

THE *Art* OF
ACCOMPLISHMENT

RESEARCH

Report

2014

RETHINK.REINVENT



UNIVERSITY
OF
JOHANNESBURG

VISION

An international university of choice, anchored in Africa, dynamically shaping the future.

Mission

Inspiring its community to transform and serve humanity through innovation and the collaborative pursuit of knowledge.

VALUES

IMAGINATION

- Shaping the future
- Thinking independently
- Developing a cosmopolitan identity
- Exhibiting ambition and drive
- Adopting entrepreneurial approaches

CONVERSATION

- Learning together from our diversity
- Making wise decisions collectively
- Engaging meaningfully with one another
- Displaying mutual respect
- Leading consultatively

REGENERATION

- Developing sustainably through creative contribution
- Introspecting for renewal
- Innovating for the common good
- Making positive change
- Taking advantage of overlooked opportunities

ETHICAL FOUNDATION

- Treasuring academic freedom
- Seeking balance in the pursuit of knowledge
- Facing challenges with courage and earning trust
- Acting responsibly by being fair, consistent and transparent
- Participating in and helping the community (ubuntu)*

*ubuntu

Twitter: @go2uj



Website: www.uj.ac.za



YouTube: YouTube/UniversityOfJohannesburgStrategicCommunication



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MESSAGE FROM THE VICE-CHANCELLOR AND PRINCIPAL



IHRON RENSBURG (PROF)
VICE-CHANCELLOR AND PRINCIPAL

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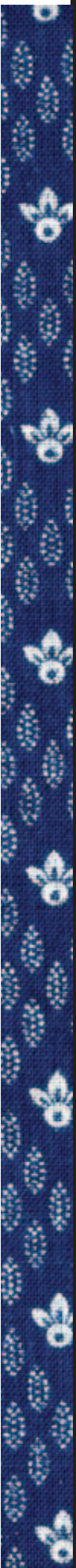
reflecting our global excellence and stature, during 2014, we sustained our Top 4% ranking in the QS Rankings, our Top 100 QS BRICS ranking (ranking 63rd), and achieved, for the first time, QS Top 200 subject rankings for Law, Education, Politics and International Relations, English Language and Literature, and Geography. These achievements, when placed alongside our extraordinary contributions to widening and deepening University access, and to transforming, diversifying and building the professions and vocations of our nation are, frankly, stupendous. UJ manages, remarkably, to achieve accessibility and excellence as one determined, honed and passionate drive.

UJ has made remarkable progress in our first decade. We have seen research publication output triple to almost 900 units; graduate output grow in leaps and bounds from 10 079 to 12 273 annually, and to 107 721 over the course of our first decade; our direct improvement of the skills base of business, industry and society as we work annually with more than 7 000 employees; our growing the number of black academics by 61% (from 244 to 393) and international academic staff by 600% (from 23 to 149); our increase in the percentage of black students from 71.6% (32 619) to 90.5% (44 066); and our increase in the percentage of first-year undergraduate students coming from Quintile 1 and 2 schools (that serve the poorest in our nation) from 15.2% (655 students) to 28.3% (1 922 students). However, at UJ we constantly examine our progress and the reasons for this, so that we can continue to elevate our already extraordinary contribution to our nation's progress and to our global stature, and so that we can sustain the University for the future.

UJ's research output is here reviewed against the DHET-accredited publications list for research output subsidy purposes and to measure national performance against peers. It is also reviewed against the SCOPUS list of international accredited publications, which is used for assessing institutional performance and impact against global peers, as well as for ranking universities by the two major ranking agencies, namely, QS and Times Higher Education.

In respect of the DHET publications list, UJ improved its output to 897 units (from 874 the previous year), an improvement of 2.7%. This slowdown against the significant growth of previous years must be viewed against the significant improvement of 34.5% recorded at North-West University (NWU), having increased their publications output significantly from 869 units to 1 169 units. Our progress must also be viewed against that of the most productive university on the DHET publications list, namely the University of KwaZulu-Natal (UKZN), which, unlike UJ and NWU, has a highly productive medical school, which improved its output from 1 424 units to 1 627 units (14.2%).

