

TECHNOLOGY, **INNOVATION & PARTNERSHIPS**

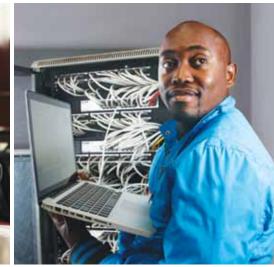










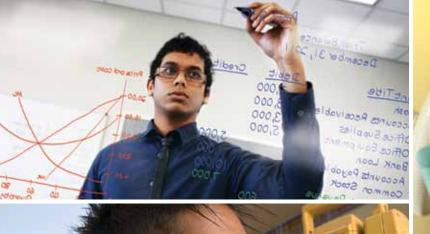


RESEARCH@DUT UCWANINGO@DUT

RESEARCH OVERVIEW 2010-2011





















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MESSAGE FROM THE VICE-CHANCELLOR

THE TRANSITION OF THE DURBAN UNIVERSITY OF TECHNOLOGY FROM A TECHNIKON TO A UNIVERSITY REQUIRES CERTAIN FUNDAMENTAL DEVELOPMENTS. THE MOST IMPORTANT IS THE EMERGENCE OF A RESEARCH ENTERPRISE.

Universities, as social institutions, are host to many purposes; amongst them the unfettered production of new knowledge, teaching/ learning, citizenship development, community engagement, technology development, industrial innovation and so on. Underpinning all of these and necessary for their development is research. It is therefore with great pleasure that I write this short

message for DUT's Annual Research Overview for the years 2010 and 2011.

The University has had great successes in the recent past in making tracks towards becoming more research based. It has positioned itself to host at least one. South African Research Chair, thanks to the wonderful foundation built by the current. Water and Wastewater Technologies. Institute amongst others. In addition this document points out the steady increase in research outputs from 2010 to 2011. Perhaps more importantly we are seeing the rapid



Professor Ahmed
Cassim Bawa

development of a new research culture at DUT. Researchers at DUT have secured interesting grants especially in the areas of renewable energy, e-skills development for social transformation, biotechnology, water and wastewater technology, transformational educational studies as well as equipment grants.

Nevertheless, the University faces a number of challenges as it embarks

on this wonderfully textured journey of discovery and development. There are 4 large projects that it must engage in as we shape our research system so that it is effective in the future. All 4 are critical

The first is build research capacity at DUT by ensuring that academics make their way through research degrees. We have made considerable success. I 3% of our academic staff now hold doctoral qualifications and 47% hold masters qualifications. This is an excellent base from which to make progress. We have to be more focused in supporting staff as they proceed with their

studies. At the same time we must make good appointments to academic positions as these become available.

The second is to adopt a singular approach in increasing the number of postgraduate students at DUT. This is a very small number at the moment and the imminent establishment of a series of coursework masters programmes and new generic doctoral programmes will help with this target. The establishment of the masters and doctoral programme in Peace Studies is one example of this wonderful development. I am very hopeful that the scenario will change quite dramatically shortly. The increased presence of postgraduate students at DUT will inject much intellectual energy and fervour into our academic enterprise.

The third is to build strong and sustainable research partnerships with local industry, local and provincial government, local communities and so on. DUT seeks to develop a research enterprise that is strongly embedded in the context in which if finds itself. This is well under way and there are numerous examples of this taking place. Producing knowledge from these research excursions will help us to generate knowledge about our context and

our challenge then is to build the quality of this work so that we are successful in solving important and difficult social and industrial challenges and so that we are able to introduce this new knowledge in the global research system. One example of this is the wonderful work done by leading researchers in our Department of Biotechnology and Food Technology in breaking the genetic code of a thermophilic fungus — a discovery that is a world-first but which also has implications for the local paper and pulp industry.

The fourth is to ensure that we create a great research infrastructure and build a good research culture here. And for this we must depend heavily on Professor FAO Otieno as DVC (Technology, Innovation and Partnerships) and his team whose function it is to provide support to our research enterprise.

I am very optimistic that DUT's research profile will grow at a steady rate. I wish to thank all of those at DUT who are passionate about research and who are committed to supporting others. With this spirit we will make much headway.

DEPUTY VICE-CHANCELLOR:

TECHNOLOGY, INNOVATION AND PARTNERSHIPS (TIP)

It is with great pleasure that I write this message for the Annual Research Overview for 2010 and 2011 respectively. The research overview gives a range of snapshots of researchers, postgraduate students and postdoctoral fellows who make an enormous contribution to ensure the university produces the required productivity units and places it as a significant role player within the higher

education sector. My gratitude extends to the staff and students at DUT who are responsible for ensuring that we get on with our core business of teaching, research and innovation and community engagement.

The university, I believe has had a long and colourful journey in its quest for excellence. In the past few years, it has moved from its humble position to one where for example, we now have competition in many aspects of research and innovation. This is reflected in an increase in the number of postgraduate students that complete their studies and the number of papers in accredited journals and peer reviewed conference proceedings. This, would not have been possible without the dedication of staff and leadership of the departments, faculties and university



Professor Fredrick Alfred Ochieng Otieno

and for this, I wish to congratulate and thank you. The remarkable increase of research productivity units from 2010 to 2011 is an indicator of the progress made.

Partnerships are also a key element of the university research and postgraduate support functions as they provide opportunities for student and staff exchanges, research visits and

add additional capacity to the pool of supervisors and mentors that the university needs to increase. To this end I am pleased to see that we have had an increase in funded international partnership agreements. It is a well known fact that good research and innovation results in good teaching and learning and so I would like to encourage all of you to be involved in research and innovation at some level in order to improve the quality of teaching and learning. I am also aware that the target of 0.5 per academic staff member set by the Department of Higher Education and Training (DoHET) has not been met by the majority of our staff during the reporting years 2010/2011. The university on average has achieved about 0.14 units per staff member and my challenge to the university community is to ensure that 0.565 units (new target set by DoHET) per academic

staff member per year is met in the next two to three years. This is not only good for personal development of staff but will also ensure that the university draws its share of subsidy from Government to reinvest in the university core business.

The other bench mark that is still elusive for the university is the number of post graduate students enrolled as a percentage of the undergraduate enrolments. The university has set a target of 7% of the student enrolments to be at postgraduate level. This would, given our student population of 24 000 translate to 1680 Postgraduate students. The current university data is at 553 which is well below this target and my challenge is that we aim to meet this target in at least three years time, that is, by the end of 2015. It is also not just about meeting the target but also ensuring that the students complete their studies in the prescribed time, while engaged in quality research. This is an area that requires further work and which I would appeal that attention is paid to.

The Late Stephen R Covey in his book, The Seven Habits of Highly Effective People, uses the following words: "What lies behind us and what lies before us are tiny matters compared to what lies within us."

As we start the New Year 2013, I want to renew my call to the university community to rededicate your energies to overcoming the challenges that we continue to face as a university in terms of research and innovation.

Among our challenges for 2013, I believe, will be to achieve higher standards overall, whilst valuing the unique contribution each individual can make, and to harness these unique strengths in service of the South African nation, the continent and the world.

We have a number of excellent and extremely hardworking researchers at DUT and to these I wish to thank them and appeal for their continued support in mentoring our other staff and students.

DIRECTOR (ACTING): RESEARCH

& POSTGRADUATE SUPPORT (RPS)

Research is one of the central activities of the University with the intent of enhancing, inspiring and informing the university's purpose of teaching, learning and community engagement. Fortunately for DUT this provides a unique opportunity for the university to embed itself within the local context. Despite severe cutbacks in research funding, these facets came together in 2011 with some productivity groups producing ground breaking research.



Professor Sibusiso Moyo

On this note, Ms Nokuthula Mchunu, who was supported through the lecturer replacement grant, together with the supervisors are congratulated for their research in sequencing of a thermophilic genome.

The subscription to the web of science, approved by the university in 2011, will assist the research community in accessing current research results and measure the impact of their research as part of the global village.

The reporting years also saw the number of researchers increase with two of the rated researchers, Professors FAO Otieno and K Khanny, receiving their new upward

ratings to category CI and C2 respectively. In addition we also had the first researcher from the Management Sciences faculty at DUT, Professor R Mason, also get a C3 rating. Congratulations go to all these researchers. This brings the current number of rated researchers to 11.

In order to improve the research profile of the University there needs to be a

critical mass of faculty members or academic staff who are considered prominent in their chosen fields. This means the University needs to focus on its recruitment and retention strategy as well as increasing its research base from within. To this end the university put in four applications for the South African Research Chairs Initiative (SARChI) and we expect to be successful in at least one of the applications. The next phase will be the recruitment phase to fill the Chair for 2012. The following were the applications submitted:

- Development of wastewater treatment technology for developing economies.
- (ii) Biotechnology
- (iii) Systems science (natural and social systems)
- (iv) Nanotechnology.

Furthermore the university needs to create competitive and prestigious research focus areas sponsored by public and private funding sources with the aim of becoming one of the favourite choices for the best faculty staff and students both nationally and internationally. The 2007 audit made the need for the university to create focus areas as one of the recommendations. In 2011 the University approved the policy on the establishment of research focus areas, centers and research institutes. As part of this strategy, the university identified research focus areas that the University would like to grow and invest in. Two of these areas in water and wastewater management and systems science (natural and social systems) were given institute status based on a 3 year self-sustainable plan. The current plan is targeted towards directing the limited research resources to focus areas identified by the university as strategic areas for growth by supporting researchers, masters and doctoral students.

Research Performance Indicators for Master's and Doctoral students' graduation, as well as research publications, are reported in detail in the latter part of the Research Overview. The report indicates the growth from 48.5 units reported in 2010 to over 74 units reported in 2011.

During 2011 the university generated R13 955 786 from the 116.95 units produced in 2010 as output grant from the Department of Higher Education and Training. However, the substantial decrease in funding from the Research Development Grant in 2011 largely affected

the support of postgraduate students, and the university's endeavour to support staff who are undertaking postgraduate study. This is an area that has potential to improve with the appropriate supervision, resources and interventions for postgraduate programmes. What follows is a list of key research and postgraduate performance indicators that the university uses to measure itself:

PERFORMANCE INDICATORS 2011					
ITEM	DUT	DHET TARGET			
Staff with Doctoral Qualifications	13%	40%			
Staff with Master's Qualifications	44%	60%			
Postgraduates as a % of total enrolments	2%	7%			
* Total Weighted Research Outputs	178.88	300 units			
Weighted Output per Capita	0.3	0.5			

*The total weighted research outputs include journal article units, conference proceedings, master's and doctoral graduations. In 2011, the university accrued 74.26 journal article units, of which 84% were in international journals. In addition, 39 non-accredited units comprising of creative works and other publications were produced. These will be listed under non-accredited units in the Appendices.

HEADCOUNT OF POSTGRADUATE STUDENTS PER FACULTY 2011							
FACULTY	FORMAL		NON-FORMAL		GRAND		
	М	D	М	D	TOTAL		
Accounting and Informatics	21	7	13		41		
Applied Sciences	60	16	15	5	96		
Arts and Design	25	18	24		67		
Engineering and the Built Environment	33	8	20	5	66		
Health Sciences	123	6	28	1	158		
Management Sciences	41	14	49	21	125		
GRAND TOTAL	303	69	149	32	553		

(Data as at 27 October 2011 from Oracle database)

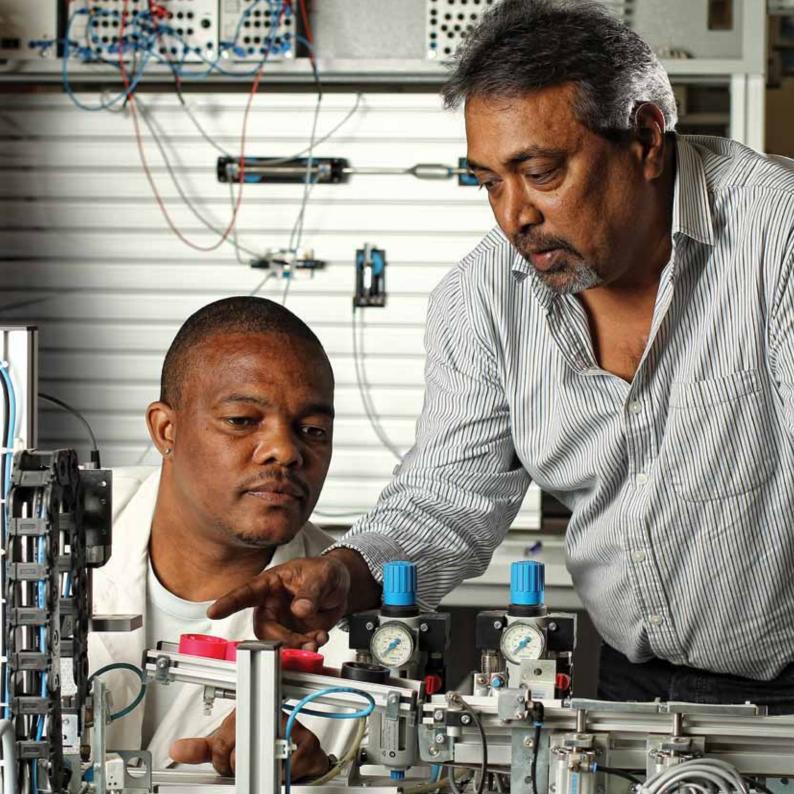
A total of 83 Master's students and 13 Doctoral students graduated in 2011. This marks an increase in the number of Doctoral students who graduated in comparison to 2010.

Building research capacity amongst staff and students has been given high priority in the year under review. A programme of twenty-five workshops, seminars and training sessions was hosted, with presentations and facilitation by local, national and international academics. The highlight of the year was the successful Institutional Research Day held in November 2011, when postgraduate students and researchers were able to showcase their work to the university community. The range of research development workshops and training opportunities will be listed in the latter parts of the Research Overview. In addition to this was also the increased number of appointments of Honorary Research Associates and Professors in various research areas and faculties.

Policy development is an important mechanism in formalising the research environment at the university, and a number of policies were drafted and approved. These include the review of the Research Policy to include sabbatical leave; the Policy on the Establishment of Research Focus Areas, Research Centres and Research Institutes; the Policy and Procedures on Sabbatical Leave; the Policy on Postdoctoral Fellows; the Policy on Doctorates by Publication; the Research Ethics Policy and Terms of Reference, and the Higher Degrees Assessment Policy.

The university is a member of the Research Information Management System (RIMS) consortium, and is in the process of implementing the InfoEd system to report on research information.

Finally, the Research Management and Development Directorate and the Postgraduate Development and Support Directorate merged to form the Research and Postgraduate Support Directorate (RPS) based on the strategic planning process.



DIRECTOR: TECHNOLOGY TRANSFER AND INNOVATION (TTI)

PROFESSOR GERHARD PRINSLOO

This department has been the key driver of the Eskom Energy Board Savings
Project, which aims to identify areas of energy and electricity that can be saved on the University's campuses and residences, as well as identifying and supporting research initiatives and projects in this regard. This ongoing project could result in considerable fiscal savings for the University. This project is awaiting the signing of the DSM funding agreements

by the Eskom head office. TTI facilitated the submission of a proposal to the Department of Science and Technology for the design and manufacture of hybrid renewable energy systems for rural communities, which resulted in a R10 million grant.

The University was the host institution for the annual South African Research and Innovation Managers Association (SARIMA) conference, held in Umhlanga in June. DUT, together with Mangosuthu University of Technology, SmartXchange and the eThekwini Municipality, secured funding from the Technology Innovation Agency (TIA) for



Professor Gerhard Prinsloo

an Energy Technology Innovation
Centre (KZN ETIC). The TIA has
committed more than R5.4 million
over the first three year cycle for
staff and operational costs. The
establishment of the KZN ETIC
is a strategic opportunity that can
address many objectives, including
promoting the development of
SMMEs in the region, developing
the skills base in the energy sector

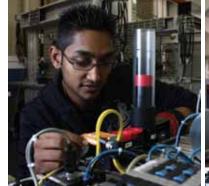
in Durban, promoting linkages with the ICT sector, and creating an Energy Office space that is accessible and visible to the public.

The staff of the Mechanical Engineering department embarked on a multipronged programme to take Engineering to the schools to encourage learners to consider engineering as a career. This 'Vision 2000: engineers and scientists for the future' project envisages taking a fully equipped bus/truck with demonstration equipment, audio-visual displays and hands-on experiments relating to renewable energy to schools and rural communities. The Caltex Group of Companies is funding

this to the value of R525 000, and Chevron has committed additional funding in the form of fuel sponsorship. This project is expected to be in operation after March 2012, depending on sponsorship for a suitable vehicle.

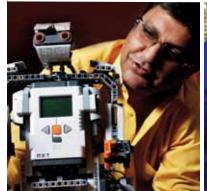
The National Innovation Competition (NIC), hosted by TIA, was held at the Moses Mabhida Stadium. DUT was amongst the winners, with Mechanical Engineering's Festus Maina Mwangi and his colleague Avinash Ramsaroop, winning the award for the Best Stand. Their entry was titled 'An Impact Energy Management System'. TTI is in the process of conducting novelty searches in order to proceed with the filing of an international PCT Patent application for this technology.

TTI facilitated a meeting whereby five researchers presented their research projects to the Venture Capitalist: Projects of the Industrial Development Corporation (IDC). There is considerable interest in two of the projects, and novelty searches are being conducted as a prerequisite for IDC investment.TTI is also engaged in revising the Intellectual Property and Copyright Policies of DUT.











DIRECTOR: INTERNATIONAL EDUCATION AND PARTNERSHIPS (IEP)

DR LAVERN SAMUELS

The reporting years were marked by an exponential growth in the activities of the International Education and Partnerships Directorate. These activities had a concomitant increase in the uptake of internationalisation opportunities by departments across the University. The nature of the international projects ranged from internationalization of the curriculum, visits by international scholars, extensive collaborations in teaching,

learning and research. There was an increase in the number of full time international students as well as international semester students, amongst other activities.

Highlights of the year, however, were the hosting of two major international events. The University hosted the 15th International Education Association of South Africa (IEASA) conference. This successful event helped profile the University as a significant role player in international education in South Africa. The second event, hosted in conjunction with Higher Education South Africa (HESA) and the Department of Higher Education and Training



Dr Lavern Samuels

(DHET), was the India-Brazil-South Africa (IBSA) Academic Forum. This forum brought together academics and academic managers from universities in India, Brazil and South Africa and provided a platform to discuss ways of collaborating in the core business of higher education at a number of levels.

Many of the flagship programmes and projects under the International Office

leadership continued successfully in 2011. These include the collaboration with the US Consulate in the Fulbright Programme. The US Community College Programme yet again yielded excellent results for DUT, with the University once more having the highest number of successful applicants. Professor Kathy Nokes, an esteemed academic in the field of Nursing and HIV and AIDS from Hunter College, City University of New York, spent time at the University as a Fulbright scholar under the Fulbright Senior Scholars programme. The annual programme of activities with the University of Michigan continued, with a focus on using the oral tradition in HIV education. The international office

also managed to secure a place for a DUT staff member to participate in the highly prestigious HIV programme run by Columbia University and the HSRC in South Africa. The School of Education, Georgia State University conducted workshops and seminars in the area of School Management and Leadership, Mathematics Education, Deaf Education as well as in reading and writing skills. This collaboration is a strong and growing partnership and has the potential to grow into a flagship project for DUT. A Principals' Leadership Academy has been established as a community engagement project that will involve DUT, Georgia State University and leaders and managers in education in KwaZulu-Natal. A visit from the Deputy Vice-Chancellor (Academic) from Curtin University, Perth Australia, was followed by a visit from a delegation of Parliamentarians from Western Australia which has cemented our partnership with Curtin University. This partnership straddles a number of areas, but is particularly strong in the areas of Fine Art and Jewellery Design. A vibrant exchange programme involving staff and joint exhibitions has emerged from this project.

A number of visiting scholars contributed significantly to the enhancement of the quality of academic and research activities at DUT. Particularly significant was the visits of three prominent German professors to the Department of Marketing, Retail and Public Relations. Professor Dobbelstein (who has been awarded an honorary DUT professorship), and Professors Klaiber and Asche contributed to the academic activities of this department. A new partnership with the World Learning Academy entails the utilisation of mobile learning technologies and is a community outreach

project with the Department of Language and Translation. Also significant was the visit of the delegation from KIA University in Denmark, where an MOU for collaboration in the field of Child and Youth Development was discussed. This collaboration will include a community outreach project, a staff exchange programme, and a bench marking and sharing of exemplary teaching and learning workshop.

The number of full time international students continues to grow and this was augmented by the arrival of 100 Zimbabwean students on the Presidential Scholarship Programme. The Semester Abroad Programme saw more than 100 students visiting DUT in 2011. The University has received commendations for the projects emerging from these visits in the Department of Human Resource Management with students from University Baden-Wurtemburg, Germany, and the Child and Youth programme with Leeds Metropolitan University, UK. These Semester Abroad Programme students as well as the full-time international students are significantly enriching the classroom experience of our students.

The approval of the International Admissions Policy will play an important role in helping internationalise the University by increasing the number of international students (both undergraduate and postgraduate) and thus enriching the fabric of the University. The outcome of the policy promises to imbue in our students the notion of universality that is alluded to in the term university. We move forward towards a University that is truly a repository of global knowledge.



CELEBRATING RESEARCHERS @DUT



Professor Singh is the Research Co-ordinator and Faculty Research Committee Chair in the Faculty of Accounting and Informatics. Her research areas of interest and expertise which include assessment and postgraduate research have led to numerous conference presentations and proceedings, publications in leading international peer-reviewed journals and collaborations with higher education institutions in India, Europe and Mauritius. She is a reviewer for several international peer-reviewed journals and conferences and she is a member of the editorial board of an international peer-reviewed journal. She is currently supervising 20 MTech and 12 DTech students at DUT. Professor Singh was nominated for the 'Top Faculty Researcher Award' for 2010/2011.

