



RETHINK. REINVENT.

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66 2013 was a year of great challenge and also of great reward.

VICE-CHANCELLOR AND PRINCIPAL

2013 was a year of great challenge and also of great reward. We were the fastest mover in the University Rankings By Academic Performance (URAP) from position 1038 to 788, achieved a fantastic Top 4% rank in the QS World Class Universities Ranking, ranked a superb 61st in the QS BRICS World Class Universities Ranking, stewarded our financial and physical resources with great efficiency, effectiveness and care, sustained our position as SA's Number Two university brand, and for the first time, more than 5,000 under-graduate students provided substantial voluntary services to our communities.

The focus in 2013 remained on sustained excellence in Research and Postgraduate Studies while providing outstanding strategic and operational support for research and postgraduate studies. As a consequence, and for the third year running, accredited research output significantly exceeded target, increasing to 873.91 units, and is up 12.86% on the previous year's 774.35 units.

Generally, staff with master's or doctoral qualifications drive research in an institution, and at UJ there are sustained initiatives to encourage staff to obtain master's or doctoral qualifications in order to enhance the quality of teaching and to increase the pool of active researchers: during 2013 the number of academic staff undertaking doctoral studies reached 134, ahead of the target of 130.

The NRF operates a researcher evaluation and rating system to promote research excellence and grow the country's research capacity, and thus South African universities have used the number of rated researchers affiliated to the institution as a measure of the institution's capability to conduct quality research as well as to establish themselves as research-intensive institutions. Thus, UJ has in place a programme for identifying and assisting new and potential applicants for rating, and for others to move from a lower rating to a higher one, and this is yielding good results. Thus, rated researchers have increased from 115 to 133. The increase in the number of rated researchers was mainly attributed to new ratings rather than to new staff joining the University. Also of significance is the gain in the number of C- and Y-rated researchers.

Importantly, and as part of nurturing a culture of postdoctoral research, in 2013 UJ had awarded 120 postdoctoral research fellowships, with plans to expand this number to 200 by 2020. The majority of these postdoctoral fellowships were held in the faculties of Science and Humanities, with approximately 30% funded by the National Research Foundation.

The establishment of two new research institutes - Telecommunications, and Chemistry: Economic Catalysis - have been approved and, alongside the seven UJ National Research Foundation Chairs, these two new research centres should be fully operational at the beginning of 2014.

Resolution Circle Nano (RC) was successfully established as the hub for technology innovation and technology transfer, as well as for contributing to improving the stature and quality of technological programmes. Resolution Circle moved to its new and more spacious premises during the first half of 2014. A significantly enhanced Board is now in place to improve governance, and it is supported by the executive directors who are responsible for driving the achievement of agreed results. Within the context of RC specific activities focused on energy and automation are well underway, while those for water and telecommunications are in the development stage.

The expansion and redevelopment of the Doornfontein campus to a world-class hub for our health sciences, and engineering and the built environment faculties, are well underway, however it is expected now to only be ready for full occupation during the second term of 2014, and not at the opening of the new academic year as planned.

PROFESSOR IHRON RENSBURG Vice-Chancellor and Principal

A sizeable number of UJ researchers are recognised both nationally and internationally.

DEPUTY VICE-CHANCELLOR: RESEARCH, POSTGRADUATE STUDIES, LIBRARY AND **INFORMATION CENTRE**

The year 2013 was a critical period for the Division of Research and Postgraduate Studies. Though there were changes in the staff component, especially at senior levels, the Unit is happy to report a healthy improvement and achievement in all its Key Performance Indicators (KPIs). The focus in 2013 remained on sustained excellence in Research and Postgraduate Studies and providing strategic and operational support for research and postgraduate studies at UJ, with the faculties as the key drivers for this strategic thrust.

All information pertinent to research activities and support functions is disseminated through the website www.uj.ac.za/research. The functional activities of the division are measured through KPIs with goals and targets defined annually in the institutional scorecard. For the 2013 academic year, the key performance indicators were:

- accredited research output;
- proportion of international to national research publications;
- number of rated researchers; • number of postgraduate
- student enrolments.

According to data from Scopus, UJ contributes 4.5% of the national research output. As measured by the number of Web of Science documents, the top five research areas at UJ are Social Science, Physics and Astronomy, Engineering, Material Science, and Chemistry. An increased total of 73% of journal articles were published in the Information Sciences Institute (ISI) and International Bibliography of the Social Sciences (IBSS) publications against a target of 64%. The number of National Research Foundation (NRF) rated researchers peaked at 133 as at 15 December 2013. Generally, staff with master's or doctoral qualifications drive research in an institution. At UJ, there are consistent initiatives to encourage staff to obtain master's or doctoral qualifications in order to enhance the quality of teaching and increase the pool of active researchers. Active researchers are defined as those who are involved in publishing accredited research outputs. Based on the accredited research publications submitted in 2013, there were 717 active researchers as compared to 2012 with 622. More staff members are publishing, and, given the lucrative institutional incentives for publishing, there has been a substantial increase in the number of active researchers. The University has clear policies for incentivising publications in accredited journals.

During 2013 the number of academic staff who were registered for studies towards a master's was 77 and in 2013, 31 staff members graduated with a Master's degree. The number of academic staff who were registered for studies toward a PhD was 163 and the number of those who graduated with a PhD in 2013 was 38.

A sizeable number of UJ researchers are recognised both nationally and internationally. UJ researchers are active in or have become affiliated to various Professional bodies, and have been recognised by distinguished awards. Research impact and citations are seen as becoming more important in indicating the quality of our research. The number of publications listed in the Scopus database has been increasing steadily. In 2012, there were 1,300 articles listed in the Scopus and InCites databases. Additionally, in terms of citations of all UJ publications dated 2013 by other researchers, the total citation count was 1,422.

PROFESSOR TSHILIDZI MARWALA

Deputy Vice-Chancellor: Research, Postgraduate Studies, Library and Information Centre

MARWALA



66 The focus within the next 2 years will be on Quality, People and Impact. The Research Publications Output momentum will be maintained at the same level and that will be more than sufficient to achieve institutional goals. Better results will be obtained once we have built (improved) our quality and people.

The Research and Postgraduate Studies Division reports to the Deputy Vice-Chancellor: Research, Postgraduate Studies, the Library and Information Centre. The administrative framework of the division is anchored in four well-defined functional units: Research and Innovation, the Postgraduate Centre, the Statistical Analysis Unit (STATKON) and the Research Information Management System (RIMS) is also highlighted as a governance function.

The Research, Innovation and Postgraduate Studies environment in Universities in South Africa has become very complex and competitive. The University of Johannesburg is continuously redefining the playing field to remain dynamic and competitive. The university is not satisfied by continuous (linear) improvement, but is looking for revolutionary (unusual) achievements - a step-change. The Research, Innovation and Postgraduate Studies Office needs to respond by adopting appropriate strategic options accompanied by appropriate human resources and capabilities. There is a need for restructuring the whole unit to be able to focus on the following priorities:

- A measure of our ability to get papers published in quality peer-reviewed journals. This will be assessed through counting the number of papers published in academic journals as indexed by Scopus (SciVal), per academic staff member.
- The degree to which our Academic Research staff collaborate with international Research academics in research projects. This is measured by capturing the proportion of academic journal publications that have at least one international co-author.
- A measure of our role as a university to produce and spread relevant, useful and beneficial new knowledge and ideas. Research that stands out and is picked up by the global research community and used to push the boundaries of our collective knowledge. This is measured by capturing the number of times an academic paper is cited by the global research community.
- To attract, develop and nurture the careers of excellent researchers that are recognised and respected nationally and globally. The NRF Rating is an important measure.
- External research income is crucial to the development of world-class research. Much of it comes as a result of research funding proposals and is competitively judged by peer review.
- The global academic community, over the last 10 years has increased its focus in investing in research that is relevant and contributes to economic development and poverty eradication. Collaboration with industry, innovation, inventions, and consulting are now key pillars in research successful universities. This is measured by capturing "Industry income: innovation", which indicates the extent to which businesses are willing to pay for research and the university's ability to attract funding in the competitive commercial marketplace - these are high level indicators of institutional research quality.

THE DIVISION **OF RESEARCH** AND POSTGRADUATE **STUDIES**





Research and Innovation

There has been a steady increase in accredited research publications since 2008. The University currently ranks among the top six residential universities in terms of accredited research outputs, contributing a notable 7% of national research outputs. There was an increase in the units awarded and the University also achieved a high submission success rate (97%), having submitted 902.27 units.

In an endeavour to increase the research stature and impact of its research output, the University promotes research publications in international journals. There has been a significant shift in the number of publications from national to international peer-reviewed journals. In 2011, the percentage of international to national research publications was 73%. In 2013 it was estimated at 84%.

NRF-rated researchers

The NRF operates a researcher evaluation and rating system to promote research excellence and grow the country's research capacity. South African universities have used the number of rated researchers affiliated to the institution as a measure of the institution's capability to conduct quality research as well as to position themselves as research-intensive institutions. The ratings are based on the quality and impact of recent research outputs, over an eight-year period. The rating process takes place through a set of specialist panels (national and international reviewers) according to a hierarchical system.

			Rati	ng categ	lory		
Year	А	В	С	Р	Y	L	Total
2009	4	16	42	1	7	2	72
2010	5	20	52	1	10	2	90
2011	5	21	57	1	14	1	99
2012	5	24	66	1	19	0	115
2013	6	28	72	1	26	0	133

The South African Research Chair Initiative (SARChI)

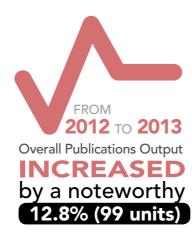
SARChI aims to strengthen scientific leadership and research capacity in South African universities. The programme supports world-class scholars who are the focus of advanced research and training - the next generation of research leaders in their fields. UJ has been awarded seven research chairs in:

- Education and Care in Childhood (Faculty of Education);
- African Diplomacy and Foreign Policy (Faculty of Humanities);
- Social Change (Faculty of Humanities);
- International Law (Faculty of Law);
- Geometallurgy (Faculty of Science);
- Indigenous Plant Use (Faculty of Science);
- Nanotechnology for Water (Faculty of Science).

Research Funding

The University relies on its internal funds and external funds to continue supporting research. Internal funds accounted for 38% of total research expenditure while external income accounted for 62% of research expenditure. In the previous year the figures were 40% and 60%, respectively. Overall, total research expenditure increased to R153 million compared to R138.85 million last year. Strategies are in place and are implemented to grow the external income component to reduce the dependency on the University. Going forward, all the research centres will be measured against generating external income.

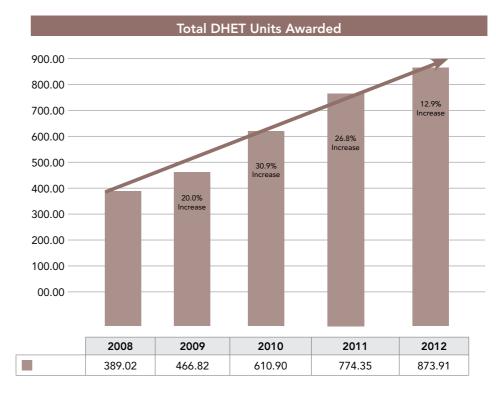
UJ has a strategy for identifying new potential applicants for rating and helping researchers to move from a lower rating to a higher one which is yielding good results. This approach is working well, as the University currently has 133 rated researchers - up from 115 at the end of the previous year. The increase in the number of rated researchers was mainly attributed to new ratings rather than to new staff joining the University. Also of significance is the gain in the number of C-rated researchers and Y-rated researchers.



In 2013, the University's internal research budget was R58.28 million. External research income is broadly divided between the NRF funds and other external funds. External income from the NRF increased by 30% from R40.10 million to R52.14 million. This is because in certain cases the full amount of the grants was not released. External income from other sources equalled R42.59 million, which is slightly down from R43.60 million in the previous year.

Research Overview Accredited Research Output

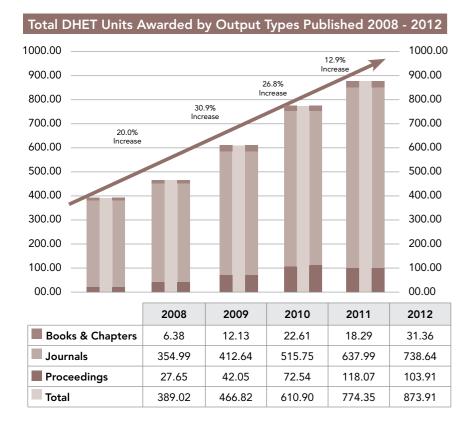
UJ uses the quality and quantity of research publications as a benchmark to monitor and assess its research productivity. Hence, publication trends are tracked on an annual basis. As illustrated in the table below, research publications have again shown a fairly healthy growth. The total research output of the University as accredited by the DHET grew by 12.9% from 774.35 units in 2011 to 873.91 units in 2012.







RESEARCH OVERVIEW



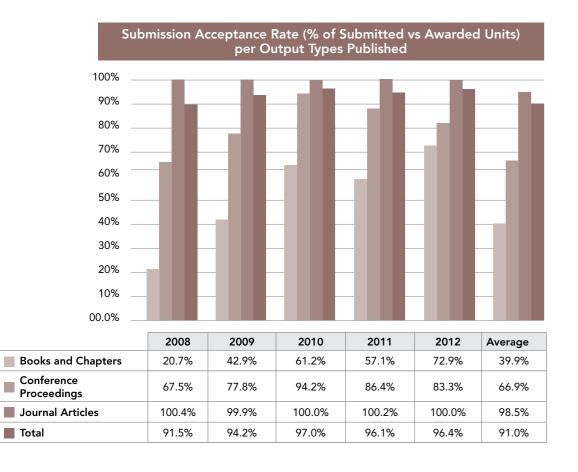
Approval Rate

The University subjects all its outputs to rigorous internal screening processes to ensure compliance with DHET policy in order to increase the approval rate.

The University was awarded 738.64 units (100% approval rate) for publications in accredited journals (comprising 84.52% of awarded units), 103.91 units (81% approval rate) for conference proceedings (comprising of 11.89% of awarded units) and 31.36 units (69% approval rate) for books and book chapters (comprising 3.59% of awarded units).

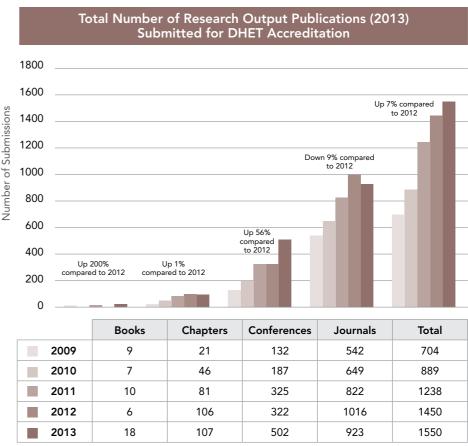
Submission Success Rate

Quality submission of 2012 publications to the DHET resulted in just over 96% of all research outputs being granted subsidy. Although the acceptance rate for conference proceedings decreased slightly, the overall trend for journals, books and chapters showed a positive improvement.



Research Outputs 2013

The University produced 1,550 research publications for DHET accreditation in 2013, which represents a 7% increase when compared to the 1,450 publications authored in 2012. Although the number of Journal articles received for accreditation declined, all the other output types reflect increases compared with 2012. Books increased by 200% (although off a very low volume), Chapters marginally by 1% and notably, Conference Proceedings by slightly over 56%. The chart below indicates the upward trend in the number of publications submitted for DHET accreditation for the 5-year period 2009 - 2013.



In 2013 journal articles accounted for 71% of the submission (down from 82% in 2012). Conference proceedings exhibited the greatest growth from 14% in 2013 to slightly over 20% in 2013.

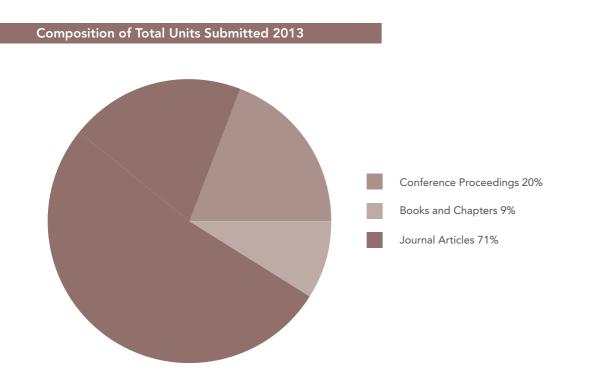


ALMOST DOUBLED FROM 5% IN 2012 TO 9% IN 2013

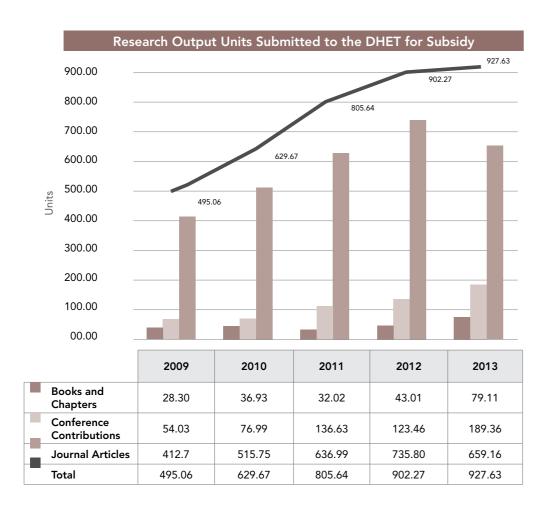
RESEARCH OVERVIEW

Journals	Total
542	704
649	889
822	1238
1016	1450
923	1550

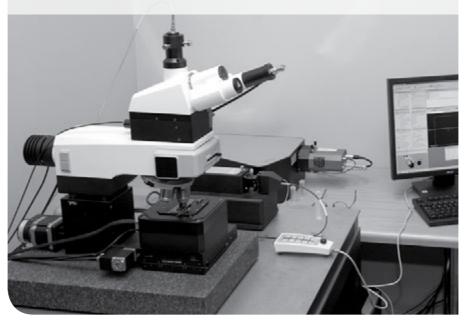


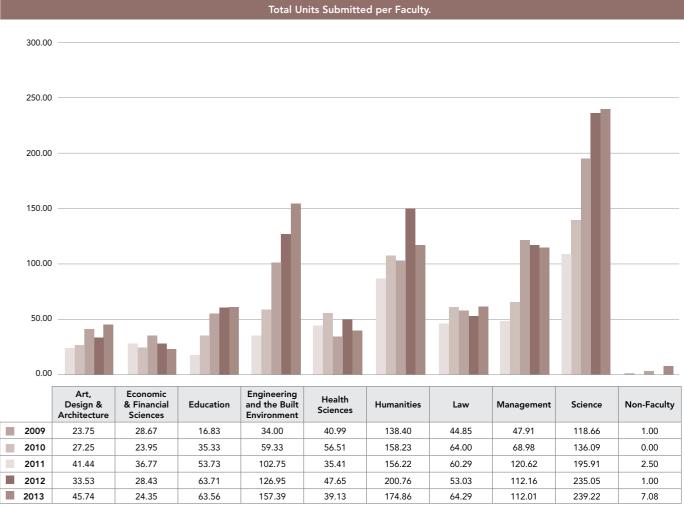


In terms of the number of units submitted to the DHET for subsidy between 2009 and 2013, UJ has shown a compound annual growth of 17% over the period, although as expected growth has slowed somewhat in 2013. In 2013 outputs totalling 928 units were submitted to the DHET, comprising 79 units for books and chapters, 189 for conference proceedings and 659 for journal articles.



This chart below shows the distribution of the units submitted per faculty. The Faculties of Science, Humanities and Engineering and the Built Environment remain the biggest contributors of research outputs, with the Faculties of Art, Design and Architecture, Education, Law and Management all demonstrating sustained growth over the period. The rest of the charts represent the distribution of the units per faculty per output type (journals, books and chapters in books and conference proceedings).

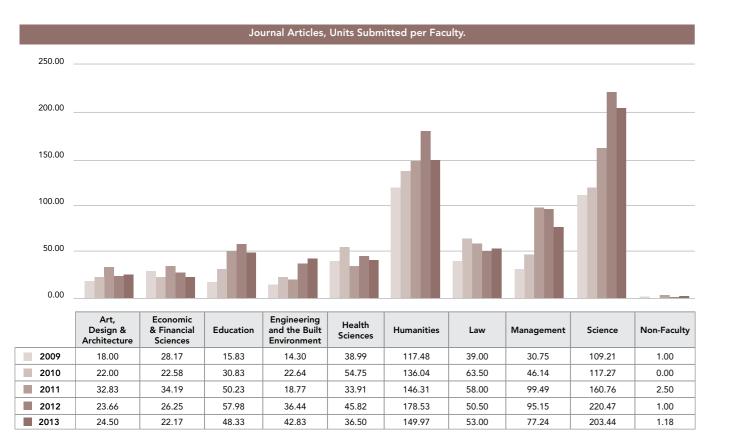


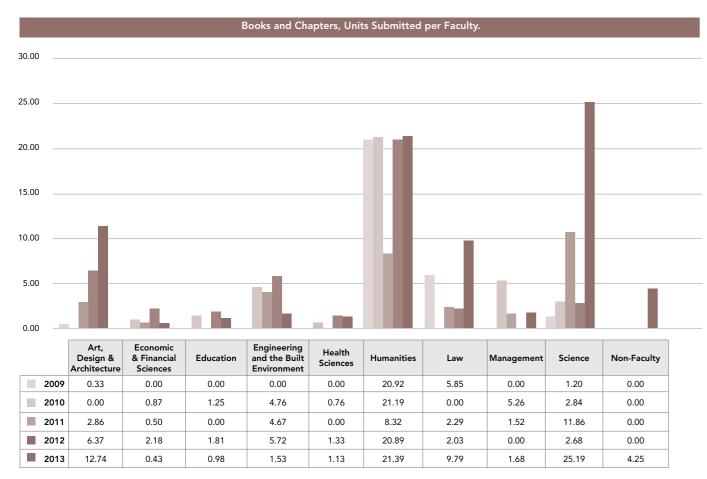


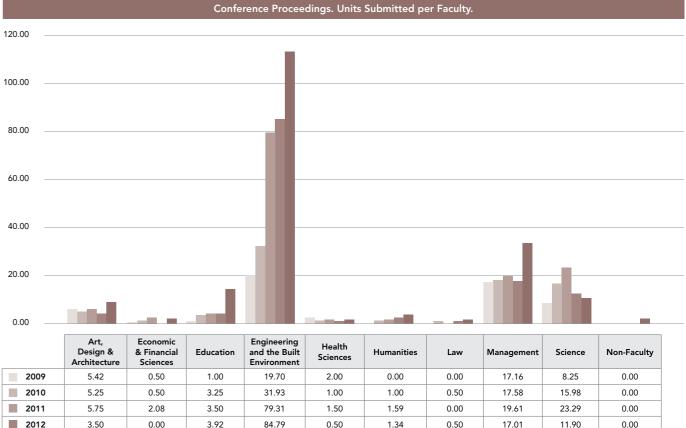


RESEARCH CENTRE

The series of charts below indicate the trend in the number of units submitted by each faculty per output type for the 5 year period 2009-2013.







