biological and Conservation Sciences
berjak@ukzn.ac.za

Professor Patricia Berjak has worked extensively in the field of seed biology, initially on the mechanics of deterioration of stored orthodox seeds and the problems posed by the inherent xero tolerant mycoflora and – for the past 25 years – on recalcitrant seeds. Along with her collaborator and husband, Professor Norman Pammenter, and a succession of research students, she has published extensively in the area of recalcitrant seeds. Professor Berjak’s endeavours have gained her several honours, including recognition by the South African Department of Science and Technology as the 2004 Distinguished Women Scientist; induction as a Fellow of the Academy of Sciences for the Developing World in 2005, and in 2006, the award of the seldom-bestowed Gold Medal of the South African Association of Botanists.

Also in 2006, she was honoured by the award of the National Order of Mapungubwe: Silver, for her contributions to seed science, and most recently by the National Research Foundation President’s Lifetime Achievement award. Professor Berjak collaborates locally with colleagues at the University of Witwatersrand, the University of Cape Town and the Wildlife Biological Resource Centre of the National Zoological Gardens in Pretoria. Internationally, she has strong links with the Millennium Seed Bank KEW, in the UK, and the National Center for Genetic Resources Conservation, Fort Collins, in the United States.

In July 2008, Professor Berjak assumed the role of President of the International Society for Seed Science, and is currently one of two Vice-Presidents of the Academy of Sciences of South Africa. She is also the co-convenor of the series of specialist international workshops on desiccation-tolerance and sensitivity in seeds and vegetative plant tissues.

PROFESSOR REMBRANDT KLOPPER
School of Information Systems and Technology
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Professor Klopper is the research co-ordinator at the School of Information Systems and Technology where he supervises masters and doctoral students doing research by dissertation on particular aspects of Informatics such as e-education, e-learning, mobile communication, particularly the adoption of emerging forms of electronic communication. Over the past three years he has read papers on particular aspects of e-government at four international conferences. Professor Klopper is an interdisciplinary scholar engaging in and publishing the results of research focusing on interrelated aspects of informatics, communication science and cognitive science, either as sole author or a co-author. Professor Klopper has over the past decade supervised scores of masters and doctoral students working in one of the above disciplines. He is special issues editor of the South African scholarly journal Alternation for which he has edited cognitive science, informatics and management studies issues.
MR ANDRE LOUW  
Faculty of Law  
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Mr Louw is an attorney of the High Court of South Africa and teaches Contract and Intellectual Property Law at UKZN. He is currently completing his LLD in Sports Law through the University of Stellenbosch. His research interest is exclusively in Sports Law and he is one of about four academics in South Africa who actively work in this field. He has published extensively on Sports Law topics in recent years and is currently writing a chapter on South Africa for Kluwer Law International’s publication: International Encyclopaedia of Sports Law. The publication is a comparative law source which forms part of the International Encyclopaedia of Law series aimed at providing a source of reference for comparative research regarding the legal systems in different jurisdictions. It is due to be published early in 2009.

PROFESSOR DEOGRATIUS JAGANYI  
Faculty of Science and Agriculture  
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Professor Jaganyi, Deputy Dean at the Faculty of Science and Agriculture in Pietermaritzburg, is an internationally acclaimed academic whose research interest focuses mainly on mechanistic studies of chemical reactions. He uses modern kinetic techniques to monitor rates of reactions and hence elucidates the molecular nature of the reactions. His kinetic study of the rates of hydroboration reactions are of fundamental importance to the production of olefins, the primary feedstock for very important polymerisation processes such as the manufacture of plastic.

Professor Jaganyi is also involved in the mechanistic investigation of biorelevant platinum (II) complexes of the cisplatin type which are among the most effective anti-cancer drugs known. The thrust of this research is to tune the reactivity of these complexes through structural change and to contribute towards a better understanding of how these complexes are likely to react in vivo. He has published some of his work in Nature, one of the most widely-respected scientific journals in the world. In addition his results in the area of transition metal chemistry has been published in some of the most prestigious journals in chemistry. Professor Jaganyi’s work has not gone unnoticed – in 2000 he was awarded the prestigious Daimler Chrysler Fellowship of the Alexander von Humboldt Foundation which saw him spend one year in Germany at the University of Erlangen-Nurnberg. In 2007, the Department of Trade and Industry (DTI) awarded him the THRIP award for “The Outstanding Black Researcher/Project Leader for 2007” for his work on the Double Bond Isomerisation Project. In addition he is a referee for top international journals in chemistry and serves on a variety of important research committees of the National Research Foundation.
Professor Moodley was the previous Head of Department of Obstetrics and Gynaecology and is currently Professor Emeritus in the Department. Professor Moodley continues his interests in maternal and fetal medicine, with a focus on hypertensive disorders of pregnancy. He is the current Chair of the National Committee on Confidential Enquiries into Maternal Deaths and assists both the Provincial and the National Departments of Health with advice on maternal health. He is Regional Editor and Advisory Board Editor for the European Journal of Obstetrics and Gynecology and Reproductive Biology and is still a B-rated NRF researcher.

Professor Edwards’ was offered the post of Research Fellow in Pietermaritzburg shortly after finishing his Masters degree and for nearly 20 years he remained in this position as Curator of the University Herbarium at the then Natal University. During this period Professor Edwards attained his PhD which was awarded the coveted Captain Scott Medal for the best PhD of that year. Together with the postgraduates under his supervision, Professor Edwards has published nearly 100 peer-reviewed scientific papers and has made more than 80 presentations at local and international conferences. The primary focus of this work has been examining the diversity, breeding systems and conservation of the eastern seaboard flora of South Africa. Nearly 40 species new to science have been described by Professor Edwards and his team of dedicated students. In addition, many classification errors have been rectified helping to avert conservation threats to poorly known species.

Professor Mulholland’s research interests lie in the field of isolating and identifying novel compounds from natural sources. She is particularly interested in compounds with anti-inflammatory, cardio-vascular and anti-cancer activity and has many international collaborators, investigating the pharmacological properties of compounds isolated by her Group. In 2003, she was recognised for her significant contribution to UKZN by a Special Award from Convocation. She is presently Professor of Biological Chemistry at the University of Surrey in Guildford, England, but maintains strong links with UKZN, co-supervising post-graduate students and collaborating on research projects. She was appointed Head of the School of Pure and Applied Chemistry in 2002 and subsequently Head of the new School of Chemistry after the amalgamation of the University of Natal and University of Durban-Westville. In her 15 years at UKZN she produced over 150 research papers and supervised 25 MSc and 22 PhD degrees. She serves on the editorial boards of Planta Medica and the Journal of Ethnopharmacology and is Subject Editor for Phytochemistry for Phytochemistry Letters.
Featured Researchers
PROFESSOR ORDE MUNRO  
Recipient of the Vice-Chancellors Research Award 2007  
School of Chemistry  
munroo@ukzn.ac.za  
Professor Munro’s areas of specialisation are in the fields of synthetic, structural, computational and supramolecular chemistry. His core research techniques include: (1) Electron Spin Resonance (ESR), Mossbauer, electronic, time-resolved fluorescence (nano- and microsecond lifetimes) and multinuclear Nuclear Magnetic Resonance (NMR) spectroscopy; (2) parameterisation of empirical force fields, conformation analysis and molecular simulations (molecular mechanics, semi-empirical, Density Functional Theory (DFT), and ab initio quantum mechanics, molecular and Langevin dynamics); and (3) X-ray crystallography (single crystal methods). Professor Munro has co-authored a number of books and other publications.