PROF PRENITHA SINGH

RESEARCH CO-ORDINATOR & FACULTY RESEARCH COMMITTEE CHAIR





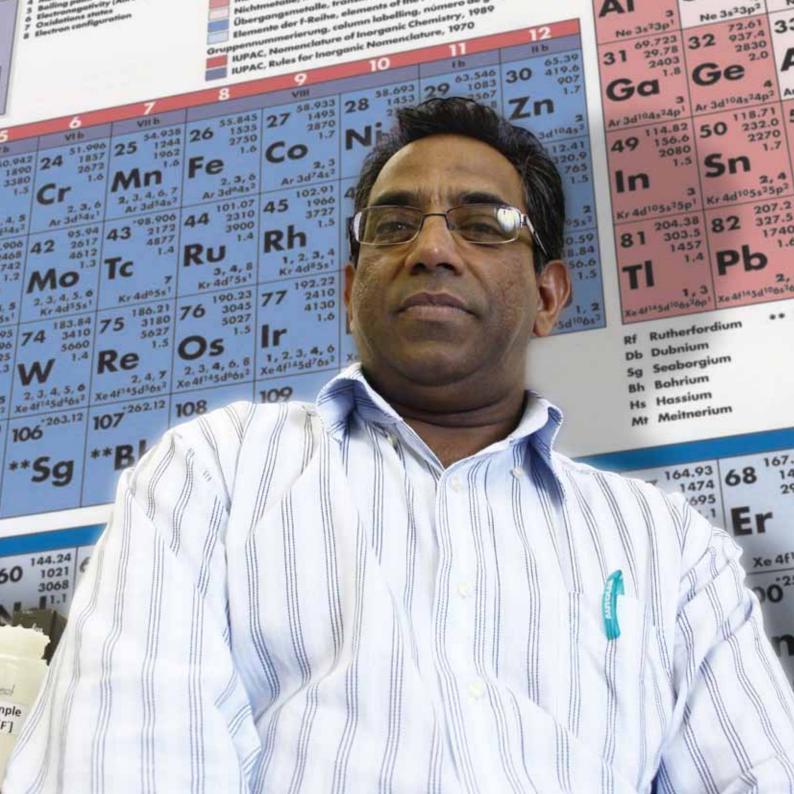
MR NKOSINATHI KHANYILE

SCULPTURE AND CERAMICS
LECTURER AND DOCTORAL STUDENT

DEPARTMENT OF
FINE ART AND JEWELLERY DESIGN

Mr Khanyile is currently finishing off his Doctoral studies while lecturing in Sculpture and Ceramics in the Department of Fine Art and Jewellery Design, Much of his work stems from his dreams – a continuous dialogue with his inner self. It is this that gives him the energy to continue to create. His work allows him to touch all other human beings around – those that he can see and have seen and even those that he has not seen but will do in the future. His work has an element of foretelling within it, it becomes a vehicle that continuously heals the self and others". His previous art projects have been exhibited in the following countries: France (Paris), Western Australia, Mexico and L.A. USA, Germany, Switzerland, U.K. (London), Holland (Amsterdam). Mr Kanyile is the Deputy Chair for Kwa-Zulu Natal Arts and Culture Council (KZN ACC). The Council operates under the office of the MEC Arts, Culture, Sports and Recreation, the Honourable Ms Ntombi Kayise Sibhida-Saphepha. According to MEC the KZN ACC is a powerful pillar and has a responsibility to advise the provincial government on matters relating to the sector. Mr Khanyile has won many awards and has had his work collected nationally and International art institutions and private collectors. Recently he exhibited in the Durban Art Gallery, his work titled 'All Fired Up'. This work was also exhibited at the NSA Gallery in Durban.







PROFESSOR VINCENT BISETTY DEPARTMENT OF CHEMISTRY

Professor Bisetty's research involves the design of computer modelling experiments to study the folding patterns of bio-active molecules, using high performance computing (HPC). This work is highly significant as it allows for a better understanding of the conformational preferences of the drug-substrate interactions, and is of utmost importance in the Pharmaceutical industry. This research has contributed towards the understanding of the manipulation of peptides required in the field of antibiotic interaction with receptor sites. The research is done in collaboration with Spanish counterparts, through the SA-Spain Bilateral agreements. Professor Bisetty's newest international collaboration is with Professor MP Mahajan from India. His group is involved with the synthetic studies of pharmacological and medicinal active compounds as well as with computational studies to support reaction mechanisms. Thus far, the group has published 4 papers in peer-reviewed journals and the collaboration is on-going.

Professor Bisetty's field of expertise spans a broader area ranging from Molecular Simulations using HPC to Experiments in Electrochemistry and Bio-Analytical Chemistry. His current project involves developing

biosensor devices with carbon nanotubes for the detection of polyphenolic compounds using cyclic voltammetry. Other projects involve the method development for the separation of chiral drugs using Capillary Electrophoresis, and their interaction studies using silico molecular docking methods

Professor Bisetty has published a number of chapters in various books as well as extensively published articles in peer-reviewed accredited journals. He is currently supervising BTech, MTech and DTech students. He has successfully supervised students at BTech, MTech and DTech level at the DUT and co-supervised a Master's and a PhD student at the University of KwaZulu-Natal. He has presented his research papers at several international and local conferences.

His accolades thus far include: best oral presentation at the 36th Convention SA Chemical Institute; the Vice-Chancellor's Award for NRF rating as well as for full professorship. He has served as an external reviewer for scientific journals and NRF project proposals.





MS NOKUTHULA MCHUNU

MICROBIOLOGY LECTURER AND DOCTORAL STUDENT DEPARTMENT OF BIOTECHNOLOGY AND FOOD TECHNOLOGY

Ms Nokuthula Mchunu is a lecturer in the Department of Biotechnology and Food Technology and is currently completing her doctoral thesis at the University of Sains in Malaysia (USM) at the Centre for Chemical Biology (CCB). She recently completed ground-breaking research in sequencing of a thermophillic genome which has industrial applications.

Her supervisors are Professor Suren Singh (DUT), Professor Kugen Permaul (DUT) and Professor Maqsudul Alam (CCB@USM). Professor Alam is also the Director of the Advanced Studies in Genomics, Proteomics and Bioinformatics at the University of Hawaii. Ms Mchunu comes from Port Shepstone but she spent almost a year at CCB@USM working on the completion of the sequencing of a thermophillic fungal genome which has industrial applications.

This result is one of the first in the world! Her project

focused mainly on a much smaller genome from a thermophillic fungus. These fungi are known to thrive under hot conditions and survive around temperatures of around 60°C. The fungi produce enzymes that can function at higher temperatures and this implies that they have important applications in industrial processes and are more temperature stable than some biological catalysts. This novel fungus, Thermomyces, was isolated by Professor Singh in 1995 and produces similar enzymes that can break down biological polymers such as starch, plant residue, fats and crustacean shells to produce useful by—products.

The university will be the place, where for the first time researchers are able to identify a series of novel genes from this fungus for potential biotechnological applications. The resulting enzymes are useful in the following industries: pulp and paper; food and beverage, medical, animal feed, agriculture and biofuel industries. A further application could be towards reducing environmental pollution.





PROFESSOR MERVYN KANNY

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Kanny is a full Professor in the Department of Mechanical Engineering, Durban University of Technology. He has more than 27 years of Teaching and Research experience in Mechanical Engineering and Design and holds an NRF C3 rating. In the past three years he has published in 21 international journals and 10 national/international conference proceedings in the field of Mechanical Engineering. He holds 3 National/International patents for his innovative work. Professor Kanny has been awarded external grants exceeding R10 Million since the year 2000 to date. In the last two years his leadership in improving the research capacity of the Mechanical Engineering Department has helped the Department secure two modern and advanced scientific instruments, namely, the Environmental Scanning Electron Microscopy (ESEM) and the MTS-Fatigue test machine with UTM facility. He is presently guiding about 35 postgraduate students and fellows as well as BTech students.

Professor Kanny's research interest is primarily on the following topics:

- Nanotechnology (Application to Engineering and Scientific needs)
- Water (Materials for water environment, water treatment and Systems/Analysis for water industries)
- 3. Structural Analysis & Engineering Materials.

Building on the groups previous successes in this research area, Professor Kanny wishes to investigate optimum techniques for the production of nanoparticles, carbon nanotubes and nanofibres. In turn each of these will be manipulated for inclusion in composite structures, solar panels, rubber, protective wear, catalysis (paints, gels, and adhesives), biomedicine and water filtration systems. The aim is to develop and improve nano infused ceramics, polymers, metal alloys, solar, bio- and hybrid materials for a range of applications. This in turn could substantially improve our quality of life through the manufacture of new and better products and services, generating wealth and improving socio-economic conditions in our country.

Professor Kanny states that his group has the potential to graduate 20 Masters and Doctorates over a five year period. These graduates who will specialize in Nanotechnology will work in either academia or industry and will train a new cohort of students providing a cascading effect of human capital development and technological base in our country. Needless to say the increase in publications, patents etc will increase substantially.

Professor Kanny was nominated for the `Senior Researcher Award', `Senior Group of the Year Award' and the `Top Faculty Researcher Award' for 2010/2011.



PROFESSOR JAMILA ADAM

DEPARTMENT OF

BIOMEDICAL AND CLINICAL TECHNOLOGY



In her 27 years of service to the Durban University of Technology, ProfessorAdam has made great contributions to the university, especially in the areas of programme development, undergraduate and postgraduate teaching, scholarship and research management and administration.

Professor Jamila Adam has been actively involved in coordinating research and academic activities in her department, since the department's inception in 1984. She is currently the Research Coordinator for the Faculty of Health Sciences. One of her contributions was being part of the initiaters of the Clinical Technology Programme at M L Sultan Technikon in 1984. This programme was the first of its kind to be developed in South Africa. In her 27 years of service to the institution she has had the opportunity to teach, moderate and supervise postgraduate students in her faculty.

The central focus of Professor Adam's research at DUT is on the development of new technology and therapeutic procedures to enhance health care. The broader areas of her research are focused on clinical interventions in cardiology, neurophysiology, perfusion, reproductive biology, nephrology, critical care and pulmonology, as well as immunology, toxicology, histopathology, microbiology, physiology, cytopathology, nutrition, clinical pharmacology and health care management. She has presented and published papers at both national and international conferences. Furthermore, one of her Doctorate students has developed a unique technology in cardiovascular

perfusion which has been patented and is in the process of commercialization globally.

Professor Adam was awarded the first doctorate in clinical technology in South Africa in 2005. This has opened new opportunities for her department to pioneer masters and doctoral studies in this area. The department began offering the BTech in 1997 and since then she has successfully supervised more than 280 BTech Clinical Technology research projects and four BTech Biotechnology research projects. On four occasions, she was awarded NRF Supervisory grants for BTech projects. She also successfully supervised 16 masters students and 2 Doctorates in Clinical Technology. One of her students was the first to apply for a conversion of a Masters to a Doctoral Degree at the DUT. He also has a patent with DUT.

She is currently supervising the projects of 32 BTech Clinical Technology students, 17 masters and 3 doctoral

students. She is also appointed as an external examiner for postgraduate students both locally and internationally.

Professor Adam is also presently interacting with researchers from other institutions both locally and internationally to develop a foundation for future collaborative ventures between herself as a DUT academic and academics/researchers from these institutions. She serves the NRF as a reviewer and as a panel member for screening applicants who have applied for funding under various categories. She also serves as reviewer for various international journals and is on the editorial board for the International Journal on "Current Trends in Biotechnology and Pharmacology". Furthermore, she is registered with HPCSA as a Clinical Technologist for private practice in Nephrology.

Her ambition is to highlight DUT globally in Biomedical and Clinical Technology as a Centre for Excellence. Professor Adams serves on various university committees for Research and Institutional Research Ethics committees.



PROFESSOR NIRMALA DORASAMY

DEPARTMENT OF

PUBLIC MANAGEMENT AND ECONOMICS

Professor Dorasamy is an Associate Professor in the Department of Public Management and Economics. She lectures in the undergraduate and postgraduate programmes at DUT as well as at PALAMA and Department of Defence. She has successfully supervised at Masters and Doctoral levels. Her research focus area is ethics and public sector management. Professor Dorasamy has established collaborative research with the Swinburne University of Technology, the Monash University (Australia) and the American University in Cairo and India. She has been a keynote speaker and session Chair at international conferences. Her additional responsibilities include being examiner for postgraduate studies at several local and national higher education institutions. Professor Dorasamy has published extensively in national and international journals with an average of eight units per annum and serves on the editorial committee for a local journal and several international journals. She has co-authored textbooks for senior secondary learners and books for higher education.

In 2010/2011 Professor Dorasamy had the highest number of journal article units amongst the university researchers and was nominated for the `Top Female Researcher Award' of the Year.



NATIONAL RESEARCH FOUNDATION (NRF) EMERGING RESEARCHERS

Dr Mutanda is actively involved in renewable energy research in the Institute for Water and Wastewater Technology (IWWT). He is currently pioneering research in two major projects – the Algal Technology Project and Rainwater Harvesting Technology. Briefly, the thrust of the Algal Technology Project is testing for efficacy and consequent utilisation of municipal domestic wastewater as a substrate for microalgal growth for biomass accumulation for biodiesel production and concurrent generation of other valuable by-products.

Dr Mutanda has published several papers and to date, he has published 6 technical papers, 4 review articles and 2 book chapters and 1 article in conference proceedings. He is currently contributing to 2 book chapters in the book entitled: Potential Biotechnological Applications of Microalgae: Biodiesel and Value Added Products edited by Professor Faizal Bux. He has presented his research papers at several international and local conferences.

His supervision track record includes co-supervising 2 DTech postgraduate students and 1 MTech student. His research activities are funded by the University, Claude Leon Foundation, the NRF and the Water Research Commission.

Dr Mutanda has recently been recognised by the NRF as an emerging researcher. His future ambitions are to become a rated NRF researcher and his focus is currently working towards associate professorship.



DR TAURAI MUTANDA

POSTDOCTORAL FELLOW

INSTITUTE FOR WATER AND WASTEWATER TECHNOLOGY





Dr Parvesh Singh's research work at Durban University of Technology involves the applications of different computer programs to understand the three dimensional (3D) structures of biologically active peptides responsible for their physiological and medicinal actions. Specifically, the research focuses on structures and functions of anti-cancer peptides so that novel and potent drugs could be designed based on that information.

Dr Singh's research also uses different analytical techniques to study the drug-protein interactions, and supporting those results with docking and molecular mechanics/ quantum mechanics based calculations. Moreover, in collaborations with international partners, he is targeting design and synthesis of new potent anti-malarial, anti-bacterial and anti-TB molecules.

DR PARVESH SINGH DEPARTMENT OF CHEMISTRY

His research interests include: the synthesis of heterocyclic compounds using the HDA approach and other conventional methods; the designing and execution of computer based simulations of biomolecules including anti-cancer peptides; anti-HIV and cage peptides; drug-receptor interactions studies using computational and experimental (CE) methods and *Ab-initio* and Density Functional Theory (DFT) calculations of the organic reactions.

He is also involved in a number of collaborative research projects with **Universitat Politècnica de Catalunya** (UPC)

Barcelona (Spain), Universitat de Valencia (Spain), Guru Nanak

Dev University (India), University of Johannesburg (South

Africa) and University of KwaZulu-Natal (South Africa).



Dr Singh has authored and co-authored 27 papers in international journals, including a book chapter and an international book. He is also co-supervising 2 DTech, 2 MTech and 2 BTech students at DUT. Two doctoral students have successfully completed their doctoral degrees under his co-supervision. In addition, Dr Singh is also in charge of Linux-cluster computer lab and Capillary Electrophoresis (CE) lab at DUT. Additionally, he is also a reviewer of Tetrahedron (Elsevier journal).

In 2011, Dr Singh was nominated by the National Research Foundation as an emerging researcher in South Africa after demonstrating potential through his work on anti-cancer and anti-HIV drug development. He has been recognised for engagement in exciting and interesting

research projects, good acknowledgement for outstanding achievements and contributions in the fields of synthetic and computational chemistry.

As a passionate scientist, Dr Singh wants to pursue an academic career as a Professor so that he can be involved both in the academic and research spheres. His special interest is in drug-receptor interactions studies using computational and experimental methods and calculations of the organic reactions. Dr Singh has received numerous grants including 2010-2011 (National Research Foundation) NRF free-standing postdoctoral fellowship. Dr Singh joined DUT as a postdoc and later became a Research Associate. His contribution has added to enhancing the research profile of the university.

FOR WATER & WASTEWATER TECHNOLOGY

The Institute for Water and Wastewater Technology (IWWT) was established at the DUT in 2010. The Institute was previously referred to as the Centre for Water and Wastewater Technology which was set up in 1994. It is recognized by the NRF as a 'Developed Research Niche Area' (RNA)(I of I3 in South Africa) specialising in research in the field of water and wastewater technology. To date, the facility is recognized as a "Centre of Excellence" with emphasis being placed on the applied aspects of science.

The RNA focuses on developing and optimising innovative and sustainable technology for the improvement of society. The focus has primarily been on the remediation of domestic and industrial waste streams, waste beneficiation and provision of quality potable water to the community. The approach is multi-disciplinary, combining the skills of both biotechnology and engineering disciplines to satisfy the much needed water requirements and industries at large. Team members comprise of experts from the biological, chemical and engineering disciplines.

The Institute has rapidly expanded with regard to research activities, collaborations and infrastructure and is regarded as the first 'port of call' with regards to solving regional water and wastewater related problems. Much emphases has been placed on skills development with regards to training postgraduate students to satisfy the human resource needs of the water sector in South Africa.



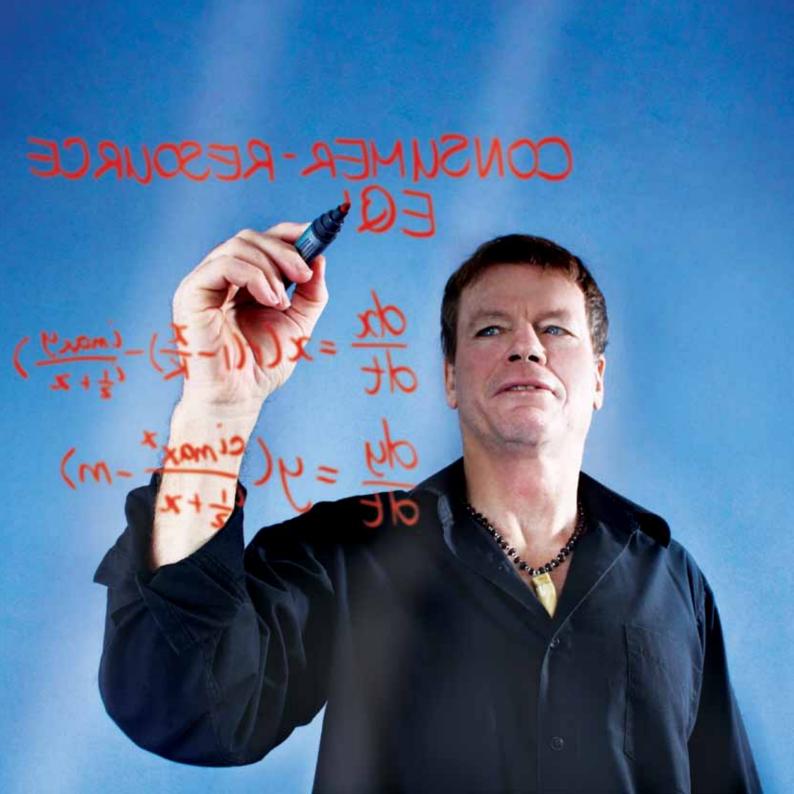


INSTITUTE OF SYSTEM SCIENCE

The Institute of Systems Science (iSS) has developed methodologies for understanding a variety of complex questions from the sciences, engineering and management. The Institute's members have over the past 10 years, formulated and put into practice a multi-disciplinary research group. The NRF presented them with a strong RNA award in their Institutional Research Development Programme.

In particular, the Institute's members research sustainable environmental systems and through the use of models predict the social dynamics related to income, migration and other factors. The iSS has a research coalition with the Faculty of Management Sciences to broaden its multi-disciplinary approach to include management and social sciences methodologies.

The researchers at iSS have over one hundred publications in peer-reviewed journal articles, books and other scholarly publications.



NEWLY RATED RESEARCHERS 2011



PROFESSOR NIRMALA
DEENADAYALU
DEPARTMENT OF
CHEMISTRY
FACULTY OF APPLIED
SCIENCES

Professor Deenadayalu is the principal investigator of the Thermodynamics Unit in the Department of Chemistry. She is an NRF C3-rated researcher with over 600 citations and an h-index of 11.

The Thermodynamics Unit obtains experimentally determined, high accuracy physicochemical data and the derived thermodynamic properties focusing on ionic liquids (ILs). More recently, the unit is looking at investigating the application of ILs for biomass processing. There are three registered full time MTech students, one DTech student and a Post-doctoral fellow.

The Research Unit has international collaborations with Warsaw University of Technology (Poland); California State Polytechnic University (USA); University of Delhi and the Indian Institute of Technology, Madras, (India). A regional collaboration is with the Fluorine Process Engineering and Separation Technology group from the University of KwaZulu-Natal (UKZN).



PROFESSOR KUGEN
PERMAUL
DEPARTMENT OF
BIOTECHNOLOGY
AND FOOD
TECHNOLOGY
FACULTY OF APPLIED
SCIENCES

Professor Kugen Perumal is based within the Department of Biotechnology and Food Technology at the Durban University of Technology. He obtained an NRF C3 rating recently and intends to continue working in Industrial Biotechnology as well as supervise postgraduate students.