Since 2008, we have achieved a steady increase in accredited research, almost doubling this in five years, and we currently contribute a notable 7% of national research outputs on the DHET publications list. The accredited research output units from 2009 to 2013 are shown in the table below. Early indications are that the research output for 2014 will exceed 1 000 units.



Year	Books/Chapters	Proceedings	Journals	Total
2009	12.13	42.05	412.64	466.82
2010	22.61	72.54	515.75	610.90
2011	75.88	86.97	637.99	774.83
2012	31.36	103.91	738.64	873.91
2013	58.8	182.5	656.1	897.42

Turning to the SCOPUS publications list, UJ's performance for the three-year review period, 2012 to 2014, reflects an output of 3 018 publications (down 3.6%, cf. NWU: 2 338 publications on this list reflecting the domestic versus international focus of their publications). UJ's 1 460 active researchers (up 13.7% from 2013) produced 9 325 citations with a 1.26 field weighted citation impact (which measures 26% higher than the world average). Noteworthy is that 17.2% of our publications are listed among the top 10% most-cited publications. Consider that in respect of SCOPUS, the University of Cape Town (UCT) outnumbers UKZN with 7 711 publications versus 5 524 (here reflecting UCT's stronger international focus), with the University of the Witwatersrand (Wits) lying second at 5 483 publications. Consider also that UCT's citation count is almost double that of UKZN at 28 905 versus 13 376. Wits has the second highest citation count at 23 285. Interestingly, with UJ's citation count at 9 325, NWU's citation count is only 3 392. Also noteworthy is that UJ's citation count per publication of 3.1 ranks third among South African universities, with Wits first at 3.8 and UCT second at 3.7. This last indicator attests to the superior impact of UJ's research outputs.

In 2014, the total number of postgraduate students increased by 3.11% (actual enrolment increased from 6 783 in 2013 to 6 994 in 2014), while total postgraduate output increased by 2% to 2 709 in 2014 (2013: 2 658).

Internal funds accounted for 38% of total research expenditure, while external income accounted for 62% of research expenditure, compared to the previous year of 40% and 60% respectively. Overall, total research expenditure increased to R153 million compared with R138.85 million the previous year. External income from the NRF increased by 65% from R52.14 million to R86.21 million.

In respect of research partnerships, under the leadership of Professor Tshilidzi Marwala, the University builds enduring relationships and collaborations with the public, private sector and government, which are characterised by mutual respect, active participation and long-term commitment. Our partnerships support our research strategy by providing sustainable bursaries and research funds. The University continues to nurture its existing national and international partnerships with various national private and public institutions, and with institutions in the rest of the African continent, Europe, North America, Brazil, India and China.

An important portent for future research output is that, at the end of 2014, UJ had 142 academics rated by the National Research Foundation (NRF), up from 133 in 2013, and significantly up from 67 just five years ago. Moreover, we have submitted a further 27 new NRF rating applications, and if all are successful, our expectation is that at the end of 2015 our total NRF-rated academics will stand at 167, bringing us closer to our 2020 goal of 200 NRF-rated academics. Furthermore, the number of postdoctoral research fellows increased in 2014 to 144 as compared to 116 in 2013.

Given the globally renowned research contributions and stature of our Earth Sciences Research Group, in 2014 UJ was awarded the distinguished DST/NRF Centre of Excellence for Integrated Mineral and Energy Resource Analysis.

A further exciting development is the establishment, with the National Youth Development Agency, of a national epicentre for research and policy advocacy for young people. It is expected that this research institute will become active during 2015.