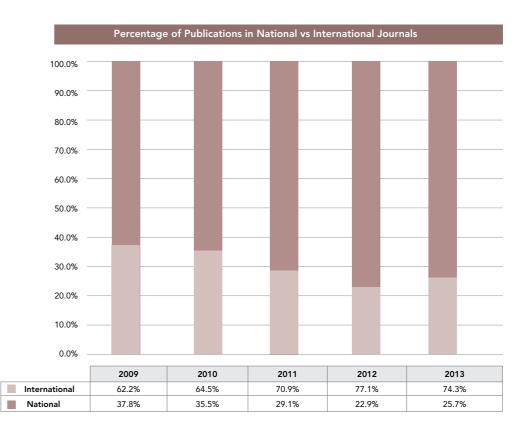
National versus International Journal Article publications

8.50

1.75

2013

Initiatives to increase the stature and impact of UJ's research output by promoting publication in international journals continue to yield results. Once again, the majority of publications



113.03

14.25

RESEARCH CENTRE

Health Sciences	Humanities	Law	Management	Science	Non-Faculty
2.00	0.00	0.00	17.16	8.25	0.00
1.00	1.00	0.50	17.58	15.98	0.00
1.50	1.59	0.00	19.61	23.29	0.00
0.50	1.34	0.50	17.01	11.90	0.00
1.50	3.50	1.50	33.09	10.59	1.65

(74.3) submitted for DHET accreditation in 2013 appeared in internationally recognised, peer-reviewed journals.

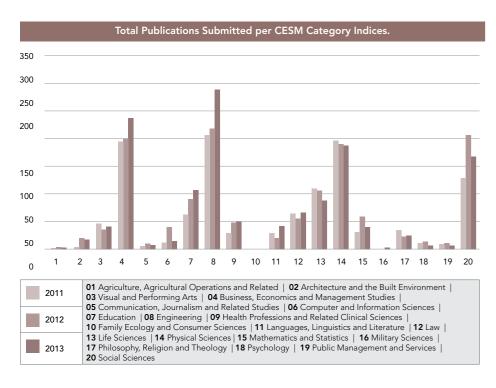
RESEARCH CENTRE

Distribution of Journal Articles as a Percentage Among the Journal Citation Indices. 70.0% 60.0% 50.0% 40.0% 30.0% 20.0% 10.0% 0.0%

	South African Journals	ISI Journals	IBSS Journals
2009	37.8%	53.4%	8.8%
2010	35.5%	55.7%	8.8%
2011	29.1%	59.8%	11.1%
2012	22.9%	63.6%	13.5%
2013	25.7%	61.2%	11.0%

Research Activity

The DHET uses the Classification of Educational Subject Matter (CSEM) codes to determine areas of research activity. Traditionally, UJ has produced relatively high volumes of research outputs in the fields of Business, Economics and Management Studies (CESM 04), Engineering (CESM 08), Physical Sciences (CESM 14) and Social Sciences (CESM 20). This trend continued in 2013, with significantly increased activity in Business, Economics and Management Studies (CESM 04), Engineering (CESM 08) and Education (CESM 07). Notable declines in activity occurred in the fields of Life Sciences (CESM 13) and Social Sciences (CESM 20).



Research Funding

The University relies on internal and external funds to support research. The main internal funding categories are scholarships and bursaries, top-up of NRF grants, research incentives (bonuses for obtaining NRF Rating, research output subsidies, VC research awards), University Research Committee (URC) research grants and equipment and equipment repairs/maintenance grants. Internal funds account for 22% of total research funding while the NRF and other external income accounts for 78%. In 2012 the figures were 28% and 72% respectively.

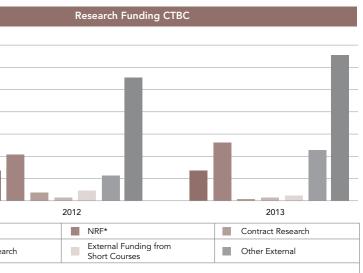
R23.15 in 2012 to R44.13 in 2013.

140 000 000.00	
120 000 000.00	
100 000 000.00	
80 000 000.00	
60 000 000.00	
40 000 000.00	
20 000 000.00	
0.00	
Internal Funds*	
International Re	sea
Total	

TOTAL RESEARCH FUNDING Increased by 20.7% From R111.10 million in 2012 to R131.71 million in 2013



In 2013, the University spent internal funds amounting to R28.60 million (excl. bursaries), up from 27.41 in 2012. External income from the NRF was R51.76 million up from R41.15 million in 2012. External income from contract research went down from R7.95 million in 2012 to R1.39 million in 2013. International income also reflected a downfall from R1.99 in 2012 to R1.89 in 2013. External income from other sources increased from



Global Impact and International Footprint

In 2013, the QS University Rankings benchmark listed UJ as being in the top 4% of universities worldwide, and UJ is currently ranked 6th in South Africa by the esteemed University Ranking by Academic Performance (URAP) ranking system. Over the past five years (2009-2013) data indexed by Scopus indicates that UJ's researchers have collaborated with over 1,100 institutions across the globe, and have co-authored almost 1,900 publications. The European Union represents UJ's single biggest collaboration partner (with 788 collaborations), followed by North America and the Asia Pacific region with 563 and 521 collaborations respectively.

This represents remarkable growth. Between 2009 and 2013 the number of UJ's publications in Scopus increased by 125% from 436 to 960. Of these, 53% featured collaboration with researchers outside of UJ; 37% having been coauthored internationally and 16% having been co-authored with other South African researchers. The internationally co-authored publications attracted an average of 7.8 citations per paper, while the locally co-authored publications were cited 2.4 times each on average.

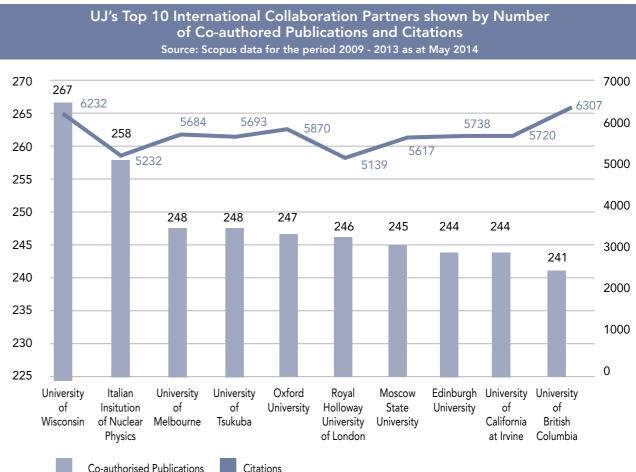
UJ is proud to have established research collaborations with some of the world's top universities and institutions. 62 UJ researchers collaborated on 247 publications with co-authors at the University of Oxford in the UK. 238 publications were co-authored by 56 UJ researchers with

their counterparts at Harvard University in the USA. The list of prestigious global collaborations goes on: MIT and the universities of Stanford, Duke and California in the USA, CERN in Switzerland, Moscow State University in Russia, Edinburgh University in Scotland and the Imperial Colleague in London in the UK, the universities of Sydney and Melbourne in Australia, and the University of Tokyo in Japan, among others.

UJ's international footprint - number of collaborating institutions per region



The chart below shows UJ's top 10 international collaboration partners based on the number of co-authored publications. Also indicated is the number of citations that the co-authored publications at each institution have attracted over the period.

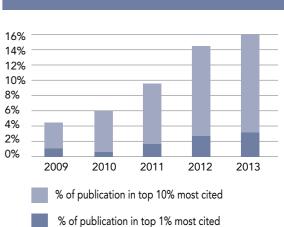


Co-authorised Publications

Citations

UJ's research collaboration with national institutions is also admirable. UJ has coauthored publications with South Africa's leading institutions, including the University of Cape Town, Wits University, Stellenbosch, Pretoria and the CSIR among others. Of particular note are the 430 publications co-authored by 233 UJ researchers with their counterparts at the University of the Witwatersrand. These publications have collectively attracted over 5,800 citations; almost as impressive as UJ's collaboration with the University of Oxford in the UK.

Publishing in top journals has yielded positive results. UJ's publications in the top percentiles of the most cited publications worldwide indicate an upward trend and steady improvement. In 2009, UJ had less than 1% of its publications in the top 1% most cited, and just under 5% of its publications in the top 10% most cited. By 2013 these figures had improved to almost 3% of UJ's publications in the top 1% most cited, and 16% of its publications featuring in the top 10% most cited publications worldwide.





Share of publications at the University of Johannesburg that are within the top 1% and 10% most cited publications worldwide

URC Recognised Research Entities

Research Centres

The University has 24 research centres, some within the faculties and others stand-alone entities.

- 1. Centre for Visual Identities in Art and Design, directed by Dr L Farber, part of the Faculty of Art, Design and Architecture. It works in the area of identity construction in contemporary and historical contexts, and visual practice visual representation and culture in the post-apartheid South African context.
- 2. Centre for Education Practice Research, directed by Prof E Henning, within the Faculty of Education. It has a particular specialisation in the ecologies of practice focusing on teacher development and early childhood development.
- 3. Centre for Education Rights and Transformation, directed by Prof S Vally, located within the Faculty of Education. It strives to make a positive contribution to knowledge creation and social transformation and to create synergy between scholarship, social action and community outreach.
- 4. **Industrial Electronics Technology Institute,** in the Faculty of Engineering and the Built Environment focuses on electronics, computers and communication.
- 5. **Telecommunications Research Group**, directed by Prof HC Ferreira, in the Faculty of Engineering and the Built Environment. It works on information theory focusing on channel coding in digital telecommunications, power electronics.
- 6. Stream Processing Research Group / Hypervision Research Laboratory, directed by Prof A Nel, in the Faculty of Engineering and the Built Environment. It works on large scale computing problems in engineering, image processing and computer vision.
- 7. **Minerals Processing and Technology Research Group,** directed by Prof A Mulaba, in the Faculty of Engineering and the Built Environment. It works on mineral processing: metal extraction, metal refining and minerals value-add.
- 8. **Photonics Research Group,** directed by Dr R Martinez, in the Faculty of Engineering and the Built Environment. It works on basic and applied research in photonics, fibre lasers and fibre sensors.
- Centre for Anthropological Research, directed by Prof T de Wet, in the Faculty of Humanities. It focuses on socio-cultural and biological anthropology: human origins, urban anthropology and indigenous knowledge.
- 10. **Centre for Social Development in Africa,** directed by Prof L Patel, in the Faculty of Humanities. It focuses on social development and developmental welfare.
- 11. **Centre for Sociological Research,** directed by Prof A Desai, in the Faculty of Humanities. It focuses on issues of identity, race and class, social movements and social unrest, migration and minorities, and different forms of social inequalities.

- 12. Laser Research Centre, directed by Prof H Abrahamse, in the Faculty of Health Sciences, works on wound healing, photodynamic cancer therapy and stem cell therapy.
- 13. Water and Health Research Unit, directed by Dr TG Barnard, in the Faculty of Health Sciences. It focuses on the relationship between water and human health, on improved general health and access to safe water and improved domestic hygiene and sanitation.
- 14. South African Institute for Advanced Constitutional, Public Human Rights and International Law, directed by Prof D Biltchitz, in the Faculty of Law. It focuses on constitutional, public and international law including socio-economic rights, and business and human rights.
- 15. **Institute of Transport and Logistics Studies,** directed by Prof J Walters, in the Faculty of Management. It works on transport, logistics and supply chain management.
- 16. **Centre for Catalysis Research,** directed by Prof J Darkwa, in the Faculty of Science, researches homogeneous catalysis, strongly underpinned by organic and organo-metallic synthesis, especially of new classes of ligands and catalyst precursors.
- Paleoproterozoic Mineralisation Research Group, directed by Prof F Viljoen, in the Faculty of Science. It focuses on Precambrian paleoenvironmental evolution.
- Sustainable Energy Technology Testing and Research Centre, directed by Prof H Annegarn, in the Faculty of Science, focuses on sustainable energy technologies.
- Centre for Aquatic Research, directed by Prof I Wagenaar, in the Faculty of Science. It carries out basic research in the aquatic environment and sustainable management of aquatic resources.
- 20. Centre for Nanomaterials Science, Research directed by Prof Arotiba, in the Faculty of Science. It focuses on the synthesis, functionalisation, characterisation and applications of carbon-based nanomaterials i.e. carbon nanotubes and strong composites.
- 21. Centre for Plant DNA-Barcoding, directed by Prof M van der Bank, in the Faculty of Science. The Centre's mission is to fill the knowledge gap and strengthen research frameworks for international, regional and inter-institutional co-operation in Africa, especially in the modern field of DNA technology for biodiversity science, such as DNA Barcoding.

The South African Research Chairs Initiative

SARChI aims to strengthen scientific leadership and research capacity in South African universities. The programme supports world-class scholars who are the focus of advanced research and training the next generation of research leaders in their fields. UJ has been awarded seven research chairs and in 2013 only one of these was not yet active.

African Diplomacy and Foreign Policy (Faculty of Humanities)

The SARChI Chair in African Diplomacy and Foreign Policy is the incubator of a research programme that places two concurrent challenges at the centre of its work. These are: the national challenge of honing and refining South Africa's national interests within its 'African Agenda'; and, the continental challenge of researching Africa's inter-state and international relations with a view to enhancing African agency on the world stage. Research conducted at the Chair focuses on four broad areas: Africa's evolving peace and security architecture; the operationalisation of the New Partnership for Africa's Development (NEPAD) and the African Peer Review Mechanism (APRM): the role of Africa's Regional Economic Communities (RECs); and, finally, Africa's strategic partnerships in the Global North and the Global South.



PROF CHRIS LANDSBERG



Education and Care in Childhood (Faculty of Education)

The aim is to assess factors of vulnerability and protection that are prevalent in the education and care of orphans and vulnerable children (OVC) as embedded in their families/caregivers, schools and communities. The ultimate goal is to utilise the findings of the targeted assessments to design focused interventions that can be implemented to reduce the factors of vulnerability and enhance protective factors in OVC through culturally appropriate, evidence-based, authentic interventions with their families/caregivers, schools and communities.

Research on support interventions from an early age can result in policy briefs that could lead to the holistic development of OVC that would inevitably be an asset to the South African society. The young are the future leaders and academics in society, so an investment in their education and care in childhood is an investment in the future economic, political and social stability of our country.

International Law (Faculty of Law)

The relevance of the Chair's research programme must be seen in the context of the post-1994 developments when South Africa rejoined the international community of states in various ways. The country has ratified a large number of multilateral treaties and has adopted national implementation legislation for several of these treaties. Under the new Constitution, the courts are also obliged to consider international law when interpreting the Bill of Rights. The country is a member of the African Union and plays a major role in the affairs of the Union, notably in peacekeeping operations in many parts of Africa. Moreover, South Africa is also a member of the Security Council of the United Nations and, in that capacity, is actively involved in matters affecting international peace and security. All of this has raised the importance of South Africa's understanding of and compliance with international law principles, especially in view of the country's history and its current role in Africa. International trade to and from South Africa has expanded and the country is now classified as an emerging economy under the BRICS group. In this context, the need for expertise in international law and relations is likely to expand across a wide range of institutions and topics and the research activities of the Chair and postgraduate supervision aim at responding to this need.

Geometallurgy (Faculty of Science)

The primary thrust of the Chair is to develop and apply geometallurgical methods to quantify the mineralogical and textural characteristics of ore bodies, ores, concentrates and successor products, with a view on improved metal recovery, in resource types relevant to the South African mining industry.

Indigenous Plant Use (Faculty of Science)

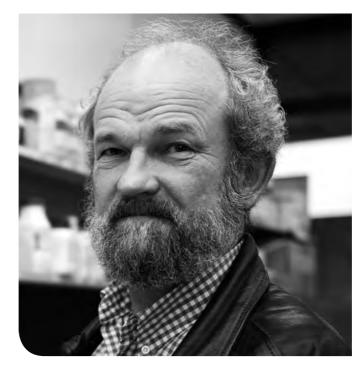
The Chair fulfils an urgent need to study, record, analyse and protect indigenous knowledge about the uses of plants, not only as an almost unlimited source of new ideas for future product and crop development, but also as a contribution to the botanical and cultural heritage of the country.

Social Change (Faculty of Humanities)

Prof Peter Alexander's Chair has a remit to study social change in South Africa, specifically agents of social change from below. Recent books have included Marikana: a Voice from the Mountain and Case to Answer (Alexander et al), Class in Soweto (Alexander et al) and Contested Transformation (edited by Marcelle Dawson and Luke Sinwell). Members of the unit have made a significant contribution to public debate, especially around South Africa's 'Rebellion of the Poor', for which research has been conducted by Alexander, Carin Runciman and Trevor Ngwane. The Chair plans to build on existing strengths to develop a niche area on Strikes, Protests and Revolution.









Top Left: Education and Care in Childhood (Faculty of Education) Prof Jace Pillay

Top Right: International Law (Faculty of Law) Prof Hennie Strydom

Left: Geometallurgy (Faculty of Science) Prof Fanus Viljoen

Bottom Left: Indigenous Plant Use (Faculty of Science) Prof Ben-Erik Van Wyk

Bottom Right: Social Change (Faculty of Humanities) Prof Peter Alexander



National Research Foundation (NRF) Ratings

The NRF operates a researcher-evaluation and rating system to promote research excellence and grow the country's research capacity. The ratings are based on the quality and impact of research outputs over an eight-year period. The rating process uses specialist panels made up of national and international reviewers, according to a hierarchical system.

A-rated researchers are those who are unequivocally recognised by their peers as being leading international scholars in their field for the high quality and impact of their recent research outputs.

The programme for identifying new potential applicants and helping

researchers to move from a lower to a higher rating, implemented in 2010, continued to yield good results. At the end of 2013, the University had 133 rated researchers (of which 6 were A-rated), up from 114 at the end of the previous year. This increase was mainly due to existing staff being rated rather than new staff joining the University.



Prof Nic Beukes is a geologist specialising in sedimentology and stratigraphy, working particularly on the origin of iron and nanganese ore deposits and the climatic environment on early earth.



Prof Hendrik Ferreira is an electrical engineer whose research interests are in digital communications and information theory, especially coding techniques. Applications include power line communications, video communications and networks.



Prof William Harris brings approaches from mathematics, physics and other areas to bear on his work in optometry, focusing particularly on ocular surgery and general understanding of vision.



Prof Michael Henning is a mathematician who specialises in graph theory, with a particular interest in domination theory in graphs.



Prof John Maina, a veterinarian by profession, researches how gas exchangers, which are key to how animal life adapts and evolves, have transformed under changing environmental conditions, particularly in extreme habitats.