NRF RATED RESEARCHERS

2010 & 2011

List of National Research Foundation Rated Researchers - 2010

SURNAME	INITIALS	TITLE	RATING	DEPARTMENT
Bisetty	K	Prof	L	Chemistry
Bux	F	Prof	C3	Institute for Water and Wastewater Technology
Duffy	KJ	Prof	C2	Institute of System Science
Kanny	K	Prof	L	Mechanical Engineering
Lachman	N	Prof	Y2	Basic Medical Science
Naidoo	R	Prof	L	Mathematics
Odhav	ВО	Prof	C3	Biotechnology and Food Technology
Otieno	FAO	Prof	C3	Technology, Innovation and Partnerships
Singh	S	Prof	CI	Biotechnology and Food Technology
Tabakov	PY	Prof	C2	Mechanical Engineering
Walker	М	Prof	C2	Mechanical Engineering

List of National Research Foundation Rated Researchers - 2011

SURNAME	INITIALS	TITLE	RATING	DEPARTMENT
Bux	F	Prof	C3	Institute for Water and Wastewater Technology
Deenadayalu	N	Prof	C3	Chemistry
Duffy	KJ	Prof	C2	Institute of System Science
Kanny	K	Prof	L	Mechanical Engineering
Odhav	во	Prof	C3	Biotechnology and Food Technology
Otieno	FAO	Prof	C3	Technology, Innovation and Partnerships
Permaul	К	Prof	C3	Biotechnology and Food Technology
Puckree	Т	Prof	C3	Faculty of Health Sciences
Singh	S	Prof	CI	Biotechnology and Food Technology
Tabakov	PY	Prof	C2	Mechanical Engineering
Walker	М	Prof	C2	Mechanical Engineering



POSTDOCTORAL FELLOWS

& RESEARCH ASSOCIATES

Postdoctoral Fellows at the University - 2010

POSTDOCTORAL FELLOW	DEPARTMENT	SUPERVISOR
Dr J Adeyemo	Civil Engineering/Institute for Water and Wastewa- ter Technology	Prof F Bux
Dr R Bose	Biotechnology and Food Technology	Prof B Odhav
Dr A Kumar	Biotechnology and Food Technology	Prof S Singh
Dr R Kumar	Institute for Water and Wastewater Technology	Prof F Bux
Dr S K Santhosh Kumar	Institute for Water and Wastewater Technology	Prof F Bux
DrTP Mohan	Mechanical Engineering	Prof K Kanny
DrT Mutanda	Institute for Water and Wastewater Technology	Prof F Bux
Dr P Pandian	Chemistry	Dr R Gengan
Dr K C Raju	Biotechnology and Food Technology	Prof B Odhav
DrW Rmaiah	Biomedical and Clinical Technology	Prof JK Adam
Dr P Singh	Chemistry	Prof K Bisetty

Postdoctoral Fellows at the University - 2011

POSTDOCTORAL FELLOW	DEPARTMENT	SUPERVISOR
Dr I Bahadur	Chemistry	Prof N Deenadayalu
Dr L N Bengu	Public Management and Governmental Studies	Prof M Wallis
Dr R Chalannavar	Biotechnology and Food TechnologyChemistry	Prof B Odhav
Dr X Chen	Biotechnology and Food Technology	Prof S Singh
Dr B Dzwairo	Institute for Water and Wastewater Technology	Prof FAO Otieno
Dr A Govender	Biotechnology and Food Technology	Prof K Permaul
Dr A Kumar	Biotechnology and Food Technology	Prof S Singh
Dr R Kumar	Institute for Water and Wastewater Technology	Prof F Bux
DrT P Mohan	Mechanical Engineering	Prof K Kanny
DrT Mutanda	Institute for Water and Wastewater Technology	Prof F Bux
Dr S B Naidu	Biomedical and Clinical Technology	Prof J K Adam
Dr P Pandian	Chemistry	Prof RM Gengan
Dr N Venugopala	Biotechnology and Food Technology	Prof B Odhav

DUT Research Associates - 2011

RESEARCH ASSOCIATES	DEPARTMENT	SUPERVISOR
Dr P Singh	Chemistry	Prof K Bisetty
Dr SK Santhosh	Institute for Water and Wastewater Technology	Prof F Bux

DR WAFAA RMAIH



DEPARTMENT OF
BIOMEDICAL AND
CLINICAL
TECHNOLOGY
FACULTY OF HEALTH
SCIENCES

Dr Rmaih 's research focus is medical and clinical: her research expertise is Clinical Pharmacology as well as various clinical fields of medicine including cardiology, gynaecology, obstetrics and neurology. The main force that drives her research is her background of study, which is a Bachelor's Degree in Medicine and Surgery and Master's degree in Clinical Pharmacology as well as a Diploma in Gynaecology and Obstetrics. Her passion for research has given her the opportunity to explore and investigate the constantly arising questions in the diverse arenas of medicine. During her Post-doctoral tenure, her research horizon was further expanded due to the numerous research projects in the dynamic field of Clinical Technology. Dr Rmaih has authored and co-authored 8 papers in International Journals, and has presented her research findings at national and international conferences. She was also involved with the co-supervision of postgraduate MTech and DTech students.

DR BLOODLESS DZWAIRO



INSTITUTE FOR
WATER AND WASTEWATER TECHNOLOGY

Dr Dzwairo is based at the Institute for Water and Wastewater Technology. She holds a doctorate in Civil Engineering (Water Quality Modelling) from Tshwane University of Technology, an MSc in Integrated Water Resources Management from University of Zimbabwe and a BSc chemistry and microbiology from University of South Africa

Dr Dzwairo's area of specialisation is water resources management and her postdoctoral fellowship focuses on raw water quality modelling using hybrid evolutionary algorithms. She is working to develop surface raw water quality indices, in addition to portable water treatment chemical dosage models, that recognise variability of raw water quality, in order to forecast chemical usage. She is also developing a surface raw water pricing model that incorporates quality variability at Tier 1 of the cost chain for water services, between department of water affairs and portable water treatment utilities.

Her other research interests are water and wastewater treatment, rural and peri-urban water and community-based demand sanitation, alternatives to ecological sanitation, environmental engineering, environmental management and acid mine drainage.

Dr Dzwairo currently supervises 2 masters and 2 doctoral students within a collaborative research group between Tshwane University of Technology and Durban University of Technology, focusing on the Vaal and Umgeni catchments and with an objective to tailor her research to sector needs by responding to Water Boards' sustainable environmental management research challenges.

Thus far, Dr Dzwairo has published I book chapter, 7 journal articles and I6 conference/symposium proceedings. Her plans for the next five years entail building a vibrant and well-funded research cluster group for the Vaal and Umgeni basins in order to conduct science and environmental engineering integrated research through a multi-disciplinary postgraduate research studentship, publishing a minimum of I0 articles in accredited journals, and teaching main stream modules.



PROLIFIC RESEARCHERS 2010/2011

These are researchers at the DUT at professorial level that have published in accredited, peer-reviewed journals and have made significant contribution in their field.

PROFESSOR FRED (FAO) OTIENO



DVC: TECHNOLOGY, INNOVATION & PARTNERSHIPS

Professor Fred Otieno is a C1 rated researcher with the National Research Foundation; he is a professional registered engineer (PrEng) and a Fellow of the South Africa Institution of Civil Engineers (FSAICE). He is a Senior Fellow of the Water Institute of Southern Africa (WISA) and was the WISA President in 2007/2008. He has previously held a number of non-executive director positions, including the Water Research Commission, the Softstart BTI Technology Incubator and the South African

National Roads Agency (SANRAL). Professor Otieno was a member of the Strategic Advisory and Transformation Committees of the Engineering Council of South Africa (ECSA). He is involved in UNESCO's African National Scientific and Technological Institutions (ANSTI) as the vice chairperson of the Board. Professor Otieno currently serves as a non-executive director on the Rand Water Board, and is the Chairperson of the InvoTech Board at DUT (InvoTech is a business incubator).

Professor Otieno is active in the research areas of Water Resources Management, Water Demand Management and Environmental Management. He has over 64 journal publications to his name, as well as numerous conference proceedings (110 in total). His work also includes seven book chapters and edited books. Professor Otieno is a prolific supervisor, and has graduated a total of 32 Masters' and 8 Doctoral students. He is currently supervising five Masters' and eight Doctoral students, with more in the pipeline.

PROFESSOR FAIZAL BUX



INSTITUTE FOR WATER AND WASTEWATER TECHNOLOGY (IWWT)

Professor Faizal Bux is a renowned, award-winning Environmental Biotechnologist and a C3 NRF-rated scientist who applies his expertise to assist industry and government in wastewater technology development. A widely read and published scholar; he serves on international associations and professional organizations on water and wastewater technology and is the editor of 2 ISI listed journals and I book. Professor Bux is supported by an established and multi-disciplinary group of academics and researchers. Some of his current projects include optimizing water and wastewater treatment technology for domestic and industrial application, biodiesel production using algae and trouble-shooting industrial wastewater treatment problems. Professor Bux shares his knowledge with communities that require analysis and advice on water provision and quality issues. He has raised more than R20 million in external funding. He also has 54 ISI publications and 89 conference proceedings to his name.

PROFESSOR KEVIN DUFFY



INSTITUTE OF SYSTEM SCIENCE

Professor Duffy is a C2 NRF rated researcher who has a diverse research background – the common thread being the application of computational methods to 'real world' questions from the sciences with a strong emphasis in the natural science. Much of this work has been to understand environmental issues using interdisciplinary research by combining the mathematical, physical and biological sciences and in particular using computational models. Professor Duffy presently manages the Institute of Systems Science at DUT. In addition, he has supervised postdoctoral, DTech, MTech and fourth year undergraduate students. He has created the Systems RNA under the auspices of the NRF, South Africa. The centre was one of the first research groups to achieve this distinction at the DUT. It has recently been upgraded to a developed niche area which has established a strong applied research programme with an industry partner on optimising fuel and carbon emissions on major industrial mines. He has also established a funded project for research links in China.

PROFESSOR DIMOV ILCEV



TECHNOLOGY, INNOVATIONS AND PARTNERSHIPS

Professor Ilcev is part of the Space Science Research Group at the DUT. The aim of the research group is to develop the research and postgraduate studies in Space Science with specific reference to Satellite Communications; Navigation and Surveillance (CNS); Satellite Fixed and Mobile Communications; Space Science and Engineering; Satellite Earth and Weather Observation: Satellite GIS: Satellite Materials and Electronics; Satellite Asset Tracking and Fleet Management (SATFM); Satellite SCADA or M2M; Satellite Digital Video Broadcasting-Return Channel via Satellite (DVB-RCS); Satellite E-solutions; Stratospheric Communication Platforms (SCP); ICT and Data Processing; Intelligent Transport Systems (ITS); Logistics; RFID; Surface and Space Alternative Energy; other Radio and Space Technologies and Techniques for Modern Transport Systems; and additional future developments. The research group's approach is unique because it focuses the research on enhancing skills development and specialization including realisation of practical projects employing modern techniques, technology transfer and innovations, rather than

providing research without practical solutions or asking other countries for help. The intention is to produce skilled professionals at first, for the South African (RSA) Space Program of SANSA and later to provide intensive research, solutions, designs and projects of Satellite CNS Space and Ground Segments in collaboration with our domestic and foreign partners. The main purpose of the Research Enhancement pillar is also to provide, propose and realise many projects for the South African government and improve practitioner capacity. All research and innovations come with the fact that the various offerings in the Projects Enhancement pillar are driven by professional practitioners for practitioners.

PROFESSOR ROGER MASON



RESEARCH
CO-ORDINATOR
FACULTY OF
MANAGEMENT
SCIENCES

Professor Mason is an Associate Professor with two roles: the first role, is in the Department of Marketing and Retail, whilst the second role, is Research Co-ordinator in the Faculty of Management Sciences. Professor Mason's research is in the field of management, strategy and marketing, using a cross disciplinary approach involving chaos and complexity sciences. Based on his PhD studies, many of his articles, conference papers and current research is based on the principles of non-linear dynamics and complex adaptive systems as they apply to marketing and business. He has presented papers at international conferences in the UK, USA and Africa, and has published articles in international journals such as Management Decision, Journal of Promotion Management, Industrial Management and Data Systems, Journal of Marketing Communications, and Journal of Enterprising Culture, as well as in South African journals.

PROFESSOR BRIAN PEARCE



DEPARTMENT OF DRAMA STUDIES FACULTY OF ARTS AND DESIGN

Professor Pearce is an Associate Professor in Drama Studies at DUT. His main research is in the field of Shakespeare Studies, with particular emphasis on Shakespeare in performance. He was Editor of Shakespeare in Southern Africa from 2000 to 2008 and is currently serving on the Editorial Board of this journal. He has published 10 research articles in peer-reviewed journals and 2 book chapters in the field of Shakespeare Studies, as well as other articles, reviews and reports in the field of Drama Studies. He is currently a member of the Institute of System Science at DUT. He is also a theatre director and has directed both professionally and in an educational context. He believes that such creative outputs can lead directly to research papers and he sees creative work as an important aspect of his work. He is currently supervising at postgraduate level in a range of disciplines in the Faculty of Arts and Design, as well as through the Institute of System Science.

PROFESSOR LINA PUCKREE



EXECUTIVE DEAN FACULTY OF HEALTH SCIENCES

Professor Puckree is a C3 rated researcher with the National Research Foundation. She was awarded a PhD in exercise. physiology (USA). However, on her return to SA, her research in Physiotherapy did not receive any financial support. However, this disappointment did not deter her enthusiasm in setting up a research based laboratory to support a physiotherapy practice. Despite the initial financial setback, some funding was secured to undertake research to provide evidence for physiotherapy practices – for example: the effects of movements, corsets, special techniques, etc. Similarly, the effects of strapping to measure lung function and breathing muscle activity is also being researched. These were laboratory based studies with rigorous measurements. Her other studies focused on the prevention of injury and pain through epidemiological studies in various sporting activities. Her current research is based on lung function and developing normograms for the South African population. Professor Puckree's future plan is to set up a research laboratory for the Faculty and encourage multidisciplinary research to provide evidence for rehabilitation practices. Her research work has resulted in over 45 peerreviewed publications in national and international journals. She is currently supervising and examining postgraduate work.

PROFESSOR GRAHAM STEWART



DEPUTY DEAN FACULTY OF ARTS AND DESIGN

Professor Stewart's research is founded on the premise that a new South African literary history requires a radically different form of literacy with a structure that deliberately subverts vestiges of colonial era racial categorisation that continue to bedevil local studies. An encyclopaedia of Southern African literature, published as hypertext, has the unique anti-canonical capacity to resist the privileging of particular authors or languages, and, is thus a suitable model for the development of an inclusive and comprehensive reference instrument to advance reclamation scholarship. The non-hierarchal design of such a reference source promotes the uncovering and reexploration of texts that were previously banned, marginalised or ignored under colonial and apartheid hegemonies. Beginning with the establishment of the SALIT Database during his doctoral studies, he continued his research with the development of an online KZN Literary Map, which ultimately led to his current work as associate editor of the Encyclopaedia of Southern African Arts, Culture and Heritage (ESAACH). Alongside his literary research, he has continued to investigate ways in which a multi-media encyclopaedia can contribute to innovative pedagogy via e-learning.

PROFESSOR SUREN SINGH



DEPARTMENT OF BIOTECHNOLOGY AND FOOD TECHNOLOGY FACULTY OF APPLIED SCIENCES

Professor Singh is a C1 NRF rated scientist, Head of Department of Biotechnology and Food Technology and is the Research Leader for the Enzyme Technology research group, which includes 2 postdoctoral fellows, 20 MTech and 2 DTech students. The group focuses on the isolation, production (shake flask to large scale fermenters) biochemical characterization, purification, and application of thermostable enzymes viz.: ixylanases targeted towards the pulp and paper industry to reduce the chemical demand and for the production of biofuels; chitinases – bioconversion of shell fish waste and other medical, agricultural and industrial applications; phytases – animal feed supplement to enhance the nutritive value of plant material. The establishment of biological alternatives to current chemical methods has been the primary goal of the group. Other projects are focused on IGF production and the production of probiotics. Collaborations with India, China, Malaysia, Sweden and the USA have been the hallmark of this group.

PROFESSOR PAVEL TABAKOV



DEPARTMENT OF
MECHANICAL
ENGINEERING
FACULTY OF ENGINEERING AND THE BUILT
ENVIRONMENT

Professor Tabakov's is a C2 rated researcher with the National Research Foundation. His area of research focuses on optimization design of engineering structures using artificial intelligence and evolutionary algorithms. His work has mostly concentrated on the optimal design of thick composite pressure vessels based on an exact analytical solution. Because of the anisotropy in composites and the presence of the curvature in cylindrical pressure vessels, the design optimization of such structures presents considerable challenges and difficulty. Moreover, in the case of five or more layers, it is hardly possible to find the optimum fibre orientation and their combination through the thickness using any calculus based method. First, the design was accomplished using the genetic algorithm and subjected to the Tsai- Wu failure criterion. Recently, he successfully implemented the Big Bang – Big Crunch algorithm for the structural optimization and analysis of large databases. He also developed a new methodology for the classification and cluster analysis of the data in large multi-dimensional databases by employing randomly travelling hyper-ellipsoids.

EMERGING RESEARCHERS 2010/2011

These are researchers at DUT who are beginning to make a significant contribution in their field.

DR JOSIAH ADEYEMO



DEPARTMENT OF CIVIL
ENGINEERING AND
SURVEYING
FACULTY OF ENGINEERING AND THE BUILT
ENVIRONMENT

Dr Adeyemo is a Senior Lecturer in the Department of Civil Engineering and Surveying. His research area deals with developing and applying single and multi-objective evolutionary optimization techniques to solve real-world science and engineering design problems, especially in water resources engineering. Through his research, he has discovered that the developed evolutionary algorithms have a wide range of applications in water management problems (reservoir operations, hydropower, flood control, watershed management, catchment hydrology, groundwater management, irrigation planning, cropping pattern determination, crop planning, water reuse, wastewater management, water use reduction etc). Dr Adeyemo has developed a multi-objective evolutionary algorithm called multi-objective differential evolution algorithm (MDEA) which is used by many researchers worldwide. Other variants of the algorithm are being developed. Recently, he was involved in developing other hybrid evolutionary algorithms. Dr Adeyemo has a passion for finding solutions to complex real-world engineering problems especially in water management by using simplified but effective evolutionary algorithms.

DR KAVITA BEEMSEN



BUSINESS STUDIES UNIT TECHNOLOGY, INNOVATION AND PARTNERSHIPS

Dr Beemsen is the Head of Department of the Business Studies Unit. She believes that the systematic evaluation of training is critical to demonstrate the effectiveness of planned learning, in terms of organizational performance. Her research is an evaluative study that focused on developing measurement tools to assess the transfer of trained knowledge and skills back to the work place. These measurement tools were developed based on factors identified in the literature. The study followed a retrospective, longitudinal trend design with two groups of respondents and utilized the training evaluation measurement tools that were developed. The key results of the research study added value to the human resource development paradigm as research-based measurement tools, using known psychometric properties.

DR IVAN G GOVENDER



DEPARTMENT OF ENTREPRENEURIAL STUDIES AND MANAGEMENT FACULTY OF MANAGE-MENT SCIENCES

Dr Govender is a Lecturer in the Department of Entrepreneurial Studies and Management, His research involves the monitoring and evaluation in the three spheres of government and its consequences towards service delivery, governance, leadership and economic development. The South African constitutional dispensation has introduced many challenges for democracy, in particular, the decentralisation of power to the provincial and local government spheres. This has created complex institutional environments in which provincial and local government has to deliver services. Monitoring and evaluation systems enhance good governance and assists in the improvement of performance. It identifies the gaps in capacity development and directs decision makers for the re-allocation of resources. Monitoring and evaluation is complex and its success depends heavily on the political support, Currently, government has not fully implemented the Government Wide Monitoring and Evaluation System. This has subsequently impeded the alignment and integration of its policies, programmes and projects across the three spheres of government. The research is critical in highlighting the extent of planning, implementing and monitoring evaluation systems in the three spheres of government.

DR JEEVARATHNAM P GOVENDER



DEPARTMENT OF MARKETING FACULTY OF MANAGEMENT SCIENCES

Dr Govender is a Senior Lecturer in the Department of Marketing and Retail Management and holds a PhD in Marketing. His specific area of interest is service quality. His publication record for 2011 comprises four SAPSE accredited journal articles. He was recently identified by the NRF as an emerging researcher. He has been actively involved in teaching marketing, marketing research and research methodology at the DUT as well as at other institutions and he is currently supervising MTech and DTech students. His graduate profile includes 11 MTech and 18 Master's of Business Administration (MBA) graduates.

DR MANDUSHA MAHARAJ



DEPARTMENT OF MARKETING FACULTY OF MANAGEMENT SCIENCES

Dr Maharaj is a Senior Lecturer in the Department of Marketing and Retail Management. The focus of her field of research is Customer Relationship Management (CRM) principles. CRM involves an overhaul of marketing management principles and practices, by engaging the head, enacting with hands and enabling through the heart (3 H & E). The purpose of her research is, therefore, to learn, believe and practice by integrating the head, hands and heart of teaching and learning. The findings of Dr Maharaj's research have been presented at international conferences. She has published her research findings in international and local peer-reviewed accredited journals.

DR VIRESH MOHANLALL



DEPARTMENT OF
BIOTECHNOLOGY
& FOOD TECHNOLOGY
FACULTY OF APPLIED
SCIENCES

Dr Mohanlall is a Senior Lecturer in the Department of Biotechnology and Food Technology. His research has encompassed totally diverse fields including mycotoxins and phytochemistry of indigenous plants. Both these research areas have significant implications on social development in rural areas. Dr Mohanlall is currently involved in the field of Nanotechnology and Drug Delivery and Phytochemistry. He is currently supervising 3 MTech research projects as well as 2 BTech research projects. Dr Mohanlall has published 6 articles in international peer-reviewed journals and is currently in the process of submitting 3 more articles in 2012. His future plans are, initially, to further develop these research areas together with the Research Group Leaders; become more competitive with other tertiary institutions in the KZN region and to apply for NRF rating in 2013.

DR GRAHAM MYERS



DEPARTMENT OF AUDITING AND TAXATION FACULTY OF ACCOUNTING AND INFORMATICS

Dr Myers is Senior Lecturer in the Department of Auditing and Taxation. He has spent the last 16 years creating a model of Research Methodology that works surprisingly well, particularly in the fields of Accounting and more generally in Management. This is now bearing fruit in the increase in the number of students applying to enter Master's Programmes, not only at the DUT, but also at other universities in South Africa. The model uses an Action Research method to improve on the research process, whereby students are encouraged to access the skills of many graduates who can assist them in their methodology, editing and statistical requirements. These findings allow large numbers of students to be accommodated in one class. Although having presented papers in different management and accounting fields, his focus is on teaching and improving staff and students' research skills at a national level. He has supported over 2 500 BTech proposals and pilot studies. In collaboration with a South African Breweries student, findings from recent research include the effect of "bottle shock" on beer bottles that reduced breakages by 0.5%, which created a substantial annual savings in glass. Another finding, in collaboration with a Durban law student, highlighted the effect of Umthakathi (witchcraft) on the Law.