IHRON RENSBURG (PROF)

VICE-CHANCELLOR AND PRINCIPAL

MESSAGE FROM THE DEPUTY VICE-CHANCELLOR: RESEARCH, POSTGRADUATE STUDIES, AND LIBRARY AND INFORMATION CENTRE



PROF TSHILIDZI MARWALA
DEPUTY VICE-CHANCELLOR:
RESEARCH, POSTGRADUATE
STUDIES, AND LIBRARY AND
INFORMATION CENTRE



The year 2014 was another great year, full of challenges, achievements and new lessons that were learned. Again, the University of Johannesburg (UJ) remains one that is focused, has great ambition and desires to be the best of the best.

All information pertinent to research activities and support functions is disseminated through the UJ website. The functional activities of the Division are measured through key performance indicators with goals and targets defined annually in the Institutional Scorecard. For the 2014 academic year, the key performance indicators were:

- accredited research output units;
- number of citations per article per year;
- the amount of external research income;
- number of rated researchers;
- number of postdoctoral research fellows.

The University maintained a healthy performance through increases in each of the performance indicators, as follows:

Accredited research outputs: The University attained an increase from the previous year's output of 873.9 to 897.4 accredited output units.

Number of citations per article per year: This has become a critical measure of the impact of our research, influencing our global status as a world-class, research-intensive university. In 2014, the number of citations per publication per year (with the year of publication being 2012) increased from 5.0 in 2013 to 7.5 in 2014.

Amount of external research income: This indicates the relevance of our research activities to external funders and industry. External funding was R98.83 million in 2013 and has increased to R109.01 million in 2014. The largest improvement was with regards to NRF funding. About R21 million of this funding was for the acquisition of state-of-the-art research equipment.

Number of rated researchers: The number of National Research Foundation (NRF)-rated researchers increased to 142 in 2014, as compared to 133 in 2013.

Number of postdoctoral research fellows: The number of postdoctoral fellows increased in 2014 to 144, as compared to 116 in 2013.

All these performance indicators were achieved through five functional units: Research Support and Development, Research Administration, Research Intelligence and Administration, the Postgraduate Centre, and Statistical Services.

GLOBAL EXCELLENCE AND STATURE (GES)

In shifting its identity and brand from new, young and innovative to a University of global excellence and stature, the new thinking necessitated the review of the 2020 Strategic Plan, and the development of the 2025 Strategic Plan, anchored in the single strategic goal "Global Excellence and Stature" (GES). The new 2025 Strategic Plan places considerable emphasis on excellence, including excellence in research and innovation. In 2014, the initial phase was launched with a number of value-adding activities focused on postgraduate studies, research and innovation. The aim is to attract outstanding graduates from diverse backgrounds to our postgraduate programmes, by offering a range of innovative programmes characterised by the highest level of scholarship and rigour that incorporate cutting-edge research developments into the curriculum. With this strategic initiative, top-class postgraduate students and postdoctoral fellows joined the University of Johannesburg in 2014 and world-leading researchers were appointed as distinguished professors and distinguished visiting professors.

PROF TSHILIDZI MARWALA
DEPUTY VICE-CHANCELLOR: RESEARCH, POSTGRADUATE STUDIES, AND LIBRARY
AND INFORMATION CENTRE

THE DIRECTORATE: RESEARCH AND POSTGRADUATE STUDIES

The administrative framework of the Division is anchored in five well-defined functional activities: research administration, research development and support, research intelligence and bibliometrics, postgraduate support (Postgraduate Centre), and statistical analysis (Statkon).

RESEARCH ADMINISTRATION

The role of the Research Administration Section is to effectively and efficiently manage and execute central research processes to drive the research agenda of the University via the Research and Innovation Division.

With the focus on World University Rankings gaining momentum at some universities in order to be recognised by their national and global counterparts, the University of Johannesburg is no exception to these challenges. Hence, UJ's research strategy has focused on developing nationally and internationally competitive and sustainable research.