Prof Thaddeus Metz is a philosopher who applies ideas derived from Kantian ethics to analyse and critique ubuntu and other African ethical systems

	Name	Faculty	Rat
1.	Beukes NJ Prof	Science	A
2.	Ferreira HC Prof	Engineering	A
3.	Harris WF Prof	Health Sciences	A
4.	Henning M Prof	Science	A
5.	Maina JN Prof	Science	A
6.	Metz TH Prof	Humanities	A
7.	Amory A Prof	Humanities	E
8.	Bilchitz DI Prof	Law	E
9.	Burnett-Louw C Prof	Health Sciences	E
10.	Connell B Prof	Science	E
11.	Dankelmann P Prof	Science	E
12.	Dubery IA Prof	Science	E
13.	Geldenhuys DJ Prof	Humanities	E
14.	Gunner L Prof	Humanities	E
15.	Hamilton L Prof	Humanities	E
16.	Hearne GR Prof	Science	E
17.	Hendrickx BCEJB Prof	Humanities	E
18.	Henning E Prof	Education	E
19.	Hofmann A Prof	Science	E
20.	Karataglidis Prof S	Science	E
21.	Kramers J Prof	Science	E
22.	Maluleke TS Prof	Humanities	E
23.	Marwala T Prof	Engineering	E
24.	Neels JL Prof	Law	E
25.	Rogerson C Prof	Management	E
26.	Schmahmann B Prof	Art	E
27.	Scott-Macnab D Prof	Humanities	E
28.	Sonnekus JC Prof	Law	E
29.	Steeb W-H Prof	Science	E
30.	Strydom AM Prof	Science	E
31.	Vale PCJ Prof	Humanities	E
32.	Van Reenen DD Prof	Science	E
33.	Van Wyk B-E Prof	Science	E
			<u> </u>
34.	Von Solms SH Prof	Science	E
35.	Abrahamse H Prof	Health Sciences	
36.	Ahmed FE Prof	Science	
37.	Annegarn HJ Prof	Science	
38.	Avenant-Oldewage A Prof	Science	C
39.	Bauer M Prof	Engineering	C
40.	Berman K Prof	Art	C
41.	Beukes SM Prof	Humanities	0
42.	Brits RM Dr	Science	C
43.	Cairncross B Prof	Science	C
44.	Cassim FHI Prof	Law	0
45.	Cloete GS Prof	Humanities	C
46.	Coetzee M Prof	Science	C
47.	Collins KJ Prof	Humanities	C

NATIONAL RESEARCH FOUNDATION

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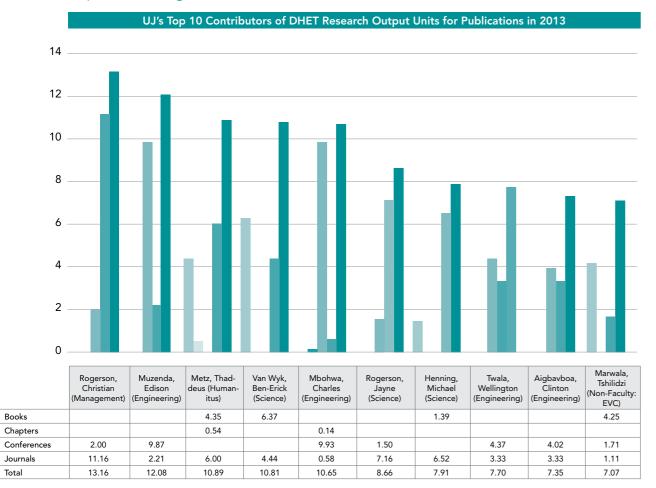
	Name	Faculty	Rating
48.	Conradie CJ Prof	Humanities	С
49.	Darkwa J Prof	Science	С
50.	De Bruin GP Prof	Management	С
51.	Doyle BP Dr	Science	С
52.	Dutton MF Prof	Health Sciences	С
53.	Ehlers EM Prof	Science	С
54.	Erlank N Prof	Humanities	С
55.	Freschi F Prof	Arts	С
56.	Frenkel R Dr	Humanities	С
57.	Gillan W Prof	Health Sciences	С
58.	Henderson W Prof	Humanities	С
59.	Hendrickx T Dr	Humanities	С
60.	Janse van Vuren JH Prof	Science	С
61.	Jansen van Vuuren B Prof	Science	С
62.	Jonck B Prof	Science	С
63.	Kabundi A Prof	Economics	С
64.	Knight Z Prof	Humanities	С
65.	Kotze NJ Prof	Science	С
66.	Landsberg C Prof	Humanities	С
67.	Lombard M Dr	Humanities	С
68.	Mallick K Prof	Science	С
69.	Mackenzie CH Prof	Humanities	С
70.	Mamba B, Prof	Science	С
71.	Mbohwa C Prof	Engineering	С
72.	Meijboom R Dr	Science	С
73.	Mestry R Prof	Education	С
74.	Mishra S Dr	Science	С
75.	Motala S Dr	Education	С
76.	Mouri H Prof	Science	С
77.	Mulaba A Prof	Engineering	С
78.	Myburgh CPH Prof	Education	С
79.	Msagati TAM Dr	Science	С
80.	Ngila C Prof	Science	С
81.	Olivier L Prof	Economics	С
82.	Osman A Prof	Art	С
83.	Ouahada K Prof	Engineering	С
84.	Patel L Prof	Humanities	С
85.	Perumal JC Prof	Education	С
86.	Pillay, J Prof	Education	С
87.	Poggenpoel M Prof	Health Sciences	С
88.	Pretorius G Prof	Humanities	С
89.	Prinsloo ARE Dr	Science	С
90.	Raubenheimer H Prof	Management	С
91.	Razzaque S Prof	Physics	С
92.	Roodt G Prof	Management	С
			C
93.	Rubin A Prof	Health Sciences	

NATIONAL RESEARCH FOUNDATION

	Name	Faculty	Rating
0.5			
95.	Smit CA Prof	Science	С
96.	Strydom HA Prof	Law	С
97.	Thomas A Prof	Management	С
98.	Tilney PM Prof	Science	С
99.	Uys JM Prof	Humanities	С
100.	Van der Bank FH Prof	Science	С
101.	Van der Bank M Dr	Science	С
102.	Verhoef G Prof	Economics	С
103.	Viljoen KS Prof	Science	С
104.	Wagenaar (Pieterse) GM Dr	Science	С
105.	Watney MM Prof	Law	С
106.	Broadbent AB Dr	Humanities	Р
107.	Akinlabi ET Dr	Engineering	Y
108.	Arotiba OA Dr	Science	Y
109.	Barnes B Prof	Humanities	Y
110.	Carleschi E Dr	Science	Y
111.	Conradie W Dr	Science	Y
112.	De Kock MO Dr	Science	Y
113.	Groenewald G Dr	Humanities	Y

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	Name	Faculty	Rating
114.	Hill C Dr	Management	Y
115.	Houreld NN Dr	Health Sciences	Y
116.	Jalama K Dr	Engineering	Y
117.	Joubert EJJ Dr	Science	Y
118.	Mhlanga SD Prof	Science	Y
119.	Millard D Prof	Law	Y
120.	Mishra A Dr	Science	Y
121.	Mpedi LG Prof	Law	Y
122.	Muller AJ Dr	Science	Y
123.	Nelwamondo FC Prof	Engineering	Y
124.	Njenga KN Dr	Management	Y
125.	Ntuli F Prof	Engineering	Y
126.	Oosthuizen GA Prof	Engineering	Y
127.	Shaw BS Prof	Health Sciences	Y
128.	Sitha S Dr	Science	Y
129.	Swart TG Dr	Engineering	Y
130.	Thwala D Dr	Engineering	Y
131.	Ukpere W Dr	Management	Y
132.	Van Dyk JC Dr	Science	Y
133.	Venter E Dr	Science	Y

Top-Publishing Researchers



Outstanding Researchers (VC Awards)

The research-related Vice-Chancellor's Distinguished Award for Outstanding Researcher of the Year and the Vice-Chancellor's Distinguished Award for the Most Promising Emerging Researcher of the Year were awarded as follows:

Vice-Chancellor's Distinguished Awards: Outstanding Researcher of the Year: Professor Michael Henning (Faculty of Science)

Professor Michael Henning obtained his Bachelor of Science (Honours) degree from the University of Natal (cum laude), followed by a Doctor of Philosophy in Graph Theory at the same university. He joined the University of Johannesburg as a Research Professor in May 2010, prior to that he was Full Professor at the University of KwaZulu-Natal. Before joining UJ he had been awarded several Visiting Professorships to Denmark, USA and France, this further supports his high standing stature among his peers.

He has received a number of prestigious awards, including the Foundation for Research Development Presidential Award, Vice-Chancellor's Award (University of Natal), Meiring Naude Medal (Royal Society of South Africa), Hall Medal (Institute of Combinations and its Applications) and the Award for Distinction (South African Mathematical Society). He has served on several committees (including the Faculty Research Committee). He has served on several editorial Boards of various scientific journals in different capacities such as co-Managing Editor (Graphs and Combinations), Advisory Editor (Discussiones Mathematicae Graph Theory) and as Managing Editor (Utilitas *Mathematica*). He has also served the scientific community as an external examiner for various PhD and MSc dissertations and acts as a regular referee for several scientific journals. He is also an elected fellow of the Institute of Combinations and its Applications. Topping it all is that Prof Henning is an NRFA Rated Researcher, hence a highly recognised intentional leader in his field as confirmed by his peers.

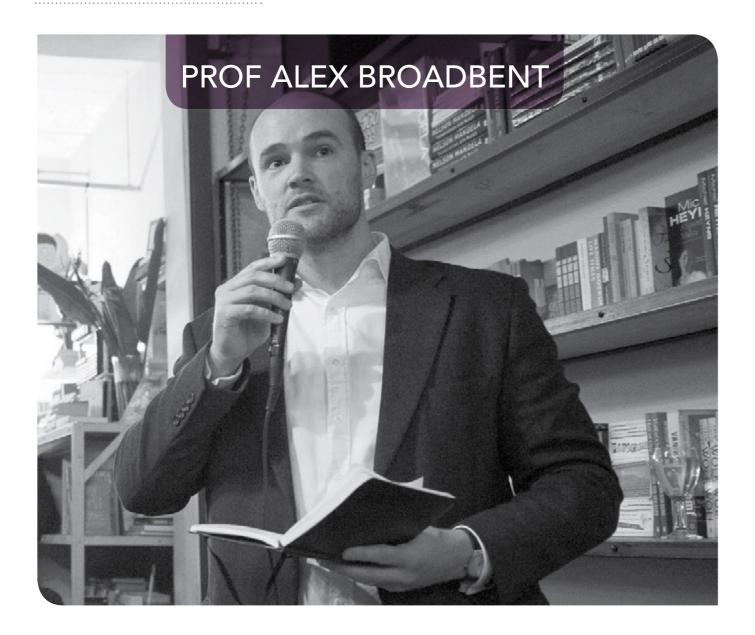
Since his arrival at UJ, he has graduated three PhD students and is currently supervising three more; two of his graduates then became his postdoctoral students in 2012. He has authored and co-authored over 330 publications, of which 72 were published since he joined UJ, with16 accepted and over 22 submitted. In 2012 his publication units were standing at 9.86. He previously contributed 4 book chapters and while at UJ he has co-authored a book in 2013 with Professor Yeo entitled *"Total domination in graphs"* (Springer Monographs in Mathematics).

He has been invited as one of the Principal Speakers in major conferences abroad. He

PROF MICHAEL HENNING

has also attended and presented papers at numerous conferences both locally and internationally. Between 2011 and 2012, he participated and read papers in five conferences in Germany, USA, Poland, France and Slovakia.

Professor Henning is undoubtedly a leading and outstanding researcher, with a passion for "domination theory in graphs."



Vice-Chancellor's Distinguished Awards: Most Promising Emerging Researcher of the Year: Prof Alex Broadbent (Faculty of Humanities)

Prof Broadbent received his PhD in 2008 from the University of Cambridge and joined UJ's Department of Philosophy as a Senior Lecturer in March 2011. He was promoted to Associate Professor in 2013, with the promotion backdated to December 2012. Prior to that, Prof Broadbent was an Affiliated Research Scholar in History and Philosophy of Science, at the University of Cambridge. He has been a visiting Professor, fellow and researcher to various universities including: the University of Vienna, University of Athens and the Brocher Foundation. His research area is specialisation in the

Philosophy of Epidemiology, causation, causal inference, scientific and statistical evidence in policy-making and law and causation in the law.

He has published over 14 journal articles, 1 book, and over 20 conference proceedings. He sits on two editorial boards, and has organised a number of workshops in the field.

Prof Broadbent has more or less singlehandedly established a new field of study, the philosophy of epidemiology, and has had a striking success persuading philosophers of science, epidemiologists, public health specialists and similar kinds of scholars to acknowledge it and engage with it. His first article on the topic, "Causation and Models of Disease in Epidemiology" has already achieved a wide readership.

He has also published important work in the philosophies of law, causation and

responsibility. Given the high Profiles, and competitive forums where the work has been published, and the positive reception it has received from scholars around the world, Prof Broadbent was awarded the prestigious 'P' rating by the NRF in 2013, an NRF President's award for 'young researchers who have demonstrated the potential of becoming future international leaders in their field'

Beyond the quality and impact of his publications, Prof Broadbent has advanced research in additional ways at the University of Johannesburg. He carries the highest postgraduate supervision load in the Department of Philosophy, and has introduced a number of new innovative research support tools such as the postgraduate handbook, and contributions to UJ's plagiarism policy. He is indeed the most promising researcher of the year.

The Postgraduate Centre

The Postgraduate Centre (PGC) was mandated in 2013 to deliver on an expanded vision that focused on all aspects needed to promote a postgraduate culture that would lead to UJ being a postgraduate destination of choice. The PGC has been through considerable change this year in order to deliver on its extended vision. Elements of other structures in the University that form a logical part of the extended vision of the Postgraduate Centre have been moved into the overall structure and synergies that exist have been explored. This has led to a sharper focus on strategic thrusts and activities in the PGC and the impact of this has been significant. Many of the processes that had been set in place will enable the PGC to increase that impact during 2014.

Structure, Capacity and Organisational Design

The importance of structuring and capacitating the PGC to deliver on its mandate as well as the physical positioning and facilities required to support UJ's vision was very clear in the national and international review done in 2012. The new PGC was formed by combining structures that already existed within the University. The integration of these structures and the development of the necessary processes within it have taken place during 2013 and these are mostly in place. The virtual integration with the key partners of the PGC in UJ and the alignment with faculties are also progressing well and the focus during 2014 will be to further this virtual integration and alignment. The establishment of the Postgraduate Association as a structure is an important step in ensuring effective communication and alignment between UJ and the postgraduate student body.

The organisational structure with the following portfolios:

- Research, Monitoring and Benchmarking;
- Research Development:
- Marketing and Information;
- Postgraduate Funding Support (PFS); and
- Interdisciplinary studies and qualifications.

Although the physical positioning and facilities have not been fully resolved, the PGC and Library have successfully undertaken the Research Commons initiative and contributed to the establishment of a DFC Research Commons. It is still unlikely that an ideal situation regarding the physical positioning and facilities of the PGC will be possible in the short term but a solution for the medium term will need to be considered to enable the PGC to utilise the synergy fully within it to support the postgraduate students in a comprehensive and integrated manner.

Aim and specific delivery areas

The overarching aim of the extended PGC is to:

- Fulfil a meaningful role towards the successful delivery against UJ's strategic aims;
- Support postgraduate students in the most comprehensive way possible within current constraints, in order to improve quality, encourage enrolment, increase progress and lower throughput;
- Provide resources and facilities to postgraduate students and to UJ staff involved in the supervision of these students;
- Liaise with role players and faculties to ensure efficiency and effectiveness in addressing identified needs;
- Collect and analyse up-to-date data regarding the Profile, progress and concerns of postgraduate students and postgraduate studies in general;
- Provide information (based on analysis and benchmarking) to the University that can inform administrative decisions and interventions regarding postgraduate students and postgraduate study;
- Facilitate access to external and internal funding opportunities for postgraduate students;
- Provide, develop and support marketing and information supply regarding all aspects of postgraduate studies and opportunities at UJ;
- Develop and facilitate new areas within the University such as interdisciplinary studies;
- Develop key research led postgraduate gualifications for delivery in the PGC; and Execute research, and facilitate knowledge generation regarding all aspects of
- postgraduate studies as well as key interdisciplinary areas.

PGC Delivery and Impact

The PGC delivery during 2013 has mostly been done as an integrated structure. However, in most cases the various units within the PGC had to develop the processes and capacity to deliver against its aims as well as to focus on delivery during the year. An additional concern was that the budget that was available to the integrated PGC was not done against the activities required to deliver against the new mandate.

The key activities in 2013 included:

- Support postgraduate students in the most comprehensive way possible, within the current constraints;
- Establish much better monitoring of the Profile of the postgraduate students through quantitative analysis;
- Ensure transparency and equal access to the various opportunities and support available regarding postgraduate matters;
- Design and deliver mechanisms for developing the competencies and skills needed for postgraduate studies and supervision;
- Continue with the management of internal and external funding opportunities, and explore new opportunities;
- Undertake more benchmarking, research and knowledge generation regarding all aspects of postgraduate studies at UJ;
- Develop new areas such as interdisciplinary studies and the delivery of qualifications;
- Launch a holistic information and access mechanism; and
- Work with UJ's library in the provision of a research commons, which will include training and development areas.

During 2013 the delivery and impact by the PGC has been significant, especially given the fact that the focus of the various portfolios had during the integration process. The expanded mandate of the PGC has been formulated to talk directly to UJ's Strategic Thrusts. The high level aspects of this delivery will the specific delivery by the various portfolios of the PGC will be discussed in further sections of the report.

Research Capacity Development

In terms of what in the 2012 report was referred to as 'training and development', 2013 was a watershed year for the PGC. It saw training interventions develop into a much larger portfolio, which became, effectively, a department within the PGC, Research Capacity Development (RCD), headed by Dr Pia Lamberti. The department was established through the formal integration of two previously separate initiatives, one focusing on the development of the research and research supervision competence of academic staff (previously managed from the Centre for Professional Academic Development) and the other focusing on research training for postgraduate students, managed from within the PGC. The integration process has enabled the streamlining of resources and focusing of strategy necessary to address the need to improve postgraduate retention and throughput effectively, strengthen postgraduate supervision, and increase research productivity.

Research Capacity Development (RCD) activities and events offered in 2013 were aimed primarily at students and staff members who could be classified as 'emerging researchers'. Support in the form of consultations with Postgraduate Writing Fellows housed in UJ's Writing Centre were funded by the PGC. Workshops for postgraduate students aimed to 'develop fundamental scholarships skills'. Given the target for 2020 that 60% of academic staff members should have doctoral qualifications, the special focus on supporting lecturers to obtain doctoral gualifications through the SANTRUST Pre-doctoral Proposal Development Programme saw 46 staff members from the first two cohorts celebrating successful completion of the course, while 16 staff members joined the third cohort, which ended in March 2014. A total of 60 research capacity development workshops were offered over the course of the academic year. The overall number of participants was 1 037, of whom 582 were staff members, and 455 of whom were postgraduate students. Anonymous feedback showed that the majority of participants (75%) found the interventions 'very useful'.

The annual Postgraduate Symposium, held on 18 October 2013 at the School of Hospitality and Tourism, provided postgraduates with the opportunity to present their research to a constructively critical audience. A total of 54 oral and poster presentations were made to an audience of 102 participants from all nine faculties. Following on from the 2012 event, which lead to the establishment of a Postgraduate Student Association (PGA), in 2013 the Executive Committee of the PGA increased awareness of their mission to create an academic and social postgraduate student community to enable students to network.

As an institutional priority, postgraduate supervision received dedicated attention. 'Ethics, Research and Supervision: Matters of Truth and Justice?' was the topic of the Postgraduate Supervision Forum meeting on 15 November. Professor Hennie Lötter, from the Department of Philosophy, gave a stimulating presentation and led discussion of the ethical challenges inherent to supervision. A total of 16 supervisor development workshops (including workshops held for the supervisors of SANTRUST participants) were held on issues such as English as an additional language for postgraduate students and guiding students in the use of their research designs. More significantly, UJ was one of the first institutions to take up the offer of a course, 'Strengthening Doctoral Supervision', which was funded externally by NUFFIC. The course, which carries 30 credit points at NQF-level level 8, was attended by 25 participants who were nominated by their Deans.

Postgraduate Marketing and Information

The purpose of the PGC's marketing and information portfolio is to carry out the functions associated with marketing of the Centre PGC and through partnership with the Advancement Division, Postgraduate marketing for the University, and to provide information about postgraduate opportunities at UJ. It provides information to staff, postdoctoral fellows and postgraduate students as well as to potential postgraduate students and postdoctoral fellows.

Areas of activity include improving the visibility and recognisability of the Postgraduate Centre through re-branding and active marketing for the Centre itself as well as implementing awareness campaigns to help stimulate interest in postgraduate studies translating to improved postgraduate enrolments. In May 2013 The PGC undertook to raise awareness around Postgraduate studies through the Postgraduate Awareness Month and Postgraduate Day hosted by the PGC, the first event of this nature focused solely on highlighting the importance and benefits of postgraduate studies at the University of Johannesburg.

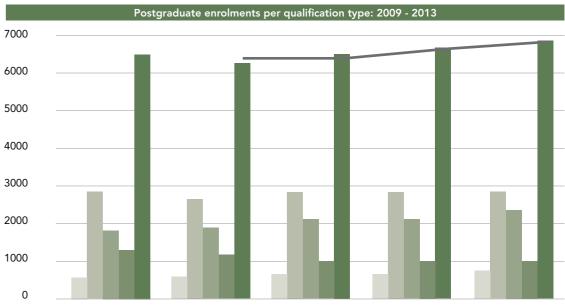
Partnering with UJ's Brand and Marketing team, under the Advancement Division, it has been undertaken to completely restructure the UJ postgraduate website to aid better usability and access, implement the use of and consistent presence on social media platforms to aid in improving the reach of postgraduate targeted communications.

The use of conventional media marketing, such as print advertising, broadcast media and other opportunities are utilised to raise awareness of issues that are pertinent to postgraduate issues; and the improvement of the marketing and information dissemination of current projects and support offered to both staff and students.

Enrolled Postgraduate Students

The figure top right below reflects postgraduate enrolment per qualification type over five years, 2009 - 2013. Over this period doctoral enrolments reflect 6.12% and master's enrolment a 6.43% growth over five years. Postgraduate diplomas and certificates reflect a negative growth of -7.64%.

The percentage change over 2012 and 2013 in doctoral enrolments reflect an positive and upward trend of 7.42% and for master's 7.60%. Overall growth in postgraduate enrolment over the 5-year period is 1.20% and from 2012 to 2013, an increase of 2.16%.



	2009	2010	2011	2012	2013
Doctoral	559	579	629	660	710
Honours	2813	2653	2830	2856	2827
Master's	1788	1854	2039	2132	2297
Other Postgraduate	1304	1099	955	969	949
Total	6464	6185	6453	6617	6783



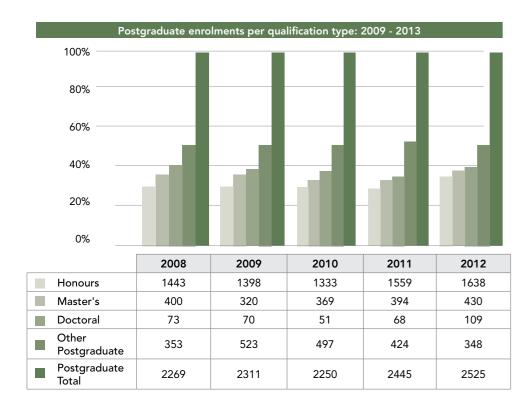


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POSTGRADUATE CENTRE



POSTGRADUATE CENTRE



Postgraduate output per qualification type

The figure on the right reflects postgraduate enrolment per qualification type over five years, 2009 – 2013. Over this period doctoral enrolments reflect 6.12% and master's enrolment a 6.43% growth over five years. Postgraduate diplomas and certificates reflect a negative growth of -7.64%.

The percentage change over 2012 and 2013 in doctoral enrolments reflect a positive and upward trend of 7.42% and for master's 7.60%. Overall growth in postgraduate enrolment over the 5 year period is 1.20% and from 2012 to 2013, an increase of 2.16%.

Postgraduate Research Funding

In 2013 the total postgraduate funding disbursed at the University was R73.5m. Of this, R55.4m was administered by the PGC's Postgraduate Funding Support (PFS) section with the main sources being the NRF and the University Research Committee.

The NRF funding provided to students included free-standing, grant holder-linked and block grant awards and supported 480 students, with R25.3m being disbursed. The URC funding comprised various postgraduate scholarships as well as the central postdoctoral Research Fellow funding. The total disbursement for URC scholarship funding was R30.1m which provided support to over 1,872 students. One of the URC scholarship programmes, the innovative UJ Honours programme which was designed to facilitate Honours enrolments in specific faculties, supported 572 students (R13m).