PROFESSOR SALIM S. ABDUOL KARIM  
Pro-Vice-Chancellor (Research), University of KwaZulu-Natal & Director of the Centre for the AIDS Programme of Research in South Africa (CAPRISA)  
Karims1@ukzn.ac.za  
Professor Abdool Karim, Pro-Vice-Chancellor (Research) at UKZN, is a clinical infectious diseases epidemiologist whose main current research interests are in microbicides and vaccines to prevent HIV infection and implementing antiretroviral therapy in resource constrained settings. He has published widely on infectious diseases, including AIDS, Measles and Hepatitis B and co-edited the textbook widely used to teach epidemiology in South Africa as well as a book on HIV and AIDS in South Africa. He is the Chair of the Scientific and Technical Advisory Group for Reproductive Health at the World Health Organisation; a Steering Committee member of the Gates Foundation’s Global HIV Prevention Working Group and an Executive Committee Member of the National Institute of Health (NIH)-funded Microbicide Trials Network. He is also Professor of Clinical Epidemiology at the Mailman School of Public Health at Columbia University and Adjunct Professor of Medicine at the Weill Medical College of Cornell University.

PROFESSOR MICHAEL GREEN  
School of Literary Studies, Media and Creative Arts  
greenm@ukzn.ac.za  
Head of the School of Literary Studies, Media and Creative Arts, Professor Green, has published many academic articles mainly on the uses of history in fiction, which is also the subject of his scholarly book Novel Histories (WUP, 1997). He has published two works of historical fiction: Sinking: A Verse Novella (Penguin, 1997) which won the University of Natal Book Prize in 1998 and For the Sake of Silence (Umuzi/Random House, 2008). Green has won a Commonwealth Fellowship and twice been the recipient of the University’s Distinguished Teacher’s award. He was elected as Chair of the Association of University English Teachers of Southern Africa for 2005 – 2007, and re-elected for 2008-2010. He has served as a committee member for the UKZN Press and has served as Chair of this committee. Professor Green is on the board of several journals, is a reader for two publishing houses, and is a rated researcher with the National Research Foundation.

DR IRENE MACKRAJ  
Department of Physiology  
mackraji@ukzn.ac.za  
Dr Mackraj’s main research area is the identification of blood pressure-lowering plants and the molecular basis of action. A press release of her research teams preliminary findings was delivered in Washington in the United States in 2007 at the FASEB (Experimental Biology) conference. She is currently involved as a principal investigator and collaborator in several other research projects, including Drug Delivery Systems, and the pathogenesis and treatment of pre-eclampsia at the Nelson R Mandela School of Medicine. She has both international and local collaborators and has made visits to universities in the United States to pursue her collaborative links and further her research goals.
Professor Buckley was a founder member of the Pollution Research Group which investigated the reduction of water pollution through the closed loop treatment of water, chemicals and energy. These objectives are as relevant today as they were in the early 1970s. Professor Buckley then undertook research for the Water Research Commission on industrial problems associated with the textile industry, membrane processes and brine treatment. More recent research has focused on industrial sustainability through the promotion of cleaner production in both the municipal (water supply and wastewater treatment) and industrial sectors (textile, mining, power generation and coal to fuel processing). Professor Buckley has served two terms on the Minister of Water Affairs Advisory Committee and undertaken studies for UNEP and UNIDO on promoting cleaner production in industry in Africa.

Dr Moodley’s research interest is in the area of cosmology and involves confronting cosmological theories with observational data, in particular observations of the cosmic microwave background and large-scale structure. He is a scientific board member of the international Atacama Cosmology Telescope Project and was a member of the International Science Working Group for the Square Kilometer Array Project in 2005 and 2006. Professor Moodley won the South African Institute of Physics Silver Jubilee Medal in 2007.

Professor Farisani’s research concentrates on (1) how the African indigenous languages can be used in the teaching and learning of Biblical Hebrew and (2) showing how - with the use of a sociological analysis - biblical texts can best be used to address some of the current challenges facing the African continent. Professor Farisani who teaches the Hebrew Bible and Biblical Hebrew, is currently involved in research initiatives which include a National Research Foundation backed study to explore how Romans 12 can be used in a quest for an African theology of renewal, transformation and reconstruction. The study’s main focus is on the sociological analysis of this text with a view to appropriating such an analysis in a quest for an African theological reconstruction in South Africa. He is also involved in a book project aimed at bringing together the theological discourses of African American and South African religious studies and theology.

Professor Stiebel, Academic Co-ordinator of English Studies on the Howard College campus, has recently completed a five year NRF project that explores links between writers and place in KwaZulu-Natal. This project is unique in South Africa in its development of Literary Tourism as a research field – to date the website (www.literarytourism.co.za) hosts entries on 60 KwaZulu-Natal writers, together with research papers gathered from the project’s workshops, podcasts, current book reviews and interviews. Four literary trails have been developed thus far with the latest on Cato Manor writers providing scope for community involvement. Considerable international and national response to the KZN Literary Tourism initiative has been received, with the website receiving upwards of 5000 “hits” a month. Professor Stiebel’s research on links between writers and place has also produced a book on Rider Haggard, Imagining Africa (Greenwood Press, 2001); a CD-ROM on the 19th Century Explorer and artist Thomas Baines, Thomas Baines and the ‘Great Map’ (Campbell Collections 2001); and a book co-edited with Professor Liz Gunner on Lewis Nkosi, Still Beating the Drum, (Wits University Press 2006). She is currently working on a commissioned volume on Rider Haggard for Chatto and Pickering as part of their prestigious series Lives of Victorian Literary Figures which is due out in 2009.
PROFESSOR DELIA NORTH  
School of Statistics and Actuarial Science  
northd@ukzn.ac.za  
Professor North’s research interest is the emergence of probabilistic reasoning and the contribution thereof to general statistical literacy. She assisted with the defining of the data handling component of the new school curriculum in South Africa, a collaborative research project with statistics specialists from Italy and England. Collaborative research with international leaders in statistics education in Australia, the United States and England has contributed to Professor North being the leader in research on the effect of statistics training of in-service mathematics school teachers in South Africa. The various research projects she has run in this regard have led to her being an invited speaker, session organiser, topic convener and plenary panel member at a variety of international statistics education conferences. Professor North is passionate about the development and application of Statistics in South Africa, at all levels. She has delivered papers and led workshops each year (since 1981) at annual conferences of the South African Stats Association. She serves on various national statistics steering committees.

PROFESSOR KESH GOVINDER  
School of Mathematical Sciences  
govinder@ukzn.ac.za  
Professor Govinder’s research is focused on differential equations. He develops and extends techniques for analysing and solving both ordinary and partial differential equations. These techniques involve group theory, singularity analysis and a dynamical systems approach. In addition he tackles applications of differential equations in Mathematical Physics (mainly General Relativity and Gravitation) as well as Mathematical Biology.

DR PRANITHA MAHARAJ  
School of Development Studies  
maharajp7@ukzn.ac.za  
Dr Maharaj’s research focuses on the area of sexual and reproductive health, with special reference to HIV and AIDS and family planning. She is currently involved in a number of research projects in this area and has published numerous scientific articles in local and international peer-reviewed journals, abstracts, research reports and chapters in books. She is the academic co-ordinator of the Masters in Population Studies. In 2007 she was awarded the Erasmus Mundus Scholarship to carry out scholarly work in Europe. As part of the scholarship, she spent three months teaching at Linkoping University in Sweden.