DR PAULENE NAIDOO



DEPARTMENT OF PUBLIC RELATIONS MANAGEMENT FACULTY OF MANAGEMENT SCIENCES

Dr Naidoo is a Lecturer in the Department of Public Relations Management. Her research aims to assist international organisations and their employees by providing guidelines for conducting business, specifically in Japan and South Africa, Dr Naidoo's research focused on existing models and theories regarding intercultural communication and compared cultures in South Africa and Japan with a special focus on the work practice. It examines areas of culture, communication, globalisation and cultural transformations in today's society. Her research also explored how advanced technology and media are used to influence communication across cultures and across geographical locations. The findings of her research aimed to improve intercultural competence in both national and international organisations. It is envisaged that within these organisations, management examine the limitations pointed out from her research and change their policies and procedures to promote and encapsulate a more intercultural and global environment.

DR DAVID NAUDE



DEPARTMENT OF HOMEOPATHY FACULTY OF HEALTH SCIENCES

Dr Naude is a Senior Lecturer, Research Co-ordinator and Clinic Director in the Department of Homeopathy. His research interest generally encompasses homeopathic drug proving's and homeopathic clinical research. He is able to promote his passion through supervising research students, publishing articles in peer-reviewed journals and presenting his findings at international level. In addition, Dr Naude has a keen interest in research ethics.

DR KUDAYJA PARKER



DEPARTMENT OF
PUBLIC MANAGEMENT &
ECONOMICS
FACULTY OF
MANAGEMENT
SCIENCES

Dr Parker is a Senior Lecturer in the Department of Public Management and Economics. Her research interests encompass the fields of Economic Education and Economics of Education. Economic Education investigates the factors that impact on effective teaching and learning of Economics as a subject at different schooling levels. This field of study, focuses on the important role played by economic literacy in the lives of ordinary citizens, and hence the relevance of the discipline in everyday life. Some of her research in this area includes analyzing the determinants of student achievement in first-year Economics at South African universities. Economics of Education considers economic issues relating to Education, such as the demand for education, the costs of education, the returns or rewards to education. As such, the techniques of Economics are applied to investigating and resolving education problems and issues. Currently, Dr Parker is researching the factors that encourage DUT students to be more engaged and involved with their education through the South African Survey on Student Engagement (SASSE).

DR RENITHA RAMPERSAD



DEPARTMENT OF PUBLIC RELATIONS MANAGEMENT FACULTY OF MANAGEMENT SCIENCES

Dr Rampersad is a Senior Lecturer in the Department of Public Relations Management in the Faculty of Management Sciences. She has a DPhil in Communication Science and her specialist research areas are Transformation in Business; Ethical Business practices; Transformation and Consumer Protection in South Africa; Corporate Social Investment; HIV and AIDS as well as Intercultural Communication in South Africa. She has published her research in local and international peer-reviewed journals and books and has presented at both national and international conferences, including collaborative writings on both a national and international level. She is a member of Public Relations and Communication Associations and is a reviewer for national and international journals.

DR SUDESH RATHILAL



DEPARTMENT OF CHEMISTRY FACULTY OF APPLIED SCIENCES

Dr Rathilal is a Senior Lecturer in the Department of Chemistry. He recently graduated with a PhD in April 2011 from the University of KwaZulu-Natal. He is currently involved in research under the broad topic of Process Liquid Separation which involves membranes and liquid-liquid extraction. Dr Rathilal has presented his research at international conferences. He has also published his research in an accredited journal and is currently supervising BTech and MTech Students at DUT and co-supervising at UKZN.

DR JUNAID SHAIK



DEPARTMENT OF
CHIROPRACTIC AND
SOMATOLOGY
FACULTY OF HEALTH
SCIENCES

Dr Shaik is a Senior Lecturer in the Department of Chiropractic and Somatology. His current research interest is Molecular epidemiology, drug susceptibility patterns and immunological biomarker responses to treatment of Mycobacterium tuberculosis in HIV-infected and -uninfected children. The increased prevalence of both MDR and XDR strains of MTB poses a serious threat to TB control, Genotypic diversity and its association with drug resistance in children are inadequately documented. Contact tracing is vital in order to determine transmission patterns within communities. The impact of co-infection with HIV in both adults and children in the transmission of TB has not yet been investigated. The diagnosis of pediatric tuberculosis is challenging and the clinician often commences anti-TB therapy empirically. Current knowledge and understanding of the pathogenesis of Mycobacterium tuberculosis and the response to anti-TB therapy is limited. Successful control of the childhood TB epidemic requires early diagnosis, a shortened duration of chemotherapy and a method of evaluating the effects of treatment. Identification of suitable biomarkers that predict the efficacy of anti-TB therapy will contribute to the fight against TB.

DR NOKUTHULA SIBIYA



DEPARTMENT OF NURSING SCIENCES FACULTY OF HEALTH SCIENCES

Dr Sibiya is Head of Department in the Department of Postgraduate Nursing. Her area of specialty is primary health care (PHC) and women's health. Dr Sibiya is also involved in a collaborative intervention research study to enhance cervical screening uptake in South Africa. In 2011, she published a book chapter on cervical cancer. In 2007, Dr Sibiya was funded through Skills Development to attend a seminar on Grounded Theory in the Institute of Grounded Theory in the US. She has been facilitating a series of workshops on the use of this approach. She is also the co-ordinator of postgraduate studies in the Nursing Department and she co-ordinates postgraduate workshops that are offered to all new postgraduate students in the department. She has successfully supervised Master's students in the department. She is also involved in interdepartmental postgraduate supervision.

DR ALEX VAN DER MERWE



DEPARTMENT OF
PUBLIC MANAGEMENT &
ECONOMICS (RIVERSIDE
CAMPUS)
FACULTY OF MANAGEMENT
SCIENCES

Dr van der Merwe is a Senior Lecturer in the Department of Public Management and Economics. His research examines the role that open education (connecting learners and teachers to an online teaching community and resources) could play in supporting teaching and learning in South African high schools. The aim of his applied research study was to gauge the potential of Open Education Resources (OERs) (including free and open source software) to empower South African public high school teachers and learners to achieve required learning outcomes. His research aims to test, using a case study approach, the claim by Thakrar and Zinn (2009) that the possibilities and potential for harnessing OERs are myriad and offer an innovative platform to support teacher learning/practice. Hence, the study intends to probe the notion that OERs, if efficiently employed, can supplement – at little or no cost – the resources and materials available to teachers and learners. A further peripheral interest of his research was to assess to what extent open source learning management systems (LMSs), could be employed to circumvent school management problems associated with under-qualified and/or absentee teachers.

MR PIERS C CAREY



Mr Carey is Head of Department in the Department of Visual Communication Design. His research has focused on two main areas: firstly, he has investigated across the continent indigenous African alphabets and graphic systems, ranging from Prehistoric Rock Art to the present day. In addition, he has researched adaptations of the Roman alphabet for indigenous languages. His findings have indicated that the pictographic / ideographic systems are more interesting, because they tend to embody deep ranges of concepts about their cultures. Secondly, his recent research has concentrated on widening participation in Graphic Design both as a course and a discipline, particularly by means of work experience. Graphic Design is less well known and understood in South Africa than in other countries and so not many students apply for this qualification. He has published in Design Issues (MIT Press), Image & Text (University of Pretoria) and a range of conference proceedings, and supervises MTech students.

MR JASON DAVIS



DEPARTMENT OF PUBLIC
MANAGEMENT AND
ECONOMICS
FACULTY OF MANAGEMENT
SCIENCES

Mr Davis is a Lecturer in the Department of Public Management and Economics. His area of interest in research firstly has to do with the teaching and learning of economics through the use of games to enable students to learn economics in a more authentic fashion. The results of this research were positive, both from the student's perception and their performance in engaging with the game. His second area of research has to do with looking at improving the efficiency of the economy. In this area, he is interested in the performance of small, medium and micro enterprises in developing the economy; the current land reform process and its potential opportunities and problems; and finally transportation economics which involves the difficult question of how to develop a low cost and efficient transportation system for South Africa, Mr Davis has presented his research at several international and national conferences and he has published the findings of his research in accredited national and international journals.

MS JENNIFER DUCRAY



DEPARTMENT OF BASIC MEDICAL SCIENCE FACULTY OF HEALTH SCIENCES

Ms Ducray is a Lecturer in the Department of Basic Medical Science. Her primary research focus was in Microscopy. This has resulted in her registering for her MSc in Medical Science at the Optics and Imaging Centre at the University of Kwa-Zulu Natal, Her current field of research is pregnancy-induced hypertension or Pre-eclampsia, the precise aetiology of which is still poorly understood. Her Master's took the form of comparative morphometric microscopy of placental samples from pre-eclamptic and normotensive groups. She admires the work of Professor Berthold Huppertz who studied the role of apoptosis in controlling placental turnover into the maternal circulation. His work sparked her interest in possible dysregulations of these cellular mechanisms. If the controlled and non-inflammatory processes of apoptosis and autophagy are compromised in favour of a necrotic shedding of placental debris into the maternal circulation, this would impact on the maternal cardiovascular system and could account for the maternal systemic inflammatory response which typifies preeclampsia. Current collaborative investigations are exploring aspects of this theory.

MR ROWAN C GATFIELD



DEPARTMENT
OF VISUAL
COMMUNICATION
DESIGN
FACULTY OF ARTS AND
DESIGN

In 2009, Messrs Gatfield and Carey commenced with the 'Creative Industries, Creative Solutions' Research Project. The project which reached fruition in 2011 is a collaboration project between the Graphic Design Programme in the Department of Visual Communication Design (DVCD) at DUT, South Africa; and the 'Continuum' unit of the University of East London (UEL), United Kingdom. This project focused on the development of a working graphic design studio within the Graphic Design Programme's BTech course as a means of widening participation and developing work-integrated learning (WIL) elements. The product of this project, now called 'Workspace, Work Integrated Learning Design Studio, is run by Mr Gatfield, who serves as Creative Director and lecturer which is by staffed by BTech Graphic Design students. The studio has been servicing the DUT community since January 2010 and was recently appointed as the official advertising and design agency of the University. The studio, in consultation with the Division of Corporate Affairs, has been instrumental in developing: the DUT's 2012 Strategic and Marketing Plan; the production of advertising; corporate literature and the 2012 Corporate Identity Manual, This includes the development of the new DUT Logo. Further, the studio created the interior design identity for Build-A-Burger Restaurant, and the official South African Food and Nutrition Guide, facilitated by the Food and Agriculture Organisation of the United Nations.

MR CRISPIN HEMSON



INTERNATIONAL CENTRE
OF NONVIOLENCE

Mr Hemson is based in the International Centre of Nonviolence at DUT. His major research focus is violence and nonviolence within society, and particularly within education. He is currently undertaking a longitudinal study of lifesavers and masculinities, as well as a study of the pedagogy used by young matriculation learners who succeeded despite overwhelmingly negative conditions. Recent publications include an article on using memories of violence in working on nonviolence with young people, and a case study of resilient African migrant learners in a primary school. He also writes press articles on such issues as violence and resilience, and how nonviolence relates to environmental action.

MS GITANJALI U MISTRI



CENTRE FOR
EXCELLENCE IN
LEARNING AND
TEACHING (CELT)

Ms Mistri is an Educational Technologist in the Centre for Excellence in Learning and Teaching. She is currently a member of a research team in an NRF funded research project titled: Context, Structure and Agency Research Project, This study consists of an analysis of the national context, and seven case studies at public higher education institutions, It explores how material, policy and cultural forces influence individuals' engagement in professional development opportunities, and what type of professional development strategies are effective in these environments. In 2011, Ms Mistri received an NRF PhD grant for a doctoral study at Rhodes University. Her area of study is Cultural, Structural and Agential factors that enable and constrain the professional development of academics using collaborative and learning technologies at DUT. The goal of this research is to examine the professional development needs of academic staff for the application of collaborative technologies in academic programmes offered at DUT, Ms Mistri has presented her research findings at several local conferences. She has also published an article in an accredited journal.

MR SAGESHIN NAGURAN



DEPARTMENT OF
EMERGENCY MEDICAL
CARE AND RESCUE
FACULTY OF HEALTH
SCIENCES

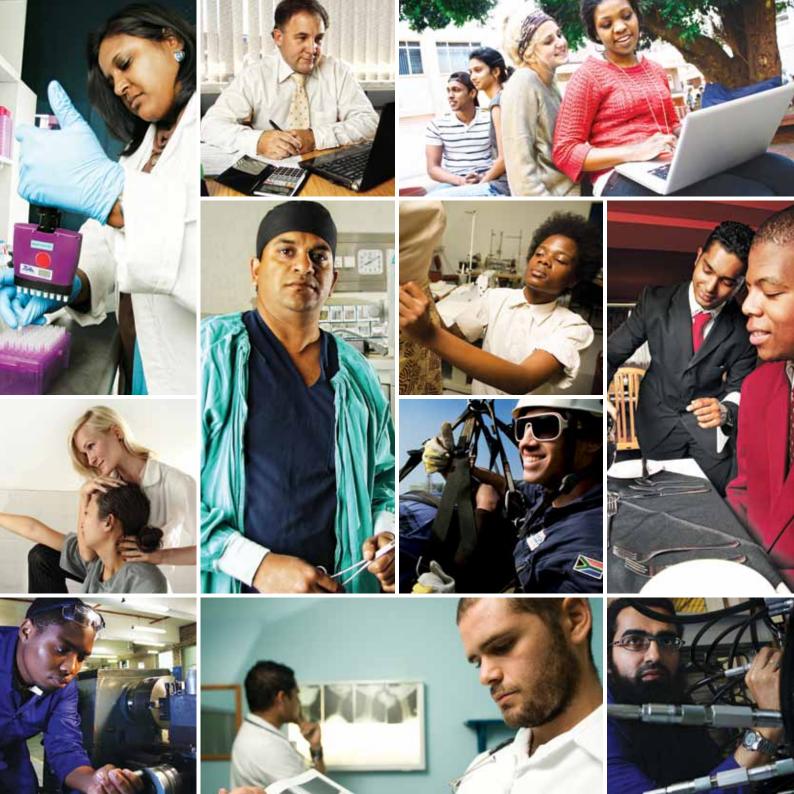
Mr Naguran is Head of Department in the Department of Emergency and Medical Care and Rescue (EMCR). Mr Naguran's area of expertise is Infection Prevention and Control in the field of Emergency Medical Care. He embarked on a microbiological survey to determine what micro-organisms were growing in ambulances as well as a survey to determine the knowledge and practice of ambulance staff in infection control. Thus far, he has published a journal article and presented at a conference and he is currently supervising 2 MTech students and I BTech student. He has published a book arising from his Master's in EMCR. He also serves on a panel appointed by the HPCSA to develop infection control guidelines for the Emergency Medical Services for SA.

MR RAVEEN NAIDOO



DEPARTMENT OF
EMERGENCY MEDICAL
CARE AND RESCUE
FACULTY OF HEALTH
SCIENCES

Mr Naidoo is a Lecturer in the Department of Emergency Medical Care and Rescue (EMCR). His PhD, through the University of Witwatersrand, focused on pre-hospital cardiology. Since 2000, he has been employed at DUT, first as a lecturer, then Head of Department. Mr Naidoo currently manages research in the Department of EMCR and is extensively involved in postgraduate research supervision at MTech level. He has served as an executive member and chairman of the education committee of the Professional Board for Emergency Care since 2004 and during mid-2010 was elected as Chairman of the Professional Board for Emergency Care: HPCSA. He is also the founding President of Emergency Care Society of South Africa and an Executive Committee Member of the African Federation for Emergency Medicine. He has contributed extensively to his profession through journal and book publications; conference presentations; patent, trademark and design registrations and is the section editor for the African Journal of Emergency Medicine.



RESEARCH DASHBOARD

@DUT

MASTERS GRADUATES 2010 AND 2011

FACULTY OF ACCOUNTING & INFORMATICS

NO	STUDENT	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Naidoo Segarani	The impact of the digital divide on information literacy training of Extended Curriculum Programme students at the Durban University of Technology	Library and Information Studies	Prof J Raju	2011
2	Piyose Xolisa	A scorm complaint E learning content Prototype for the training of OBE maths Teachers in the Developing countries	Information Technology	Prof SD Eyono Obono	2010
3	Shewell Patricia Maureen	Finance function: Leveraging a source of competitive advantage for selected South African companies in KwaZulu-Natal	Cost & Management Accounting	Dr M De Beer	2011
4	Tamba Tamba Paul Aimé	Web Search Engines as Teaching and Research Resources: A Perception Survey of IT and CS staff from selected Universities of the KwaZulu-Natal and Eastern Cape Provinces of South Africa	Information Technology	Prof SD Eyono Obono	2011

FACULTY OF APPLIED SCIENCES

NO	STUDENT	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Bhola Virthie Kemraj	Design and Operation of a Laboratory Scale Photobioreactor for the Cultivation of Microalgae	Biotechnology	Prof F Bux	2011
2	Degenaar Adrian Phillip	Microbial Community Analysis of a Laboratory-Scale Biological Process for the Treatment of Vegetable Oil Effluent	Biotechnology	Prof F Bux	2011
3	Govender Sharon	Mutation of Eremothecium gossypii and statistical media optimization to increase riboflavin production	Biotechnology	Dr FM Swalaha	2011
4	Grobbelaar Hendrina Helena	Development of Nutrition Education Material for Caregivers of Immune Compromised Children in Children's Home in the Durban Area	Consumer Sciences: Food & Technology	Prof C Napier	2011
5	Gwala Nobuhle Virgina	Activity coefficients at infinite dilution for ils: methyltrioctylammonium cation and bis (trifluoromethylsulfonyl) imide or thiosalicylate anions using glc	Chemistry	Prof N Deenadayalu	2010
6	Ive Elaine Catherine	An in-vitro assessment of the effects of Arsenicum album (30CH and 200CH) onleukocytes previously antagonized arsenic trioxide	Biotechnology	Dr L Reddy	2010
7	Khan Nazihah	Bioproduction of Riboflavin by Fungi using Spent Industrial Oils	Biotechnology	Dr FM Swalaha	2011
8	Madikizela Lawrence	Optimisation of hplc-based methods for the separation and detection of herbicide glyphosate and its major metabolite in water	Chemistry	Prof KG Moodley	2010
9	Maduray Kaminee	In-vitro PhotodynamicTherapy on Melanoma Cells with Phthalocyanine	Biotechnology	Prof B Odhav	2010
10	Mkhize Nkumbulo Xolile F	Situational analysis of free-living elderly in Umlazi	Food & Nutrition	Prof WH Oldewage-Theron	2011

NO	STUDENT	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
11	Naidoo Kameshnee	Enhanced Production of Inulinase from Xanthomonas campestris pv. Phaseoli	Biotechnology	Prof S Singh	2010
12	Ngcobo Thandekile S	Microwave synthesis and molecular re-arrangement of a Grisadienone and its derivatives	Chemistry	Dr RM Gengan	2011
13	Ram Elaine Cecelia	B-Galactosidase Production by Kluyveromyces lactis in Batch and Continuous Culture	Biotechnology	Prof S Singh	2011
14	Ramrung Arthi	Detection methods of organic acid in steam/water circuits and optimisation using hplc-uv	Chemistry	Prof KG Moodley	2010
15	Rawat Ismail	Sreening for Indigenous Algae and Optimisation of Algal Lipid Yields for Biodiesel Production	Biotechnology	Prof F Bux	2011
16	White Sarah Anne	The use of PAM flurometry to assess microalgal physiological stress for the production of biosiesel	Biotechnology	Prof F Bux	2011

FACULTY OF ARTS AND DESIGN

NO	STUDENT/S	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Alkema Joan Henriette	Craft practiced by Afrikaner women during and after the Anglo Boer War of 1899-1902 and the appropriation of similar craft in the work of selected comporary South African women artists	Fine Art	Mr JW Roome	2010
2	Dullay Simmi	Exploring exile as personal and social transformation through critical reflection and creative and artistic expression	Fine Art	Prof JL Conolly	2010
3	Hoyer Joanne	The use of collage as a feminist strategy in the representation of the female body in the work of selected artists	Fine Art	Mr AR Starkey	2010
4	Nolan Caryn Leigh	The appropriation of needlework techniques in the work of selected fin artists	Fine Art	Mr AR Starkey	2011
5	Nsanja Yusuf	Illustration as Activism:The role of traditional Ugandan visual materials in community health care in Kampala and Wakiso Districts	Graphic Design	Prof CL Wells	2010
6	Penn Cheryl Barbara	The use of the Artist's book as a versatile form of expression in the work of selected artists, with special reference to the altered book	Fine Art	Mr AR Starkey	2010
7	Sadie Vaughn Vic	The subversive use of artificial light and physical space as media in the work of selected artists	Fine Art	Mr AR Starkey	2010
8	Sitas Friderike Tanya	Participation and global collaborative initiatives in public spaces in Durban: Engaging CASCOLAND (2008) as a site of study	Fine Art	Mr AR Starkey	2010
9	Wise Robin Ivan	The perceptions of selected stakeholders on the integration of chiropractic into the KwaZulu-Natal healthcare system	Language Practice	Dr D Pratt	2010

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

NO	STUDENT/S	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Govender Devantheran V	The purification of corn steep liquor as a fermentation feedstock by ultrafiltration	Chemical Engineering	Prof L Pillay	2011
2	Hay Graeme Kenneth	A hybrid simulation technique to predict the effects of human deterioration and learning in an industrial environment	Industrial Engineering	Prof KJ Duffy	2010
3	Moorgas Kevin Emanuel	Object motion detection, extraction and filtering using Ann Ensembles	Electronic Engineering	Dr P Govender	2010
4	Munsamy Megashnee	Use of evaporative cooling for close circuiting of the electroplating process	Chemical Engineering	DrV Ndinisa	2011
5	Ngema Peterson Thokozani	Separation process for high purity ethanol production	Chemical Engineering	Prof L Pillay	2011
6	Nhassengo Sikhulile Khululeka	Use of Piezoelectric Techniques monitoring continuum Damage of Structures	Mechanical Engineering	Prof P Tabakov	2011