The URC funding contribution towards postdoctoral fellowships was R8.2m. This supported an increased number of postdoctoral research fellows (PRDFs), with these registrations reaching just over 69 for the first time at UJ. Continued strides were made to support the increasing number of PDRFs. Most notable was the implementation of a postdoctoral security protocol as well as a new, more streamlined and more cost effective medical aid product and process. At the end of 2013 the PFS embarked on a Global Excellence Stature to increase the number of postdocs over a five-year period, aim to be the leading Institution.

By the end of 2013, the number of Next Generation Scholarship holders who had completed their degrees was made up of 32 master's students and 11 doctoral students, with 8 students already employed by faculties. In addition, the PGCs Funding Support Section administered the process for the selection of the prestigious Mandela-Rhodes Foundation (MRF) Scholarships; one has been awarded a Master's MRF scholarship for 2013 in the Faculty of Management.

The PFS is responsible for driving the supervisor-linked bursaries (SLB), the main-funding provided to master's and doctoral students. The demand of the supervisor-linked bursaries increase on a yearly basis.







FACULTY OF ART, DESIGN AND ARCHITECTURE Executive Dean: Prof Federico Freschi



We emphasise sustainability, relevance and an engagement with the real world in our programmes, and connect actively with the dynamism, creativity and diversity of Johannesburg in promoting new approaches to design education that support the University's vision of being an international university of choice, anchored in Africa and dynamically shaping the future. The FADA flagship research centre, Visual Identities in Art and Design, is beginning to establish itself as a national thought leader in promoting practice led research, and continues to contribute significantly to the research output of the Faculty. Overall, the Faculty made excellent progress in 2013, while at the same time being responsive to the changing strategic imperatives of the University.

Preliminary figures indicate that in 2013 FADA produced a total of 45.74 subsidy units, compared to 35.48 subsidy units in 2012, 40.78 subsidy units in 2011 and 27.75 in 2010. This output included 24.5 journal article units, 8.5 conference proceeding units and 12.74 book and chapter subsidy units. This is a 36% increase in subsidy units compared to the 35.48 units produced in 2012. During the course of the year, members of staff participated in and curated numerous exhibitions, and completed 15 design projects. Two international conferences and a number of local conferences were organised. The Research Centre, Visual Identities in Art and Design (VIAD), exceeded all proposed outputs and performance indicators.

FACULTY RESEARCH REPORTS



– BOOKS –

Janse Van Rensburg Wilhelm WA. "High Printing. The Woodcuts, wood engravings, lino-cuts and metal cutouts of Walter Battis". 2013. Gallery AOP. ISBN. 978-0-620-58955-0

Janse Van Rensburg Wilhelm WA. "Transnational Modernism: The Gutai Art Association, Christo Coetzee, and the Legacy of Abstract Expressionism in South Africa". 2013. UJ Arts, \UJ Art Gallery. ISBN. 979-0-804000-07-8

Schmahmann Brenda BL. "Picturing Change: Curating Visual Culture at Post-Apartheid Universities". 2013. Wits University Press. ISBN. 978-1-86814-580-5

Stern Nathaniele N. "Interactive Art and Embodiment: The Implicit Body as Performance". 2013. Gylphi Limited. ISBN. 978-1-78024-009-1

- CHAPTERS -

Breytenbach Amanda A. "South African public interiors: redressing the past, crafting the present" in Reinventing Architecture and Interiors: A Socio-Political View on Building Adaptations. 2013. Libri Publications. ISBN. 978-1-907471-73-5

Buys Anthea AH . "Eyeing others" in Mikhael Subotzky: Retinal Shift. 2012. Steidl. ISBN. 978-3-86930-539-4

Schmahmann Brenda BL. "Stitched-up women, pinned-down men: gender politics in Weya and Mapula needlework, Zimbabwe and South Africa" in African Art and Agency in the Workshop. 2013. Indiana University Press. ISBN. 978-0-253-00749-0

- CONFERENCE PROCEEDINGS -

Bennett Jonathan JJ and Osman Amira AOS. "Critical engagement in informal settlements: lessons from the South African experience". 19th CIB World Building Congress: Construction and Society. 2013. Queensland University of Technology. ISBN.978-0-9875542-1-5

Bradnum Christopher CMS and Duff CA. "Design of a domestic water heating system to save water and electricity". 21st Conference on the Domestic Use of Energy: International Conference Towards Sustainable Energy, Solutions for the Developing World (DUE). 2013. Cape Peninsula University of Technology. ISBN. 978-0-9814311-7-8

Breytenbach Amanda A and Hankinson M. "Barriers that impact on the implementation of sustainable design". Cumulus Conference: Northern World Mandate. 2013. Aalto University, School of Arts, Design and Architecture. ISBN.978-952-60-0054-1

Breytenbach Amanda A. "Cultivating sustainable thinking through employing a studentcentered learning approach". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

Campbell Angus AD. "Designing for development in Africa: a critical exploration of literature and case studies from the disciplines of industrial design and development studies". Gaborone International Design Conference: Design Future: Creativity, Innovation and Development. 2013. Cambridge Scholars Publishing. ISBN. 978-99968-0-019-1

Campbell Angus AD. "Participatory technology design for urban agriculture in South Africa". 14th IFIP TC13 Conference on Human-Computer Interaction: Urban Agriculture: A Growing Field of Research. 2013. INTERACT 2013. ISBN. 978-0-620-58534-7

Fenn Terence TK and Hobbs Jason JR. "Applying user journey design to resolve complex design problems". Gaborone International Design Conference: Design Future: Creativity, Innovation and Development. 2013. Cambridge Scholars Publishing. ISBN. 978-99968-0-019-1

Fenn Terence TK and Hobbs Jason JR. "Preparing undergraduate design students for complexity: a case study of the Johannesburg Art Gallery Project". Gaborone International Design Conference: Design Future: Creativity, Innovation and Development. 2013. Cambridge Scholars Publishing. ISBN. 978-99968-0-019-1

Gill Andrew A. "Positioning 'constructivist' academic research into project-based pedagogical design studies for fourth year interior design degree programmes". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

Groenewald Marlize M. "Introducing De Jong: reflections upon reconstructing the life and practice of a white English-speaking designer". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN 978-1-77012-131-7

Harvey Reshma RN. "Design process of novice fashion design students: an educator's reflective analysis". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

Harvey Reshma RN. "Sustaining Johannesburg's fashion design incubators: the role of fashion design education". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

Hobbs Jason JR and Fenn Terence TK. "Navigating indeterminacy through the application of user journeys". 03rd International Conference on Design, Development & Research (DDR). 2013. Design, Development & Research Conference. ISBN. 978-9988-1-8513-8

Meiring Elzab E. "Praxis of design education to the current digital culture student". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

Prinsloo Ilse I. "Embracing a culture of active citizenship in interior design education". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7 Ramdass Kemlall KR. "Alignment strategies for the clothing industries in SA: lessons learned". Portland International Centre for Management of Engineering and Technology: Technology Management in the IT-Driven Services. 2013. PICMET. ISBN. 1-890843-28-8

Ramdass Kemlall KR. "The implementation of ergonomics as a sustainable competitive advantage in the clothing industry". Portland International Centre for Management of Engineering and Technology: Technology Management in the IT-Driven Services. 2013. PICMET. ISBN. 1-890843-28-8

Van Zyl Christa CE. "Supporting a community through design: Melville, Johannesburg". DEFSA Conference: Design Cultures: Encultured Design. 2013. Design, Education Forum of Southern Africa (DEFSA). ISBN. 978-1-77012-131-7

- JOURNALS -

Bajorek Jennifer. "Decolonizing the archive: the view from West Africa". APERTURE (ISI). 2013. Vol. 210

Berman Kim KS. "Students as agents of change: engagement between university-based art students and alternative spaces". Third text: critical perspectives on contemporary art and culture (IBSS). 2013. Vol. 27 No. 3

Bradnum Christopher CMS. "The manica charcoal stove project". Journal of Energy in Southern Africa (ISI). 2013. Vol. 24 No. 2

Buntman Barbara BI. "Memorialising David Webster". SOUTH AFRICAN HISTORICAL JOURNAL (ISI). 2013. Vol. 65 No. 3

Buys Anthea AH. "Digital art and the analogue undead". Art South Africa (DHET). 2013. Vol. 11 No. 3 $\,$

Corrigall Mary ME. "Sutherland: between earth and sky". Art South Africa (DHET). 2013. Vol. 12 No. 1

Falkof Nicole N. "A "bloody epidemic": whiteness and family murder in late apartheid South Africa". Safundi: journal of South Africa and American studies (IBSS). 2013. Vol. 14 No. 3

Freschi Federico F. "Collecting and curating: 'a cultural icon and a beacon of light in the inner city': the role of the Friends of the Tatham Art Gallery (FOTAG), Pietermaritzburg, in ensuring the gallery's success". De Arte (DHET). 2013. Vol. 88

Gers Wendy WA. "Hiatus in Harare". Art South Africa (DHET). 2013. Vol. 12 No. 2

Gers Wendy WA. "PARIS". Art South Africa (DHET). 2013. Vol. 12 No. 1

Gers Wendy WA. "TAIPEI : an atomic mushroom encrusted with religious effigies". Art South Africa (DHET). 2013. Vol. 12 No. 1

Gurney Kim KJ. "Under fire: ethnography of a flame". Critical Arts: A Journal of South-North Cultural and Media Studies (DHET). 2013. Vol. 27 No. 4

Hobbs Philippa PA and Rankin E. "Word and image in dialogue: Peter Clarke's collages and Fan series". Image and Text (DHET). 2013. Vol. 21

Mdanda Sydney SDS. "The emancipation of the African voice in the curation of the //hapo exhibition at Freedom Park". South African Museums Association Bulletin (DHET). 2013. Vol. 36

Murinik Tracy T and Freschi Federico F. "Collecting and the market for African art". Art South Africa (DHET). 2013. Vol. 12 No. 2

Peter Judy J. "Gender and eco-feminism - Rita Tasker". CERAMICS-ART AND PERCEPTION (ISI). 2013. Vol. 91

Pretorius Jacqueline JD. "The visual representation of masculinities in Huisgenoot Tempo magazine". Communicatio: South African Journal for Communication Theory and Research (DHET). 2013. Vol. 39 No. 2

Rousell Claire C. "Collecting the landscape". De Arte (DHET). 2013. Vol. 88

Schmahmann Brenda BL. "A material paradise: reworking the Ghent altarpiece in the Keiskamma art project's creation altarpiece". De Arte (DHET). 2013. Vol. 88

Sey James JA. "Sublimation and reversibility: technologies of vision, the x-ray, and looking at paintings". Image and Text (DHET). 2013. Vol. 22

Siegenthaler Fiona. "Towards an ethnographic turn in contemporary art scholarship". Critical Arts-South-North Cultural and Media Studies (ISI). 2013. Vol. 27 No. 6

Stephen Janine JJ. "The Ruperts and the Karoo town". Art South Africa (DHET). 2013. Vol. 11 No. 4 $\,$

Tully Ann-Marie AP. "Actions speak louder than words in 'the Alice sequence': a series of exhibitions by Wilma Cruise". De Arte (DHET). 2013. Vol. 88

Van der Watt Liese. "Africa outside the ghetto". Art South Africa (DHET). 2013. Vol. 12 No. 2

Von Veh Karen KE. "Post-apartheid masculinity reviewed through the lens of Christian iconography: The work of Conrad Botes and Lawrence Lemacana". Communication : South African Journal for Communication Theory and Research (DHET). 2013. Vol. 39 No. 2

FACULTY OF ECONOMIC AND FINANCIAL SCIENCES Executive Dean: Prof Amanda Demosey



Measures in 2013 aimed at creating an environment that would stimulate research and scholarly activity included: four public lectures; appointment of visiting Professors; an accredited journal (to engage with the broader research community); internal research funding and other incentives; and various capacity development initiatives conducted particularly at departmental level. Activities in respect of the Faculty's three research/ training centres have started to gather momentum and, in turn, contribute to the research environment. The centres include: the Centre for Competition Regulation and Economic Development (CENLED), and the South African Accounting History Centre (SAAHC).

In 2013, preliminary subsidised publications amounted to 32 items, which translate to 24,49 units, comprising 21,24 journal article units, 0.43 book units and 2,82 units in respect of conference proceedings. This represents a13,9% decrease relative to 2012. The nature and level of research and scholarly activity in the Faculty is evident.

Doctoral Graduations 2013

Cakir, Mustafa (PhD Economics), Thesis: South Africa's economic integration with BRIC countries Supervisor: Prof A Kabund and Co-supervisor: Prof G van Zyl

Roos, Christiaan Johannes (DCom Auditing) Thesis: Governance responses to hacking in the banking sector of South Africa: an exploratory study, **Supervisor:** Prof TL Voogt and **Co-supervisor:** Prof B Marx

RESEARCH OUTPUTS 2013

- CHAPTERS -

Tregenna Fiona FM. "De-industrialization and re-industrialization" in Pathways to Industrialization in the Twenty-First Century: New Challenges and Emerging Paradigms. 2013.

- CONFERENCE PROCEEDINGS -

Mudzamiri Kizito K and Smith Nicolaas NJ. "Determination of net interest margin drivers for South African Banks". 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience. 2013. Oxford University Press. ISBN. 978-0-19-040801-5

Neuhaus Taryn Antonia TA and Nel Andre AL. "Modeling the civil litigation process in South Africa using game theory". International Multi-Conference on IT, Computers, Electronics and Mechanical Engineering & International Multi-Conference on Education, Law, Environment and Metallurgical Engineering. 2013. Planetary Scientific Research Centre (PSRC). ISBN. 978-93-82242-50-5

Rhodes Nadia N. "The future of accounting education with the integration of ICT". International Conference: The Future of Education. 2013. Libreriauniveritaria.it.edizioni. ISBN 978.88.6292-386-6

Rhodes Raymond RJ. "Lecturers changing andragogy during implementation of integrated information and communication technology (IICT) in accounting education". International Conference: The Future of Education. 2013. Libreriauniversitaria.it.edizioni. ISBN. 978-88-6292-386-6

- JOURNALS -

Ackermann Christo C and Fourie H. "The effect of COSO control environment attributes on the effectiveness of internal control: an internal auditor perspective". Southern African Journal of Accountability and Auditing Research (DHET). 2013. Vol. 14

Ackermann Christo C and Fourie H. "The impact of COSO control components on internal effectiveness: an internal audit perspective". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 2

Blaauw Phillip PF and Pretorious Anmar. "The determinants of subjective well-being in South Africa - an exploratory enquiry". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 1

Blaauw Phillip PF, Botha Ilse I, Schenk R and Schoeman Christiaan CH. "Happy in the informal economy?: a case study of well-being among day labourers in South Africa". International business and economics research journal (IBSS). 2013. Vol. 12 No. 6

Bonga-Bonga Lumengo L. "Assessing the stock market wealth effect in South Africa". African finance journal (IBSS). 2013. Vol. 15 No. 1

Bonga-Bonga Lumengo L. "Transmission of volatility shocks between the equity and foreign exchange markets in South Africa". Journal of applied business research (IBSS). 2013. Vol. 29 No. 5

Bonga-Bonga Lumengo L and Hoveni Jamela JB. "Volatility spillovers between the equity market and foreign exchange market in South Africa in the 1995-2010 period". SOUTH AFRICAN JOURNAL OF ECONOMICS (ISI). 2013. Vol. 81 No. 2

De Lange Hester HM, Marx Benjamin B and Van der Watt Alexander A. "Sustainability in education: an evaluation of a new teaching and learning strategy in chartered accountancy studies - a student perspective". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 2

 Wright, Cheryl Ann, Thesis: Conversations about doing hope. A narrative therapeutic journey

 Duncan Andrew AS and Kabundi Alain AN. "Domestic and foreign sources of volatility spillover to

 South African asset classes". ECONOMIC MODELLING (ISI). 2013. Vol. 31

Kabundi Alain AN and Cakir MY. "Business cycle co-movements between South Africa and the BRIC countries". APPLIED ECONOMICS (ISI). 2013. Vol. 45 No. 33

Kabundi Alain AN and Schaling Eric. "Inflation and inflation expectations in South Africa: an attempt at explanation". SOUTH AFRICAN JOURNAL OF ECONOMICS (ISI). 2013. Vol. 81 No. 3

FACULTY RESEARCH REPORTS

Kalonda-Kanyama Isaac I and Barnett WA. "Time-varying parameters in the almost ideal demand system and Rotterdam model: will the best specification please stand up?". APPLIED ECONOMICS (ISI). 2013. Vol. 45 No. 29

Kalonda-Kanyama Isaac I, Akwasi Nti-Addae, Asiedu Elizabeth and Ndikumana Leonce. "Access to credit by firms in Sub-Saharan Africa: how relevant is gender?". AMERICAN ECONOMIC REVIEW (ISI). 2013. Vol. 103 No. 3

Le Roux Corlise CL and Els Gideon G. "The co-movement between copper prices and the exchange rate of five major commodity currencies". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 3

Makhaya Gertrude and Roberts Simon SJ. "Expectations and outcomes: considering competition and corporate power in South Africa under democracy". Review of African Political Economy (ISI). 2013. Vol. 40 No. 138

Marx Benjamin B and Van der Watt Alexander A. "Sustainability in accounting education: an analysis of the teaching thereof at accredited South African universities". SA Journal of Accounting Research (DHET). 2013. Vol. 27 No. 1

Mncube Liberty L. "On market power and cartel detection: the South African flour cartel". Studies in Economics and Econometrics (DHET). 2013. Vol. 37 No. 3

Mncube Liberty L. "Strategic entry deterrence: pioneer foods and the bread cartel". Journal of Competition Law & Economics (ISI). 2013. Vol. 9 No. 3

Mohapi Alphons Tjhaka AT and Botha Ilse I. "The explanatory power of the yield curve in predicting recessions in South Africa". International business and economics research journal (IBSS). 2013. Vol. 12 No. 6

Muteba Mwamba John JW. "On the persistence of selectivity and market timing skills in hedge funds". International business and economics research journal (IBSS). 2013. Vol. 12 No. 12

Pholo Alain AB and Behrens K. "Do rent-seeking and inter-regional transfers contribute to urban primacy in Sub-Saharan Africa?". PAPERS IN REGIONAL SCIENCE (ISI). 2013. Vol. 92 No. 1

Roberts Simon SJ. "Challenging the power of big companies: competition policy isn't enough". New Agenda: South African Journal of Social and Economic Policy (DHET). 2013. Vol. 1st Quarter No. 49

Stander Yolanda YS, Botha Ilse I and Marais Daniel. "*Trading strategies with copulas*". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 1

Stander Yolanda YS, Botha Ilse I and Marais Daniel DJ. "A comparison of co-integration and copula asset allocation approaches". Studies in Economics and Econometrics (DHET). 2013. Vol. 37 No. 1

Tregenna Fiona FM. "The specificity of manufacturing in Marx's economic thought". European Journal of the History of Economic Thought (ISI). 2013. Vol. 20 No. 4

Van Zyl Gerhardus G. "The positive labour productivity externalities that arise from postsecondary qualification or training". Journal of Economic and Financial Sciences (DHET). 2013. Vol. 6 No. 3

Van Zyl Gerhardus G. "The relative labour productivity contribution of different age-skill categories for a developing economy". SA Journal of Human Resource Management (DHET). 2013. Vol. 11 No. 1

FACULTY OF EDUCATION Executive Dean: Prof Sarah Gravett



The Faculty is a leader in the country in research on primary school teacher education with the "teaching school" initiative at the SWC a unique example of practice-based teacher education. The teaching school research is conducted in partnership with the University of Helsinki. The South African Research Chair (National Research Foundation) in Education and Care, awarded to Prof Jace Pillay in 2013, testifies to the status of research on vulnerable children in the school sector. Science education and research in educational support for children and youth who struggle are other strong research areas in the Faculty.

The Faculty's research output has increased significantly during the past few years. In 2013 the Faculty produced 63.63 research units comprising articles in accredited journals, research-based books and conference

proceedings. In 2012 62.88 research units were produced (54.75 in 2011 and 35.33 in 2010).

The Faculty increased its subsidised research output in 2012 in comparison to 2011, 2010 and 2009. In 2009 the output was 17.82 units, while the output in 2012 was 62.88 units. The substantial increase can be contributed to a strong drive in the Faculty to increase its research footprint, as well as continuous monitoring and support. In 2013 the output was 63.63 units.

The following provides a breakdown of the levels of the staff that contributed to accredited research output.