PROFESSOR SHERYL HENDRIKS  
School for Agricultural Sciences and Agribusiness  
hendriks@ukzn.ac.za  
Household food security, empirical measurement of food security, agricultural growth linkages and household coping strategies comprise the main areas of research undertaken by Professor Hendriks, who is the initiator and leader of the African Centre for Food Security (ACFS) and Head of School for Agricultural Sciences and Agribusiness. Professor Hendriks is a recipient of the University’s Distinguished Teachers’ Award and the Nells Westermark Award for the Best Poster at the 2006 International Agricultural Economics Association Conference. She was rated one of the University’s most promising young researchers in 2003 and was placed eighth in the South African National Research Foundation’s Women in Research Rating for 2007. Professor Hendriks has published 23 peer reviewed journal articles, three chapters in books and monographs, 24 refereed conference proceedings, presented 14 invited plenary papers on food security and authored 12 policy and technical papers and reports, including providing lead authorship of the CAADP Framework for African Food Security.
Dr Singh, the recipient of the National Research Foundation Thuthuka Award from 2003 to 2008, has conducted research on the chemical analysis of in vitro-generated plants/tissues/organs. At present she is leading a research team working on the large scale production of important phyto-compounds using bioreactor technology. Dr Singh acquired bioreactor technology in South Korea during a sabbatical in 2005 at Chungbuk National University where she also worked with Dr Yaser Dewir who presently holds a postdoctoral fellowship in her research programme at the School of Biological and Conservation Sciences on the Westville campus. She has authored several peer-reviewed journal articles and made presentations at several conferences, that include the International Congress of Environmental Research, which was held in Bhopal, India, where she delivered a paper on the evaluation of betulinic acid in field and in vitro plants of Syzygium cordatitum.

Professor Tongoona's research interests are centred on breeding for low phytic acid maize and sorghum grains to improve the bioavailability of micronutrients (iron, zinc, calcium) to monogastric consumers such as humans, pigs and poultry; and the development of male sterile lines for use in the generation of hybrids in sorghums and millets. Professor Tongoona, who joined the UKZN from Zimbabwe in 2004, has supervised 14 PhD and 16 MSc/MPhil students in Plant Breeding.

Prior to his appointment as Acting Dean in the Faculty of Education, Professor Samuel served on the Ministerial Committee on Teacher Education which gave rise to the construction of the National Policy Framework for Teacher Education and Development in 2007. He has participated in international studies supported by the Department for International Development in the United Kingdom involving researching teacher education in Ghana, Malawi, Lesotho, Trinidad & Tobago, and South Africa (1998-2003). Another international research project looked at who sits at the margins of schooling in South Africa and in India (2002). Both these studies involved collaboration with the University of Sussex, Centre for International Education. He was also part of the technical advisory team involved in a major research project undertaken by the Human Sciences Research Council (HSRC) on behalf of the Education Labour Relations Council, reviewing the national teacher supply and demand challenges in the context of the HIV and AIDS pandemic in South Africa (2004). He has delivered conference papers at a range of international and national conferences and published in national and international journals.

Professor Stainbank's research interests include accounting education, differential reporting, employee reporting and professional accounting education programmes. She is currently collaborating on an international research project to develop an Accountancy Development Index. Professor Stainbank, who is in the Faculty of Management Studies, is a co-author of the textbook A Student's Guide to International Financial Reporting which is prescribed by seven universities in South Africa at either the third year- or honours level. She has published in the SA Journal of Accounting Research, Meditari Accountancy Research and Accounting Education: An International Journal. Professor Stainbank is currently serving on the editorial boards of the SA Journal of Accounting Research and the African Journal of Accounting, Economics, Finance and Banking Research and is an Editorial Adviser to Accounting Education: An International Journal.
PROFESSOR THENJWE MAGWAZA
School of Anthropology, Gender & Historical Studies
Magwazat1@ukzn.ac.za
Professor Magwaza, a gender and social justice activist, is a prolific researcher who is currently working on two research projects - one of which is funded by the Organisation of Social Science Research in Southern and East Africa (OSSREA) and the National Research Foundation. Her area of expertise, research and teaching is the cultural constructions of gender with a special focus on the Zulu language and culture, motherhood, Durban-based refugees, and the impact of HIV and AIDS on women and homecare givers. She has published more than 20 national and international papers and book chapters in these areas. An Associate Professor and Head of the Gender Studies Programme, Professor Magwaza is the recipient of many awards including the Fulbright research scholarship and an award from the UN-established University for Peace.

DR KALPANA HIRALAL
School of Anthropology Gender and Historical Studies
Hiralalk@ukzn.ac.za
Dr Hiralal, whose research interests include women and empowerment, ethnic studies and diaspora issues, is currently working on the history of the Gujarati community in KwaZulu-Natal as well as political resistance of women in colonial Natal. She is also completing a paper on women and empowerment in the informal sector in South Africa. Dr Hiralal has been the recipient of several awards in research including: The National Research Foundation Grant Thuthuka, for the period 2003-2008; UKZN Certificate of Excellence for making significant progress in the National Research Foundation’s Thuthuka Programme (2004); Awarded Thuthuka, Women in Research Post Doctoral Scholarship, from the National Research Foundation to conduct research at Dalhousie University, Halifax, Nova Scotia, Canada, during August 2004 to January 2005. This award gave her the opportunity to undertake collaborative research within the International Development Studies Unit at Dalhousie University; awarded the Nordic Africa Guest Scholarship at the Nordic Africa Institute in Uppsala, Sweden in September December 2007.

DR RON UKEN
School of Geological Sciences
uken@ukzn.ac.za
Dr Uken, a Senior Lecturer in Economic Geology and Director of the Marine Geoscience Unit (MGU), has varied research interests which include deformation and intrusion mechanisms associated with the Bushveld Complex, the world’s largest single resource of platinum, chrome and vanadium. An understanding of the dynamic nature of the floor structures within the complex, have become central to developing new exploration targets. He has been part of ongoing applied geological research with Richards Bay Minerals, in the age and evolution of this world class dune ore deposit. An understanding of these dune systems led to his involvement in Marine Geology and the dynamics of coastal and estuarine processes as well as the adjoining continental shelf. These studies include the geology and evolution of the Alwai Shoal, the Durban Bight, the Bluff and adjoining Blood Reef. With the discovery of Coelacanths in the Sodwana canyons in 2000, the MGU became involved with mapping and studying the evolution of these impressive canyon systems. The African Coelacanth Ecosystem Programme (ACEP) has since entered its second phase and projects now include studies on the sedimentology and nanofossil distribution of the KwaZulu-Natal Bight and palaeoclimate studies on coral cores from Sodwana and the greater western Indian Ocean.
## RESEARCH GRANTS AND CONTRACTS 2006 (more than R100 000)

### COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

#### FACULTY OF ENGINEERING

<table>
<thead>
<tr>
<th>Investigator name</th>
<th>Project Title</th>
<th>Funder Name</th>
<th>Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROFESSOR RE SCHULZE</td>
<td>Applications of rainfall forecasts for agriculturally related decision making in selected catchment</td>
<td>Water Research Commission</td>
<td>R 5,700,000</td>
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<tr>
<td>PROFESSOR CA BUCKLEY</td>
<td>The development of research capacity and the conduct of research into water and sanitation delivery</td>
<td>eThekwini Municipality</td>
<td>R 2,500,000</td>
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<tr>
<td>DR SA LORENTZ</td>
<td>An Investigation into the Effects of Atmospheric Pollutants on Surface Water Quality in the Eastern Regions of South Africa</td>
<td>Water Research Commission</td>
<td>R 1,435,300</td>
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<tr>
<td>PROFESSOR RE SCHULZE</td>
<td>Regional aspects of climate change and their secondary impacts on water resources</td>
<td>University of Cape Town</td>
<td>R 1,341,780</td>
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<td>PROFESSOR CA BUCKLEY</td>
<td>Anaerobic membrane bioreactor</td>
<td>Water Research Commission</td>
<td>R 693,280</td>
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<tr>
<td>DR JC SMITHERS</td>
<td>Funding of a Research Fellowship for the School of Bioresources Engineering and Environmental Hydrology</td>
<td>South African Sugarcane Research Institute</td>
<td>R 321,000</td>
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<tr>
<td>PROFESSOR CA BUCKLEY</td>
<td>Technical Agreement: Applying and further developing the protocols developed for determining the treatability of toxic liquid effluents by anaerobic digestion</td>
<td>Sasol Technology (Pty) Ltd</td>
<td>R 280,000</td>
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<td>MR SA MC DONALD</td>
<td>Embedded C Course outline - Version 2</td>
<td>UEC Technologies (Pty) Ltd</td>
<td>R 184,110</td>
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<tr>
<td>PROFESSOR DR ARNOLD</td>
<td>Project Jumbo Pilot Plant Runs C10</td>
<td>International Furan Technology</td>
<td>R 156,146</td>
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#### FACULTY OF SCIENCE AND AGRICULTURE