FACULTY OF HEALTH SCIENCES

NO	STUDENT/S	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Allsopp Clare	A comparative study of Hahnemannian and Radionically prepared potencies of Natrum muriaticum using Nuclear Magnetic Resonance Spectroscopy	Homeopathy	Dr DF Naude	2010
2	Catlin Jo-Ann Carrie	A profile of horse riding injuries in adult horse riders registered with the Kwa-Zulu Natal Horse Society	Chiropractic	Dr G Haswell	2010
3	Couchman Kate	A survey of the opinions and interventions of registered South African homoeopaths, regarding childhood vaccinations	Homoeopathy	Dr CM Korporaal	2011
4	De Gouveia Natalie	The knowledge, perception and utilization of vitamin and mineral supplements, natural medicine and pharmacological agents as adjuncts to Chiropractic practice in South Africa	Chiropractic	Dr L Wilson	2010
5	Deutschmann Kyle Colin	The immediate effect of sham laser and three different spinal manipulative protocols on kicking speed in soccer players	Chiropractic	Dr A Jones	2011
6	Duani Victor	An Investigation into the role of forward head position as an associated factor in the presentation of episodic tension-type and cervicogenic haedaches	Chiropractic	Dr N de Busser	2011
7	Farrimond Claire	The inter-examiner reliability and comparison of motion palpation findings of the knee joint in patellofemoral pain syndrome and asymptomatic knee joints	Chiropractic	Dr H Kretzmann	2011
8	Gajeerajee Shethal	Radiographic and clinical analyses of scoliosis of adult subjects in the greater Durban area	Chiropractic	Dr J Shaik	2010
9	Govender Pregalathan	The development of a framework to retain migrating South African undergraduate Advanced Life Support paramedics	Emergency Medical Care	Dr LD Grainger	2011
10	Govender Seenivasen	Emergency transport of obstetric patients within the Ugu Health District	Emergency Medical Care	Mr.Y Pillay	2011
11	Hansa Fatima	The efficacy of a complementary formulation of Folliculinum D6 and Five-Flower Formula™, in the treatment of menopausal symptoms	Homoeopathy	Dr IMS Couchman	2011

NO	STUDENT/S	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
12	Hansjee Sharad Ramesh	A homoeopathic drug proving of the venom of the Eastern Green Mamba (Dendroaspis angusticeps) analysing the symptomatology in relation to the doctrine of signatures and toxicological data	Homoeopathy	Dr M Maharaj	2011
13	Harkhu Nershada Ann	A group analysis evaluation of existing Avian (bird) homoeopathic remedies in terms of known material medica	Homoeopathy	Dr M Maharaj	2011
14	Harper Shaun Michael	The effectiveness of an ice pack, a menthol based cooling gel, a menthol based cooling gel with extracts and a placebo gel in the treatment of acute ankle sprain	Chiropractic	Dr L Wilson	2011
15	Harripershad Sheromani	A survey to determine the perceptions of parents in the central Durban area towards paediatric homoeopathy	Homeopathy	Dr CM Hall	2010
16	Henry Justin Michael	The relative effectiveness of non-steroidal anti-inflammatory drugs (ibupro-fen®) and a taping method (kinesio Taping® Method) in the treatment of Episodic Tension – Type Headaches	Chiropractic	Dr CM Korporaal	2010
17	Hicklin John Renshaw	The effectiveness of Leander trction versus Static linear traction on chronic facet syndrome patients – a randomised clinical trial	Chiropractic	Dr Kretzmann	2010
18	Hohls Quinton Rolf	An investigation into performance related musculoskeletal disorders of professional orchestral string musicians in South Africa	Chiropractic	Dr L Wilson	2010
19	Hoosen Asima Goolam	A homoeopathic drug proving of Acridotheres tristis	Homoeopathy	Dr AHA Ross	2010
20	Keyter Karen	The perceptions of South African Chiropractors, regarding their professional identity	Chiropractic	Dr L Wilson	2010
21	Kidd Dominique Michelle	A study of the factors involved in establishing a successful homoeopathic practice in South Africa	Homoeopathy	Dr I Botha	2011
22	Lamula Sboniso Bethwel	The perception of homoeopathy amongst African adults resident in Mnambithi Municipality (Kwa-Zulu Natal, South Africa)	Homeopathy	Dr R Steel	2010
23	Legoete Kgosietsile Saddler	The relative effectiveness of cervical spine manipulation and a Nonsteroidal Anti-inflammatory drug (lbuprofen®) in the treatment of Episodic Tension-Type Headaches	Chiropractic	Dr CM Korporaal	2010
24	Lockhat Irfana	A comparison of the results of a triple-blind Homoeopathic drug proving of Strychnos henningsii 30CH, with toxicology of the crude substance	Homoeopathy	Dr AHA Ross	2010
25	Long Bryan Henry	A study of the relationship between the natural history of the Solanace- aespecies and the general and mental symptomatology of the Solanaceae remedies utilised in homoeopathy	Homoeopathy	Dr I Botha	2011
26	Lubbe Danella	The effectiveness of combined manipulation and rehabilitation versus rehabilitation only, in the management of chronic ankle instability	Chiropractic	Dr E Lakhani	2011
27	Maharaj Poonam	A comparison between the traditional use of Strychnos henningsii and the homoeopathic indications of Strychnos henningsii 30CH	Homoeopathy	Dr AHA Ross	2010
28	Maharajh Sarvesh Rishipaul	The knowledge and perceptions of second and third year medical students at the Nelson Mandela School of Medicine towards Chiropractic	Chiropractic	Dr G Matkovich	2010
29	Manley Charlene Anne	The inter-examiner reliability of motion palpation in chronic lateral epicon- dylagia and asymptomatic albows	Chiropractic	Dr H Kretzmann	2010
30	Marais Carla Anne	Chiropractors inter- an intra-examiner reliability of cervical spine radio- graphic analysis and its impact on clinical management	Chiropractic	Dr CM Korporaal	2011
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NO			DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
31	Marques Rocardo David	Relative effectiveness of three treatment protocols with and without brace aided pelvic stabilization in patients with chronic low back pain	Chiropractic	DrV Boodhoo	2011
32	MC Phail	The role of lumbar spine x-rays in the diagnosis and management of patients who present with low back pain	Chiropractic	Dr J Shaik	2011
33	Memela Mduduzi Emmanuel	A prospective comparative study of continuous and intermittent endotrached tube cuff pressure measurement in an adult intensive care unit	Clinical Technology	Prof JK Adam	2011
34	Moodley Kubashnie	An investigation into the effect of examiner-training on the inter-examiner reliability of the palpation of myofascial			2011
35	Motala Farzana	The prevalence and risk factors of injuries in amateur outdoor and indoor volleyball players in a KwaZulu-Natal North Coast region	Chiropractic	Dr G Matkovich	2010
36	Muchna Julie Miroslava	An epidemiological investigation into the risk factors associated with neck pain in the Indian population in the greater Durban area	Chiropractic	Dr PZ Ndlovu	2011
37	Mukena Martha Mutinta	Perceptions of Zambian dentists and dental technicians in respect of dental technical services	Dental Technology	Mr GH Bass	2010
38	Murgatroyd Taryn Lyn	A retrospective cohort analysis of the injury profilr of internationally competitive surfers	Chiropractic	Dr CM Korporaal	2010
39	Naidoo Krinesh			Prof JK Adam	2011
40	Naidoo Melanie	A comparison of the results of a triple blind proving of Strychnos henningii 30CH with the materia medica of existing remedies showing repertorial similarity	OCH with the materia medica of existing remedies showing repertorial		2010
41	Naidoo Nivashni	The predictive value of pro brain natriuretic peptide (ProBNP) level to determine the presence and severity of coronary artery disease in patients with a positive or inconclusive exercise stress test	Clinical Technology	Prof JK Adam	2011
42	Pantalone Giovanni	The effect of Phosphoricum acidum 200CH on the adverse physiological effects induced by exercise in cyclists	Homoeopathy	Dr I Botha	2011
43	Pastellides Angela Niky	The effect of cervical and thoracic spinal manipulations on blood pressure in normotensive males	Chiropractic	Dr A Docrat	2010
44	Pillay Karasee	A double-blind homoeopathic drug proving of Curcuma longa 30CH, analysing symptomatology in relation to the doctrine of signatures	Homoeopathy	Dr DF Naude	2011
45	Prangley Johan	The primary headaches in Allied Health students at the Durban University of Technology (DUT)	Chiropractic	Mr JD Pillay	2010
46	Rajagopaul Althea	A study to determine the predictors of Tuberculosis defaulting and the evaluation of DOTS Programme within the eThekwini Municipality	Environmental Health	Ms EJ Kistnasamy	2011
47	Rajkoomar Suhana	A double-blind homoeopathic drug proving of Curcuma longa 30CH with the subsequent comparison to the Ayurvedic and Phytotherapeutic indica- tions thereof	Homoeopathy	Homoeopathy Dr DF Naude	
48	Ralekwa Melvin Ikobeng	The perception, knowledge and utilization of the chiropractic profession by Durban University of Technology students	sion by Chiropractic Dr CM Korporaal		2011
49			Chiropractic	Dr G Talmage	2010

NO	STUDENT/S	DISSERTATION	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
50	Riggien Catherine Joy The effectiveness of a homoeopathic complex (Caladium seguinum 30 CH, Nux vomica 30CH and Staphysagria delphinium 30CH) compared to a tautopathic preparation of the cigarette smoked in the management of nicotine withdrawal syndrome		Homoeopathy	Dr DF Naude	2011
51	Roodt Maria Louisa Elizabeth	A comparative study of three different types of manual therapy techniques in the management of chronic mechanical neck pain	Chiropractic	Dr L Wilson	2010
52	Roopnarian Ashveer	Ethnic variation of selected cervical spine radiographic parameters of males in KwaZulu-Natal	Chiropractic	Dr J Shaik	2011
53	Skea Denise Angela	Perceptions of the professionalization of Dental Technology	Dental Technology	Mr GH Bass	2010
54	Slabbert Warren Neville	An epidemiological investigation of neck pain in the White population in the greater Durban area	Chiropractic	DrV Boodhoo	2010
55	Smillie Tracey Michelle	A clinical audit of the Durban University of Technology Homoeopathy satelite clinic established at Ukuba Nesibindi	Homoeopathy	Dr DF Naude	2010
56	Sokhela Dudu Gloria	Assessment of the experience of users of the fast queue in selected Primary Health Care facilities, in the Ethekwini municipality	Nursing	Ms JN Makhanya	2011
57	Tathal Verusha Jayraj	The role of psychosocial risk factors on the prevalence of low back pain amongst grade 12 learners in public schools in the graeter Durban area	Chiropractic	Dr L Van Niekerk	2010
58	Taverner Charles Bryce	The perception of the veterinarians towards chiropractic and the chiropractic treatment of animals in South Africa	Chiropractic	Dr G Matkovich	2011
59	Trollope Leslie John Watts	The relative effectiveness of cervical spine manipulation alone, dry needling alone and cervical spine manipulation combined with dry needling for the treatment of episodic tension-type headaches	Chiropractic	DrV Boodhoo	2011
60	Tuck Andrew Murray	An investigation into the risk factors and management of rugby injuries in the greater Durban Area	Chiropractic	Dr G Haswell	2010
61	Turnbull Grant Scott Dalzel	The effectiveness of three treatment protocols in the treatment of iliotibial band friction syndrome	Chiropractic	Dr B Kruger	2010
62	Tychsen Rory Arthur Ludwig	A profile of injuries and contributing factors in Premier League Cricket players in the greater Durban area	Chiropractic	Dr G Haswell	2010
63	Weston Marion	A group analysis evaluation of the Class Arachnida in terms of known materia medica	Homoeopathy	Dr AHA Ross	2010
64	Williams Lisa Jane	The inter-examiner reliability of motion palpation to detect joint dysfunction in the hind-foot and mid-foot joints	Chiropractic	Dr Kretzmann	2010

FACULTY OF MANAGEMENT SCIENCES

NO STUDENT/S		STUDENT/S DISSERTATION		SUPERVISOR	YEAR
I	Achary Sarasvathie	The effectiveness of computer-aided teaching on the quality of learning data handling in Mathematics in grade seven	Quality	Prof R Naidoo	2011
2	De Kock Yachal	A communicative perspective on change management	Public Relations Management	DrVP Rawjee	2010
3	Dettmann Christoph-Emanuel	The consumer behaviour in the football footwear industry	Quality	Dr S Singh	2011
4	Devnarrian Pravesh	Service quality at Varsity Colleges in Durban: Students' perceptions	Marketing	Prof S Penceliah	2011
5	Govender Nereshnee	The influence of the print media in portraying woman in sport	Public Relations Management	DrVP Rawjee	2010
6	Gqamane Zukiswa	The role of Public Relations: A case of selected corporate organisations within the greater Durban area	Public Relations Management	DrVP Rawjee	2011
7	Hawkins Raymond Hillary	The Marketing implication of Hip-Hop culture in the greater Durban area	Marketing & PR	Dr HL Garbharran	2010
8	Hlongwane Nkululeko Terrence	Evaluating in the Integrated Development Plan (IDP) as a performance management system for a selected KZN municipality	Business Administration	Dr Bl Dlamini	2011
9	Hussain Sameera Banu	Crisis communication planning and management at Higher Education Institutions in KwaZulu-Natal	Public Relations Management	Dr VP Rawjee	2010
10	Juggernath Swastika	Black economic empowerment and communication challenges: An Employers perspective within KwaZulu-Natal	Marketing & PR	Dr R Rampersad	2010
11	Kain Cheryl-Anne	The effect that a Quality Management System has on SMME's in the Durban Metropolitan area of KwaZulu-Natal	Quality	Prof S Penceliah	2011
12	Mabaso Simiso Lindokuhle	Economic impact of tourism on Bergville communities	Hospitality and Tourism	Dr K Parker	2011
13	Moodaliyar Rajendran	The effectiveness of the ISO 9001:2000 quality management standard on performance and customer satisfaction at a selected organisation	Human Resources Management	Prof DC Jinabhai	2010
14	Msani Thulani Armstrong	Critical success factors influencing project success in the Durban Construction Industry	Business Administration	Dr HL Garbharran	2011
15	Noel Dion Trevor	International students' expectations and perceptions of customer service at the Durban University of Technology	Marketing	Dr JP Govender	2011
16	Nundulall Reetha	Mentorship as a means to improve research output at a merged tertiary institution	Public Management	Prof K Reddy	2010
17	Pillay Magalingam Atheesesheyah	Student's expectations and perceptions of the sport offering at the Durban University of Technology	Marketing	Ms D Veerasamy	2011
18	Rathailall Raveen	Improving quality and productivity at a Automotive Manufacturing Organisation in Durban	Quality	Dr S Singh	2011
19	Redmond Portia Helen	The influence of marketing communication on students' decision to enrol at DU	Marketing	Prof RB Mason	2011
20	Sookraj Premlall	Employee perceptions of the impact of training and development on product quality	Quality Management	Prof K Reddy	2010
21	Yin Yue	Customer service quality at Great Wall Motor (GWM) Service Centres in the great Durban area	Marketing, Retail & PR	Prof S Penceliah	2010

DOCTORAL GRADUATES 2010 AND 2011

FACULTY OF APPLIED SCIENCES

NO	STUDENT	THESIS	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Bahadur Indra	Excess Molar Volume and Isentropic Compressibility for Binary or Ternary Ionic Liquid Systems	Chemistry	Prof N Deenadayalu	2010
2	Edward Vinodh Aroon	Development of a Starter Culture for the Production of Gari, a Traditional African Fermented Food	3,		2010
3	Kuttan Pillai Santhosh K	Investigations of the bioprocess parameters for the production of hemicellulases by thermomyces lanuginosus strains			2010
4	Mohanlall Viresh	Screening, In-vitro Propagatopn and Bioaugmentation of Ceratotheca triloba for the Production of Secondary Metabolites	Biotechnology	Prof B Odhav	2010
5	Mokoena Mduduzi Paulos	Computational Studies of the Folding Patterns of Small and Medium- size Polypetides	Chemistry	Prof K Bisetty	2010
6	Sharma Parul	An assessment of the conformational profile of Bombesin and its mammalian analogues using computational chemistry method	Chemistry	Prof K Bisetty	2011
7	Swalaha Feroz Mahomed	Optimization of Riboflavin Production by Fungi on Edible Oil Effluent	Biotechnology	Prof B Odhav	2010

FACULTY OF ARTS AND DESIGN

NO	STUDENT	THESIS	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
I	Desmond Alethea Wendy	A Journey in Family Literacy: Investigation into influences on the development of an approach to Family Literacy	Centre for Learning & Teaching	Prof JL Conolly	2010
2	Sheridan Richard David	The language of digital learning: development and e-learning approach for the elderly	Language Practice	Dr D Pratt	2010
3	Govender Rookumani	A critical realist approach to literacy acquisition and development, with specific application to teacher training and support in primary education in KwaZulu-Natal	Language Practice	Prof DD Pratt	2011

FACULTY OF HEALTH SCIENCES

NO			DEPARTMENT/ PROGRAMME	STUDENT	YEAR
I	Botha Izel	Towards an Integrated Methodology: C4,Sherr and Dream Provings of Protea cynaroides	Homeopathy	Prof R Soory- amoorthy	2011
2	Harilall Yakeen	The effect of optimizing cerebral tissue oxygen saturation on markers of neurological injury during coronary artery bypass graft surgery	Clinical Technology	Prof JK Adam	2011
3	Ross Ashley Holton Adrian	An appraisal of homoeopathic proving methodology as a bridge between the indigenous and rationalist-scientific understandings of medicinal plant: the case of Strychos henningsii	Homoeopathy	Prof JL Conolly	2011

FACULTY OF MANAGEMENT SCIENCES

NO	STUDENT	THESIS	DEPARTMENT/ PROGRAMME	SUPERVISOR	YEAR
1	Chetty Gopalkrishna	The transformations of South African Higher Education sector through merger: a case study of Durban University of Technology	Management Science	Prof M Wallis	2011
2	Lekhanya Mpele Lawrence	The use of marketingstrategies by small, medium and micro enterprises Marketing Prof RB Mason in rural KwaZulu Natal area.		2011	
3	Moonsamy Gonasagren Vimlan	Quality stewardship — a 21st century quality framework for selected manufacturing organisations in South Africa.	, , , ,		2011
4	Ngcamu Sibongiseni Bethuel			Prof MAH Wallis	2011
5	Perumal Richard Isaiah	The development of Universities of Technology in the Higher education landscape in South Frica.	Management Science	Prof M Wallis	2011
6	Pillay Sagren	Employee retention: A multiple case study of South African National Departments	Business Administration	Dr M De Beer	2011
7	Pillay Thirumurthie S	Student enrolment planning in Public Higher education: A South African case study	Management Science	Prof M Wallis	2011
8	Vumase Sipho Bongane	The evaluation of the processe of operational and administrative procedure of health care waste management in Public Hospitals of South Africa	Entrepreneurial Studies & M	D M de Beer	2011

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INTERNAL RESEARCH GRANTS

2010 AND 2011

FACULTY OF ACCOUNTING AND INFORMATICS

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
1	Prof SE Obono	Department of	R5 000	Ad-hoc funding to foRattendance at seminar	2010
		Information Technology			
2	Ms D Heukelman	Information Technology	R15 000	Ad-hoc Funding foRIT Awards	2010
3	Ms J Anniroot	Department of	RIO 000	Seed Funding foRMasters Studies	2011
		Information Technology			

FACULTY OF APPLIED SCIENCES

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
I	Prof G G Redhi	Department of Chemistry	R80 000	Research Capacity Building Grant awarded foRcapacity building initiatives within the department	2010
2	Prof J McKenzie	Department of	RI5 I32	PeRDiem Allowance	2010
		Mathematics, Statistics and Physics	R3 761	Research visit to University of Cape Town (UCT) and l'Temba Labs	2010
3	Ms CT Duba	Department of Mathematics, Statistics and Physics	R2 050	Ad-hoc funding awarded foRattendance at South African Gravitational Society workshop	2010
4	Prof R Naidoo	Centre foRAdvanced ComputeRModelling and Manufacturing	R40 000	Research Capacity Building	2011
5	Prof J McKenzie	Department of Mathematics, Statistics and Physics	R25 157	Visiting Professor Grant, Advanced from subsidy accrued from journal article published in an DHET accredited journal and Research Symposium – Community Nutrition Symposium	2011

FACULTY OF ARTS AND DESIGN

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
I	Prof G Stewart	Faculty of Arts and Design	R32 220	For ESAACH project to for part-time research assistant, For Faculty of Arts and Design Forum and page fees.	2010
2	MrT Starkey	Department of Fine Art and Jewelry Design	R29 230	Ad-hoc support to for funding for a review exhibition in collaboration with Curtain University and Study Visit to Curtin University for Collaborative Exhibition and Evaluation Visit.	2010
3	DrY Rugbeer	Department of Media, Language and Communication	R20 000	Research Capacity Building and Seed Funding for Conference Attendance.	2011
4	Mr R Gatfield	Department of Visual Communication Design	R6 118	Advanced from subsidy accrued from journal article published in an DHET accredited journal.	2011
5	Ms V Z Shilenge	School of Education	R10 000	Seed Funding for Phd Studies.	2011

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
I	DrV Ndinisa	Department of Chemical Engineering	R54 800	Visiting Professor Grant for Visiting Professor, Professor J. Faullimmel.	2010
2	Dr J Adeyemo	Department of Civil Engineering & Surveying	R39 500	Page Fees and Research Capacity Building.	2010

FACULTY OF HEALTH SCIENCES

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
1	Mr S Naguran	Department of Emergency Medical Care and Rescue	R2 I 250	Visiting Honorary Research Fellow.	2011
2	Mr P J Bosman	Department of Chiropractic and Somatology	R3 500	Additional funding for local travel.	2011
3	Ms T Pillay	Department of Dental Sciences	R3 250	Attendance at workshop: Dental Technicians Association of South Africa (DENTASA) Summit and AGM 2011.	2011

FACULTY OF MANAGEMENT SCIENCES

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
I	Dr N Dorasamy	Department of Governance and Economics	R19 500	Ad-hoc incentive for Collaborative Research: An exploratory study on whistle blowing through cultural lenses and For page fees for research article "The impact of the global crisis on ethical leadership: A case study of the South African Public Sector. Journal of Business Management.	2010
2	Mr J Davies	Department of Public Management and Economics	RI5 000	Seed Funding awarded for conference attendance at an International conference.	2010
3	Dr S Singh	Department of Operations and Quality	R4 500 (\$550)	For page fees for research article in African Journal of Business Management.	2010
4	Mr KM Naidoo	Department of Hospitality & Tourism	R12 000	For page fees for research article in African Journal of Business Management.	2010

CENTRE FOR LEARNING AND TEACHING (CELT)

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
1	Prof J L Conolly	Centre for Excellence in	R20 000	For Seminar in Self Study for transformative higher	2010
		Learning and Teaching		education and social action to and Self-study for Trans-	
				formative Higher Education and Social Action project	
				(SeStuTHESA) in CELT at DUT.	