DOCTORAL GRADUATIONS 2013

Ragpot, Lara, Thesis: Student learning in a course on cognitive development in childhood. Supervisor: Prof E Henning and Co-Supervisor: Prof J Pillay

Simwa, Kefa Lidundu, Thesis: The bachelor of Education Programme at a Kenyan University: A case of curriculum coherence in the preparation of secondary school History teachers. Supervisor: Prof MM Modiba

FACULTY RESEARCH REPORTS

Underhill, Jenni Lynne, Thesis: Opportunities for pedagogical and professional development at the University of Johannesburg: A critical exploration of the responses to a mentorship programme for lecturers working with tutors. **Supervisor**: Prof J Clarence-Fincham and **Co-Supervisor**: Dr NF Petersen

Wasielewski, Tanya Natasha, Thesis: Gauteng secondary school learners' lived experiences of Life Orientation and fulfilment of its outcome as a learning area. Supervisor: Prof J Pillay

Beukes, Johannes Andries, Thesis: Facilitation of awareness in the decision-making process of a marital partner as an integral part of mental health. Supervisor: Prof CPH Myburgh and Co-Supervisor: Prof M Poggenpoel

Moolla, Aneesa, Thesis: A psycho-educational model to facilitate to mental health of street children. Supervisor: Prof CPH Myburgh and Co-Supervisor: Prof M Poggenpoel

Nhlapo, Lovia Thandiwe, **Thesis:** Educational strategies for the constructive management of a culture of aggression in a secondary school. **Supervisor:** Prof CPH Myburgh and Co-Supervisor: Prof M Poggenpoel

Van der Merwe, Lize, Thesis: A psycho-educational programme for educators for the management of aggression in a secondary SEBD school in the United Kingdom. Supervisor: Prof CPH Myburgh and Co-Supervisor: Prof M Poggenpoel

White, Lounell, Thesis: Curriculum Support groups as ecologies of practice for teacher development. Supervisor: Prof JJJ de Beer and Co-Supervisor: Prof U Ramnarain

Sekhukhune, Catherine Dikeledi, Thesis: An ethnographic account of teaching and learning \ of the first Grade R programme in a developing school in 2010 in a black urban community. Supervisor: Dr E Fritz

Giannakapoulos, Apostolos, Thesis: How critical thinking, problem-solving and mathematics content knowledge contribute to students' performance at tertiary level: identifying their journeys. Supervisor: Dr K Luneta

Kyriacou, Xenia Sophia, Thesis: A design based study of an evolution education short learning programme and the conceptual and pedagogical development of participants with a view to theory building. Supervisor: Prof UJJ de Beer and Co-Supervisor: Prof U Ramnarain

Lamberti, Pia Lamberti, Thesis: A critical exploration of argumentation in the texts that third year development studies students interpret and conduct. Supervisor: Prof J Clarence-Fincham and Co-Supervisor: Prof E Henning

RESEARCH OUTPUTS 2013

- CHAPTERS -

Jacobs Gerrit GJ, Taylor Barret J and Webber Karen L. "Institutional research in light of Internationalization, growth, and competition" in Global Issues in Institutional Research. 2013. Wiley. ISBN. 978-1-1187-1435-5

Motala Shireen SM. "South Africa: Making post-apartheid rights into realities" in Education in Southern Africa. 2013. Bloombury Publishing Pic. ISBN. 978-1-4411-7149-8

Motala Shireen SM. "Equity, quality and access in South African education: a work still very much in progress" in New South African Review: The Second Phase - Tragedy or Farce?. 2013. Wits University Press. ISBN. 978-1-86814-735-9

Shonubi Ololade. "Women's leadership and constitutional rights in Africa: a myth or reality?" in The Power of Gender, The Gender of Power. 2013. Africa World Press. ISBN. 978-1-59221-912-4

- CONFERENCE PROCEEDINGS -

Ankiewicz Petrus PJ and Jakovljevic Maria M. "Instructional methodology for technological problem solving in project-based classrooms". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Ankiewicz Petrus PJ. "The alignment of the caps for technology in the senior phase with the philosophy of technology: a critical analysis". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Barlow-Jones Glenda G and Van der Westhuizen Duan D. "Digital literacy in the 21st century: fact or fiction?" World Conference on Educational Media & Technology. 2013. Association for the Advancement of Computing in Education (AACE). ISBN. 978-1-939797-03-2

Batchelor Jacqueline J and Lautenbach Geoffrey GV. "Reaching out and connecting: preservice teachers and their professional learning networks". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Bender Cornelia CJG. "Responsive leadership as service for curricular community engagement at South African universities: narratives from academics". 05th International Symposium on Service Learning 2013: Service-Learning Across the Globe: From Local to Transnational (ISSL). 2013. Sun Media Stellenbosch. ISBN.978-0-620-59299-4

Chetty Jacqueline J and Van der Westhuizen Duan D. "I hate programming and other oscillating emotions experienced by novice students learning computer programming". World Conference on Educational Media & Technology. 2013. Association for the Advancement of Computing in Education (AACE). ISBN. 978-1-939797-03-2

Chetty Jacqueline J and Van der Westhuizen Duan D. "Meta-cognitive awareness and skill amongst students studying computer programming". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Chetty Jacqueline J and Van der Westhuizen Duan D. "The transient emotions and conceptions of students crossing a threshold while learning to program: a phenomeno-graphic study". World Conference on Educational Media & Technology. 2013. Association for the Advancement of Computing in Education (AACE). ISBN. 978-1-939797-03-2

De Beer Josef JJJ and Ankiewicz Petrus PJ. "Building on a solid foundation: pre-science teacher education in the first year of university study". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

De Beer Josef JJJ. "Challenges in the teaching of evolution in the life sciences classroom". International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

De Beer Josef JJJ and Mothwa Melida Modiane MM. "Indigenous knowledge in the science classroom: science, pseudo-science, or a missing link?". International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

De Beer Josef JJJ, Batchelor Jacqueline J and Lautenbach Geoffrey GV. "Pedagogical bungeejumping: learning in practice". International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Diseko Rabaitse R and Pule Sechaba Precious SP. "A self-review framework: information and communication technology in a school for learners with special educational needs". 05th International Conference on Education and New Learning Technologies. 2013. International Association of Technology, Education and Development (IATED). ISBN. 978-84-616-3822-2

Diseko Rabaitse R, Batchelor Jacqueline J and Mcetywa Mahoai Lorraine ML. "Learners' engagement in the learning of mathematics with mobile technology". ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Divala Joseph JJK and Hungwe Joseph. "Dilemmas of numerical transformation: a critique of student body diversity in the South African higher education post-1994". 57th World Assembly: Innovations and Trends in Education. 2013. ICET. ISBN. 978-0-9827113-3-0

Durandt Rina R and Jacobs Gerrit GJ. "Learning mathematics with technology - a meaningful endeavour involving 2nd year education students". International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

Gerson Ilanit I, Lautenbach Geoffrey GV and Pillay Jace J. "Changing behaviours online: surfing safely". World Conference on Educational Media & Technology. 2013. Association for the Advancement of Computing in Education. ISBN. 978-1-939797-03-2

Grobler Rina RC. "Video-recorded lesson analysis as replacement for micro-lessons in a learning area methodology module". International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013. Unisa Press. ISBN. 978-1-86888-742-2

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Petersen Nadine NF and Merckel Vanessa VJ. "Post-basic nursing students' reflections on their experiences of dialogic mediation". Health SA Gesondheid (DHET). 2013. Vol. 18 No. 1

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Shonubi Ololade and Taiwo Saheeb O. "Self-employed graduate entrepreneurs and management of small and medium enterprises (SMEs) in Lagos State, Nigeria". International business and economics research journal (IBSS). 2013. Vol. 12 No. 5

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FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT n. Prof Saurabh Sinha



Each school constitutes a number of research groups. where some research groups cluster together to form research centres. Research centres that are co-funded by the University Research Committee include

- Mineral Processing and Technology, Mineral Beneficiation and Value Addition
- Photonics Research
- Stream Processing Research Composite Materials Research
- Telecommunications Employing Emerging Technologies: Power Line

In 2013, a number of strategic research incentives were funded by the URC, these included:

- Sanitation for un-serviced residential areas
- Friction stir welding of aluminium and copper*
 Suburban Electrical Immune System
- Improving grey water re-use unit installed at UJ student town residence for the purpose of flushing toilets*
- · Facial recognition for automation of photo acceptance at application for documentation* Extraction, separation and uses of compounds found in precipitates produced in PGM and base metal refineries*
- Applied solar energy programme*
- Building blocks project: sustainable manufacturing*
 Ad-hoc wireless sensor networks
- Resynchronizing bursts of errors

*The URC also funded equipment relating to these projects.

At the time of this reporting, 155.98 publication units have been reported. The target for 2013 had been 140 units and therefore this represents a growth with regards to previous years. The units comprise: 108.98 peer-reviewed conference contributions, 45.21 journal articles and 1.79 book chapters. Of concern, however, is that 33.26 units were not processed. The lack of processing related to "un-qualifying" documents from the specific conference engagements.

Some eleven (11) academics are rated by the National Research Foundation (NRF). In 2013. a number of researchers were rated, these include: Prof M Bauer (C2), Dr K Ouahada (C3), Dr ET Akinlabi (Y2), Dr K Jalama (Y2), Dr F Ntuli (Y2) and Dr GA Oosthuizen (Y2) were rated by the NRF. Prof Bauer however faced challenges with her work permit and despite interventions by the relevant Executive Dean, Deputy Vice-Chancellor: Research, Innovation, Postgraduate Studies and the Library and Executive Director: Human Resources, she subsequently resigned from UJ. By way of the NRF description, researchers that are rated in the "Y" category are considered to be (fast) emerging researchers.

The Faculty supported some eight (8) postdoctoral research fellows, some twelve (12) visiting or honorary Professors. A list of academics with H-indices (according to Scopus) of 4 or more is herewith listed

TABLE 2: CITATION PROFILE OF ACADEMICS ACCORDING TO SCOPUS (ELSEVIER)

Full Name	H-Index	#Citations (past five years) Excluding self-citations	#Documents Last 5 years)	#Documents (last 10 years)
Jalama, Doctor Kalala (DFC Chemical Engineering)	4	42	11	14
Ekolu, Doctor Stephen (APK Civil Engineering Sc.)	4	35	9	15
Clarke, Prof Willem (APK Electrical & Electronic Eng. Sc.)	4	24	24	44
Twala, Prof Bhekisipho (APK Electrical & Electronic Eng. Sc.)	4	59	28	35
Shukla, Prof Mukul (APK Mechanical Engineering Sc.)	4	44	24	30
Mbohwa, Prof Charles (APB Quality & Operations Mgmt.)	4	28	26	33
Meyer, Prof Johan (APK Electrical & Electronic Eng. Sc.)	5	101	19	30
Mulaba, Prof Antoine (DFC Extraction Metallurgy)	5	84	18	35
Swart, Doctor Theodorus (APK Electrical & Electronic Eng. Sc.)	7	174	17	40
Doyoyo, Prof Mulalo Reuben (APK Mechanical Engineering Sc.)	10	120	2	10
Ferreira, Prof Hendrik (APK Electrical & Electronic Eng. Sc.)	12	269	58	118

TABLE 3: A LIST OF DOCTORAL GRADUATIONS

	Student	Supervisor	Co-supervisor 1	Co-supervisor 2	Title of thesis	
1	Agumba, Justus Ngala	Prof JHC Pretorius	Prof T Haupt	-	A construction of a health and safety performance improvement model for South African small and medium enterprises.	
2	Aigbavboa, Clinton Ohis	Prof WD Thwala	Prof B Twala	-	An integrated beneficiary centred satisfaction model for publicly-funded housing schemes in South Africa.	
3	Bidgood, Peter Mark	Prof AL Nel	-	-	Wind tunnel balance matrix generation using Monte Carlo Simulation techniques.	
4	Crous, Pieter Andries	Prof J Haarhoff	Prof C Buckley	-	Communal ablution facilities as an interim measure for the upgrading of inform settlements.	
5	Du Plessis, Jan Abraham Francois	Prof AL Nel	-	-	An alternative Gyroscope Calibration Methodology.	
6	Ejigu, Efrem Kebede	Prof PL Swart	Prof B Lacquet	-	Non-polarised edge filter design using genetic algorithm and its fabrication using electron beam evaporation deposition technique.	

	Student	Supervisor	Co-supervisor 1	Co-supervis
7	Joseph, Meera Kenkarasseril	Prof WA Clarke	Dr N Clarke	-
8	Mahamood, Rasheedat Modupe	Dr ET Akinlabi	Prof M Shukla	Prof S Pityan
9	Manual, Grant	Prof JHC Pretorius	Prof B Twala	-
10	Marnewick, Annlize Lyon	Prof JHC Pretorius	Prof L Pretorius	-
11	Mwanaumo, Mishengu Erastus	Prof WD Thwala	Prof JHC Pretorius	-
12	Nel, Hannelie	Prof JHC Pretorius	-	-
13	Sopazi, Peaceman Ndodoxolo	Prof TN Andrew	-	-
14	Sumbwanyambe, Mbuyu	Prof AL Nel	Prof WA Clarke	-

POSTGRADUATE GRADUATIONS 2013

Xing, Bo Thesis: Soft computing in remanufacturing. Supervisor: Prof T Marwala and Co-Supervisor: Prof FV Nelwamondo

Vermeulen, Andre, Thesis: An analytical instrument measuring the status of an organisation business process capability. Supervisor: Prof JHC Pretorius and Co-Supervisor: Prof L Pretorius

Anderson, George Georgevich; Thesis: Operating System Scheduling Optimization. Supervisor: Prof T Marwala and Co-Supervisor: Prof FV Nelwamondo

Duma. Mlungisi Sizwe: **Thesis:** Improving classification performance in missing insurance data. risor: Prof T Marwala and Co-Supervisor: Prof B Twala

Shaw, Ian Stephan; Thesis: A study of analogies between processes in technical and biological systems. Supervisor: Prof JD van Wyk and Co-Supervisor: Prof T Marwala

Du Plessis, Jan Abraham Francois: Thesis: An alternative Gyroscope Calibration Methodology. Supervisor: Prof AL Nel

Marnewick, Annlize Lyon; Thesis: A socio-technical view of the requirements engineering process. Supervisor: Prof JHC Pretorius and Co-Supervisor: Prof L Pretorius

Sumbwanyambe, Mbuyu; Thesis: A pricing model for sustainable ICT development in a heterogeneous environment. Supervisor: Prof AL Nel and Co-supervisor: Prof WA Clarke

Ejigu, Efrem Kebede; Thesis: Non-polarised edge filter design using genetic algorithm and its Aigbavboa Clinton CO and Thwala Wellington WD. "An assessment of the correlation between fabrication using electron beam evaporation deposition technique. Supervisor: Prof PL Swart and indoor environmental quality and productivity in a university building: occupants' perspective' Co-supervisor: Prof B Lacquet 18th International Symposium on Advance 2013. Springer. ISBN. 978-3-642-44915-4 im on Advancement of Construction Management and Real Estate.

Agumba, Justus Ngala; Thesis: A construction health and safety performance improvement model for South African small and medium enterprises. Supervisor: Prof JHC Pretorius and Co-Supervisor: Prof T Haupt.

Sopazi, Peaceman Ndodoxolo; Thesis: The role of language and culture in technological innovation. Supervisor: Prof TN Andrew

RESEARCH OUTPUTS 2013

- CHAPTERS -

Lo Giudice Agata A, Clasadonte MT and Matarazzo A. "Environmental labels and declarations in the agri-food sector" in Product-Oriented Environmental Management Systems (POEMS): Improving Sustainability and Competitiveness in the Agri-Food Chain with Innovative Environmental Management Tools. 2013. Springer. ISBN. 978-94-007-6115-5

Lo Giudice Agata A, Clasadonte MT and Matarazzo A. "The implementation of the guidelines for environmental labels and declarations in agri-food SMEs" in Product-Oriented Environment Aigbavboa Clinton CO and Thwala Wellington WD. "An exploratory study of the major causes Management Systems (POEMS): Improving Sustainability and Competitiveness in the Agri-Food Chain with Innovative Environmental Management Tools. 2013. Springer. of construction disputes in the South African construction sector". 07th International Conference on Construction in the 21st Century: Challenges in Innovation, Integration & Collaboration in ISBN 978-94-007-6115-5 Construction & Engineering. 2013. CITC-VII. ISBN. 978-0-9894623-0-3

Lo Giudice Agata A. Clasadonte MT and Matarazzo A. "Guidelines for environmental labels in the Aigbavboa Clinton CO and Thwala Wellington WD. "An investigation of the critical factors affecting the delivery of low-income housing and their effects on residents' satisfaction agri-food SMEs" in Product-Oriented Environmental Management Systems (POEMS): Improving Sustainability and Competitiveness in the Agri-Food Chain with Innovative Environmental Management Tools. 2013. Springer. ISBN. 978-94-007-6115-5 07th International Conference on Construction in the 21st Century: Challenges in Innovation, Integration & Collaboration in Construction & Engineering. 2013. CITC-VII. ISBN 978-0-9894623-0-3

Mutingi Michael M and Mbohwa Charles C. "Fuzzy system dynamics: a framework for modelling renewable energy policies" in Energy Policy Modeling in the 21st Century. 2013. Springer ISBN. 978-1-4614-8605-3

Mutingi Michael M. "Adoption of renewable energy technologies: a fuzzy system dynamics perspective" in Energy Policy Modeling in the 21st Century. 2013. Springe ISBN. 978-1-4614-8605-3

Shukla Mukul M. "Abrasive water jet milling" in Nontraditional Machining Processes: Research Advances. 2013. Springer. ISBN. 978-1-4471-5178-4

- CONFERENCE PROCEEDINGS -

Agbenyeku Emam-Obong EE and Ojuri OO, Okonta Felix FN. "Evaluation of empirical equations For leachate migration through composite barrier with defected geomembrane". Ozna African Regional Conference on Geosynthetics: Geosynthetics for Sustainable Development in Africa. 2013. International Geosynthetics Society (IGS). ISBN.978-0-9884772-1-6

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FACULTY RESEARCH REPORTS

sor 2 Title of thesis A framework for rural women empowerment using information and communication technologies. ana Characterisation of laser metal deposition of functionally graded titanium alloy composites. Short term load forecasting by means of neural networks and programmable logic devices for new high electrical energy users. A socio-technical view of the requirements engineering process. An integrated approach to multi-stakeholder interventions in construction health and safety. Design and implementation of a prevention, appraisal and failure cost module. The role of language and culture in technological innovation A pricing model for sustainable ICT development in a heterogeneous

Agumba Justus JN, Haupt Theodore TC and Pretorius Jan JHC. "Employee involvement and empowerment in health and safety: a perception of small and medium contractors in South Africa". 19th CIB World Building Congress: Construction and Society. 2013. Queensland University of Technology. ISBN. 978-0-9875542-0-8

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FACULTY OF HEALTH SCIENCES Executive Dean: Prof Andre Swart



The Faculty comprises of eleven Departments, two research centres, the Faculty administrative office and the short learning programme and continuing professional office (SPP/CPD). These eleven academic departments and composition thereof remains unique within the content of Faculties of Health Sciences in South Africa as eight of the departments and one programme (Biokinetics) in another department are affiliated to one of the following regulatory bodies: The Health Professions Council of South Africa (HPCSA); The Allied Health Professions Council of South Africa (AHPCSA); the South African Nursing Council (SANC).

To enhance capacity and research output within the Faculty and to contribute to the university's output in the next ten years the Faculty has:

- Made resources available to staff to attend research related short courses;
- Continued to participated in the Staff Qualifications Project (SQP);
- Encouraged and supported staff to attend journal/publication writing workshops;
 Implemented a mentor system whereby senior accomplished researchers guide colleagues in their postgraduates studies; and
- Funded projects as necessary.

In terms of research output the Faculty's target for 2103 was 58 accredited units. The Faculty submitted 52 units for auditing purposes, comprising of 44 units related to journal articles with the remaining units comprising books, chapters and conference proceedings. This a decrease from the unaudited 58.9 units submitted in 2012. The major contributing Departments were Optometry and Sport & Movements Studies.

Table 6 reflects the analysis of publications for 2013.

TABLE 6: ANALYSIS OF PUBLICATIONS

Publications and Conference Proceedings	2012	2013
Number of publication units	58.49	45
Conference proceedings	13.5	2
Chapters	7.5	5
Number of staff who published	30	29
First publications – departments from 2005	1	2 Somatology, Homoeopathy
First publications for staff members	1	4

The publication ratio per staff member is 0,52 compared to 0.60 in 2012. Conference proceedings contributed 1.50 units, with chapters in books contributing to 0.60 units.

Patent Applications

In 2013, one patent was submitted following a project partly by the Water Research Commission (WRC). All Intellectual Property resides with UJ.

External Funding

All rated researchers were allocated the NRF incentive allocation. External funding for research activities was obtained from the NRF, MRC, CSIR, ALC SA/Egypt, CANSA, WRC and the African Laser Centre by the Laser and Water and Health Research Centres totaling R650 000.00 and R1 055 550.00 respectively. A total of R 3 317 500.00 funding (internal and external) was received by the two Centres in 2013; similar to the funding attracted during 2012.

In addition funding was received as follows: The amount excluding NRF allocations for rated researchers was R7, 951,370.00 compared to R9,123,000.00 (clinical grant included) in 2012.

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Mothiba, Tebogo Maria, Thesis: A training programme for cost centre managers with a dual role at a tertiary hospital complex in the Limpopo Province. **Supervisor:** Prof K Jooste and **Co-supervisor:** Prof AGW Nolte

Weska, Pawel Piotr, Thesis: Leverage of a Sport Mega-Event Branding: A Case Study of the 2012 FIFA World Cup. Supervisor: Prof HB Klopper

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RESEARCH OUTPUTS 2013

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FACULTY OF HUMANITIES Executive Dean: Prof Rory Ryan



The Faculty of Humanities has eighteen departments, comprising four discipline clusters, (School of) Communication, (School of) Languages, Social Sciences and Humanities. The Faculty has two South African Research Chairs, namely the Chair in Social Change and the Chair in African Diplomacy and Foreign Policy. There are also three centres, namely the Centre for Social Development in Africa, the Centre for Anthropological Research, and the Centre for Anthropological Research, and the Centre for Social Change, closed down in 2013. The Faculty of Humanities is proud of its achievements in terms of research. The Faculty still has the second highest number of accredited research outputs in the university.

The particular academic departments, research centres and the SARChI Chair that have been maintaining a high research output over recent years are the Department of Politics, the Department of Greek and Latin Studies, the Department of Philosophy, the Centre for Social Development in Africa, the Centre for Social Question of the Chair in Social Change. The Department of English has been increasing its research outputs in a 2013 with a total of 21 units for accredited articles and .23 of a unit for a chapter in a book. The Department of English has thus produces 21.23 units. The Department of Philosophy is in the second place with a total of 12.33 accredited in a book. Their total research outputs to a total of 7.62 units and .35 of a unit for a chapter in a book. Their total research outputs therefore amounts to 20.3 units. The Centre for Social Development in Africa is in fourth place with 14.72 units for accredited articles. The Department of English has been increasing the second place with a total of 13 research outputs therefore and two books amounting to a total of 13 research output in a book. The Department of The Court of Social Development in Africa is in fourth place with 14.72 units for accredited articles. The Department of Greek and Latin Studies has produced a total of 13 research output units in 2013.

The Departments of English, Philosophy and Politics have not only produced high quantities of research outputs, they have also been producing high quality outputs as is evident from the fact that these three discipline areas have been singled out in the QS ranking. Some of the other research fields that have been delivering high impact research are the Centre for Social Development in Africa and Greek and Latin Studies and Sociology. Since the staff members who were employed in the Centre for Sociological Research (notably Professor Desai) have moved to the Department of Sociology, sociology as a research area now has a number of established researchers and should be able to make an impact in the international arena (bearing in mind that the Chair in Social Change also does research in the broad area of sociology).

TABLE 14: RESEARCH OUTPUTS OVER THE LAST 5 YEARS

	Articles	Books	Chapters	Proceedings	Total Units
2013	149.97	10.03	11.36	3.5	174.86
2012	178.53	4.92	15.97	1.35	200.28
2011	146.30	4.42	8.31	1.58	156.19
2010	139.04	14.86	6.83	2	151.96
2009	114.79	6.5	17.83	0.5	142.8

A larger percentage of the total output for 2013 comprises of accredited articles, rather than books, chapters in books and conference proceedings. While the latter categories of output are important in the Humanities, and will remain so, these outputs are not as clear-cut due to DHET's lack of disclosure of successful claims in these categories.