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<th>Funder Name</th>
<th>Amount Awarded</th>
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<tr>
<td>PROFESSOR MD LAING</td>
<td>Providing young scientists from Eastern and Southern Africa with Ph.D. training in modern crop breeding</td>
<td>Rockefeller Foundation</td>
<td>R 7,595,496</td>
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<tr>
<td>DR SD JOHNSON</td>
<td>Chair in Evolutionary Biology</td>
<td>National Research Foundation</td>
<td>R 7,500,000</td>
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<tr>
<td>PROFESSOR MD LAING</td>
<td>Provide young scientist PhD training in modern crop breeding.</td>
<td>Rockefeller Foundation</td>
<td>R 6,200,000</td>
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<tr>
<td>PROFESSOR SD MAHARAJ</td>
<td>Chair in Gravitating Systems</td>
<td>National Research Foundation</td>
<td>R 5,800,000</td>
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<tr>
<td>Project Leader</td>
<td>Project Title</td>
<td>Organization</td>
<td>Funding Amount</td>
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<tr>
<td>PROFESSOR MD LAING</td>
<td>Capacity-Building and Research Activities in Sub-Saharan Africa</td>
<td>Centro Internacional de Mejoramiento de Maiz y Trigo</td>
<td>R 3,502,184</td>
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<tr>
<td>DR NH RODDA</td>
<td>Guidelines for sustainable use of Greywater in Small -scale Agriculture and Gardens in South Africa</td>
<td>Water Research Commission</td>
<td>R 1,670,000</td>
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<tr>
<td>PROFESSOR MD LAING</td>
<td>Cyclotron Mutagenesis of African Food Security Crops</td>
<td>PlantBio Trust</td>
<td>R 1,500,000</td>
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<tr>
<td>PROFESSOR HC MURRELL</td>
<td>Establishment of a KwaZulu-Natal Node</td>
<td>National Bioinformatics Network</td>
<td>R 901,175</td>
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<td>DR JPD GOLDRING</td>
<td>Consortium for the South African Malaria Initiative</td>
<td>University of Pretoria</td>
<td>R 898,990</td>
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<tr>
<td>DR FB AHMED</td>
<td>An investigation into using different satellite remote sensors and techniques to identify, map, and predict the spread and distribution of some major current and emergent invasive plant species in KZN</td>
<td>Department of Agriculture and Environmental Affairs</td>
<td>R 600,000</td>
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<tr>
<td>PROFESSOR KP KIRKMAN</td>
<td>Convergence and Contingencies in Savanna Grasslands</td>
<td>Colorado State University</td>
<td>R 554,692</td>
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<tr>
<td>DR PB TONGOONA</td>
<td>Funding of Innovative Plant Biotechnology Programmes directed to develop the Biotechnology Sector and improve the quality of life of small farmers in South Africa</td>
<td>University of Pretoria</td>
<td>R 483,073</td>
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<tr>
<td>DR D SCOTT</td>
<td>To Develop a set of Tourism Materials and an introductory course: Wetlands 101</td>
<td>Greater St Lucia Wetland Park Authority</td>
<td>R 464,482</td>
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<tr>
<td>DR SJ BROOKS</td>
<td>Farm Dwellers, the Forgotten People? Consequences of conversions to Private Wildlife Production in KwaZulu-Natal</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 436,500</td>
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<tr>
<td>DR PB TONGOONA</td>
<td>Regional training strategies for post - secondary agricultural education in Sub-Saharan Africa: When do they work and how should they be done</td>
<td>World Bank Group</td>
<td>R 327,080</td>
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<tr>
<td>PROFESSOR WN ELLERY</td>
<td>Determination of Landscape Level Impacts and Development of a Loss-of-Function Metric</td>
<td>University of Cape Town/WRC</td>
<td>R 300,000</td>
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<tr>
<td>DR DC KOTZE</td>
<td>The Sustainability Indices Component of the WHI Research Programme</td>
<td>University of Cape Town/WRC</td>
<td>R 300,000</td>
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<tr>
<td>PROFESSOR MJ SAVAGE</td>
<td>Refining tools for evaporation monitoring in support of water resource management</td>
<td>Council for Scientific and Industrial Research/WRC</td>
<td>R 254,900</td>
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<tr>
<td>DR ML HAMER</td>
<td>South Africa’s Hidden Species</td>
<td>EARTHWATCH</td>
<td>R 211,770</td>
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<td>PROFESSOR U BOB</td>
<td>Developing and testing a monitoring and evaluation system to monitor, track and evaluate the Greening of the nation and other SANBI Environmental Education Programmes</td>
<td>The South African National Biodiversity Institute</td>
<td>R 196,000</td>
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<tr>
<td>PROFESSOR R PERISSINOTTO</td>
<td>Climate change &amp; the implications for management and conservation of St. Lucia Estuary</td>
<td>World Wide Fund For Nature</td>
<td>R 171,000</td>
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</tbody>
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### COLLEGE OF HUMANITIES

#### FACULTY OF EDUCATION

<table>
<thead>
<tr>
<th>Investigator name</th>
<th>Project Title</th>
<th>Funder Name</th>
<th>Amount Awarded</th>
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<tbody>
<tr>
<td>DR VR WEDEKIND</td>
<td>Enhancing the Quality of Teacher Education</td>
<td>Norwegian Centre for International Cooperation in Higher Education (SIU)</td>
<td>R 1,196,000</td>
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<tr>
<td>MS TA MBATHA</td>
<td>Evaluation of the IEC/DOE project to infuse teaching of constitutional democracy, peace, human rights and special institutions to learners in grade R-9</td>
<td>Electoral Commission</td>
<td>R 200,000</td>
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<tr>
<td>MRS FY O’BRIEN</td>
<td>Service Learning Capacity Building Programme (SLCBP)</td>
<td>JET Education Services</td>
<td>R 120,000</td>
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#### FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES

<table>
<thead>
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<th>Investigator name</th>
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<tr>
<td>PROFESSOR GC LINDEGGER</td>
<td>Strengthening Ethical Priority Areas for South African HIV Vaccine Trials</td>
<td>Medical Research Council</td>
<td>R 3,264,902</td>
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<tr>
<td>MR IAK VALODIA</td>
<td>Gender &amp; Taxation</td>
<td>International Development Research Centre</td>
<td>R 2,105,360</td>
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<tr>
<td>PROFESSOR PS ROBINSON</td>
<td>Determination of New School requirements and property needs over a 10 year development period</td>
<td>Department of Education and Culture</td>
<td>R 1,889,664</td>
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<tr>
<td>PROFESSOR PM ZULU</td>
<td>Partnership between the Office of the Premier of KwaZulu-Natal and the Maurice Webb Race Relations Unit: Servicing Government projects in the Second Economy</td>
<td>KZN Premier’s Office</td>
<td>R 1,876,085</td>
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<tr>
<td>PROFESSOR JD MAY</td>
<td>Poverty and Information and communication Technology systems in urban and rural Eastern Africa (Picture Africa) Case Studies from Kenya, Rwanda, Tanzania and Uganda</td>
<td>Network of Ugandan Researchers and Research Users</td>
<td>R 1,442,822</td>
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<tr>
<td>PROFESSOR PM BOND</td>
<td>Core Funding for the Centre for Civil Society for July 2006 to June 2008</td>
<td>MOTT FOUNDATION</td>
<td>R 1,300,000</td>
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<tr>
<td>PROFESSOR A SITAS</td>
<td>Intergrated Sustainable Rural Development - (ISRD) and Urban Renewal Nodes</td>
<td>Khanya-African Institute for Community-Driven Development</td>
<td>R 1,053,878</td>
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<tr>
<td>PROFESSOR I PETERSEN</td>
<td>Mental Health Policy Development and implementation in four African countries: Breaking the cycle of mental ill-health and poverty</td>
<td>University of Cape Town / DFID</td>
<td>R 841,672</td>
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<tr>
<td>Name</td>
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<td>Funding Organization</td>
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<tr>
<td>PROFESSOR JD MAY</td>
<td>Demographic and poverty dynamics in an African population with high AIDS mortality and implication for social policy</td>
<td>London School of Hygiene &amp; Tropical Medicine /ESRC</td>
<td>R 757,265</td>
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<tr>
<td>MR IAK VALODIA</td>
<td>Globalization, Gender and taxation: Improving revenue generation and Social Protection in developing countries</td>
<td>American University-Bard College/Ford Foundation</td>
<td>R 660,113</td>
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<tr>
<td>DR P MAHARAJ</td>
<td>Transformative Reproductive Health Commodities</td>
<td>International Center for Research on Women</td>
<td>R 487,500</td>
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<tr>
<td>DR V KHUMALO</td>
<td>Study and Revitalisation of Mission Stations in UKZN: Heritage, Tourism and Community Development Project</td>
<td>National Heritage Council</td>
<td>R 450,000</td>
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<tr>
<td>PROFESSOR PG MARE</td>
<td>Exploring cross-generational construction of social identities in contemporary South Africa: Notes from the emergent margins</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 436,500</td>
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<tr>
<td>MR IAK VALODIA</td>
<td>British High Commission - Services Project/Trade Policy/Consultancies/Research</td>
<td>Trade and Industrial Policy Strategies</td>
<td>R 391,590</td>
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<tr>
<td>DR NM MAZIBUKO</td>
<td>Drafting of the Provincial Report for the African Peer Review Mechanism for KwaZulu-Natal</td>
<td>Provincial Government of KwaZulu-Natal</td>
<td>R 348,000</td>
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<tr>
<td>PROFESSOR PM BOND</td>
<td>To Demonstrate to leading Southern African civil society facilitators and intellectuals the strengths and weaknesses of the World Social Forum</td>
<td>Open Society Initiative for Southern Africa</td>
<td>R 325,000</td>
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<tr>
<td>DR DJ SPURRETT</td>
<td>Probability discounting, temporal discounting, and reward bundling in Southern African disordered gamblers</td>
<td>University of Cape Town</td>
<td>R 280,000</td>
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<tr>
<td>MRS BJ KILLIAN</td>
<td>Piloting and Evaluation of Certificate of Education (Working with Children in Adversity)</td>
<td>UNICEF</td>
<td>R 248,000</td>
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<td>MS CJ SKINNER</td>
<td>Support the Micro-Economic Development Strategy (MEDS) for the Western Cape</td>
<td>Department of Economic Development &amp; Tourism (WC)</td>
<td>R 227,977</td>
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<td>PROFESSOR KL DURRHEIM</td>
<td>Construction of Inequality and Justice in Post-apartheid South Africa</td>
<td>Lancaster University</td>
<td>R 205,120</td>
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<tr>
<td>DR MSE VAWDA</td>
<td>Update of Database and Marketing support for Community-Based Tourism products in South Africa</td>
<td>The United Nations World Tourism Organization</td>
<td>R 150,000</td>
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<tr>
<td>PROFESSOR DR WASSENAAR</td>
<td>African Health Research Ethics Symposium (AHRES)</td>
<td>Wellcome Trust</td>
<td>R 145,000</td>
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<td>PROFESSOR DR WASSENAAR</td>
<td>Ethics, Law and Human Rights Thematic working group of the African AIDS Vaccine Programme</td>
<td>UNAIDS-WHO HIV Vaccine Initiative</td>
<td>R 140,000</td>
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<tr>
<td>DR R SOORYAMOORTHY</td>
<td>Compilation of base line social and community studies for Inhlangisi (Zulti-South development) project</td>
<td>Richard Bay Minerals</td>
<td>R 132,232</td>
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<tr>
<td>PROFESSOR PM BOND</td>
<td>To convene a major five-day colloquium with conferencing facilities in other regional cities and two other international cities</td>
<td>Open Society Initiative for Southern Africa</td>
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### RESEARCH GRANTS AND CONTRACTS 2006 (continued)

<table>
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<tr>
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<th>Funder Name</th>
<th>Amount Awarded</th>
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<tr>
<td>MR IAK VALODIA</td>
<td>Transnet-eThekwini Port City joint planning initiative: Economic Sector Review</td>
<td>Urban-Econ KZN (Pty) LTD</td>
<td>R 125,400</td>
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<tr>
<td>PROFESSOR FJ LUND</td>
<td>Informal economy knowledge transfer and capacity support project.</td>
<td>Ethekwini Municipality - Economic Development Department</td>
<td>R 105,000</td>
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<tr>
<td>MS V BAXTER</td>
<td>Gene There, Done That</td>
<td>SA Agency for Science &amp; Technology Advancement</td>
<td>R 101,195</td>
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### COLLEGE OF HEALTH SCIENCES

**FACULTY OF HEALTH SCIENCES**

<table>
<thead>
<tr>
<th>Investigator name</th>
<th>Project Title</th>
<th>Funder Name</th>
<th>Amount Awarded</th>
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<tbody>
<tr>
<td>PROFESSOR LR UYS / PROFESSOR C BURNS</td>
<td>Documentation of the Pioneers of Medicine and Health in South Africa</td>
<td>National Heritage Council</td>
<td>R 415,000</td>
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### NELSON R MANDELA SCHOOL OF MEDICINE