TECHNOLOGY, INNOVATIONS AND PARTNERSHIPS

NO	NAME	DEPARTMENT	AMOUNT AWARDED	PURPOSE OF FUNDING	YEAR
1	Professor F Otieno	DVC:TIP	R2 150	Page Fees	2010

CONFERENCE FUNDING 2010/2011

FACULTY OF ACCOUNTING AND INFORMATICS

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Mr G Meyers	Auditing and Taxation	European Conference on Research Methodology, Spain, 24-25/6/2010.	R22 100	March 2010
2	Dr M de Beer	Entrepreneurial Studies and Management	12th Annual International Conference on Education, Greece, 24-27 May 2010.	R25 000	March 2010
3	MrTP Govender	Information Technology	Fourth Annual University Teaching and Learning Conference, UKZN, PMB, 20-22/9/10	R2 022	August 2010
4	Mrs P Khalili	Information Technology	International Association foRDevelopment of the Information Society, Spain, 9-13/3/2011	R29 853	January 2011
5	Prof SD Eyono Obono	Information Technology	International Conference on ICT foRAfrica 2011, Nigeria, 23-26/3/2011	RI0 900	January 2011
6	Ms PPT Rakoma	Information and Corporate Management	World Association on Cooperative Education, USA, 14-17/6/2011	R27 297.70	January 2011
7	Mr D Govender	Management Accounting	International Journal of Arts and Science conference, Czech Republic, 21-24/6/2011.	R27 378	May 2011
8	Mr P Tamba Tamba	Information Technology	International Conference on Information Society (i-Society 2011), London, UK (27-29/06 2011)	RI3 050	July 2011

FACULTY OF APPLIED SCIENCES

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Mr D Turkovic	Maritime Studies	Global Supply Management Compliance, Durban, 26/3/2010.	RI 500	March 2010
2	Capt CH Johnsen	Maritime Studies	Global Supply Management Compliance, Durban, 26/3/2010.	R3 591	March 2010
3	Prof KG Moodley	Chemistry	Singapore International WateRWeek, Singapore, 28/6-2/7/10	R8 400	April 2010
4	MsT Gordon	Town and Regional Planning	Planning Africa 2010, ICC, 13-15/09/10	R3 500	June 2010
5	Ms BRPitout	Town and Regional Planning	Planning Africa 2010, ICC, 13-15/09/10	R3 880	June 2010
6	Ms RJ Hansmann	Town and Regional Planning	Planning Africa 2010, ICC, 13-15/09/10	R3 500	June 2010
7	Mr J Kitching	Town and Regional Planning	Planning Africa 2010, ICC, 13-15/09/10	R3 500	June 2010
8	Ms G Lincoln	Town and Regional Planning	Planning Africa 2010, ICC, 13-15/09/10	R3 500	June 2010
9	Ms V Paul	Chemistry	Alabama Composite Conference, University of Alabama, 23-26/8/20	R30 000	August 2010

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
10	Dr CE Napier	Food & Nutrition	4th African Nutritional Epidemiology Conference, Kenya, 4-8/10/10	R20 873	August 2010
П	Dr MP Mokoena	Biotechnology	Protein and Peptide Conference, China, 23-25/3/11	R24 175.20	August 2010
12	Mr AE Hansen	Town and Regional Planning	Planning Africa 2010, ICC Durban, 13-15 /9/10	R4 800	SeptembeR2010
13	MsY Kaplan	Clothing and Textile Studies	HELTASA Conference, University of Limpopo, 23-25/11/2010.	R8 953	SeptembeR2010
14	Prof R Naidoo	Mathematics, Physics and Statistics	The Third IASTED Africa Conference on Modelling and Simulation, 6-8/9/10.	RIO 000	OctobeR2010
15	Mr AN Sheolal	Clothing and Textile Studies	The 39th textile Research Symposium, 16-20/10/10	RI5 292	OctobeR2010
16	Dr A Naicker	Food and ConsumeR- Sciences	7th Asia pacific conference on clinical nutrition, Bangkok, 5-9/6/2011.	R22 840.70	May 2011
17	Prof K Bisetty	Chemistry	1st international congress on advanced materials 2011, China, 13-16/5/2011.	RI4 646.50	May 2011
18	Prof N Deenadayalu	Chemistry	4th conference on ionic liquids (COLI 2011), USA, 15-18/6/2011.	RI2 352	May 2011
19	Mr M Sabela (student)	Chemistry	ASSAF-DST-NRF Second Annual South African Young Scientists' Conference, 26 -28/9/11	R5 823.40	July 2011
20	Dr P Singh	Chemistry	International Conference on Current Trends in Computational Chemistry, Jackson State University, USA (27 -29/10/11	RI5 000	July 2011
21	Dr OA ljabadeniyi	Biotechnology and Food Technology	International Association foRFood Protection Annual Conference, Milwaukee, USA (31 July – 3 August 2011)	RI5 000	July 2011

FACULTY OF ARTS AND DESIGN

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Ms L Makhubu	Media, Lanaguage and Translation	Critical Link 6: Interpreting in a changing landscape, Birmingham, UK, 26-30/7/2010.	R30 000	March 2010
2	Mr C De Beer	Fine Arts and Jewellery Design	Beadwork in KwaZulu-Natal, UKZN, PMB, 2-3/12/09	R615	April 2010
3	Mr M Peppas	Media, language & com- munication	World Journalism Education Congress, Grahamstown, 5-7/7/10	R8 000	April 2010
4	Ms EB Zungu	Media, Language and Com- munication	HOMO NIMINANA: Mankind, the namer, Cape Town 25-29/10/10	RIO 000	SeptembeR2010
5	Ms L Scott	Fashion and Textile	HELTASA Conference, University of Limpopo, 23-25/11/2010.	R9 172	SeptembeR2010
6	Ms RGovender (Student)	Media language and Com- munication	2011 Illinois Reading Council Conference, Illinois, 17-19/3/2011	R25 000	January 2011
7	Ms BA Mall	Media language and Com- munication	2nd International SEARCH Conference 2011, Malaysia, 28-29/5/2011	R9 566	January 2011

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUN	IT APPROVED YEAR
8	Dr SP Zulu	Media language and Com- munication	International Association for Development of the Information Society, Spain, 10-13/3/2011	R30 000	January 2011
9	Ms L Govender (student)	Communication and Media	7th International conference on education (7th ICE) 2011, Greece, 7-9/7/2011	R30 000	May 2011
10	Ms MLE de Jager (student)	Communication and Media	PATT 25 and CRIPT 8, London, 1-5/7/2011	R25 480	May 2011
П	Prof C L Wells	Visual Communication Design	Community based Arts in Health (Centre for medical health), Durham University, UK, 22/6-1/7/2011.	R7 560	May 2011
12	Prof DA Lutge	Drama and Production Studies	Performing Arts between tradition and contempora- neity, Austria, 25-29/8/2011	R23 900	May 2011
13	Prof GDF Stewart	Arts and Design	English academy international golden jubilee conference 2011, CT, 27-30/9/2011	RI 000	May 2011
14	Ms RL Makhubu	Media Language and Communication	2011 IMIA International Conference on Medical Interpreting, Harvard Medical School, Boston USA, 30/8/11-2/10/11	RI3 787.74	July 2011
15	Ms D Njozela	School of Education	DETA 2011 Eduaro Mondlane University, Maputo Mozambique 02-05/8/11	RIO 000	July 2011
16	Mr LG O'Connor	Drama Studies	Tradition, Innovation Community IFTRAnnual Conference, Osaka, Japan (7-12 August 2011)	R26 426	July 2011
17	Mrs OB Swift	Media Language and Communication	World Association of Sign Language Interpreters (WASLI) Conference 2011, Elangeni Hotel, Durban (14-17 July 2011)	R2 500	July 2011
18	Ms RL Makhubu	Media Language and Com- munication	World Association of Sign Language Interpreters (WASLI) Conference 2011, Elangeni Hotel, Durban (14-17 July 2011).	R2 500	July 2011

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Dr NV Ndinisa	Chemical Engineering	WISA 2010 Conference, Durban, 18-22/4/2010	R5 995	March 2010
2	Mr S Rathilal	Chemical Engineering	CHISA 2010 and ECCE 7 (Joint Conference), Prague, 28/8-1/9/10	R30 000	April 2010
3	Mr KE Moorgas	Electronic Engineering	World Congress on Engineering 2010, London, 30/6-2/7/10	R30 000	April 2010
4	Prof K Kanny	Mechanical Engineering	Alabama Composite ConferenceUniversity of Alabama, 23-26/8/20	R30 000	August 2010
5	Dr HW Bernhardt	EBE	HELTASA Conference, Uni of limpopo, 23-25/11/10	R8 909	September 2010
6	Mr K Loji	Electrical Power Engineering	HELTASA Conference, University of Limpopo, 23-25/11/2010	R9 272	September 2010
7	Dr JA Adeyemo	Civil Engineering	Humboldt-Kolleg, Ogbomoso 201, Dubrovnik, Croatia, 25	RI5 000	July 2011
8	Mr BR Graham	Mechanical Engineering	SEESA, Stellenbosch University, 10-12/8/11	R7 600	July 2011
9	Mr S Ramsuroop	Chemical Engineering	SEESA Biennial Conference on Engineering Education Stellenbosch University, 10-12/8/11	R8 500	July 2011
10	Mr K Loji	Electrical Power Engineering	1st Biennial Conference Society of Engineering Education of SA, Stellenbosch, 10-12/8/11	R5 000	July 2011

FACULTY OF HEALTH SCIENCES

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
1	Prof JK Adam	Biomedical and Clinical Technology	2nd International Conference on Drug Discovery and Therapy, Dubai, 1-4/2/2010	RI2 500	March 2010
2	Dr DF Naude	Homoeopathy	International League of Homeopathic Physicians, Calafonia, 17-22/5/10	R30 000	April 2010
3	Dr R Bhagwan	Community Health Studies	Fifth North American Conference on Spirituality and Social Work, Canada, 17-19/6/10	R30 000	April 2010
4	Mr JD Pillay	Basic Medical Sciences	International Society of behavioral Nutrition and Physical Activity. 9th Annual Conference, USA, 9-2/06/10	R30 000	May 2010
5	Dr MN Sibiya	Community Health Studies	All togetheRnow: Exploring the many faces and facets of integrated care, Finland, 16-18/06/10	R29 600	May 2010
6	Dr MN Sibiya	Community health Nursing	A new dawn towards excellence in Nursing Scholarship, Cape Town, 11-13/10/10	RI0 000	August 2010
7	Dr J Shaik	Chiropractic	Chiropractic Association of SA Congress 2010, Gauteng, 22-25/9/10	R9 640	August 2010
8	Mr R Naidoo	EMC&R	8th Middle East Emergency Services Conference, United Arab Emirates, 17-19/10/10	RI9 448	August 2010
9	Mrs JF Ducray	Basic Medical Sciences	48th Annual Conference of the Microscopy Society of Southern Africa, Warmbaths, Bel-Bela, 26-29/10/2010	RIO 000	September 2010
10	Mr PR Gumede	Community Health Nursing	The 9th International Conference on Urban Health, New York, 27-29/10/10	R30 000	September 2010
П	Prof JK Adam	Biomedical & Clinical Technology	8th Congress of International Drug Discovery Sciences and technology, China, 23-28/10/10	R30 000	September 2010
12	Mrs P Pillay	Biomedical & Clinical Technology	American Society of Tropical Medicine and Hygiene 59th Annual Meeting, Atlanta Marquis Hotel, US, 3-7/11/10	R25 240	September 2010
13	Mr N Gqweta	Radiography	SORSA-RSSA 2011 Imaging Congress, 04-06/3/2011	R3 000	December 2010
14	Ms A Vahed	Dental Technology	HigheREducation Pedagogy, Virginia Tech, The Inn, USA, 3-4/2/2011	RI9 078	December 2010
15	Dr IMS Couchman	Homoeopathy	BiTs 2nd Annual World Congress, China, 22- 25/5/2011	RI5 000	January 2011
16	Prof JK Adam	Biomedical & Clinical Technology	SA HEART: 12th annual congress of the South Africa Heart Association, East London, SA 22-26/10/11	R5 358	July 2011
17	Dr R Bhagwan	Community Health Studies	Beyond Belief Religion	RI5 000	July 2011
18	Mrs JF Ducray	Basic Medical Sciences	IFPA – 14th European Group Meeting "Placenta: predicting future health" 14-17/9/11	RI5 000	July 2011

FACULTY OF MANAGEMENT SCIENCES

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Mr B Newton	Applied Management	American Society for Training and Development, Drakensbury, 23-26/3/2010	R4 550	March 2010
2	Dr K Parker	Public Mgnt & Economics	Economic Applied Business Research, Dublin, Ireland, 7-10/6/10	R23 000	April 2010
3	Dr N Dorasamy	Public Mgnt, & Economics	Public sector strategies for overcoming growing global in equality, Bali, 12-17/07/10	R30 000	May 2010
4	Dr AD v/d Merwe	Economics (PMB)	The Asian Conference on Education, Japan, 2-5/12/10	R30 000	August 2010
5	Dr S Singh	Operations and Quality	Global Auditing Methodologies and Tools, pretoria, 25-26/10/10	R4 255	September 2010
5	Mr PE Green	Finance and Information Management	Higher Education Pedagogy, Virginia Tech, The Inn, USA, 3-4/2/2011	R2I 53I	December 2010
7	Mr ME Tenza	Applied Law (PMB)	Conference of the Society of Law Teachers of SA, Stellenbosch, 17-20/1/2011	R9 124.86	December 2010
8	Dr N Dorasamy	Public Management and Economics	World Association on Cooperative Education, USA, 14-17/6/2011	RI5 000	January 2011
9	Dr R Rampersad	Marketing, Retail and Public Relations	World Association on Cooperative Education, USA, 14-17/6/2011	RI5 000	January 2011
10	Ms D Veerasamy	Marketing, Retail and Public Relations	WACE 17th World Conference and work- integrated Education, USA, 14-17/6/2011	RI5 000	May 2011
	Ms R Ramlutchman	Marketing, Retail and Public Relations	WACE 17th World Conference and work- integrated Education, USA, 14-17/6/2011	RI5 000	May 2011
12	Ms P Naidoo	Marketing, Retail and Public Relations	Inter-cultural negotiation of the global space: African perspectives, CT, 30/6-2/7/2011	RIO 000	May 2011
13	Mr IG Govender	Entrepreneurial Studies and Management	Government performance monitoring and evaluation, JHB, I - I 3/5/20 I	R3 900	May 2011
14	Mr A Moorley	Management and Entre- preneurial Studies	Student presentation at a Doctoral Colloquium, NMMU, 17-18/3/2011	R3 295	May 2011

CENTRE FOR LEARNING AND TEACHING (CELT)

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
1	Prof JL Conolly	CELT	First national Technical Institute, Canada	R30 000	April 2010
2	Prof JL Conolly	CELT	HELTASA Conference, University of Limpopo, 23-25/11/2010	R9 422	September 2010
3	Ms SA Madi	CELT	HELTASA Conference, University of Limpopo, 23-25/11/2010	R9 422	September 2010
4	Dr JE Harrison	CELT	HELTASA Conference, University of Limpopo, 22-25/11/2010	R9 850	September 2010
5	Dr JE Harrison	CELT	Postgraduate supervision conference, Stellenbosch, 17-21/4/2011	RIO 000	May 2011

CENTRE FOR QUALITY PROMOTION AND ASSURANCE (CQPA)

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Mr F Khan	CQPA	A XVII ISA World Congress of Sociology, Sweden, R.		March 2010
			11-17 July 2010		

CO-OPERATIVE EDUCATION

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
1	Mr JT Msukwini	Co-Operative Education	World Association on Cooperative Education,	RI5 000	January 2011
			USA, 14-17/6/2011		

ENTERPRISE DEVELOPMENT UNIT (EDU)

N	10	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
1		Mr S Thakur	Enterprise Development	Africa Digital Week 2011, Ghana, 26 -29/7/11	R7 I5I	July 2011
			Unit			

TECHNOLOGY TRANSFER AND INNOVATION (TTI)

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
2	Prof DS Ilcev	Technology Transfer and Innovation	Ninth International Scientific Conference, Russia, 22-23/4/10	R30 000	April 2010

INSTITUTE FOR WATER AND WASTEWATER TECHNOLOGY (IWWT)

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Prof F Bux	Institute for Water and Wastewater Technology	IWA World water Congress, Montreal, 19- 25/9/2010	R29 316	July 2010
2	DrT Mutanda	Institute for Water and Wastewater Technology	4th International Conference on appropriate Technology, Ghana, 24-27/11/10	R20 729	September 2010
3	Prof F Bux	Institute for Water and Wastewater Technology	Singapore international water week, Singapore, 3-8/7/2011	RI5 000	May 2011
4	DrT Mutanda	Institute for Water and Wastewater Technology	Ist international conference on algal biomass, biofuels and bioproducts, USA, 17-20/7/2011	RI5 000	May 2011
5	Ms A Moonusamy Institute for Water and (student) Wastewater Technology		2nd Regional conference of Southern African young water professional, Pretoria, 3-5/7/2011		May 2011
6	Ms N Deepnarian (student)	Institute for Water and Wastewater Technology	2nd Regional conference of Southern African young water professional, Pretoria, 3-5/7/2011	R4 330	May 2011

LIBRARY

NO	NAME	DEPARTMENT	CONFERENCE DETAILS	AMOUNT APPROVED	YEAR
I	Mr D Thomas	Library	Higher Education Learning & Teaching Association of Southern Africa, 30/11/11-02/12/11	R7 559	July 2011

OFFICE OF THE DVC: ACADEMIC

NO	NAME DEPARTMENT		CONFERENCE DETAILS	AMOUNT APPROVED	YEAR	
1	Ms DNTimm	Office of the DVC:	Postgraduate Supervision, Stellenbosch, 18-	RIO 000	December 2010	
		Academic	21/4/2011			

EXTERNAL RESEARCH GRANTS 2010

FACULTY OF APPLIED SCIENCES

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Mr F Swalaha	Water & Wastewater Technology	Industrial Effluent	R152 000	R61 333.33	213 333.33	2010
2	NRF – IRDP Funding	Prof B Odhav	Plant Biomass Utilisation	Botanical Therapeutics	R245 000	R123 333.33	368 333.33	2010
3	NRF – IRDP Funding	Prof K Permaul	Plant Biomass Utilisation	Directed Evolution of Enzymes	R191 000	R67 333.33	258 333.33	2010
4	NRF – IRDP Funding	Prof R Naidoo	Systems Research	Modelling Shockwaves in Ecology	R276 000	R124 000	400 000	2010
5	NRF – IRDP Funding	Prof S Singh	Plant Biomass Utilisation	Enzyme Technology	R330 000	R160 000	490 000	2010
6	NRF – IRDP Funding	Prof S Moyo	Systems Research	Non-linear Differential Equations	R106 000	R30 666.67	136 666.67	2010
7	NRF – Thuthuka Funding	Mr MP Mokoena	Researchers in Training	People Structure and function	R106 000	R21 000	127 000	2010
8	NRF – Thuthuka Funding	Dr R Gengan	Researcher Development initiative for Black Academics	Characterisation and Biological Activity: Xanthones	R231 000	R136 000	367 000	2010
9	NRF – Thuthuka Funding	MsT Singh	Researchers in Training	An initial Study of the Mechanism of the Formation of Cage Lactam	RI5 000	RI5 000	30 000	2010
10	NRF – Thuthuka Funding	Dr L Reddy	Women in Research	Medicinal value of Plant	R90 000	R35 000	125 000	2010

FACULTY OF ARTS AND DESIGN

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
1	NRF – Thuthuka Funding	Prof P Singh	Women in Research	Oral Assessment in Science Education	RI5 000	RI5 000	30 000	2010

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Dr P Govender	Systems Research	Computational Intelligence	R124 000	R42 666.67	166 666.67	2010
2	NRF – IRDP Funding	Mr S MacPherson	Systems Research	Development of a Transit radio	R600 000	RI55 000	755 000	2010
3	NRF – THRIP Funding	Mr GF D'Almaine	-	RTPSS Growth	R193 500	R450 000	643 500	2010

FACULTY OF HEALTH SCIENCES

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – Thuthuka Funding	Ms N Pillay	Researchers in Training	The Role of Soluble Fms-Like Tyrosine-Kinase-1,Va	RI27 300	RI27 300	254 600	2010
2	NRF – Thuthuka Funding	Dr R Bhagwan	Women in Research	Spirituality within SA Social Work Education	R44 000	R34 000	78 000	2010
3	NRF – Thuthuka Funding	Mr JD Pillay	Researchers in Training	Impact of anatomical variations on Sports performance	R116 000	R86 000	202 000	2010
4	NRF – Thuthuka Funding	Dr P Reddy	Women in Research	Genetic Epidemiology	R45 000	RI5 000	60 000	2010

FACULTY OF MANAGEMENT SCIENCES

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – THUTHUKA FUNDING	Dr R Rampersad	Women in Research	Corporate Social Investment and HIV/AIDS in SA	R75 000	RI5 000	90 000	2010
2	NRF – THUTHUKA FUNDING	DrV Rawjee	Women in Research	The Planning and Management of HIV/AIDS Campaigns	R230 000	R50 000	280 000	2010

INSTITUTE FOR WATER AND WASTEWATER TECHNOLOGY (IWWT)

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP FUNDING	Prof F Bux	Water & Wastewater	Activated Sludge Population Dynamics	R280 000	R126 666.67	406 666.67	2010

INSTITUTE OF SYSTEM SCIENCE (ISS)

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP FUNDING	Prof K Duffy	Systems Research	Ecosystems Simulation	R231 000	R94 000	325 000	2010
2	NRF – THRIP FUNDING	Prof K Duffy	-	Process Modelling	R600 000	RI55 000	755 000	2010

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EXTERNAL RESEARCH GRANTS 2011