Postdoctoral Research Fellows

The Postdoctoral Research Fellowship programme is critical for a steady increase in research output, and for contributing to the intellectual Profile and research activities in the faculty. In 2013 the faculty had thirty two PDRFs.

POSTGRADUATE GRADUATIONS 2013

Dennill, Ingrid (Psychology); Thesis: The Evaluation of a Psycho-Education and Skills Building Program at the time of Divorce/Separation. Supervisor: Prof A Burke Desai Ashwin AG and Vahed G "Young and restless: living 'in the moment' between the past and future" in Chatsworth: The Making of a South African Township. 2013. University of KwaZulu Natal. ISBN. 978-1-86914-255-1

Marais, Ingrid Estha (Anthropology), Thesis: Public Space/Public Spheres: An Ethnography of Joubert Park, Johannesburg. Supervisor: Prof D de Wet and Co-supervisor: Prof M Lyons

McDonald, Zahraa (Sociology), Thesis: Expressing Post-Secular Citizenship: A Sociological Exposition of Islamic Education in South Africa. Supervisor: Prof JM Uys and Co-supervisor: Prof K Naidoo Co-supervisor: Prof F Esack

Ntui, Charles Mboh Arrey (Geography), Thesis: Hazard Assessment and Disaster Preparedness towards Sustainable Development in Mpumalanga (South Africa) Coal-Mining Areas. Supervisor: Prof HJ Annegarn

Hlatshwayo, Mondli Shadrack (Industrial Sociology); Thesis: A Sociological Analysis of Trade Union Responses to Technological Changes at the Arcelor/Mittal Vanderbijlpark Plant, 1989 to 2011. Supervisor: Prof S Buhlungu (University of Pretoria) and Co-Supervisor: Prof A Senekal

Hosseini Baghsangani, Seyed Reza (Philosophy); Thesis: Meaning in Life: A Wittgensteinian Approach. Supervisor: Prof T Metz and Co-Supervisor: Prof J Snyman

Nganje, Fritz Ikome (Political Studies); Thesis: Paradiplomacy: A Comparative Analysis of the International Relations of South Africa's Gauteng, North-West and Western Cape Provinces. Supervisor: Prof DJ Geldenhuys

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Alexander Peter P "Affordability and action: introduction and overview" in Class in Soweto. 2013. University of KwaZulu Natal. ISBN.978-1-86914-220-9

Alexander Peter P and Wale Kim K "Underemployment: too poor to be unemployed" in Class in Soweto . 2013. University of KwaZulu Natal. ISBN.978-1-86914-220-9

Arnold Markus JP "Picaresque adventurers and fugitive houses: how does the Mauritian novel tell the world through comic and laughter?" in Picaresque adventurers and fugitive houses: how does the Mauritian novel tell the world through comic and laughter? / Adventuriers picaresques et maisons en fuite: comment le roman mauricien dit-il le monde a travers le prisme du rire et du comique? 2013. Editions K'A . ISBN. 978-2-910791-98-8

Botha Catherine CF "Dance and/as art: considering Nietzsche and Badiou" in Thinking Through Dance: The Philosophy of Dance Performance and Practices. 2013. Dance Books Ltd. ISBN. 978-1-85273-165-6

Ceruti Claire C "A proletarian township: work, home and class" in Class in Soweto . 2013. University of KwaZulu Natal. ISBN. 978-1-86914-220-9

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Desai Ashwin AG *"Taxis"* in Chatsworth: The Making of a South African Township. 2013. University of KwaZulu Natal. ISBN. 978-1-86914-255-1

Desai Ashwin AG and Vahed G "The flats of Bayview" in Chatsworth: The Making of a South African Township. 2013.University of KwaZulu Natal. ISBN. 978-1-86914-255-1

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Sadiki Koko Francois KF "State-building, citizenship and the Banyarwanda question in the Democratic Republic of Congo" Strategic review for Southern Africa/Strategiese oorsig vir Suider-Afrika (IBSS) 2013 Vol. 35 No. 1

Sandon Emma "African mirror: the life and times of the South African newsreel from 1910 to 1948" JOURNAL OF SOUTHERN AFRICAN STUDIES (ISI) 2013 Vol. 39 No. 3

Sandon Emma "Cinema and high-life in the Gold Coast: the boy Kumasenu (1952)" SOCIAL DYNAMICS-A JOURNAL OF THE CENTRE FOR AFRICAN STUDIES UNIVERSITY OF CAPE TOWN (ISI) 2013 Vol. 39 No. 3

Schaffler Alexis A and Swilling M "Valuing green infrastructure in an urban environment under pressure - the Johannesburg case" ECOLOGICAL ECONOMICS (ISI) 2013 Vol. 86

Scherzinger Karen KI and Mill Colleen C "Allegory, the fantastic and trauma in Yann Martel's Life of Pi" Scrutiny2 (Unisa English Studies) (DHET) 2013 Vol. 18 No. 1

Schmid Jeanette J "Recounting stories on South African child welfare" SOCIAL WORK (ISI) 2013 Vol. 49 No. 3

Scott-Macnab David D "Medieval folk etymologizing and modern misconstruals of old French archegaie" ZEITSCHRIFT FUR FRANZOSISCHE SPRACHE UND LITERATUR (ISI) 2013 Vol 123 No 1

Scott-Macnab David D "The names of all manner of hounds: a unique inventory in a fifteencentury manuscript" Viator-Medieval and Renaissance Studies (ISI) 2013 Vol. 44 No. 3

Shandler Maxine M "Fostering quality graduates through access programmes" Journal for New Generation Sciences (DHET) 2013 Vol. 11 No. 2

Sobiecki Jean Francois JFS "An account of healing depression using ayahuasca plant teacher medicine in a Santo Daime ritual" Indo-Pacific Journal of Phenomenology (DHET) 2013 Vol. 13 No. 1

Sobiecki Jean Francois JFS, Beery M, Douglas G, Kroll F, Marinda E, Orr G and Rudolph M "A pilot study assessing the impact of a fortified supplementary food on the health and well-being of crèche children and adult TB patients in South Africa" PLoS One (ISI) 2013 Vol. 8 No. 1

Sparks Stephen SJW "New Turks and old Turks: the historiographical legacies of South African social history" Historia: journal of the Historical Association of South Africa (IBSS) 2013 Vol. 58 No. 1

Stones Christopher CR "A psycho-social exploration of street begging: a qualitative study" SOUTH AFRICAN JOURNAL OF PSYCHOLOGY (ISI) 2013 Vol. 43 No. 2

Tshivhase Mpho MT "Personhood: social approval or a unique identity?" Quest (IBSS) 2013 Vol. 02-Jan

Ulriksen Marianne Sandvad MS "The politics of social protection expenditure and financing in Southern Africa" Development Southern Africa (ISI) 2013 Vol. 30 No. 1

Uys Josephine JM and Senekal Anton A "Creating an ethogenic organization: the development and implementation of a whistle-blowing policy" African journal of business ethics (IBSS) 2013 Vol. 7 No. 1

Vale Peter PCJ "The university as a bombed town" Theoria: a journal of social and political theory (IBSS) 2013 Vol. 60 No. 134 (1)

Vale Peter PCJ "The study of politics in South Africa : a prolegomenon" Politikon (ISI) 2013 Vol. 40 No. 3

Vale Peter PCJ and Helliker K "Marxisms past and present" Thesis eleven (IBSS) 2013 Vol. 115 No. 1

Van Breda Adrian ADP "Psychosocial vulnerability of social work students" Social Work Practitioner Researcher (DHET) 2013 Vol. 25 No. 1

Van Rooven Carina C. Cox Ruth RJ and De Wet Thea D "Systematic review methodology for elopment: an example from micro-finance" Africanus: Journal of Development Studies (DHET) 2013 Vol. 43 No. 1

Van Staden Jacobus Frederik Du Plessis JFD "Applying East Asian media diplomacy models to African media" Africa insight (IBSS) 2013 Vol. 43 No. 2

Verbooy Carike C and Burger Kobie-Marie K "Nudity, celebrity and women abuse Marie Claire's 2009 'the naked issue' edition" Communicatio: South African Journal for Communication Theory and Research (DHET) 2013 Vol. 39 No. 1

Viviers Hendrik H "Of wise ants (Prov 6:6-8; 30:24-25) and repulsive dogs (Prov 26:11) – animal and human kinship according to proverbial wisdom and natural science' Ekklesiastikos Pharos (DHET) 2013 Vol. 95 No. 24

Warria Ajwang Roseline RA, Nel Johanna JBS and Triegaardt Jean JD "Analysing South African legislative measures to protect trafficked children: a social work perspective Social Work Practitioner Researcher (DHET) 2013 Vol. 25 No. 1

Winkler Rafael R "Ousia, substance, essence: on the Roman understanding of being" Phronimon: Journal of the South African Society for Greek Philosophy and the Humanities (DHET) 2013 Vol. 14 No. 1

Winkler Rafael R "Nietzsche and Heidegger: ethics beyond metaphysics" JOURNAL OF THE BRITISH SOCIETY FOR PHENOMENOLOGY (ISI) 2013 Vol. 44 No. 3

Winkler Rafael R "Seinsverständnis and meaning in Heidegger" SOUTH AFRICAN JOURNAL OF PHILOSOPHY (ISI) 2013 Vol. 32 No. 2

Zacharopoulou Effrosyni E "A critical approach of Christian Nubia's relation with the Crusaders in the first centrue of Crusaders: MIA EPMHNEYTIKH Π PODELEIDEN THE EXECUTION THE ΧΡΙΣΤΙΑΝΙΚΗΣ ΝΟΥΒΙΑΣ ΜΕ ΤΟΥΣ ΣΤΑΥΡΟΦΟΡΟΥΣ ΚΑΤΑ ΤΟΝ ΠΡΩΤΟ ΑΙΩΝΑ ΤΩΝ ΣΤΑΥΡΟΦΟΡΙΩΝ" Ekklesiastikos Pharos (DHET) 2013 Vol. 95 No. 24 Vol. 21 No. 4

Nortie-Meyer Susara SJ "Vilification in 2 Peter 2: a comparison with the letter of Jude" Scriptura: INTERNATIONAL JOURNAL OF BIBLE, RELIGION AND THEOLOGY IN SOUTHERN AFRICA (DHET) 2013 Vol. 112

Obweng Kizobo "The Hellenic community and its contribution to the development of the city of Lubumbashi (DRC) from 1880 to Present /La communaute hellenique et son apport au developpement de la ville de Lubumbashi (RDC) de 1880 a nos jours" Ekklesiastikos Pharos (DHET) 2013 Vol. 95 No. 24

FACULTY OF LAW Executive Dean: Prof Patrick O'Brien



The University of Johannesburg has brought together three academic cultures: those of Vista University, the TWR and RAU. Research and publication cultures and, similarly, facilities, resources and research time, differed drastically at these institutions. Although the number of potential researchers has increased, outputs have not kept pace. The challenge is to develop and empower new researchers over a period of time, while existing researchers are retained and utilised This requires time and patience, since one does not become a researcher overnight. The Faculty had four active research centres in 2013, namely the Research Centre for Private International Law in Emerging Economies, the Centre for Banking Law, the Centre for International Comparative Labour and Social Security Law

(CICLASS) and the South African Institute for Advanced Constitutional, Public, Human Rights and International Law (SAIFAC), which is based at the Old Fort on Constitution Hill, These research centres produced publications, arranged seminars and submitted reports to national and international bodies. Some of them were also involved with the training of students by way of non-subsidised programmes.

The number of subsidy-generating publication units the Faculty hopes to claim in respect of journal articles in 2013, is 53. The Faculty further hopes that its claims in respect of books, chapters in books and conference proceedings, will enable it to exceed its 2013 target of 57

Faculty members presented over 80 papers at conferences, symposia, workshops and the like, 37 of them delivered outside South Africa.

Three members of the Faculty participated in the updating of four of the standard reference books used in South African law (in insurance regulation, credit law, share-blocks and timesharing) and one student text book (banking and credit law).

FACULTY RESEARCH REPORTS

Members of the Faculty contributed to 16 articles in non-accredited journals and e-publications aimed at legal and other professionals, and wrote 16 book reviews.

Books/chapters in books based on research:

Prof MFB Reinecke (emeritus Professor) and Prof PM Nienaber (honorary Professor), together with Prof JP van Niekerk from Unisa published a monumental work in two parts: "Insurance Law": Parts 1 and 2 of Volume 12 of The Law of South Africa (ISBN: 978 0 409 10820 0), 2013, LexisNexis

Prof D Millard published

- Modern Insurance Law (ISBN: 978 1 485 10043 0), 2013, Juta.
- Prof Millard, jointly with Ms W Hattingh, also published: FAIS Multilingual Glossary (ISBN: 978 0 409 11342 6), 2013, LexisNexis.

Prof Kathleen van der Linde, jointly with Faber, D, Vermunt, N and Kilborn were the editors of: -Treatment of Contracts in Insolvency (978 0 19 966836 6), 2013, Oxford University Press.

Prof D Bilchitz, jointly with Prof S Deva from the City University of Hong Kong, edited: -- Human Rights Obligations for Business: Beyond the Corporate Responsibility to Respect (ISBN 978 1 107 03687 1), 2013, Cambridge University Press.

Several members of the Faculty contributed to chapters in books published abroad:

- Prof Kathleen van der Linde prepared the: "National report for South Africa" published in Dennis Faber, D; Vermunt, N, Kilborn, J & Van der Linde, K (eds) Treatment of Contracts in Insolvency (2013) 365-403, Oxford University Press.

Prof Wim Alberts wrote the chapter on South Africa in Bereskin, D (ed):

- International Trademark Dilution (2013) Thomson Reuter
- Prof George Mpedi, together with Prof ER Kalula and Prof N Smit wrote: - "Extending social security coverage to the excluded and marginalized: Perspectives on developments in South Africa" in International Social Security Association (ed) Social Security Coverage Extensions in the BRICS: A Comparative Study on the Extension of Coverage in Brazil, the Russian Federation, India, China and South Africa (2013) 135-154, International Social Security Association

Prof George Mpedi contributed three chapters to Becker, U, Pennings, F and Dijkhoff, T (eds) International Standard-Setting and Innovations in Social Security (2013), Kluwer namely: "HIV and AIDS in Southern Africa" 215- 227

- "Informal sector: Introduction" 285-293
- "Informal sector: Analysis" 313-318

Prof George Mpedi also co-authored, with Prof F Ross two chapters published in Frey, C and Lutz, R (eds) Flucht und Flüchtlingslager (2013), Paulo Freire Verlag, namely: "The protection of refugees and asylum seekers" Some perspectives from an international legal framework" 103-111; and

"The reception, accommodation and general protection of refugees in the Republic of South Africa" 202-214.

Prof George Mpedi was the sole author of "Current approaches to social protection in the Republic of South Africa" in Midgley, J and Piachaud, D (eds) Social Protection, Economic Growth and Social Change: Goals, Issues and Trajectories in China, India, Brazil and South Africa (2013) 217-141, Edward Elgar,

Dr WJ Du Plessis wrote:

'Protection of traditional knowledge in South Africa: does the 'commons' provide a solution?" in Frenkel, DA (ed) Public Law and Social Human Rights, (2013) 99-112, Athens Institute for Education and Research (ATINER), Athens, Greece.

Prof Hennie Strydom wrote:

- "Human security in the context of International Humanitarian Law and International Criminal Jawi In Lautensach, AK and Lautensack, SW (eds) Human Security in World Affairs: Problems and Opportunities (2013) 85-112, Caeserpress Vienna Austria;
- "Some perspectives on global governance, judicial review and climate change" in Ruppel, C, Roschmann, C and Ruppel-Schlichting, K (eds) Volume I *Climate Change, International Law* and Global Governance (2013) 687-709, Nomos Verlag. "The African Union and the responsibility to protect" in Sancin, V and Kovic-Dine, M
- (eds) The Responsibility to Protect in Theory and Practice (2013) 395-416, Zalozba Publishing, Liubliana, Slovenia,

Prof David Bilchitz wrote:

- "Constitutions and distributive justice: complementary or contradictory?" in Bonilla, D (ed) Constitutionalism of the Global South: the activist tribunals of India, South Africa and Colombia (2013) 41-94, Cambridge University Press; and contributed two chapters to Bilchitz, D and Deva, S (eds):
- Human Rights Obligations for Business: Beyond the Corporate Responsibility to Respect (2013) Cambridge University Press, namely: "A chasm between 'Is' and 'Ought'? A critique of the normative foundations of the SRSG's Framework and Guiding Principles" 107-137; and with Deva, S "The human rights obligations of business: A critical framework for the future" 1-26

As far as books published by South African publishers are concerned, Faculty members contributed **chapters** to the following new publications:

Prof David Bilchitz wrote:

- "Human rights beyond the state: Exploring the challenges" in Vilhena, O; Baxi, U and Viljoen, F Transformative Constitutionalism: comparing the apex courts of Brazil, India and South Africa (2013) 580-606 Pretoria University Law Press: Pretoria.
- Prof Charl Hugo wrote with Prof Reinhard Zimmermann
- "South African legal scholarship in the 20th century: The contribution of JC de Wet (1912-1990)" in Du Plessis, J and Lubbe, G A Man of Principle The Life and Legacy of JC de Wet – 'n Man van Beginsel Die Lewe en Nalatenskap van JC de Wet (2013) 3-22, Juta.
- Prof George Mpedi authored:
- "Social security disputes resolution and the need for a coherent adjudication system" in The Dispute Resolution Digest 2013 (2013) 76-93, Tokiso and Juta.

Mr MAT Nyenti, together with Olivier, M and Govindjee, A, contributed two chapters to Olivier, M, Dupper, O and Govindjee, A (eds) The Role of Standards in Labour and Social Security Law: International, Regional and National Perspectives (2013) Juta: - "The role of international and regional standards in the development of an appropriate

 I ne role of international and regional standards in the development of an appropriate rehabilitation, reintegration and return-to-work policy framework for South Africa" 216-238; and "Reforming the South African social security adjudication system: The role and impact of international and regional standards" 287-304.

Although the following chapters appeared in the second edition of a book (Schoeman, HC (ed) An introduction to South African Banking and Credit Law (2013) LexisNexis), they had to be written afresh in view of the introduction of new legislation or the substantial amendment of existing legislation:

- Schoeman, HC "Business Entities" 97-128;

Rostoll, ME "The Consumer Protection Act 68 of 2008" 249-284.

POSTGRADUATE GRADUATIONS 2013

Botha, Hendrina Christina; Thesis: Principles, requirements and techniques relating to the drafting of delegated legislation: A legal analysis. Supervisor: Prof EFJ Malherbe

RESEARCH OUTPUTS 2013

– BOOKS –

Reinecke Machiel MIB, Nienaber Petrus P and van Niekerk JP "The Law of South Africa - Volume 12 Part 1" 2013. LexisNexis. ISBN. 978-0-409-10820-0

Reinecke Machiel MIB, Nienaber Petrus P and van Niekerk JP "The Law of South Africa - Volume 12 Part 2" 2013. LexisNexis. ISBN. 978-0-409-11355-6

- CHAPTERS -

Bilchitz David DI "A chasm between 'is' and 'ought'? A critique of the normative foundations of the SRSG's framework and the guiding principles" in Human Rights Obligations of Business: Beyond the Corporate Responsibility to Respect? 2013. Cambridge University Press. ISBN. 978-1-107-03687-1

Bilchitz David DI "The human rights obligations of business: a critical framework for the future" in Human Rights Obligations of Business: Beyond the Corporate Responsibility to Respect? 2013. Cambridge University Press. ISBN. 978-1-107-03687-1

Bilchitz David DI "Constitutionalism, the global south, and economic justice" in Constitutionalism of the Global South: The Activist Tribunals of India, South Africa, and Colombia. 2013. Cambridge University Press. ISBN. 978-1-107-03621-5

Bilchitz David DI "Human rights beyond the state: exploring the challenges" in Transformative Constitutionalism: Comparing the apex courts of Brazil, India and South Africa . 2013. Pretoria University Law Press. ISBN. 978-1-920538-23-1

Nyenti Mathias MAT, Govindjee A and Olivier M "The role of international and regional standards in the development of an appropriate rehabilitation, reintegration and return-to-work policy framework in South Africa" in The Role of Standards in Labour & Social Security Law: International, Regional and National Perspectives. 2013. Juta. ISBN. 978-1-4851-0012-6

Nyenti Mathias MAT, Govindjee A and Olivier M "Reforming the South African social security adjudication system: the role and impact of international and regional standards" in The Role of Standards in Labour & Social Security Law: International, Regional and National Perspectives . 2013. Juta. ISBN. 978-1-4851-00126

Van der Linde Kathleen KE "National report for South Africa" in Treatment of Contracts in Insolvency, 2013, Oxford University Press, ISBN, 978-0-19-966836-6

- CONFERENCE PROCEEDINGS -

Du Plessis Wilhelmina WJ "Protection of traditional knowledge in South Africa: Does the 'commons' provide a solution?" Public Law and Social Human Rights: 10th Annual International Conference on Law . 2013. Athens Institute for Education and Research. ISBN. 978-618-5065-01-0

Heleba Siyambonga SC "Public participation in law making: the South African experience" 02nd Annual International Conference on Law, Regulations and Public Policy. 2013. Global Science and Technology Forum (GSTF). ISBN. 2251-3809

Watney Melvina MM "When does abuse of social media constitute a crime? A South African legal perspective within a global context" ISSE 2013 Securing Electronic Business Processes: Highlights of the Information Security Solutions Europe 2013 Conference. Springer Vieweg. ISBN 978-3-658-03370-5

- JOURNALS -

Alberts Riaan RW "I love the smell of perfume in the morning" - the L'Oreal case and trade mark infringement" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Aucamp Renee Louise RL "The incidental credit agreement: a theoretical and practical perspective (1)" Tydskrif vir hedendaagse romeins-hollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 3

Aucamp Renee Louise RL "The incidental credit agreement: a theoretical and practical perspective (2)" Tydskrif vir hedendaagse romeins-hollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 4

Barrie George GN "A bird's eye view of international law in the twentieth century : from the Hague peace conference to the Kyoto protocol : notes and comments" South African Yearbook of International Law (DHET) 2012 Vol. 37