<table>
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<th>Investigator name</th>
<th>Project Title</th>
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<tr>
<td>PROFESSOR UG LALLOO</td>
<td>Implementation of GFATM (Global Fund for AIDS, Tuberculosis and Malaria) Deliverables by the Enhancing Care Initiative, KZN</td>
<td>Department of Health</td>
<td>R 21,296,610</td>
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<tr>
<td>DR P KIEPELA</td>
<td>Pathogenesis of Clade C HIV Infection</td>
<td>Massachusetts General Hospital</td>
<td>R 10,291,724</td>
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<td>PROFESSOR N GOALENI</td>
<td>Inter-Agency PEPFAR Annual program statement US Govt Mission to SA - Biomedical and Traditional Healing Collaboration on HIV and AIDS</td>
<td>Centers for Disease Control and Prevention</td>
<td>R 8,400,000</td>
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<tr>
<td>PROFESSOR SS ABDOOL KARIM</td>
<td>Center for HIV/AIDS Vaccine Immunology (&quot;CHAVI&quot;)</td>
<td>Duke University</td>
<td>R 6,094,134</td>
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<td>PROFESSOR M MARS</td>
<td>Building Informatics Capacity in South Africa</td>
<td>National Institute of Health</td>
<td>R 5,054,718</td>
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<tr>
<td>DR KP MLISANA</td>
<td>Establishment of a SAAVI AIDS vaccine Trial Site in CAPRISA</td>
<td>Medical Research Council</td>
<td>R 3,453,500</td>
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<tr>
<td>PROFESSOR SS ABDOOL KARIM</td>
<td>Center for HIV/AIDS Vaccine Immunology (&quot;CHAVI&quot;)</td>
<td>Duke University</td>
<td>R 2,353,306</td>
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<tr>
<td>DR L KANY KANY</td>
<td>Micronutrients and enteric infections in African Children. Amendment No 5</td>
<td>New England Medical Center Hospitals</td>
<td>R 1,864,772</td>
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<td>MISS AS VOCE</td>
<td>Situational analysis survey of Maternal and Neonatal Health Services</td>
<td>Department of Health</td>
<td>R 1,754,636</td>
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<td>PROFESSOR A COUTSOUDIS</td>
<td>Multi-Country Antiretroviral Treatment Program - Columbia University and University of KwaZulu-Natal in Support of HIV treatment activities at Cato Manor Clinic</td>
<td>Columbia University/ Centre for Disease Control and Prevention</td>
<td>R 1,540,725</td>
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<tr>
<td>DR KP MLISANA</td>
<td>South Africa HIV Vaccine Trials Unit - HVTN 503</td>
<td>Fred Hutchinson Cancer Research Center</td>
<td>R 1,522,903</td>
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<td>DR CM HORWOOD</td>
<td>An evaluation of the South African HIV adaptations to the Integrated management of Childhood Illness in two Provinces of South Africa</td>
<td>World Health Organisation</td>
<td>R 1,188,048</td>
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<td>PROFESSOR Q ABDool KARIM</td>
<td>International Training Program in Epidemiology of AIDS</td>
<td>Columbia University</td>
<td>R 1,096,386</td>
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<tr>
<td>PROFESSOR EM PRESTON-WHYTE</td>
<td>Grant to HIVAN for resources to enhance capacity</td>
<td>Carnegie Corporation of New York</td>
<td>R 900,000</td>
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<tr>
<td>DR R PARBOOSING</td>
<td>Effective screening of potential Anti-HIV compounds</td>
<td>CSIR - Operating Unit of Biosciences</td>
<td>R 861,227</td>
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<td>MR F VAN LOGGERENBERG</td>
<td>An Enhanced adherence support program for HIV and AIDS Antiretroviral Therapy</td>
<td>Columbia University/ Doris Duke Charitable Foundation</td>
<td>R 859,852</td>
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<td>PROFESSOR SS ABDool KARIM</td>
<td>HIV - 1 Cellular Immunity in Exposed Seronegatives</td>
<td>Fred Hutchinson Cancer Research Center</td>
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<td>PROFESSOR M MARS</td>
<td>Maternal and Child Health Training for Sub-Saharan Africa</td>
<td>New England Medical Center Hospitals</td>
<td>R 644,490</td>
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<tr>
<td>MR AL GRAY</td>
<td>International training Program in Epidemiology of AIDS - Year 2</td>
<td>Fogarty International Centre</td>
<td>R 595,350</td>
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<td>PROFESSOR N GQALENI</td>
<td>The International Centre for Indigenous Phytotherapy Studies (TICIPS)</td>
<td>University of the Western Cape/NIH</td>
<td>R 555,043</td>
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<td>DR MYS MOOSA</td>
<td>Epidemiology and Immunogenetics of Immune Reconstruction Inflammatory Syndrome</td>
<td>King’s College London</td>
<td>R 521,500</td>
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<tr>
<td>PROFESSOR CC JINABHAI</td>
<td>Study on Conducting a Gap analysis on public health sector for district hospitals package in SA</td>
<td>Department of Health</td>
<td>R 477,660</td>
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<td>PROFESSOR CC JINABHAI</td>
<td>Study on Technical Efficiency Study in Public Health Sector of district hospitals in SA</td>
<td>Department of Health</td>
<td>R 300,048</td>
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<tr>
<td>PROFESSOR TE MADIBA</td>
<td>Colorectal cancer registry and epidemiology of colorectal cancerin the Province of KwaZulu-Natal, South Africa.</td>
<td>Department of Health</td>
<td>R 175,000</td>
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**COLLEGE OF LAW AND MANAGEMENT STUDIES**

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<th>Project Title</th>
<th>Funder Name</th>
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<tbody>
<tr>
<td>PROFESSOR AW WHITESIDE</td>
<td>Corefunding for HEARD’s Business Plan 2006 -2010</td>
<td>Royal Netherlands Embassy</td>
<td>R 25,600,000</td>
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<tr>
<td>PROFESSOR AW WHITESIDE</td>
<td>Addressing the balance of burden in AIDS (ABBA) Research programme consortium</td>
<td>Liverpool School Tropical Medicine</td>
<td>R 8,334,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Support to HEARD’s Business Plan - Bilateral Agreement</td>
<td>Swedish International Development Cooperation Agency</td>
<td>R 6,000,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Workplace Health Management Programmes in Southern Africa: Confronting the barriers to increased uptake of voluntary counseling and testing and anti-retroviral treatment</td>
<td>The Merck Company Foundation</td>
<td>R 3,600,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Acceptance and Disbursement of initial funding for Edusector AIDS Response Trust from SIDA</td>
<td>Edusector AIDS Response Trust</td>
<td>R 3,000,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Performing the functions of the Secretariat of the UNAIDS Reference Group on economics</td>
<td>US Agency for International Development</td>
<td>R 2,480,220</td>
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<tr>
<td><strong>PROFESSOR TKC QUINLAN</strong></td>
<td>Dealing with Vulnerability: Parents' Efforts to Secure the Future of Their Children</td>
<td>International Food Policy Research Institute</td>
<td>R 663,329</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Support for a Key Information meeting in May 2006</td>
<td>US Agency for International Development</td>
<td>R 503,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Relationships between socio-economic status and HIV/AIDS prevalence among adolescents and broader economic consequences in Limpopo, KwaZulu-Natal and Mpumalanga provinces</td>
<td>Embassy of Ireland</td>
<td>R 480,000</td>
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<tr>
<td><strong>PROFESSOR TKC QUINLAN</strong></td>
<td>Regional Network on HIV and AIDS, Rural Livelihoods and Food Security (Renewal)</td>
<td>International Food Policy Research Institute</td>
<td>R 472,717</td>
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<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Bilateral Funding Agreement in terms of the JFA for Heard Core Funding</td>
<td>US Agency for International Development</td>
<td>R 486,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>KwaZulu-Natal HIV Surveillance and impact Study</td>
<td>Centre for AIDS Development Research and Evaluation</td>
<td>R 400,000</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>Responding to HIV and AIDS - whole systems assessment and response: HIV and AIDS and STIs</td>
<td>Imperial College London</td>
<td>R 172,700</td>
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<tr>
<td><strong>PROFESSOR TKC QUINLAN</strong></td>
<td>Property rights, HIV and AIDS and domestic violence</td>
<td>The Human Sciences Research Council</td>
<td>R 159,030</td>
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<tr>
<td><strong>PROFESSOR AW WHITESIDE</strong></td>
<td>HIV and AIDS, Poverty and Vulnerability: Project Development Workshop Centre File: 103787-001</td>
<td>International Development Research Centre</td>
<td>R 146,094</td>
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<tr>
<td><strong>PROFESSOR TKC QUINLAN</strong></td>
<td>Swaziland HIV/AIDS Impact Assessment Study</td>
<td>World Bank Group</td>
<td>R 125,200</td>
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<tr>
<td><strong>PROFESSOR TKC QUINLAN</strong></td>
<td>HIV and AIDS, Land Reform and Land-Based Livelihoods in Three provinces in South Africa</td>
<td>The Human Sciences Research Council</td>
<td>R 125,000</td>
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## RESEARCH GRANTS AND CONTRACTS 2007 (more than R100 000)