FACULTY OF APPLIED SCIENCES

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Prof B Odhav	Plant Biomass Utilisation	Botanical Therapeutics	R94 000	R36 000	130 000	2011
2	NRF – IRDP Funding	Prof K Permaul	Plant Biomass Utilisation	Directed Evolution of Enzymes	R220 000	R93 333.33	313 333.33	2011
3	NRF – IRDP Funding	Prof S Singh	Plant Biomass Utilisation	Enzyme Technology	R310 000	RI53 333.33	463 333.33	2011
4	NRF – IRDP Funding	Prof S Moyo	Systems Research	Non-linear Differential Equations	R105 000	R26 666.67	131 666.67	2011
5	Mr MP Mokoena	Researchers in Training	People Structure and function	People Structure and Function	R112 000	R87 000	199 000	2011
6	NRF – Thuthuka Funding	Dr R Gengan	Researcher Development initiative for Black Academics	Characterisation and Biological Activity: Xanthones	R183 000	R183 000	366 000	2011
7	NRF – Thuthuka Funding	Dr L Reddy	Women in Research	Medicinal value of Plant	RIO 000	R50 000	150 000	2011

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Dr P Govender	Systems Research	Computational Intelligence	R170 000	R33 333.33	203 333.33	2011
2	NRF – IRDP Funding	Mr S MacPherson	Systems Research	Development of a Transit radio Telescope	RIIO 000	R73 333.33	183 333.33	2011
3	NRF – IRDP Funding	Mr GF D'Almaine	-	RTPSS Growth	R325 000	R250 000	575 000	2011

FACULTY OF HEALTH SCIENCES

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Ms N Pillay	Researchers in Training	The Role of Soluble Fms-Like Tyrosine-Kinase-I,Va	R174 000	R174 000	348 000	2011
2	NRF – IRDP Funding	Dr R Bhagwan	Women in Research	Spirtuality within SA Social Work Education	R73 000	R73 000	146 000	2011
3	NRF – IRDP Funding	Mr JD Pillay	Researchers in Training	Impact of anatomical variations on Sports performance	RI38 250	R98 250	236 500	2011

INSTITUTE FOR WATER AND WASTEWATER TECHNOLOGY (IWWT)

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
1	NRF – IRDP Funding	Prof F Bux	Water & Wastewater Technology	Activated Sludge Population Dynamics	R302 000	R104 666.67	406 666.67	2011

INSTITUTE OF SYSTEM SCIENCE (ISS)

NO	TYPE OF GRANT	RESEARCHER	AREA	TITLE	NRF CONTRIBUTION	DUT CONTRIBUTION	TOTAL (RANDS)	YEAR
I	NRF – IRDP Funding	Prof K Duffy	Systems Research	Ecosystems Simulation	R174 000	R33 333.33	207 333.33	2011

NRF: RESEARCH COOPERATION PROGRAMME 2011-2012

GRANTHOLDER	COUNTRY	TITLE OF PROPOSAL	DURATION	UID
Prof F Bux	India	Chloroplast genome sequencing of biodiesel producing microalgae strains from extreme climates in India and South Africa.	May 2011 – 30 April 2014	76 457
Prof K Kanny	India	Application of nano composite in science space.	I May 2011 – 30 April 2014	76 460
Prof FAO Otieno	Kenya	Design data for multi-stage filtration units.	I June 2011 – 31 May 2013	77 800
Prof F Bux	Eqypt	Enhancement effect of magnetic nanoparticles on bio-hydrogen production from organic wastes via pilot – scale anaerobic baffled reactor (ABR).	November 2011 – 31 October 2013	78 638
Prof S Singh	China	Enzymes for bio-processing of fruits and vegetables: discovery, property improvement and manufacture processing.	November 2011 – 31 October 2014	78 671
Prof B Odhav	India	Efficient production of secondary metabolites from medicinal plants through in vitro culture.	I January 2009 – 31 December 2011	69 841



DEPARTMENT OF HIGHER EDUCATION & TRAINING

(DoHET) ACCREDITED PUBLICATIONS 2010 & 2011

2010

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Gengan, R. M., Pandian, P., Kumarsamy, C., Mohan, P. 2010. Convenient and Efficient Microwave-Assisted Synthesis of a Methyl Derivative of the Fused Indoloquinoline Alkaloid. *Molecules*, 15:3171 - 3178.

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McKenzie, J. 2010. Coriolis Effects on Stationary Nonlinear Long Wavelength Water Waves - Revisited. *Quaestiones Mathematicae*, 33:1 - 8.

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Napier, C. E., Samuel, F., Egal, A., Oldewage-Theron, W., Venter, C. 2010. Prevalence of Zinc Deficiency among Primary School Children in a Poor Peri-Urban Informal Settlement in South Africa. *Health SA Gesondheid*, 15(1):16 - 21.

Permaul, K., Zhuge, B., Zhang, C., Fang, H., Zhuge, J. 2010. Expression of 1,3-propanediol exidoreductase and its isoenzyme in Klebsiella pneumoniae for bioconversion of glycerol into 1,3-propanediol. *Applied Microbiology and Biotechnology*, 87:2177 - 2184.

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DEPARTMENT OF HIGHER EDUCATION & TRAINING

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DEPARTMENT OF HIGHER EDUCATION & TRAINING

(DOHET) ACCREDITED PUBLICATIONS 2010 & 2011

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Otieno, F. A. O., Wekesa, B., Steyn, G. 2011. A review of physical and socio-economic characteristics and intervention approaches of informal settlements. *Habitat International*, 35:238 - 245.

Rawat, I., Kumar, R., Mutanda, T., Bux, F. 2011. Dual role of microalgae: Phycoremediation of domestic wastewater and biomass production for sustainable biofuels production. *Applied Energy*, 88:3411 - 3424.

Singh, B., Bux, F., Sharma, Y. 2011. Comparison of homogeneous and heterogeneous catalysis for synthesis of biobiesel from Madhuca indica Oil. *Chemical Industry & Chemical Engineering Quarterly*, 17 (2):117 - 124.

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RESEARCH PRODUCTIVITY UNITS IN 2011

RESEARCH OUTPUT	NO. OF UNITS	AMOUNT (R'000)
Masters	48	5 540
Doctorals	42	4 848
Publications	88.88	10 259
Total	178.88	20 647

^{**}Preliminary estimate.

CONFERENCE PROCEEDINGS 2010 & 2011

Faculty of Accounting & Informatics 2010

Eyono Obono, S. D. 2010. An Information and System Quality Evaluation Framework for Tribal Portals: the Case of Selected Tribal Portals from Cameroon. 2010 2nd International Conference on Computer Technology and Development, Cairo, Egypt, 2 - 4 November:

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Kalema, B., Olugbara, O. O., Kekwaletswe, R. 2011. The application of structural equation modelling technique to analyze students' priorities in using course management systems. *Proceedings of the Annual Conference on Computing and ICT Research (ICCIR)*, Kampala, Uganda, 7 - 9 August.

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Zuva, T., Olugbara, O. O., Ojo, S., Ngwira, S. 2011. Image shape representative and description techniques, classification of available techniques and open issues. *Proceedings of 2011 IEEE International Conference on Intelligent Computing and Intelligent Systems*, Guangzhou, China, 18 - 20 November.

Faculty of Arts and Design 2011

Govender, D, 2011. The factors that influence the choice between a traditional cost system and an activity based cost system. Proceedings of the Conference of the Journal of Arts & Sciences (IJAS) National Conference for Academic Disciplines, Las Vegas, USA, 7 - 10 March.

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Eyono Obono, S. D., Zulu, S. P., Barnabas, T. 2011. On the factors affecting the adoption of isiZulu and isiXhosa shorthand in students' SMSes. Proceedings of the IADIS *International Conference* e-Society 2011, Avila, Spain, 10 - 13 March.

Faculty of Engineering & the Built Environment 2010

Govender, P. 2010. Power Line Fault Classification with Sigmoidal Feedforward Artificial Neural Network. Proceedings of the 2010 International Conference on Artificial Intelligence and Pattern Recognition, Orlando, United States of America, 12 - 14 July.

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Starkey, A.R., Bye, G.B., De Beer, C.T.J., De Beer, M., Gwala, S.R.R., Ngubane, L.N.I., Roome, J.W., Rose, N.D, Shibase, T.P., Truter, B.R., Ziegler, B.A., Streak, G., Vaughan-Evans, B. 2010. *Habouring Histories*, Group Exhibitions, DUT GALLERY, Durban, South Africa: Curtin Think Tank Gallery, Perth, Australia. I September - 26 October.

Stroebel, G.H. 2010. *RECOLLECT*, Solo Exhibitions, KZNSA Gallery, Durban. I January - I February.

Van der Walt, T.L., Meskin, T. 2010. *Blood Wedding,* Performance, Courtyard Theatre, Durban. 9 - 13 March.

Van der Walt, T.L., Meskin, T. 2010. Frontlines, Performance, Courtyard Theatre, Durban. 20 - 25 March.

Van der Walt, T.L., Meskin, T. 2010. Frontlines: the remix, Performance, Elizabeth Sneddon Theatre, Durban. 28 September -3 October.

Van der Walt, T.L., Meskin, T. 2010. The House of Bernarda Alba, Performance, Square Space Theatre, Durban. 31 August - 5 September:

MAGAZINE/NEWSPAPER ARTICLES

2010

Kistnasamy, E.J. 2010. Protect Earth, custodians. *Daily News*, 16 June, p. 3.

Kistnasamy, E.J. 2010. Work gains international recognition. *Daily News*, 16 June, p. 8.

Kistnasamy, E.J. 2010. Researchers throw light on asthmatic kids. *Sunday Times Extra*, 13 June, p. 3.

Netshiombo, K.F. 2010. Don't sacrifice social sciences. *Sunday Tribune*, 27 June.

Rosenberg, L. 2010. Remembering Currie's Fountain. *Satyagraha*, 16 November.

Rosenberg, L. 2010. Your Currie's photos spotlight soccer. *Post*, 9-13 June.

PATENTS

2010

Pillay, J.D. 2010. Steps that count. 2010/02810. Adams & Adams. Patent.

2011

Mwangi, F.M. 2011. *Impact Energy Management System.* 2011-04-000007, Adams & Adams. Patent.

Naidoo, R. 2011. *Connector arrangement.* 2011/01628, Dr Gerntholtz Inc. Patent.













POSTGRADUATE DASHBOARD



DUT POSTGRADUATE FORUM

COMMITTEE MEMBERS — 2011



Committee members of the Postgraduate Forum (in the absence of committee Secretary, Thandiwe Madubela and Liaison officer Thobani Gumbi). From left to right: Project Officer Frances Doherty-Biraga, International students representative Oluyemi Awolusi, Chairperson Blessing Mncube, Faculty of Applied Sciences Representative Aluwani Nemukula and Vice Chairperson Mary Mutanda (Front row).

The postgraduate forum (PGF) composition and terms of reference were approved in 2011. This is a postgraduate student forum of the Durban University of Technology (DUT) that is committed to representing and promoting the interests of postgraduate students of the University. It is guided and informed by the realization of broad democratic participation, transparency, accountability, unity, service delivery and academic and research excellence. Membership is open to all masters and doctoral students. It may also co-opt associate and honorary members. One of the values the PGF committed to was creating and sustaining an enabling academic environment and vibrant postgraduate student community striving for excellence, tolerance and respect for diversity as well as representing the best interests of the postgraduate student community at the Durban University of Technology.

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2011 B TECH BLOCK GRANTS BURSARY

B TECH SCARCE SKILLS 2011

VALUE: R35 000

SURNAME	INITIALS	RACE	GENDER	STUDENT NUMBER	FIELD OF STUDY
Bhikhari	S	I	F	20807429	Accounting
Bulose	PS	В	М	21142334	Engineering
Chala	PN	В	F	20822536	Accounting
Dlamini	NP	В	F	20503657	Tourism
Govender	Р	I	F	20811274	Auditing
Govender	Т	I	F	20812046	Hospitality and Tourism
Gumede	PH	В	F	20600823	Hospitality and Tourism
Gumede	VK	В	М	20800977	Auditing
Gwane	SC	В	М	20822229	Management Accounting
Khumalo	NS	В	М	20702589	Information Technology
Makhanya	NS	В	F	20819373	Tourism
Mchunu	SI	В	M	20809338	Biotechnology
Mgenge	SEM	В	М	21142706	Information Technology
Minnie	В	С	М	20813327	Information System
Mkize	CPT	В	F	20813427	Auditing
Mkize	ZJ	В	F	20802491	Auditing
Mofokeng	NEM	В	М	20814980	Tourism
Moodley	Т	1	F	20821068	Auditing
Mthembu	SR	В	М	20815064	Information Technology
Myeza	TP	В	F	20702796	Accounting
Mzobe	N	В	F	20803477	Auditing
Naidoo	J	I	М	20807203	Auditing
Ngcobo	BN	В	F	20706521	Auditing
Ngidi	S	В	М	20813079	Accounting
Ngxongo	NA	В	М	20823410	Tourism
Ntuli	SR	В	F	20605478	Accounting

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B TECH SCARCE SKILLS 2011 VALUE: R35 000

SURNAME	INITIALS	RACE	GENDER	STUDENT NUMBER	FIELD OF STUDY
Padayachee	D	I	М	20710046	Chemistry
Perumal	М	I	М	20600877	Hospitality and Tourism
Puckree	S	I	F	20813400	Auditing
Rathan	S	I	М	20808366	Accounting
Reddy	K	I	F	20805738	Auditing
Reddy	L	I	F	20801794	Hospitality and Tourism
Shandu	SM	В	М	20818732	Information Technology
Shange	MA	В	F	20713316	Tourism
Sibiya	ILA	В	F	20801544	Tourism
Sihawu	YS	В	F	20821091	Auditing
Sijora	S	В	М	20809127	Tourism
Singh	В	I	F	20355498	Tourism
Xulu	S	В	F	20822131	Auditing
Zwane	XP	В	М	20712935	Engineering

B TECH INNOVATION 2011 VALUE: R35 000

SURNAME	INITIALS	RACE	GENDER	STUDENT NUMBER	FIELD OF STUDY
Chakane	RH	В	F	20809531	Chemistry
Chanderman	А	I	F	20415172	Biotechnology
Gengan	Т	I	F	20802596	Clinical Technology
Jairam	K	I	М	20430120	Chemical Engineering
Maphanga	PD	В	M	20618508	Chemistry
Mavuso	SNH	В	F	20618363	Chemical Engineering
Mbele	PA	В	M	20710024	Biotechnology
Mbokazi	NM	В	F	20823021	Biotechnology
Mkhabela	С	В	М	20809501	Information Technology
Mkhabela	N	В	М	21142619	Information Technology
Mlangeni	NP	В	М	20600143	Information Technology
Mngadi	NH	В	F	20054408	Chemistry
Mngomezulu	NN	В	F	20426789	ChemicalEngineering
Mngomezulu	NS	В	М	20614589	Information Technology
Moodley	Р	I	F	20515598	Biotechnology
Moodley	S	1	F	20803670	Biotechnology
Mshengu	М	В	В	20720480	Engineering
Mtetwa	TN	В	F	20823513	Engineering
Naidoo	N	I	F	20803051	Biotechnology
Nombembe	ST	В	М	20813790	Information Technology
Ntshangase	PN	В	М	20720758	Information Technology
Odayar	K	I	F	20424285	Biotechnology
Padayachee	D	I	F	20801635	Engineering
Xaba	FT	В	F	20506801	Chemistry
Zondo	SG	В	F	20424507	Chemistry
Zwane	NC	В	F	20823776	Chemistry

B TECH FREESTANDING 2011 VALUE: R20 000

SURNAME	INITIALS	RACE	GENDER	STUDENT NUMBER	FIELD OF STUDY
Bhoda	K	I	М	20713586	Built Environment
Buthelezi	KN	В	М	20350720	Chemical Engineering
Carroll	TA	W	F	20709357	Video Technology
Dlamini	MW	В	М	20707846	Chemical Engineering
Gasealahwe	OI	В	M	20703427	Built Environment
Gcabashe	SS	В	М	20603640	Chemical Engineering
Govender	R	1	F	19500281	Biotechnoology
Hill	S	W	F	20507600	Food and Nutrition
Khuzwayo	SP	В	М	20821634	Management Accounting
Kubeka	FT	В	F	20704111	Office Management and Technology
Maganlal	V	1	F	20800223	Food and Nutrition
Mbeje	NF	В	F	20709181	Chemistry
Memela	TW	В	М	20806628	Cost Management Accounting
Mohlamonyane	MP	В	F	20710690	Built Environment
Ndlovu	TP	В	F	20708623	Hopitality and Tourism
Shezi	SP	В	F	20810658	Internal Auditing
Sibiya	NN	В	М	20600348	Built Environment
Van Den Heever	М	W	F	20802615	Graphic Design
Van Rensburg	R	W	М	20813482	Dental Technology
Walters	CJ	W	F	20818130	Fashion
Xulu	LP	В	F	20823341	Chemistry
Zulu	KCJ	В	F	20801409	Marketing

MASTER'S PRESTIGIOUS & EQUITY BLOCK GRANTS 2011 VALUE: R40 000

SURNAME	INITIALS	RACE	GENDER	student number	FIELD OF STUDY
Singh	R	I	F	20801286	Biotechnology
Shandu	S	В	М	20615996	Language and Communication
Patel	N	I	F	20513868	Biotechnology

RESEARCH CAPACITY BUILDING @DUT

RESEARCH CAPACITY

DEVELOPMENT ACTIVITIES — 2010

February 2010 – Guest Lecture by Visiting Professor, Professor Jim Mckenzie

Research Management and Development Division & the Department of Mathematics, Statistics and Physics jointly hosted the guest lecture by Prof Jim Mckenzie.

Professor McKenzie is affiliated to the Astrophysics and Cosmology Research Unit, School of Mathematical Sciences, University of KwaZulu Natal and Department of Physics, CSPAR, University of Alabama, USA. He is also a Senior Member of Kings College, Cambridge University in the UK. In addition, Prof McKenzie is a specialist in Space Plasma Physics and Atmospheric and Oceanic Sciences.

Presenting a lecture in an entertaining way, Professor McKenzie explained the properties of the planets and their atmospheres and oceans. He suggested the interesting idea that there are seven days in a week because the ancient Greeks observed five planets (wandering stars – namely Mercury, Venus, Mars, Jupiter and Saturn) as well as the Sun and the Moon. He said that Uranus was discovered in 1781 by Herschel and Neptune in 1846 by D'Arrest (predicted by the mathematicians, Adams and Verrier). According to Professor McKenzie, Pluto, discovered in 1930, is the only planet not to have been visited by a spacecraft. It since has been demoted from its planet status as being too small and cold.

Professor McKenzie commented that fluids and gases are characterized by their average properties of velocity, density, pressure and temperature, all which are functions of space and time described by the fluid equations. 'Waves communicate information over large distances without matter being transported'', he added.

He concluded by saying: 'It is important for everyone, not only mathematicians and physicists to know about solar system atmospheres because they are part of our universe and represent an interaction between Science and Technology through telescopes and the building and launching of spacecrafts'.'

29th April 2010 – NRF Rated Researchers and Active Researcher Function

The NRF Rated Researchers and Active Researchers
Function was held at Hotel School Restaurant on 29 April
2010. The purpose of this function was two-fold. Firstly to
acknowledge the NRF Rated Researchers and the Active
Researchers at the DUT and secondly it also served
as platform for the DVC – Technology, Innovations and
Partnerships, Professor Otieno to introduce himself to the
DUT Research Community.

The NRF Rated and Active Researchers at the DUT were awarded gifts at this function. Researchers at the function expressed their appreciation for being acknowledged for their research contribution.

5th May 2010 – Book Launch and College Lecture: Making Connections by Professor Joan Conolly and SeStuTHE (Self Study for Transformative Higher Education) Team.

The book launch and college lecture was held at the DUT's Art Gallery, Steve Biko campus on the 5 May 2010. The event was a platform to introduce the new book "Making Connections: Self Study & Social Actio".

The book, which is the first book to be published in the area of self-study, was written by different authors. Some of the authors that were present at the lecture were Dr Liz Harrison, Ms Marlene de Beer, Ms Delysia Timm. The book was edited by Dr Kathleen Pithouse-Morgan, Professor Claudia Mitchell and Professor Relebogile Moletsane, unfortunately Professor Moletsane was not available for the lecture. The idea of the book was born at the Durban Symposium which was held in August 2007.

The event was attended by members of DUT Senior Management Ms Ela Gandhi (Chancellor), Professor Nqabomzi Gawe (Acting Vice Chancellor) and Professor Frederick Otieno Deputy Vice Chancellor: Technology, Innovation and Partnerships (DVC-TIP).

20th May 2010 – Presentation on Research Africa by Mr Gerhard Ralphs and Ms Karen Burns

Mr Gerard Ralphs the Project Manager and Ms. Karen Burns the Chief Operating Officer presented Research Africa to the DUT research community. In his presentation Mr Ralphs indicated that Research Africa recognizes the mandate of the Research Directorate to manage the University's research activities and support the academic and research staff.

Research Africa specializes in providing researchers and research institutions with the latest research news and funding opportunities. They do this through a sophisticated online platform called Research Professional Africa, which is made available via different subscription options. Ms Burns said that in the context of growing competition for research funding, both locally and internationally, Research Professional Africa is a service that they believed will equip the DUT's research staff and students to maximize and diversify the funding base, thus helping to raise the profile of the university itself while allowing researchers increased time and opportunity to do what they do best – research.

The presenters did indicate that Research Professional Africa could be offered on a trial basis to the DUT before a subscription was bought.

27th May 2010 – Book Launch: Salt Water Runs in My Veins by Prithiraj (Pritz) Dullay

Mr Prithiraj Ramkisun Dullay released his first book, titled Salt Water Runs in My Veins. The book launch was held at DUT's Mansfield Hall, on 27th May 2010.

Mr Dullay described the book as comprising of 21 short stories. The first half of the book covers a period of more than 100 years and tell the fascinating stories of growing up in my Paradise on the South Coast, life altering experiences of his youth, a growing political consciousness as a student in Durban and later as a teacher activist in Port Shepstone, as well as overt and covert activism.

The second half of the book is a collection of the 28 columns written for the print media since 2007 and ending 2010. It comprises a series of controversial articles that critically examine post 1994 developments, the joys, the celebrations and the problems that need the forceful intervention of civil society.