Barrie George GN "Decisions of the extinct Appellate Committee of the House of Lords will continue to resonate in South African administrative, constitutional and international law" Southern African Public Law (SA Public Law) (DHET) 2013 Vol. 28 No. 2

Barrie George GN "The application of the doctrine of proportionality in South African courts" Southern African Public Law (SA Public Law) (DHET) 2013 Vol. 28 No. 1 Barrie George GN "Accepting state responsibility by means of an 'apology': the Australian and South African experience" Comparative and international law journal of Southern Africa (IBSS) 2013 Vol. 46 No. 1

Barrie George GN "Giving due consideration to views expressed by the child in family law proceedings: the Australian experience and lessons for South Africa" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Barrie George GN "The divergent constitutional approach to hate speech in South Africa and the United States" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Barrie George GN "The United Nations declaration on the rights of indigenous people: implications for land rights and self-determination" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Bilchitz David DI "Human rights accountability in domestic courts: does the kiobel increase the global governance gap?" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Dafel Michael M "The negative obligations of the housing right: an analysis of the duties to respect and protect" South African Journal on Human Rights (ISI) 2013 Vol. 29 No. 3

Djoyou Kamga Serges SA "The right to basic sanitation: a human right in need of constitutional guarantee in Africa" South African Journal on Human Rights (ISI) 2013 Vol. 29 No. 3

Djoyou Kamga Serges SA and Fombad Charles "A critical review of the jurisprudence of the African commission on the right to development" Journal of African Law (ISI) 2013 Vol. 57 No. 2

Du Plessis Wilhelmina WJ "The usefulness of Michelman's utilitarian approach to compensation for expropriation in South Africa" Stellenbosch Law Review (DHET) 2013 Vol. 24 No. 2

Friedman Annemarie Louise AL and Otto Johannes JM "Section 103(5) of the National Credit Act 34 of 2005 as inspired by the common law in duplum rule (2)" Tydskrif vir hedendaagse romeinshollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 3

Friedman Annemarie Louise AL and Otto Johannes JM "Section 103 (5) of the National Credit Act 34 of 2005 as inspired by the common-law in duplum rule (1)" Tydskrif vir hedendaagse romeinshollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 2

Heleba Siyambonga SC and Djoyou Kamga Serges SA "Can economic growth translate into access to rights? Challenges faced by institutions in South Africa in ensuring that growth leads to better living standards" Sur: international journal on human rights (IBSS) 2012 Vol. 9 No. 17

Kapindu Redson RE "Courts and the enforcement of socioeconomic rights in Malawi: jurisprudential trends, challenges and opportunities" African human rights law journal (IBSS) 2013 Vol. 13 No. 1

Martinek Michaela MG "Comparative jurisprudence-what good does it do? History, tasks, methods, achievements and perspectives of an indispensable discipline of legal research and education" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Millard Daleen D "Hello, POPI? On cold calling, financial intermediaries and advisors and the protection of personal information bill" Tydskrif vir hedendaagse romeins-hollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 4

Millard Daleen D and Botha MM "The buck stops ... where, exactly? On outsourcing and liability towards third parties" Obiter (DHET) 2013 Vol. 34 No. 3

Millard Daleen D and Vergano Viviana V "Hung out to dry? Attorney-client confidentiality and the reporting duties imposed by the Financial Intelligence Centre Act 38 of 2001" Obiter (DHET) 2013 Vol. 34 No. 3

Nyenti Mathias MAT "Access to justice in the South African social security system: towards a conceptual approach" De Jure (DHET) 2013 Vol. 46 No. 4

Otto Johannes JM "Vetustas, onheuglike tye en die witpad by Langebaan" Fundamina: a Journal of Legal History (DHET) 2013 Vol. 19 No. 1

Otto Johannes JM "Berekope en die Consumer Protection Act" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Otto Johannes JM "Koop van 'n saak vir sy normale of vir 'n bepaalde doel. En die een en ander oor winkeldochters" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Otto Johannes JM "Onagsame wetsopstelling - die Nasionale Kredietwet op die operasietafel" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Rautenbach Ignatius IM "Vonnisbespreking: rasionaliteit - die president se eie administratiefreg? Democratic alliance v President of the RSA 2012 12 BCLR 1261 (KH)" LitNet Akademies (DHET) 2013 Vol. 10 No. 2

Rautenbach Ignatius IM "Constitutional Court 1995 – 2012: how did the cases reach the court, why did the court refuse to consider some of them, and how often did the court invalidate laws and actions?" Potchefstroomse elektroniese regsblad/Potchefstroom electronic law journal (IBSS) 2013 Vol. 16 No. 4

Rautenbach Ignatius IM "Expropriation and arbitrary deprival of property: five forensic constructions" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Rautenbach Ignatius IM "Overview of constitutional court judgments on the bill of rights - 2012" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Rautenbach Ignatius IM "The liability of organizers for damage caused in the course of violent demonstrations as a limitations of the right to freedom of assembly" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Rautenbach Ignatius IM and Heleba Siyambonga SC "The jurisdiction of the constitutional court in non-constitutional matters in terms of the Constitution Seventeenth Amendment Act of 2012" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Reinecke Machiel MIB "Insurable interest" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Roux Mispa M "The Erga Omnes obligation to prevent and prosecute gross human rights violations with special emphasis upon genocide and persecution as a crime against humanity" African Yearbook on International Humanitarian Law (DHET) 2012

Roux Mispa M "Reaction to early warnings of gross human rights violations: preventative steps that could be taken by the international community" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Schoeman Heidi HC "The rights granted to trade unions under the companies Act 71 of 2008" Potchefstroomse elektroniese regsblad/Potchefstroom electronic law journal (IBSS) 2013 Vol. 16 No. 3

Slade Bradley BV "The less invasive means argument in expropriation law" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Sonnekus Jean JC "Koekoeskuikens en onbedoelde saakwaarnemings as grondslag vir 'n eis vir onverskuldigde betaling-enkele kritiese regsvergelykende opmerkings (1)" Tydskrif vir hedendagse romeins-hollandse reg/Journal of contemporary Roman-Dutch law (IBSS) 2013 Vol. 76 No. 4

Sonnekus Jean JC "Besitlose pandreg en notariële verbande - regsvergelykende lesse" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Sonnekus Jean JC "Beskerming vervat in die wet op huweliksgoedere 88 van 1984 - vir wie?" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Sonnekus Jean JC "Brandversekering en lakse plaaslike owerhede - rus die skade waar dit val?" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 1

Sonnekus Jean JC "Eienaars en ander reghebbendes mag ervaar dat swye nie altyd goud werd is nie" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Sonnekus Jean JC "Notariele verbande lei na twintig jaar duidelike wetgewing steeds tot verwarring" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 2

Sonnekus Jean JC "Tekenbevoeghede van 'n senior beampte ten bate van 'n universiteit waar bly die billikheid?" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Swart Mia M "Apartheid reparations: in search of an appropriate remedial theory" Southern African Public Law (SA Public Law) (DHET) 2013 Vol. 28 No. 1

Swart Mia M "Alternative fora for human rights protection? An evaluation of the human rights mandates of the African sub-regional courts" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Tuovinen Juha JT "The role of international law in constitutional adjudication: Genister v President of the Republic of South Africa" South African law journal (IBSS) 2013 Vol. 130 No. 4

Van der Linde Kathleen KE and Luiz S "The Financial Markets Act 19 of 2012: some comments on the regulation of market abuse" SA Mercantile Law (DHET) 2013 Vol. 25 No. 4

Van Staden Marthinus MJ "The role of the judiciary in balancing flexibility and security" De Jure (DHET) 2013 Vol. 46 No. 2

Van Staden Marthinus MJ "Onbillike arbeidspraktyke: 'n geslote begrip?" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Watney Melvina MM "Die grondwetlikheid van inhegtenisneming sonder lasbrief onder die soeklig" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 3

Watney Melvina MM "Moord en strafbare manslag by padsterftes" Tydskrif Vir Die Suid-Afrikaanse Reg (ISI) 2013 Vol. 4

Winks Benjamin BE and Milo D "Homeland: the development of the principle of open justice to protect South Africans from abuse of their asylum system" Journal of media law (IBSS) 2013 Vol. 5 No. 2

FACULTY OF MANAGEMENT Executive Dean: Prof Daneel van Lill



The Faculty of Management focuses on the applied managerial sciences. The strategic intent of the Faculty has shifted, since 2011, from administrative effectiveness and efficiency towards systemic and systematic development of steady, predictable growth. The Faculty is comparable to a home for seven academic departments and two schools, two research-based centres and an institute, as well as two centres focused on small business and social entrepreneurship development. The Faculty's research focus moved from a predominantly South African focus in three areas to a more diversified spread in eight areas based on 378 study titles in the 2011/12 period with the concomitant shift in focus and emphasis towards development into Africa.

POSTGRADUATE GRADUATIONS 2013

Swart, Magdalena Petronella (Leadership in Performance and Change); Thesis: A business tourism service quality scorecard for predicting tourist retention. Supervisor: Prof G Roodt

Brits, David Wilhelmus (Leadership in Performance and Change); **Thesis**: Building and validating a competency model delivered by a corporate university. **Supervisor**: Prof TH Veldsman

Naidoo, Vinessa (Leadership in Performance and Change); Thesis: Alignment of internal and external branding in a leader group. Supervisor: Prof WJ Schurink and Co-supervisor: Prof JE Coetzee Prof JE Coetzee Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN. 978-0-19-040801-5

FACULTY RESEARCH REPORTS

Odendaal, Aletta (Industrial Psychology); Thesis: The measurement of social desirability: A cross-cultural perspective. Supervisor: Prof GP De Bruin and Co-supervisor: Prof G Roodt Dunne, Ilke Noêlle (Personal and Professional Leadership); Thesis: Graduate identity development in the first year of work. Supervisor: Prof A Bosch

Letsoalo, Mositadi Bertha (Human Resource Development); Thesis: Stakeholders' perceptions of a human resources development intervention. Supervisor: Prof JE Coetzee

Lubbe, Isolde (Marketing Management); Thesis: Choice factors and the perceived value that influence prospective university students' intention to enrol – A choice model. Supervisor: Prof CJ Jooste and Co-supervisor: Prof D Petzer

Senne, Mathobosi Yvonne (Leadership in Performance and Change); Thesis: Individual and organisational barriers to gender equity: A comparative study of two South African universities. Supervisor: Prof S Nkomo

RESEARCH OUTPUTS 2013

- BOOKS -

Marnewick Carl C, Eloff M, Labuschagne L, Steyn H and Tobin P "Prosperous Report: The African Edition - Project Management vs Project Outcomes in Africa" 2013 Project Management South Africa ISBN. 978-0-620-56906-4

- CHAPTERS -

De Bruin Gideon GP and Taylor N "The basic traits inventory" in Psychological Assessment in South Africa: Research and Applications 2013 Wits University Press ISBN. 978-1-86814-578-2

Dhliwayo Shepherd S *"Entrepreneurship and competitive strategy"* in Service Science Research, Strategy and Innovation: Dynamic Knowledge Management Methods 2012 IGI Global ISBN. 978-1-4666-0077-5

Kondlo Kwandiwe KM "Africa's "unended quest" for emancipation" in Perspectives on Thought Leaders for Africa's Renewal 2013 Africa Institute of South Africa ISBN, 978-0-7983-0452-8

Veldsman Theo TH "People professionals fit for emerging countries" in Talent Management in Emerging Markets 2013 Knowres Publishing ISBN. 978-1-86922-194-2

- CONFERENCE PROCEEDINGS -

Arendse Jerome Rayford JR and Marnewick Carl C "The disparity between project success and project managers' competencies" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press. ISBN. 978-0-19-040801-5

Arthur Joel J and Rensleigh Christopher CW "Internet and web: the impact on the small church environment" 13th Annual Information and Knowledge Management Conference: A Case Study Approach 2013 University of Johannesburg ISBN. 978-0-620-59435-6

Barlow-Jones Glenda G and Van der Westhuizen Duan D "Digital literacy in the 21st century: fact or fiction?" World Conference on Educational Media & Technology 2013 Association for the Advancement of Computing in Education (AACE) ISBN. 978-1-939797-03-2

Barnard Zenia Z and Rensleigh Christopher CW "From conceptualization to commercialization: case study of a web-based research spinoff" 15th Annual Conference on World Wide Web Applications 2013 Cape Peninsula University of Technology ISBN. 978-0-620-59570-4

Bresler Marius M and De Meyer Christine CF "The influence of gender on the expectations of black generation Y clients towards their banks' CRM efforts" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN. 978-0-19-040801-5

Brits David Wilhelmus DW and Veldsman Theo TH "The crafting and validation of a global competency model for central bankers, and it's relationship with a central bank's global influence and standing" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Bronkhorst Seugnet S "How South Africa adapted after the global financial crisis and changes in South African circumstances" World Finance Conference 2013 World Finance Conference ISBN. 978-989-20-4030-1

Bronkhorst Seugnet S and Mqokiyana Nkululeko N "The regulation of hedge fund managers in South Africa - an impact assessment" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Bwalya Kelvin Joseph J, Du Plessis Tanya T and Rensleigh Christopher CW "A conceptual framework for e-government development in Zambia" 02nd International Conference on E-Leadership: Technology Innovation and Leadership in an Electronic Age 2013 University of Pretoria ISBN. 978-1-4799-2427-1

Chetty Jacqueline J and Van der Westhuizen Duan D "I hate programming" and other oscillating emotions experienced by novice students learning computer programming" World Conference on Educational Media & Technology 2013 Association for the Advancement of Computing in Education (AACE) ISBN. 978-1-93797-03-2

Chetty Jacqueline J and Van der Westhuizen Duan D "Meta-cognitive awareness and skill amongst students studying computer programming" ISTE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology 2013 Unisa Press ISBN. 978-1-86888-742-2

Chetty Jacqueline J and Van der Westhuizen Duan D "The transient emotions and conceptions of students crossing a threshold while learning to program: a phenomenographic study" World Conference on Educational Media & Technology 2013 Association for the Advancement of Computing in Education (AACE) ISBN. 978-1-937977-03-2 Cunningham Nicole N, Bogaards Marlene M and De Meyer Christine CF "Investigating demographic and patronage differences with regard to the spreading of online word-of-mouth communication about cellphones" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN, 978-0-19-040801-5

De Meyer Christine CF and Petzer D "Product involvement and online word-of-mouth in the South African fast food industry" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

Deen Anisah A and Balkaran R "The evaluation of hospitality within a provincial hospital in the southern area of Durban, KZN" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Dhliwayo Shepherd S and Radioere S "The relationship between business start-up factors in the South African small enterprise sector" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN, 978-0-19-040801-5

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Drotskie Adri A "Total customer experience and strategic differentiation" 2013 Annual Conference of the Emerging Markets Conference Board 2013 Nelson Mandela Metropolitan University Business School ISBN. 978-0-620-57660-4

Dube Partson P, Battle Kimberly KJ, Bvuma Mothlago MS and Muyengwa Goodwell G "Investigating the relationship between product modularity and supply chain integration" 06th International Conference on Engineering and Business Education 2013 University of Wismar, Germany ISBN, 978-3-942100-03-8

Erasmus Lesley Michael LM and Goldman Geoffrey GA "Mentoring and coaching in a public sector department in South Africa" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

Eve Samantha Claire SC and Goldman Geoffrey GA "African management thinking: what has happened to it?" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

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Gatsheni Barnabas BN, Mangane J and Sikakane I "The design for a Johannesburg commuter rail of an incidence response system based on web services and UML" 15th Annual Conference on World Wide Web Applications 2013 Cape Peninsula University of Technology ISBN, 978-0-620-59570-4

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Kuthadi Venu VM, Marwala Tshilidzi T, Ranjan Abhishek A and Selvaraj Rajalakshmi "Detection and avoidance of routing attack in mobile ad-hoc network using intelligent node" International Multi-Conference on IT, Computers, Electronics and Mechanical Engineering & International Multi-Conference on Education, Law, Environment and Metallurgical Engineering 2013 Planetary Scientific Research Centre ISBN. 978-93-82242-50-5

Kuthadi Venu VM "Detection of Proficient and distinct motifs in sequence data sets using PSM" 07th International Conference on Intelligent Systems and Control 2013 Allied Publishers Pvt Ltd ISBN, 978-1-4673-4601-6

Le Coultre Beatrice Marie Therese BMT, Roberts-Lombard Mornay M and Van Tonder F The influence of trust and commitment on customer loyalty - an application to the four major banks and Capitec Bank" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN, 978-0-19-040801-5

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Mabala Makwena Jane MJ and Groenewald Darelle D. "Corporate entrepreneurship in the public sector" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN, 978-0-19-040801-5

Makina Rumbidzai Charity RC and Bosch Anita A "Female dress style in a South African corporate workplace" Annual Paris Business and Social Science Research Conference 2013 World Business Institute Australia ISBN, 978-1-922069-27-6

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Mpinganjira Mercy M and Mbango Phineas P "Profiling non-users of e-government services: in guest of e-government promotion strategies" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

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Obwaka Angela Abiero AA and Goldman Geoffrey GA "The apparent disjoint between management research and management practice" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN 1-932917-09-8

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Pandy Wayde Roderick WR and Rogerson Christian CM "The timeshare industry in an emerging economy: contemporary South African challenges" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8 ISBN. 1-931649-27-3

Potgieter Andrea A and Maboa Tebogo Dijeloang TD "Identifying an approach for implementing knowledge management" Paris European International Academic Conference 2013 The Clute Institute ISBN. 1539-8757

Potgieter Andrea A "Online social networks and employee productivity: a longitudinal study" 05th Annual American Business Research Conference 2013 World Business Institute Australia ISBN. 978-1-922069-24-5

Rassaki Abdoul A and Nel Andre AL "Quality of service in MPLS networks" 15th IASTED International Conference on Control and Applications 2013 ACTA Press (Zurich, Calgary, Anaheim) ISBN, 978-0-88986-958-5

Roberts-Lombard Mornay M and Gaworek H "A multidisciplinary argument for the alignment of two disciplines - marketing and design" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

Roberts-Lombard Mornay M and Goldman Geoffrey GA "Differences in ethical beliefs and intentions of university students - a case study perspective" 25th Annual Conference of the South African Institute for Management Scientists: Celebrating 25 years of Management Resilience 2013 Oxford University Press ISBN. 978-0-19-040801-5

Roberts-Lombard Mornay M, Conradie ES and Klopper H B "The influence of eight internal marketing elements on brand awareness in the services sector - a developing conomy perspective" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities (GBATA) 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

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Roodt Gerhard G and Mouzouris Christina C "The development of an engaging leadership climate questionnaire" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Stiehler Beate BE and Toscani G "Political art: an investigation of the Jacob Zuma spear painting" Annual Conference of the Academy of Marketing Science: Ideas in Marketing: Finding the New and Polishing the Old 2013 Academy of Marketing Science ISBN. 0-939783-40-1

Swart Magdalena Petronella MP and Roodt Gerhard G "Mapping the contours of a business tourist service quality scorecard prediction model" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649 -27-3

Taylor Susanne S and Govender Cookie CM "Towards a work integrated learning partnership model for higher education and industry - a human resource management pilot project" 18th World Conference on Cooperative and Work-Integrated Education: "WIL-power -Fueling the Future Workforce" 2013 WACE ISBN. 2152-0518

Thomas Deon Mark DM and Marnewick Carl C "A tentative information systems model for supply chain agility" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN, 1-931649-27-3

Thomas Peta PH "The development of an organisations' knowledge through business events: the value of event organizers and the organization in event design" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Ukpere Wilfred WI, Ogbo Ann I and Orga Chukwudi "Technical staff motivation in Nigeria: a strategic imperative" International Conference on Modeling and Simulation in Engineering, Economics, and Management 2013 Springer ISBN. 978-3-642-38278-9

Van der Westhuizen Pieter PH and Kesa Hema H "Developing skills through work integrated learning: important or unimportant?" 18th World Conference on Cooperative and Work Integrated Education: "WIL-power - Fueling the Future Workforce" 2013 WACE ISBN, 2152-0518

Van der Westhuizen Pieter PH and Kesa Hema H "Integrating service learning theory and practice in community settings: approaches, opportunities and ongoing challenges" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN. 1-931649-27-3

Van Tonder Christian CL and Miyamoto T "The sense of organization identity (SoOI)... systematically inching forward" 15th Annual International Conference: Globalizing Business for the Next Century: Visualizing and Developing Contemporary Approaches to Harness Future Opportunities 2013 GBATA & EBSCO Publishing ISBN. 1-932917-09-8

Van Tonder Estelle F. Roberts-Lombard Mornay M and Van Vuuren Tertius T. "The influence of three antecedents of CRM on customer loyalty in a service enviro nent" 07th Internationa Business Conference 2013 North-West University ISBN. 978-0-620-55786-3

Van Wyk Rene R "The optimal functioning of familiness as familiness capital and its relationship with psychological capital" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN, 1-931649-27-3

Van Wyk Rene R and Adonis M "The relationship between corporate entrepreneurship.