**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**

### FACULTY OF ENGINEERING

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<th>Amount Awarded</th>
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<tr>
<td>PROFESSOR D RAMJUGERNATH</td>
<td>Chair in Fluorine Process Engineering &amp; Separations Technology - NRF Research Chairs</td>
<td>National Research Foundation</td>
<td>R 11,613,900</td>
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<td>PROFESSOR CA BUCKLEY</td>
<td>Protocol for the quantitative assessment of industrial effluents for discharge permitting</td>
<td>Water Research Commission</td>
<td>R 1,710,000</td>
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<td>PROFESSOR CA BUCKLEY</td>
<td>A knowledge network for solving real-life water problems in developing countries: Bridging Contrasts (ANTINIMOS)</td>
<td>Politecnico Di Bari/ European Commission</td>
<td>R 986,400</td>
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<td>PROFESSOR CA BUCKLEY</td>
<td>Safe water - Water quality and treatment</td>
<td>Water Research Commission</td>
<td>R 800,000</td>
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<tr>
<td>PROFESSOR GG PEGRAM</td>
<td>Hydrometeorological Forecasting of Flash Floods understanding the effects of climate variability on the management of water resources</td>
<td>Water Research Commission</td>
<td>R 800,000</td>
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<td>MR SA MC DONALD</td>
<td>Short Range Wireless Communications 2006/7/8</td>
<td>Armscor</td>
<td>R 657,256</td>
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<tr>
<td>DR CJ VON KLEMPERER</td>
<td>Repeatable and Efficient Manufacture of Complex Shaped Advanced Composite Parts.</td>
<td>Council for Scientific and Industrial Research Department of Science and Technology</td>
<td>R 395,559</td>
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<td>PROFESSOR G BRIGHT</td>
<td>Conceptual design of reconfigural manufacturing equipment</td>
<td>CSIR-ENVIROTEK</td>
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<td>DR GPW JEWITT</td>
<td>A scoping study on water use of crops/trees for biofuels</td>
<td>Water Research Commission</td>
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<td>PROFESSOR DIO IKU-OMOREGBE</td>
<td>Developing competency in the field of three-phase filtration systems and to develop and train post-graduate bursary students in this field</td>
<td>Sasol Technology (Pty) Ltd</td>
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### FACULTY OF SCIENCE AND AGRICULTURE

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<tr>
<td>PROFESSOR MD LAING</td>
<td>The African Centre for Crop Improvement Phase Two: Building on the Initial Vision - a component of the PASS project in AGRA - January 2007 - December 2008 - &quot;Cohort 6-10&quot;</td>
<td>Programs for a Green Revolution in Africa</td>
<td>R 56,483,112</td>
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<td>PROFESSOR F PETRUCCIONE</td>
<td>Chair in Quantum Information Processing and Communication - NRF Research Chairs</td>
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<tr>
<td>PROFESSOR AT MODI</td>
<td>Water use of drought tolerant food crops</td>
<td>Water Research Commission</td>
<td>R 4,350,000</td>
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<tr>
<td>PROFESSOR RD DIAB</td>
<td>Review of the Environmental Impact Assessment (EIA)</td>
<td>Department of Environmental Affairs and Tourism</td>
<td>R 2,416,564</td>
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<tr>
<td>PROFESSOR RJ FINCHAM/ MR D HAY</td>
<td>Estuaries and Economic Empowerment</td>
<td>Water Research Commission</td>
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<tr>
<td>PROFESSOR WN ELLERY</td>
<td>Mlabezi Mire: Response to Climatic and Land-Use stresses and its role in sustaining Discharge to Downstream and Adjacent Ecosystem</td>
<td>Water Research Commission</td>
<td>R 1,477,014</td>
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<td>PROFESSOR MD LAING</td>
<td>Development of unique maize germplasm for African ecosystems</td>
<td>Programs for a Green Revolution in Africa</td>
<td>R 1,277,190</td>
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<td>PROFESSOR SR PILLAY</td>
<td>Renewable energy resources and their development</td>
<td>Norwegian Centre for International Cooperation in Higher Education (SIU)</td>
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<td>PROFESSOR RD DIAB</td>
<td>Developing the National Framework</td>
<td>Council for Scientific and Industrial Research/Department of Economic Affairs and Tourism</td>
<td>R 811,680</td>
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<tr>
<td>PROFESSOR KP KIRKMAN</td>
<td>Nature conservation and management: Biodiversity in Coastal Maputaland (Northern KwaZulu-Natal and Southern part of Mozambique) Links between Geology and Ecology</td>
<td>Norwegian Centre for International Cooperation in Higher Education (SIU)</td>
<td>R 770,000</td>
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<tr>
<td>DR N CHETTY</td>
<td>Investment Casting Capabilities for Light Metal Alloys</td>
<td>Council for Scientific and Industrial Research/Department of Science and Technology</td>
<td>R 650,000</td>
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<tr>
<td>DR TM EVERSON</td>
<td>Keeping cattle in a changing rural landscape</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 480,150</td>
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<td>DR SJ BROOKS</td>
<td>Study on Farm Dwellers: the Forgotten People? Consequences of conversions to Private Wildlife Production in KwaZulu-Natal</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 436,500</td>
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<tr>
<td>PROFESSOR RM GOUS</td>
<td>Effect of different doses of a new enzyme product on the growth performances of laying hens fed wheat/barley-based diets</td>
<td>Danisco Animal Nutrition</td>
<td>R 292,809</td>
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<td>PROFESSOR AT FORBES</td>
<td>Fish diversity status in selected eThekwini estuaries: a basis for catchment management guidelines and development</td>
<td>Ethekwini Municipality</td>
<td>R 245,100</td>
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<td>PROFESSOR RM GOUS</td>
<td>The evaluation of Distillers Dried Grains and Solubles as a protein source for poultry and pigs (P06/12/127/07)</td>
<td>Protein Research Foundation</td>
<td>R 228,935</td>
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<tr>
<td>DR BP Alant /</td>
<td>Broadening access into a socially responsible science and technology education</td>
<td>Norwegian Centre for International Cooperation in Higher Education (SIU)</td>
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<td>PROFESSOR R Vithal</td>
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<tr>
<td>DR JA Karlsson</td>
<td>Gender education and global poverty reduction initiatives</td>
<td>University of London/Economic &amp; Social Research Council</td>
<td>R 1,048,455</td>
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<tr>
<td>DR VR Wedekind</td>
<td>Supporting Accelerated and shared growth in South Africa through strengthening</td>
<td>University of Nottingham/British Council</td>
<td>R 154,082</td>
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<td>HEI’s capacity to support the further Education and training college sector</td>
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<tr>
<td>MRS FY O’Brien</td>
<td>Service Learning Capacity Building Programme (SLCBP)</td>
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**COLLEGE OF HUMANITIES**

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<td>Broadening access into a socially responsible science and technology education</td>
<td>Norwegian Centre for International Cooperation in Higher Education (SIU)</td>
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<tr>
<td>PROFESSOR R Vithal</td>
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### RESEARCH GRANTS AND CONTRACTS 2007 (continued)