Arising out of this research are works that are published in the form of journal articles, books, book chapters and conference papers. These publications accrue units that are submitted to the Department of Higher Education and Training (DHET) for subsidy purposes. Hence, the Research Administration Section plays a critical role, part of which is to drive the institution's goal of increasing successful research publication outcomes by overseeing and managing the compilation and final submission to the DHET. The role of the Section is further challenged to provide support to achieve a goal of increasing publication units to 1 500 by 2020.

The Section is also tasked with providing support to ensure that research publications are made visible to the wider research community for citations, which is one of the criteria that influence UJ's position in the University Rankings.

The Section keeps abreast of changes on research matters relating to publications and policy to provide key advice and guidance to the UJ research community.

RESEARCH SUPPORT AND DEVELOPMENT

The Strategic Support Unit of the Research and Innovation Division strives to strengthen UJ's vision of becoming a research-intensive University with regional and global reach. Through engagement with relevant parties, it operates as an axis between academics and the external research environment. It also helps to align research interests and expertise with institutional priorities, as well as assisting researchers to enter into complex research contracts.

Among the initiatives introduced in 2014 was the Internal Review Committee, which reviews all research funding applications before submission to the funder. The internal review of applications before they are submitted to the National Research Foundation (NRF) is a key feature of the mechanism to increase the success rate of our applications. As a result of this, 22 out of 23 submitted applications for NRF Rating were successful – a more than 95% success rate.

To assist the University to achieve its vision of being a centre of knowledge, not only on the continent of Africa but also globally, the Unit is instrumental in facilitating research partnerships regionally and internationally and also in strengthening the existing partnerships.



DR MANDLA MSIBI
EXECUTIVE DIRECTOR: RESEARCH AND
POSTGRADUATE STUDIES



Go online for Journal
articles, books, chapters
and conference papers
from 2014.

**SUBMITTED
APPLICATIONS FOR
NRF RATING WERE
SUCCESSFUL –**

22 of **23**
a more than
95%
success rate.

RESEARCH INTELLIGENCE AND BIBLIOMETRICS

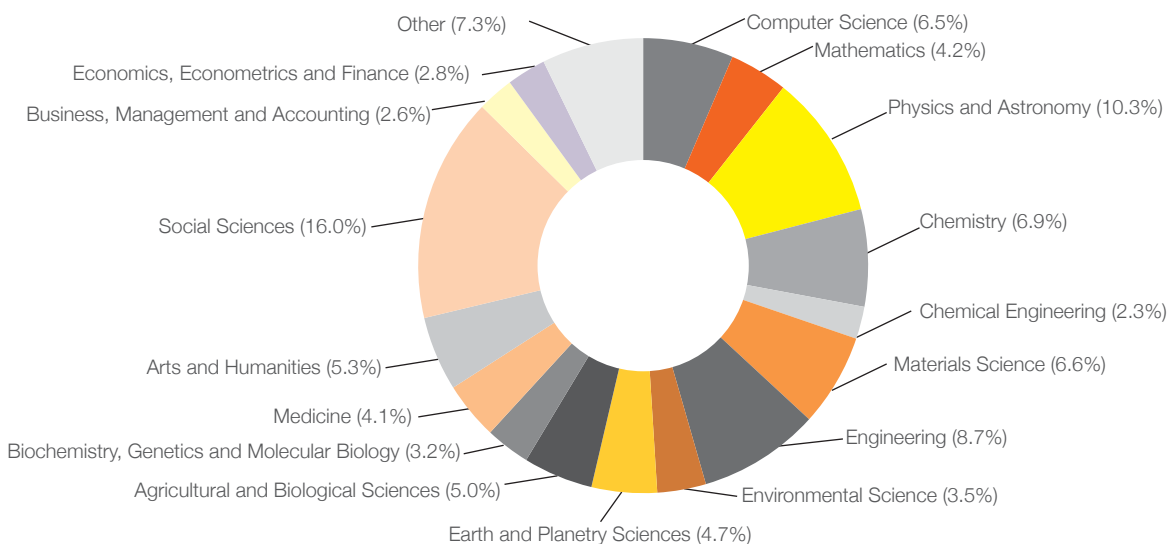
Bibliometrics are a set of methods to quantitatively (and qualitatively) analyse academic literature. Citation analysis and content analysis are commonly used in bibliometric methods, while Research Intelligence seeks to analyse research data in more depth to improve UJ's ability to establish, execute and objectively evaluate research strategy and performance.