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Veldsman Theo TH and Wort Albert AR "Addressing the need for better and different leadership in a reframed/reframing world: what are the leadership development leading practices?" 30th Pan Pacific Conference: Forging the Legacies of Emerging Economies 2013 Pan-Pacific Business Association ISBN, 1-931649-27-3

- JOURNALS -

Abbott Penelope Margaret PM. Coetzee Josef JE and Coetzee Xenia X "The human resource function contribution to human development in South Africa" SA Journal of Human Resource Management (DHET) 2013 Vol. 11 No. 1

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Becker Jurgen JR, Brits NM and Meiring Deon "Investigating the construct validity of a development assessment centre" SA Journal of Industrial Psychology (Journal of Industrial Psychology)(DHET) 2013 Vol. 39 No. 1

Bothma Filippus Cornelius FC and Roodt Gerhard G "The validation of the turnover intention scale" SA Journal of Human Resource Management (DHET) 2013 Vol. 11 No. 1

Brand Conrad, Havenga W and Visagie J "Revisiting the validity and reliability of the gallup workplace audit in a South African petrochemical company" Journal of social sciences (IBSS) 2013 Vol. 37 No. 1

Burger Daniel DH, Crous Frederik F and Roodt Gerhard G "Exploring a model for finding meaning in the changing world of work (Part 3: meaning as framing context)" SA Journal of Industrial Psychology (Journal of Industrial Psychology) (DHET) 2013 Vol. 39 No. 2

Butler Gareth G and Hannam Kevin "Contrasting performances of tourist and migrant mobilities in Norwegian hostels" Scandinavian Journal of Hospitality and Tourism (ISI) 2013 Vol. 13 No. 3

Butler Gareth G and Richardson Scott "Young Sowetans and tourism participation: identifying opportunities to develop further engagement with South African national parks" African Journal for Physical, Health Education, Recreation and Dance (AJPHERD)(DHET) 2013 Vol. Supplement 2

Chaderopa Chengeto C and Chaderopa Chengeto C "Cross-border cooperation in transvation-development initiatives in southern Africa: the role of borders of boundary conser the mind" TOURISM MANAGEMENT (ISI) 2013 Vol. 39

Conradie Elizabeth ES, Klopper Hendrik HB and Roberts-Lombard Mornay M "Strengthening brand awareness through internal marketing: an application to the car rental industry Journal of Contemporary Management (DHET) 2013 Vol. 10

De Bruin Gideon GP and Henn Carolina CM "Dimensionality of the 9-item Utrecht Work Engagement Scale (UWES-9)" PSYCHOLOGICAL REPORTS (ISI) 2013 Vol. 112 No. 3

De Bruin Gideon GP, Aquinis H, Culpepper SA, Dalton DR and Gottfredson RK "Doing good and doing well: on the multiple contributions of journal editors" Academy of Management Learning & Education (ISI) 2013 Vol. 12 No. 4

De Bruin Gideon GP, Antonietti J, Becker Jurgen JR, Gvorkos Christina, Massoudi Koorosh, Pocnet C and Rossier Jerome "Comparing the horizontal and vertical individualism and collectivism scale and the Auckland individualism and collectivism scale in two cultures: Switzerland and South Africa" CROSS-CULTURAL RESEARCH (ISI) 2013 Vol. 47 No. 3

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Dube Busani B and Roberts-Lombard Mornay M "A guiding framework for conducting focus group research" Journal of Contemporary Management (DHET) 2013 Vol. 10

Eloff Morne M and Carstens Stephanus SC "Managing the maintenance inventory of a cement manufacturer" Journal of Transport and Supply Chain Management (DHET) 2013 Vol. 7 No. 1

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Goldman Geoffrey GA "Reflections on capitalism: insights from modern music" Journal of social sciences (IBSS) 2013 Vol. 36 No. 2

Hall Michael C "Framing behavioural approaches to understanding and governing sustainable tourism consumption: beyond neo-liberalism, "nudging" and "green growth"?" Journal of Sustainable Tourism (IS) 2013 Vol. 21 No. 7

Hall Michael C "Framing tourism geography: notes from the underground" ANNALS OF TOURISM RESEARCH (ISI) 2013 Vol. 43

Hall Michael C, Gossling S and Scott D "Challenges of tourism in a low-carbon economy" Wiley Interdisciplinary Reviews-Climate Change (ISI) 2013 Vol. 4 No. 6

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Hampton Mark P and Daldeniz B "Dive tourism and local communities: active participation or subject to impacts? Case studies from Malaysia" International Journal of Tourism Research (ISI) 2013 Vol. 15 No. 5

Hampwaye Godfrey "Benefits of urban agriculture: reality or illusion?" GEOFORUM (ISI) 2013 Vol. 49

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Rogerson Christian CM "Responsible tourism and local linkages for procurement: South African debates and evidence" African Journal for Physical, Health Education, Recreation and Dance (AJPHERD) (DHET) 2013 Vol. Supplement 2

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Rogerson Christian CM "Improving market access opportunities for urban small, medium and micro-enterprises in South Africa" Urbani izziv (IBSS) 2013 Vol. 24 No. 2 Van Wyk Rene R "The manifestation of familiness resources and psychological capital as familiness capital: a conceptual analysis" International business and economics research journal (IBSS) 2013 Vol. 12 No. 9

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Rogerson Christian CM and Letsie Tokelo T "Informal sector business toursim in the global south: evidence from Maseru, Lesotho" Urban forum (IBSS) 2013 Vol. 24 No. 4

Rogerson Christian CM and Rogerson Jayne JM "African tourism scholarship: trends in academic journal publishing" African Journal for Physical, Health Education, Recreation and Dance (AJPHERD) (DHET) 2013 Vol. Supplement 2

Rogerson Christian CM and Thornton A "African cities and the millennium development goals: a case for applied geography" APPLIED GEOGRAPHY (ISI) 2013 Vol. 36

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Saarinen J and Kajan E "Tourism, climate change and adaptation: a review" Current Issues in Tourism (ISI) 2013 Vol. 16 No. 2

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Saarinen J, Hall CM and Tervo-Kankare K "Christmas tourists' perceptions to climate change in Rovaniemi, Finland" Tourism Geographies (ISI) 2013 Vol. 15 No. 2

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Tabane Ramaesela Dorcas Tshepisho RDT, Bosch Anita A and Roodt Gerhard G "Organization value-person value congruence and the relation to organizational commitment" South African Journal of Labour Relations (DHET). 2013 Vol. 37 No. 1

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Van den Berg Hugo H, Labuschagne J and van den Berg U "The effects of greening the supplier and innovation on environmental performance and competitive advantage" Journal of Transport and Supply Chain Management (DHET) 2013 Vol. 7 No. 1

Van Der Merwe Clinton David CD and Rogerson Christian CM "Industrial heritage tourism at the 'Big Hole', Kimberley, South Africa" African Journal for Physical, Health Education, Recreation and Dance (AJPHERD) (DHET) 2013 Vol. 19 No. 2

Van Jaarsveld Leani L, Heyns Gert GJ and Kilbourn Peter PJ "Logistics opportunity costs: a mining case study" Journal of Transport and Supply Chain Management (DHET) 2013

FACULTY RESEARCH REPORTS

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Van Wyk Rene R and Adonis M "The prediction of flexibility and its relationship with work variables" Journal of applied business research (IBSS) 2013 Vol. 29 No. 6 $\,$

Vimba Mkhuseli Cyprian MC, Coetzee Josef JE and Ukpere Wilfred WI "A relationship between leadership work ethic and organizational performance in the public sector" Journal of social sciences (IBSS) 2013 Vol. 35 No. 2

FACULTY OF SCIENCE Executive Dean: Prof Annah Moteetee



In 2013, 35 had a research output in journals, proceedings and books of 2.0 or more units as indicated below. This is one individual less than the 36 recorded in 2012 and compares very well with the 28 in 2011 and 20 in 2010. It is very gratifying to see an increasing number of staff members being involved in active research but it is also disturbing to note that there are senior staff members who have had no published output in the recent past. There were also no Post-doctoral fellows who had achieved an output of 2 units or more.

Staff members and visiting Professors who had 2 or more

publication units in 2013					
Staff member	Department	Total Publication Units in 2013			
VAN WYK, B-E	BOT	11.46			
HENNING, MA	MAT	7.91			
ROGERSON, JM	GGR	7.50			
STRYDOM, AM	PHY	6.65			
MAMBA, BB	APC	6.53			

Subsidised publication output

The tables and diagram below illustrate the subsidized publication output for 2013 and also for the past 6 years.

The Faculty has submitted a subsidy claim to the Department of Higher Education and Training (DHET) of a total of 230.12 research units. While this numbers marginally below the output of 2012 (which was 235.06) it is well above the 2011 output of 196.19 and the 2010 output of 135.48 units. In line with the Faculty's drive to enhance its international footprint and exposure, it is gratifying to note that 94.2% of the journal units in 2013 were published in international journals of high repute. This figure compares well with the 92.2% achieved in 2012.

The units for 2013 in the different subsidy categories are:

Journals	194.68
Proceedings	10.43
Books	21.77
Chapters in books	3.24
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MASTER'S AND DOCTORAL STUDENTS AND GRADUATES AND PUBLICATIONS GENERATED BY STUDENTS

Applicant	Date of Application	Reference Number (if registered)	Project from Which it was developed	Countries of Registration	Dept
Cronje MJ, Meijboom R	06/12/2011	South African Patent Application No. 2011/08944	Novel metallo- drugs induce apoptosis in cancer cells (I)	RSA	BIC
Cronje MJ, Meijboom R	14/01/2013	South African Patent Application No. 2013/00235	Novel metallo- drugs induce apoptosis in cancer cells (II)	RSA	BIC
Cronje MJ, Meijboom R	06/12/2012	International Patent Application No. PCT/ IB2012/057029).	Novel metallo- drugs induce apoptosis in cancer cells (I)	RSA (submitted to Patent Office in Switzerland, awaiting outcome of examination)	BIC

Applicant	Date of Application	Reference Number (if registered)	Project from Which it was developed	Countries of Registration	Dept
Cronje MJ, Meijboom R	12/2013	International Patent to be filed in Dec 2013.	Novel metallo-drugs have anti-microbial activity	USA	BIC
Meijboom R; Cronje MJ	06.06.2013	WO Patent 2,013,084,185		PCT	CEM
Meijboom R; Cronje MJ	06.12.2013	Not filed yet		PCT	CEM
Connell SH	In Progress with the UJ Commer-		Mineral-PET - Detection of Explosives by PET	To be advised	PHY
Cook M	cialisation Office				PHY
Connell SH	In Progress with the UJ		Diamond Physics - Quantum	To be advised	PHY
Cook M	Commer- cialisation Office		Security		PHY
Dekadjevi DT	17-Nov-11		Magnetic Properties of	France	PHY
Prinsloo ARE	-		Polycristalline Ferromagnetic /Multife rroic Nanostructures.		PHY
Strydom AM					PHY
Snyman JL					PHY
Youssef BJ					PHY

Research income and expenditure

All academics can apply to the Faculty Research Fund and the Central Research Fund through the Faculty's Research Committee for financial support for well-motivated projects that meet the specified requirements. The Faculty of Science aims at encouraging all academics to be involved in research and the training of postgraduate students. The University's contribution with regard to research funding includes the following sources: the SASOL, Walker, Dean's and Central Research Fund. The Faculty's Research Committee evaluates all applications for funding by the SASOL, Walker, and Central Research Funds. Academics may apply to the Dean on ad hoc-basis for support for activities that are research-related and which cannot be funded in any other way.

POSTGRADUATE GRADUATIONS 2013

Adams, Feyisayo Victoria (Chemistry); Thesis: Polysulfone/B-Cyclodextrin polyurethane mixedmatrix composite nanofiltration membrane for water treatment. Supervisor: Prof RWM Krause, Co-supervisor: Prof BB Mamba and Co-supervisor: Prof EMV Hoek (University of California)

Chatiza, Fungayi Primrose (Zoology); Thesis: Characterization of testes and functional evaluation of cryopreserved epididymal spermatozoa from three South African antelope species. Supervisor: Prof GM Wagenaar, Co-supervisor: Prof TL Nedambale (Animal Production Institute, Pretoria) and Co-supervisor: Dr P Bartels (Wildlife Biological Resources NECSA)

Crafford, Dionne (Zoology); Thesis: Aspects of the biology of selected monogenean parasites from fish in the Vaal Dam, South Africa. Supervisor: Prof A Avenant-Oldewage and Co-supervisor: Dr W Luus-Powell (University of Limpopo)

Dlamini, Derrick Sibusiso (Chemistry); Thesis: Polymer composites and Nanofiltration membranes and their application in Water Treatment. Supervisor: Prof AK Mishra and Co-supervisors: Prof BB Mamba and Co-supervisor: Prof EMV Hoek (University of California in Los Angeles, USA)

Dlamini, Langelihle Nsikayezwe (Chemistry); Thesis: Doped Nanotitanium Dioxide for Photocatalytic Applications. Supervisor: Prof RVM Krause and Co-supervisor: Prof GU Kulkarni (Jawaharlal Nehru Center for Advanced Scientific Research, India) and Co-supervisor: Dr SH Durbach (University of Witwatersrand)

James, Jacinda Terry (Biochemistry); Thesis: Determination and manipulation of biologically active triterpenoid secondary metabolites in Centella asiatica. Supervisor: Prof IA Dubery

Kuvarega, Alex Tawanda (Chemistry); Thesis: Photocatalytic performance of nitrogen-platinum group metal co-doped TiO2 supported on carbon nanotubes for visible light degradation of organic pollutants in water. Supervisor: Prof RWM Krause and Co-supervisor: Prof BB Mamba

Madala, Ntakadzeni Edwin (Biochemistry); Thesis: Metabolomic studies of biotransformationrelated changes in plant metabolism in response to isonitrosoacetophenone treatment. Supervisor: Prof IA Dubery and Co-supervisor: Prof PA Steenkamp (CSIR) and Co-supervisor: Dr LA Piater

Malinga, Soraya Phumzile (Chemistry); Thesis: β-Cyclodextrin dendritic polymers and nanostructured materials for water treatment. Supervisor: Prof BB Mamba and Co-supervisor: Prof RWM Krause and Co-supervisor: Prof S Mapolie (University of Stellenbosch)

Mbukwa, Elbert Anyambilile (Chemistry); Thesis: Selective Bio-analytical Methods for the Specific Identification and Detection of Toxic Microcystis Species and Microcystins in Water. Supervisor: Dr TAM Msagati and Co-supervisor: Prof BB Mamba

McCoy, John Patrick (Mathematics); Thesis: Paired Domination in Graphs. Supervisor: Prof MA Henning

Mokae, Motsidisi Lorraine Lolo (Aquatic Health); Thesis: Histomorphology as a tool to assess

the health status of five economically important fish species in the Okavango Delta Panhandle, Botswana. Supervisor: Prof GM Wagenaar and Co-supervisor: Prof NJ Smit (North-West University) Mwangi, Isaac Waweru (Chemistry); Thesis: Functionalized synthetic- and bio-sorbents for removal of inorganic and organic contaminants in water. Supervisor: Prof JC Ngila and Co-supervisor: Dr P Ndunq'u (University of KwaZulu Natal) and Co-supervisor: Dr T AM Msaqati

Robbertse, Johannes Lodewickes (Mathematical Statistics); Thesis: Estimation of parameters and tests for parameter changes in fractional Gaussian noise. Supervisor: Prof F Lombard

Rogerson, Jayne Margaret (Geography); Thesis: The South African hotel industry 1990 – 2010: Changing structural, special and investment patterns. Supervisor: Prof NJ Kotze

Snyman, Jasper Lodewyk (Physics); Thesis: The magnetocaloric effect in rare-earth intermetallic compounds. Supervisor: Prof AM Strydom

Malherbe, Charl Wynand (Aquatic Health); Thesis: Validation and implementation of an ecological risk assessment (ERA) framework for pesticide use in the Vaalharts irrigation scheme. Supervisor: Prof V Wepener and Co-supervisor: Prof JHJ van Vuren

Ncube, Phendukani (Chemistry); Thesis: Fluorescent molecular sensors based on photoresponsive modified β -cyclodextrin and crown ethers for detecting organic molecules and metal ions in water. Supervisor: Prof RWM Krause and Co-supervisor: Prof BB Mamba

Peratheepan, Karthigesu Pararajasingam (Physics); **Thesis:** Thermal, electronic and magnetic properties of the cage-structured rare-earth system RT2AI10 (R = rare-earth and T = d-electron element). **Supervisor:** Prof AM Strydom

Vorster, Clarisa (Geology); Thesis: Laser ablation ICP-MS age determination of detrital zircons populations in the phanerozoic Cape and lower Karoo Supergroups (South Africa) and correlatives in Argentina. Supervisor: Prof JD Kramers and Co-supervisor: Prof NJ Beukes and Co-supervisor: Dr H van Niekerk

Wabo, Hervé (Geology); Thesis: Paleomagnetism of post-Transvaal sill complexes, selected dykes, and the Uitkomst Complex – relation to the Bushveld Complex. Supervisor: Dr MO de Kock and Co-supervisor: Prof NJ Beukes

RESEARCH OUTPUTS 2013

– BOOKS –

Buscher Bram Erik BE "Transforming the Frontier: Peace Parks and the Politics of Neoliberal Conservation in Southern Africa" 2013 Duke University Press ISBN. 978-0-8223-5420-8

Cairncross Bruce B and Beukes Nicolas NJ "The Kalahari Manganese Field: The Adventure Continues" 2013 Struik Nature ISBN. 978-1-92057-288-4

Henning Michael MA and Yeo Anders A "Total Domination in Graphs" 2013 Springer ISBN. 978-1-4614-6524-9

Van Wyk Ben-Erik B, Magee Anthony AR and Tilney Patricia PM "African Apiaceae: A Synopsis of the Apiaceae/Umbelliferae of Sub-Saharan Africa and Madagascar" 2013 Briza Publications ISBN. 978-1-920146-05-4

Van Wyk Ben-Erik B "Culinary Herbs & Spices of the World" 2013 University of Chicago Press & Kew Publishing, Royal Botanic Gardens Kew ISBN. 978-1-84246501-1

- CHAPTERS -

Ellefsen Ian ID and Von Solms Sebastiaan SH "A community-oriented approach to CIIP in developing countries" in Securing Critical Infrastructures and Critical Control Systems: Approaches for Threat Protection 2013 IGI Global ISBN. 978-1-4666-2659-1

Fosso Kankeu Elvis E, Fonteh P and Mishra Ajay AK "High-technology therapy using biomolecules or synthetic compounds for HIV inhibition" in Nanomedicine for Drug Delivery and Therapeutics 2013 Wiley (Scrivener Publishing) ISBN. 978-1-118-41409-5

Grobler Martha MM, Jansen van Vuuren J and Zaaiman J "Changing the face of cyber warfare with international cyber defense collaboration" in Case Studies in Information Warfare and Security for Researchers, Teachers and Students 2013 Academic Conferences and Publishing International Limited ISBN. 978-1-909507-06-7

Kothandapani Babu B and Mishra Ajay AK "Synthesis of carbon nano-tubes and its application of polymer en-grafted in cellular up-take" in Applications of Carbon Nanotubes 2013 Nova Science Publishers, Inc. ISBN. 978-1-62081-918-0

Kothandapani Babu B and Mishra Ajay AK "Synthesis of poly(methacrylate) encapsulated magnetite nano-particles via phosphonic acid anchoring chemistry and its applications toward biomedicine" in Nanomedicine for Drug Delivery and Therapeutics. 2013 Wiley (Scrivener Publishing) ISBN. 978-1-118-41409-5

Maebana Molahlegi MO and Mishra Shivani S "The beneficial utilization of an amorphous waste material: coal fly ash" in Amorphous Materials: New Research 2013 Nova Science Publishers, Inc. ISBN. 978-1-62417-678-4

Maina John JN "Molecular and Biological Aspects of Lung Development: Current Status of Understanding and Future Research Directions" in Advances in Medicine and Biology Volume 60 2013 Nova Science Publishers, Inc ISBN. 978-1-62417-122-2

Maina John JN "Structure and function of the avian respiratory system, with observation on its predisposition to injury by particulates and pathogenic microorganisms" in Birds: Evolution and Behavior, Breeding Strategies, Migration and Spread of Disease 2013 Nova Science Publishers, Inc ISBN. 97-8-162948-104-3

Mishra Ajay AK "An introductory note on carbon nano-tubes" in Carbon Nanotubes: Synthesis and Properties 2013 Nova Science Publishers, Inc. ISBN. 978-1-62081-914-2

Mishra Ajay AK and Maity A "Synthesis, reaction and mechanism of polymer-carbon nano-tubes nano-composites" in Carbon Nanotubes: Synthesis and Properties 2013 Nova Science Publishers, Inc. ISBN. 978-1-62081-914-2

Mishra Shivani S and Pandey S "Bioceramics: Silica-based Organic-Inorganic Hybrid Materials

for Medical Applications" in Nanomedicine for Drug Delivery and Therapeutics 2013 Wiley (Scrivener Publishing) ISBN. 978-1-118-41409-5

Mishra Shivani S "Carbon nano-tubes: multifunctional and multidimensional nano-biosystems for diagnostics and therapeutics" in Applications of Carbon Nanotubes 2013 Nova Science Publishers, Inc. ISBN. 978-1-62081-918-0

Rai Prahant Kumar PK and Mishra Ajay AK "Nanomedicinal approaches for diabetes management" in Nanomedicine for Drug Delivery and Therapeutics 2013 Wiley (Scrivener Publishing) ISBN. 978-1-118-41409-5

Shukla Sudheesh Kumar SK "Amorphous polymer based nano-composites for bio-sensor applications" in Amorphous Materials: New Research 2013 Nova Science Publishers, Inc. ISBN. 978-1-62417-678-4

- CONFERENCE PROCEEDINGS -

Corregedor Manuel Rodrigues MR and Von Solms Sebastiaan SH "Windows 8 32 bit improved security?" IEEE AFRICON 2013 Conference: Sustainable Engineering for a Better Future. 2013 IEEE. ISBN. 978-1-4673-5943-5

Damon Ferdinand F and Coetzee Marijke M "Towards a generic identity and access assurance model by component analysis- a conceptual review" 01st International Conference on Enterprise Systems. 2013 IEEE. ISBN. 978-1-4673-6412-6

Durandt Rina R and Jacobs Gerrit GJ "Learning mathematics with technology - a meaningful endeavour involving 2nd year education students" (STE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013 Unisa Press. ISBN. 978-1-86888-742-2

Goranko Valentin VF and Turrini "An offer you cannot refuse: obtaining efficiency and fairness in pre-play negotiation games with conditional offers" 04th International Workshop: Logic, Rationality and Interaction. 2013 Springer. ISBN. 978-3-642-40947-9

Goranko Valentin VF and Ajspur M "Tableaux-based decision method for single-agent linear time synchronous temporal epistemic logics with interacting time and knowledge" 05th Indian Conference: Logic and Its Applications. 2013 Springer. ISBN. 978-3-642-36038-1

Grobler Martha MM, Irwin B and Swart IP "Visualization of a data leak: how can visualization assist to determine the scope of an attack?" Information Security for South Africa Conference. 2013 IEEE. ISBN. 978-1-4799-0809-7

Hillebrand Channel C and Coetzee Marijke M "Towards reputation-as-a-service" Information Security for South Africa Conference. 2013 IEEE. ISBN. 978-1-4799-0809-7

Jacobs Melanie M and Jacobs Gerrit GJ "Student transition and role perceptions of first year science academics" (STE International Conference on Mathematics, Science and Technology Education: Towards Effective Teaching and Meaningful Learning in Mathematics, Science and Technology. 2013 Unisa Press. ISBN. 978-1-86888-742-2

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