The Event was opened by Mr Ravigasen Pillay, Chielf Whip of the KZN Legislature and was attended by historians, researchers, educators and political activists. The key note address was delivered by Dr Betty Govinden, senior Academic, UKZN, writer and literary critic.

14th July 2010 – Book Launch and College Lecture: New Connections – A catalogue of the Department of Fine Art and Jewelry Design.

The Department of Fine Art and Jewelry Design at the DUT launched its first book "New Connections" on 14th July 2010 at the DUT Art Gallery, Steve Biko Campus. The book is a peer reviewed textual publication that captures the creative outputs of academics and researchers in the newly formed department of Fine Art and Jewelry Design, exhibited at the KZNSA Gallery in March 2009. The idea for the textual publication of Fine Art and Jewelry design was the brainchild of Professor Gansen Pillay, the then Director of Research

The purpose of this publication was two-fold: firstly, to demonstrate that research outputs in the creative arts can indeed be textualized and peer-reviewed; and secondly, for the publication to be tested against the criteria of the Department of Education's (DoE's) "Policy and Procedures for the Measurement of Research Output of Public Higher Education Institutions [Higher Education Act, 1997 (Act No. 101 of 1997)]" — ISBN: 1-919975-91-8, in order to qualify for a subsidy.

The book launch was attended by Senior Management members such as Dr Kenneth Netshiombo (Acting Deputy Vice Chancellor: Institutional Support) who was the Executive Dean of the Faculty of Arts and Design at the

time the idea for the book was conceptualized, Professor Nomthandazo Gwele (Deputy Vice Chancellor: Academic), Professor Graham Stewart (Acting Dean of Arts & Design) and Professor Sibusiso Moyo (Acting Director of Research Management and Development.

The publication coincided with the 125th anniversary of the Department of Fine Art and Jewelry Design and was a reminder of the department's proud record in maintaining high standards.

4th, 11th, 18th and 24th August 2010 – College Lecture by Professor Jean Faullimmel

The Department of Chemical Engineering and Research Management and Development Directorate at the Durban University of Technology hosted Professor Jean Faullimmel, an Environmental Expert. Professor Faullimmel worked for many years in the Chemical Industry as an Environmental Engineer. His qualifications include a PhD in Polymer Science and Engineering and a MSc in Organic Chemistry. In view of the important environmental issues the world is confronted with, he has been trying to promote Environmental Awareness Education. He has been teaching in France, China and South Africa. The topics he lectures on are based on his first hand industrial experiences and include amongst others:

- Wastewater treatment (industrial and urban) and corresponding water analyses,
- Air emission treatment and corresponding air analyses,
- Air, water and soil pollution
- Air quality monitoring,
- Soil remediation,
- Waste management (source reduction, waste reuse, recycling and disposal),
- Manufacturing processes improvement,
- Environmental management (ISO 14001),
- Environmental assessment (water/air/solids),
- Environmental risk and management assessment,
- Environmental impact management and
- Environmental auditing

The College Lectures were presented on the following topics.

- An introduction to Environmental Issues.
- 2. Sustainable Development,
- 3. Land and water pollution and
- 4. Air pollution

6th August 2010 – Women's Day Lecture by Professor T. Meyiwe.

The Research Management and Development Directorate together with the Division of Corporate Affairs and the Gender Forum hosted the annual Women's Day Lecture at Jaipur Palace, On Broadway on Friday, 6th August 2010. Professor Moyo, the Director: Research Management and Development was Programme Co-ordinator of the event. The guest speaker for the day was Professor Thenjiwe Meyiwa. Professor Meyiwa is Research Professor at Walter Sisulu University (Mthatha, Eastern Cape). She is an NRF Rated social science researcher. She holds a Doctoral degree in Feminist Oral Studies from the University of Natal. She has more than 15 years experience of gender training, research development and policy analysis. Her areas of teaching & research are cultural constructions of gender; with a special focus on:

- I. Contemporary HUMAN behavioural patterns,
- 2. Motherhood.
- 3. Durban based refugees, and
- 4. The impact of HIV/AIDS on women and home care givers.

Other speakers for the day included Mr Pritz Dullay from the Technology, Transfer and Innovations Directorate and Dr Jairam Reddy, the Chair of the DUT Council. Both gentlemen echoed the same sentiments wrt the importance of acknowledging and accepting the important roles women play in society at large.

2 September 2010 – Workshop on Literature Review and Research Methodology by Professor L. Ramarathan, Department of Education and Development, UKZN

Professor Ramrathan conducted a workshop on Literature Review and Research Methodology for staff members engaged in Masters and Doctoral Studies from the Faculty of Accounting and Informatics. The following aspects were covered in the workshop:

- Ontology
- Epistemology
- Methodology
- Truth and reality
- Paradigms
- Methodology
- Methods

The workshop was well received by the staff members from the Faculty.

29th October 2010 – Guest Lecture by Visiting Professor, Professor Marcos Cherinda

The Research Management and Development Directorate hosted a Visiting Professor Lecture on 29th October 2010 in the Research Boardroom Professor Marcos Cherinda is the Assistant Professor in Mathematics Education Dean of the Faculty of Natural Sciences and Mathematics, Universidade Pedagogica, Maputo, Mozambique.

The title of Professor Cherinda's talk was ETHNOMATHEMATICS RESEARCH A CONTRIBUTION FOR INNOVATIVE MATHEMATICS EDUCATION IN MOZAMBIQUE. In fact, the prefix "ethno" is sometimes used to refer to small-scale indigenous societies, but in its broadest sense can refer to any group—national societies, professional classes, religious traditions, children of a certain age bracket, and so on, and includes their jargon, codes, symbols, myths and even specific ways of reasoning and inferring. Thus, ethnomathematics suggests a broad conceptualization of mathematics and "ethno". It lies at the convergence of mathematics and cultural anthropology.

The talk addressed the theoretical framework,
MozEthnomathematics Research Project, Web based
activities and conclusions

16 November 2010 – Introductory Publications Writing Workshop by Professor L. Ramarathan, Department of Education and Development, UKZN

ProfessorRamrathan presented this workshop to DUT academic staff members from across the faculties. The following topics were covered in the workshop:

- Why the need to publish in academic journals/ books/etc.
- Participants' experiences of writing and publishing
- Dealing with rejection
- Dealing with review comments

Staff that attended the workshop were very pleased with the contents presented by Professor Ramarathan and recommended that more workshop of this nature be held in the 2011.

25 November 2010 – Workshop on Literature Review and Research Methodology by Professor L. Ramarathan, Department of Education and Development, UKZN

Professor Ramrathan presented a workshop to academic and technical staff in the Department of Biomedical and Clinical Technology. The following topics were covered in the workshop:

- Proposal writing for qualification purposes
- Proposal writing for grant application purposes
- Manuscript writing/publications

13 December 2010 – Launch of the Annual Research Report 2009 and Annual Researchers Forum.

The Annual Researchers Forum was held on the 13 December 2010 at the Hotel School Conference Centre. The function was twofold, viz:

- 1. To acknowledge all outstanding researchers
- 2. And to launch the Annual Research Report 2009

Some of the categories in which awards were present were the following:

- (i) Newly Rated Researchers New Ratings:Professor N Deenadayalu C3 NRF RatingProfessor K Permaul C3 NRF Rating
- (ii) Recognition of Rated Researchers

Professor K Bisetty

Professor F Bux

Professor KJ Duffy

Professor K Kanny

Professor R Naidoo

Professor FAO Otieno

Professor B Odhav

Professor S Singh

Professor PY Tabakov

Professor Walker M

(iii) Top Researchers at DUT for 2009 – The criteria used here was based on the measurement of journal articles, conference proceedings and student successfully supervised at Masters and Doctoral level.

Professor S Singh (Top Researcher for 2009)

Professor B Odhav

Professor K Bisetty

Professor N Deenadayalu

Professor K Permaul

Professor D Ilcev

- (iv) Recognition of Book Contributions and Team Effort 2009
- Making Connections 2009 Contributions
 Professor J Conolly, Desmond S & S Dullay,
 J Gumede , E Mnguni, C Ngaloshe, M Nxumalo
 T Nyawose, S Padayachee, Pretorius N, D Timm,
 C Yenic.
 Dr L Harrison
 Dr M de Beer
- HIV AIDS Prevention and Health Communication Chapter Contributions
 Dr R Rampersad

- (v) Programme with the Highest Graduates at
 Masters Level: Supervisors Award Based on
 Graduation Rates for 2009
 Dr C M Korporaal (On behalf of the Chiropractic
 Department) Chiropractic
- (vi) Young Upcoming Researchers and New Doctorates 2009

 Dr MP Mokoena
- (vii) Recognition of Women Researchers New Promotions for Professorships:Professor D PrattProfessor C Napier

RESEARCH CAPACITY

DEVELOPMENT ACTIVITIES - 2011

8 February 2011 – Lecture on "Software and social network for building research capacity" by Professor Dee Pratt

This presentation by Professor Pratt gave an overview of how software and social networks can be used to build research capacity, including use of Sharepoint, Facebook, Moodle, as well as software such as Vox Proxy, Endnote and the Writing Tutor program.

14 March 2011 – Guest Lecture on "How to successfully publish in Academic Journals" by Professor Thomas Dobbelstein

Professor Dobbelstein from Baden-Wurttemberg
Cooperative State University in Ravensburg Germany was
the guest lecture. His expertise and wealth of knowledge
has acquired him excellence in various research fields.
He's a passionate researcher and has diverse experience
in academic publishing. He was indeed a great help to
members of staff who were present at the lecture.

23 March 2011 – Workshop on initiative to improve mathematics in KZN schools in partnership with Georgia State University, Durban University of Technology and representatives of CASME

A partnership Programme with Dr Iman Chahine, Georgia States University (GSU), Representatives of CASME (UKZN), the Durban University of Technology Math Programme, and this partnership seeks to address critical needs for enhancing the teaching and learning of mathematics across grade levels by reinforcing on-going collaborations between departments of mathematics and mathematics educations at institutes of higher education.

29 March 2011 – Workshop on Research Writing for Thesis/Dissertation – students

This workshop was facilitated by Professor Pratt who is a specialist in the area of written communication. The purpose of this workshop was to assist students at masters and doctoral level with research writing for thesis and dissertation. It offered insights into various stages of writing a thesis or dissertation, as well as dealing with some of the most common problems higher degree students face when dealing with an extended piece of writing.

30 – 31 March 2011 – Workshop on Research Writing for Thesis/Dissertation – staff

Due to the overwhelming response this workshop had to be run over two days to accommodate staff. This workshop was facilitated by Professor Dee Pratt who is a specialist in the area of written communication. The purpose of this workshop was to assist staff members registered for masters and doctoral studies at DUT or outside DUT. The workshop focused on challenges faced by staff when writing for research purposes. Professor Pratt has a wealth of practical experience facilitating students and staff at different levels in diverse disciplines. The workshop was well received by staff that attended and there were numerous requests to run more workshops during the course of the year:

30 March 2011 - Book Launch - (re) Searching Durban

The contributors to this book are staff members from the DUT and students that have successfully graduated from the DUT and who are currently involved in higher degree studies or collaborations with the DUT. The book was edited by staff members, Mr Fazel Khan and Ms Nisha Ramlutchman. The book is a collection of articles that contains the growing influence of urbanism and globalization on the inhabitants, structures and praxis in the city of Durban. (Re) searching Durban aims to do just by stitching together the cultural, political and socio-economic fabric of Durban's rich heritage, these articles are reflective of the voices in Durban.

5 May 2011 – Research Methodology and data analysis

This workshop was facilitated by Professor Labby
Ramrathan, School of Education, University of
KwaZulu-Natal at the Hotel School Conference centre. The
target audience was Masters and Doctoral Students of the
DUT

Topics covered in this workshop were:

- Experimental Research Design
- Surveys as Research Paradigms
- Perspectives

3 June 2011 - PMB- Thesis writing

This workshop was facilitated by Professor Pratt who is a specialist in the area of written communication. This workshop was structured specifically for the post graduate students of the Department of Civil Engineering and Surveying at the Indumiso Campus, PMB to assist students at BTech and Masters level with research writing for thesis and dissertation. It offered insights into various stages of writing a thesis or dissertation, as well as dealing with some of the most common problems higher degree students face when dealing with an extended piece of writing.

20 July 2011 - Publications Writing Workshop

This workshop was facilitated by Dr Cathy Nokes. Dr Nokes is Professor and Director of the Graduate Nursing Hunter College, CUNY, Hunter-Bellevue School of Nursing and Doctoral Faculty, Graduate Centre, CUNY. Dr Nokes visited the DUT as a Fulbright Specialist grant holder in Public/Global Health. She is also an Honorary Research Professor at DUT. Dr Nokes has published widely and comes to DUT with a considerable wealth of experience in publishing for academic and professional journals.

5 August 2011 - Women's Day Seminar

The Annual Women Days Seminar was held at the Hotel School Conference Centre. The objective of the seminar this year was to recognize women in the Higher Education Sector especially those conducting research at the Durban University of Technology, to identify them for their passion and dedication towards improving the various disciplines thereby bringing about new ideas and forms of approach that result to outstanding achievements. The Seminar was also a platform to showcase exceptional work done by female researchers and salute them for their `perseverance and hard work over the years.

There were three motivational speakers for the day:

- Dr Lubna Nadvi who teaches Political Science and International Relations at UKZN, she is also a community activist and a member of Durban Social Forum, the Social Movement Indaba (SMI), the Democratic Left Front (DLF), Women in Action (WIA) and serves as the education officer for the Palestine Support Committee (Durban) and co-ordinator of the Action Group on Palestine. She spoke about "the role of women scholar- activists in creating social capital for development and progress".
- Dr Lungile Ntombifuthi MaBhengu Baloyi academic and social activism journey has been enhance by her theoretical and practical experience in various fields such as community nutrition, public health law, personal and organizational leadership ethics, international and environmental law as well as adult education.

 Dr Oshadi Mangena holds several qualifications in different fields but her professional qualification includes states Medical and Surgical Nursing Certificate South Africa, States Midwifery and school Nursing Certificate- South Africa, she is currently the executive director of Pitseng Trust Women's Fund. She spoke about "eurocentrism and gender problematic in Africa".

II August 2011 - MILE presentation

The Directorate for Research and Postgraduate Support hosted the Municipal Institute of Learning (MILE) presentation. The Project Manager of the MILE at the eThekwini Municipality Mr Collin Pillay facilitated this presentation.

The MILE is the eThekwini Municipality's initiative which falls under the Municipality's Corporate Policy Unit under the City Manager's office. The programme is based on the collaboration of knowledge between the Municipality and tertiary institutions in Durban. The programme looks at promoting relationships between municipality's, agencies and other networks, provides a unique knowledge management space for practitioners to engage in, the opportunity to share expertise amongst practitioners, enhancing their capacity through Master classes, short-term training and providing municipality Technical Support to municipality's in South Africa.

Speaking at the presentation, Mr Pillay said that the purpose of the presentation was to engage with the process of research and outputs, to look at offering of research areas through an informed research agenda, funding opportunity as well as to encourage city practitioners to work and publish with academics thus enhancing skills and improving of human capacity within the city.

II - I2 August 2011 - Nvivo Workshop

This two day workshop was facilitated by Ms Patsy Clarke who is an Educational Developer, Researcher & NVIVO trainer. NVIVO software assists with preparation, management and analysis of qualitative data. Data might be in the form of transcripts of interviews/focus groups, policy documents, diaries, field notes, literature reviews, images, audio, video media or datasets, and from any qualitative research design. This two day workshop was structured for first time users or as a refresher for those who have used previous versions. In addition to a mix of presentations, demos and hands-on practice with sample data, the course included a session each day when participants can take the opportunity to work with their own data or consolidate further with the sample data. Each faculty had identified a staff member to attend this workshop. The intention was for that staff member to acquire a skill from this workshop and if possible to assist/offer fellow colleagues some assistance with using the Nvivo software.

17 August, 6 September, 14 September and 5 October 2011 – Simple/basic Statistics workshop and 13 September, 20 September, 19 October and 7 November 2011 – Follow-up Simple/basic Statistics workshop

These workshops were facilitated by Mr Deepak Singh from the Maths, Physics and Stats department at the DUT. The workshop structure was an initial workshop to introduce the software package SPSS and then a follow-up workshop to work with research data already obtained. SPSS Software now known as PASW Statistics 18 is a comprehensive system for analyzing data. Data can be taken from almost any type of file and use to generate tabulated reports, charts, and plots of distributions and trends, descriptive statistics, and complex statistical analyses. The software makes statistical analysis more accessible for the beginner and more convenient for the experienced user. Simple menus and dialog box selections make it possible to perform complex analyses without typing a single line of command syntax.

31 October 2011 – Guest Lecture by Professor John A Douglass

Professor John A Douglass from the Center for Studies in Higher Education, University of California, Berkeley presented a seminar on "American Higher Education – The California Idea" in the CELT Boardroom, Berwyn Court.

Professor Douglass is a Senior Research Fellow whose current research interests are focused on the student experience in research universities, the role of universities in economic development, science policy as a component of national and multinational economic policy, the evolving role of mass higher education in society, and the influence of globalization. He has served as the deputy director of the Centre from 1999 to 2002 and is the editor of the Centre's Research and Occasional Papers Series. Before his appointment at CSHE, he served as the chief policy analyst for the University of California's Systemwide Academic Senate and held teaching and research positions at UC Santa Barbara. He has been a Visiting Professor at the Institute d'Etudes Politiques de Paris (Sciences Po), a Visiting Research Fellow at the Oxford Center for Higher Education Policy Studies (OxCHEPS) and a Visiting Policy Analyst at the California Postsecondary Education Commission.

2 November 2011 – Guest Lecture by Professor Peter Barrett

Professor Peter Barrett presented a guest lecture in the Research Boardroom, Tromso Annexe. Professor Barrett is a Senior Research Associate in the School of Religion & Theology at the University of KwaZulu-Natal. Professor Barrett presented a guest lecture on "This amazing, beloved, costly universe — a view from science-and-theology in the light of nature's catastrophes"

ABSTRACT

A major concern of contemporary science-and-theology discussion is to produce an overarching, widely inclusive, theistic account of our multi-levelled evolutionary universe - this amazing, beloved, costly cradle-of- humankind. From science it is clear that in order for the universe to be life-bearing, its starting conditions and continuing process have had to be just right (the Anthropic Principle). There are then two main ways of explaining its remarkably special nature: either there are many universes, with different conditions and processes, with ours being perhaps the only one that happens to be suitable for advanced life – or, in monotheistic terms, this is a universe that has been specially created by an inexhaustibly loving God, for reasons that include the emergence of beings who can act morally and respond freely to the divine love. Such freedom of response seems to require the laws of nature to be a delicate balance of randomness and orderliness, thus allowing the possibility of natural catastrophes.

14 November 2011 – Workshop on ResearchSupervision for new supervisors

This workshop was facilitated by Professor D Pratt for the Faculty of Health Sciences in the Research Boardroom, Tromso Annexe. The workshop then looked at the following areas, inviting group discussion and giving practical examples and/or materials:

- Resources available
- The research process
- The supervision process

Some key works referred to in the workshop (all available in DUT Library and/or online) Some attendees asked for copies of the research handbooks available in pdf, and these were emailed to them as requested.

I7 November 2011 – InstitutionalResearch Day

The Institutional Research Day was hosted at the Library Complex, Steve Biko Campus. The event was attended by approximately 250 academic and research staff and postgraduate students. The Guest speaker for the event was Dr William R Bishai (MD, PhD), Director of K-RITH, which is the Research Institute for TB and HIV. He talked about TB: The Invisible Global Health Emergency and what K-RITH Doing about It. Dr Bishai extended the invitation to DUT to collaborate with researchers working with TB and HIV.

In total sixty-five (65) abstracts were received. There were five parallel sessions. Abstracts from a wide variety of disciplines were received from the Faculties of Applied Sciences, Health Sciences, Engineering, Accounting and Informatics, Arts and Design and the Management Sciences. Prizes were awarded for the best oral presentation per faculty and best poster presentation per faculty.

29 – 30 November 2011 – Writing Workshop by Dr Nyna Amin (UKZN)

This Writing workshop was facilitated by Dr Nyna Amin from the School of Education, University of KwaZulu Natal. The workshop was hosted off campus at Khaya Lembali in Morningside. Dr Amin took a very different approach to presenting the workshop. The first workshop over two days

was a presentation of ideas for a paper and feedback on how it could be written, (often writers do not know how to take ordinary ideas and turn them into new knowledge) The intention is to have a follow-up two day workshop a month later when a basic draft is presented by all for refining ideas.

7 – 8 December 2011 – Publications Writing Workshop by Dr David Katerere

This Writing workshop was facilitated by Dr David Katerere from the Medical Research Council, Cape Town. The workshop was hosted off campus at Khaya Lembali in Morningside.

The workshop was a hands-on workshop for early career scientists and post-graduate students who are involved in academic/scientific writing. It was a two day workshop and attendees brought any form of writing they were working on. Attendees received a workbook each and access to continued mentoring from Dr Katerere.













INTER-UNIVERSITY STAFF

RESEARCH CAPACITY BUILDING

The following individuals from the Universities and Councils are involved with the TES project:

Liz Harrison, Durban University of Technology

lizh@dut.ac.za

Kathleen Pithouse-Morgan, University of KwaZulu-Natal

pithousemorgan@ukzn.ac.za

Joan Conolly, Durban University of Technology,

conollyj@dut.ac.za

Thenjiwe Meyiwa, Human Sciences Research Council,

tmeyiwa@hsrc.ac.za



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Directorate for Research and Postgraduate Support. Technology, Innovation and Partnerships Durban University of Technology

EDITORIAL TEAM

Prof Sibu Moyo
Ms Vaneshree Govender
Ms Bisoye Banwo
Ms Leeann Govender

ADDITIONAL SUPPORT

Ms Promise Nhlabathi
Ms Charmaine Naidoo
Ms Zanele Shandu
Ms Nobuhle Sikhakhane
Mr Sundeep Singh
Ms Sheena Perumal
Ms Bronwyn Jones

RESEARCH OUTPUTS

Ms Nicky Muller

DESIGN & LAYOUT

Yoshen Nair - Workspace - Work Integrated Learning Design Studio Artworks Communications

PHOTOGRAPHS

Mr Morgen Kisten & the Audio Visual team Photographers from Workspace

DESIGN COSTS

DUT Corporate Affairs Division