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<tr>
<td>PROFESSOR A SITAS</td>
<td>Integrated Sustainable Rural Development - (ISRD) and Urban Renewal Nodes</td>
<td>Khanya-African Institute for Community-Driven Development</td>
<td>R 1,053,878</td>
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<td>PROFESSOR DR WASSENAAR</td>
<td>Support of the African AIDS Vaccine Programme (AAVP) Collaborating Centre on Ethics Law and Human Rights</td>
<td>World Health Organisation</td>
<td>R 641,531</td>
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<td>PROFESSOR A SITAS</td>
<td>Establishing key drivers in South Africa ICT sector to promote global competitiveness: Phase 2 &amp; 3</td>
<td>Department of Trade and Industry (SA govt)</td>
<td>R 632,641</td>
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<td>PROFESSOR PM BOND</td>
<td>Improving Energy Systems with Renewables and Tariff Reform</td>
<td>South African National Energy Research Institute</td>
<td>R 600,000</td>
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<tr>
<td>PROFESSOR GC LINDEGGER</td>
<td>The global campaign for microbicides proposing an expert consultation on ethical-legal considerations in adolescent HIV vaccine and microbicide trials and Production of a road map and key resource document for stakeholders</td>
<td>Program for Appropriate Technology in Health</td>
<td>R 440,383</td>
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<tr>
<td>PROFESSOR PG MARE</td>
<td>Exploring cross-generational construction of social identities in contemporary South Africa: Notes from the emergent margins</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 436,500</td>
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<tr>
<td>DR RJ BALLARD</td>
<td>The politics of housing and service provision in shack settlements: An experiment in knowledge co-production</td>
<td>South Africa-Netherlands Research Programme on Alternatives in Development</td>
<td>R 435,000</td>
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<tr>
<td>PROFESSOR FJ LUND</td>
<td>Political and Social Economy of Care</td>
<td>United Nations Research Institute for Social Development</td>
<td>R 280,000</td>
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<tr>
<td>DR DJ SPURRETT</td>
<td>Probability discounting, temporal discounting and reward bundling in Southern African disordered gamblers</td>
<td>University of Cape Town/South African Responsible Gambling Foundation</td>
<td>R 225,000</td>
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<tr>
<td>PROFESSOR KG TOMASELLI</td>
<td>Behaviour Change Communication Program</td>
<td>Johns Hopkins University</td>
<td>R 225,000</td>
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<tr>
<td>MISS NB NZIMANDE</td>
<td>Provincial Poverty and Migration report on the Province of KwaZulu-Natal</td>
<td>University of Cape Town</td>
<td>R 200,000</td>
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<tr>
<td>MR IAK VALODIA</td>
<td>Formal-Informal Sector linkages in South Africa</td>
<td>The Human Sciences Research Council</td>
<td>R 198,000</td>
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<tr>
<td>PROFESSOR JD MAY</td>
<td>Poverty Survey Project</td>
<td>Statistics South Africa</td>
<td>R 164,160</td>
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### COLLEGE OF HEALTH SCIENCES

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<td>PROFESSOR PM BOND</td>
<td>Coordination and attendance of the World Social Forum Kenya 2007</td>
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<td>MR IAK VALODIA</td>
<td>Demand Forecasting for the Port of Durban</td>
<td>Graham Muller Associates CC/TRANSNET LTD</td>
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### NELSON R MANDELA SCHOOL OF MEDICINE

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<td>Support of infrastructure and staffing of Africa Centre core activity and research</td>
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<td>PROFESSOR SS ABDOOL KARIM</td>
<td>CAPRISA HIV and AIDS Clinical Trials Unit</td>
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<td>Collaborative AIDS Program of Research in South Africa-CAPRISA AIDS treatment (CAT) programme - using ART</td>
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<td>Establishing and operating a Genomics Platform</td>
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<td>PROFESSOR ML NEWELL</td>
<td>Impact of HAART during pregnancy and breastfeeding on MTCT and mother’s health: The Kesho Bora study (AFRICA CENTRE WILL BE ADMINISTERING THE FUNDS)</td>
<td>European and Developing Countries Clinical Trials Partnership</td>
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<td>PROFESSOR N GQALENI</td>
<td>Inter-Agency PEPFAR Annual program statement US Govt Mission to SA - Biomedical and Traditional Healing Collaboration on HIV and AIDS</td>
<td>Centers for Disease Control and Prevention</td>
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<td>Impact of HLA class I alleles on immune control of adult and paediatric HIV infection</td>
<td>University of Oxford/Wellcome Trust</td>
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<td>DR N PADAYATCHI</td>
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<td>PROFESSOR M MARS</td>
<td>Telemedicine intervention strategy in the Province of KwaZulu-Natal</td>
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<td>Mrs JCM Swart</td>
<td>International Training Program in Epidemiology of Aids: 1 June 2006 - 31 May 2007</td>
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<td>Dr P Kepela</td>
<td>CAPRISA Microbicide Case-Control Study Durban South Africa</td>
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<td>Professor D Moodley</td>
<td>Efficacy of HIV Posttest support for ANC in S A - Year 1 - 15/09/2006 to 31/08/2007</td>
<td>University of North Carolina at Chapel Hill</td>
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<td>Professor Aw Sturm</td>
<td>Advanced Laboratory Training Course entitled &quot;Detection of drug resistant tuberculosis: Theory and practice.&quot;</td>
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<td>HLA-Associated Control-Lack of Control in HIV Infection - Modification 2 (Year 8)</td>
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<td>Professor SS Abdool Karim</td>
<td>HIV - 1 Cellular Immunity in Exposed Seronegatives - Year 2</td>
<td>Fred Hutchinson Cancer Research Center</td>
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<td>Immune Regulation of HIV: Providing Insights for Improved AIDS Vaccine Design</td>
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<td>Professor Re Mhlanga</td>
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<td>A 48 Week Phase II Non-Comparative Open-label Multi-Cohort Multicenter Study to Evaluate the Safety Tolerability Pharmacokinetics and Antiviral Activity of GW433908/Ritonavir BID when Administered to HIV-1 Infected PI-Naive and Experienced Pediatric Subjects 2 to 18 Years Old and of GW433908 BID Administered to PI-Naive Pediatric Subjects 2 to &lt; 6 Years Old</td>
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<td>Prevention of Maternal to Child Transmission of HIV MTCT-Plus Programme Initiative - Year 5</td>
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<td>A 48 Week Phase II Open-label 2-cohort Multicentre Study to evaluate the Pharmacokinetics Safety Tolerability and Antiviral Activity of GW433908 and GW433908/RTV When Administered to HIV-1 Infected Protease Inhibitor (PI) Naive and PI- Experienced Pediatric Subjects aged 4 weeks to &lt;2 years</td>
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<td>DR M MOODLEY</td>
<td>HPV Type distribution in case-series of Cervical cancer and Precancer in Durban South Africa according to HIV Serostatus</td>
<td>International Agency for Research on Cancer/ World Health Organisation</td>
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<td>Harvard University Center for AIDS Research - NK Cell Function in HIV-1 infected individuals from KZN</td>
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<td>Antiretroviral adherence across age groups in a resource-limited setting</td>
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<td>iKS Bioprospecting and Product Development Platform: Traditional Medicines</td>
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**COLLEGE OF LAW AND MANAGEMENT STUDIES**

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<td>HIV and AIDS: Poverty and Vulnerability: Project Development Workshop Grant No:104002-001 01/06/2007 - 31/05/2010</td>
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<td>PROFESSOR RG TAYLOR</td>
<td>Small Medium and Micro Sized Enterprise (SMME) Learning Networks in KwaZulu-Natal (KZN) South Africa</td>
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<td>PROFESSOR AW WHITESIDE</td>
<td>Household impacts of AIDS and effective entry points for prevention treatment and care and poverty reduction</td>
<td>Department for International Development</td>
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<td>PROFESSOR AW WHITESIDE</td>
<td>Fiscal space and scaling up the response to AIDS</td>
<td>Department for International Development</td>
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<td>MR AR KOHLER</td>
<td>The Impact of Trade on Changing Patterns of Energy Use in South African Manufacturing</td>
<td>South African National Energy Research Institute</td>
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## STATUTORY AND EXTERNAL INCOME

### EXTERNAL GRANTS AND CONTRACTS PROCESSED IN 2006

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## STATUTORY INCOME FROM THE NATIONAL RESEARCH FOUNDATION (NRF) 2006 - 2007

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(i.e SANAP, MCM and KFD)

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## NEW GRANTS EXCEEDING R500 000 FROM FUNDERS IN 2006

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# NEW GRANTS EXCEEDING R500 000 FROM FUNDERS IN 2007

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<td>World Bank Group</td>
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FACULTY OF MANAGEMENT STUDIES


FACULTY OF SCIENCE AND AGRICULTURE


NELSON R MANDELA SCHOOL OF MEDICINE

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FACULTY OF ENGINEERING


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CHAPTERS IN BOOKS


BOOKS


FACULTY OF HEALTH SCIENCES

CHAPTERS IN BOOKS


FACULTY OF HUMANITIES, DEV. & SOCIAL SCIENCES

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**CHAPTERS IN BOOKS**


**BOOKS**


**FACULTY OF MANAGEMENT STUDIES**

**CHAPTERS IN BOOKS**


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