Underpinned by bibliometrics and the national Research Information Management System (RIMS), the Office responsible for Research Intelligence strives to deliver objective, relevant and insightful research information to guide strategic decision making throughout the University. Bibliometrics and the application of Research Intelligence are relatively new fields; yet 2014 was a fruitful year for the Division. A number of research intelligence initiatives were introduced, including functional and technical training sessions for all levels of staff, standardised bibliometric profiles for academics and an interactive scorecard allowing UJ's research progress to be closely monitored in terms of international best practice metrics.

BIBLIOMETRIC INDICATORS: UJ'S RESEARCH PERFORMANCE FOR THE PERIOD 2010 TO 2014

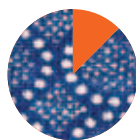
Publications	Citations	Authors	Field-Weighted Citation impact
4,476	19,470	1,912	1.18

Publications by Journal Category



Outputs in Top Percentiles

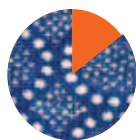
Publications in top 10% most cited worldwide



University of Johannesburg:
12.5%
South Africa:
12.9%

Publications in Top Journal Percentiles

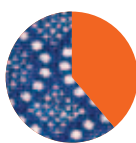
Publications in top 10% journals by SNIP



University of Johannesburg:
14.6%
South Africa:
14.7%

International Collaboration

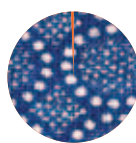
Publications co-authored with institutions in other countries



University of Johannesburg:
38.9%
South Africa:
43.5%

Academic-Corporate Collaboration

Publications with both academic and corporate affiliations



University of Johannesburg:
0.6%
South Africa:
1.2%

Source: Scopus data up to 05 May 2015

RESEARCH STRATEGY AND RESEARCH POLICIES

The following policies and strategies are used to govern research and postgraduate studies at the University:

- UJ Academic Regulations (sections related to postgraduate studies);
- UJ Research Strategy;
- Research Policy;
- Student-Supervisor Policy;
- Guidelines for Authorship;
- Policy on the Classification of UJ Research Structures;
- Policy on Postgraduate Studies;
- Charter for the UJ Committee to enhance application for NRF ratings;
- Incentive scheme for research outputs and NRF ratings.

RESEARCH OUTPUT REPORTING AND DATA ANALYSIS

During 2014, UJ further extended its reputation as being a leader in research output reporting and data analysis, as we were one of the most active users of the Research Information Management System (RIMS) and SciVal.

INTELLECTUAL PROPERTY

The University's intellectual property (IP) is protected through the Conditions of Employment contract with employees, through the student contract, and through confidentiality agreements with external parties. These agreements establish ownership of and rights to trademarks, copyright, trade secrets, innovations and inventions resulting from any research and dealings with the University. The University has an Office of Technology Transfer with the responsibility to encourage the creation, development and transfer of technology, as reported under the Finance Section.

RISKS AND RISK MANAGEMENT STRATEGY

The risk profile associated with research and innovation, covering a broad spectrum of issues with different levels of risk factors, is fully described in the Institutional Risk Register. The high-risk areas relating to the Research portfolio in 2014 were:

- limited national industrial research funding opportunities;
- limited number of postgraduate student bursaries;
- postgraduate student supervisory capacity;
- postgraduate student throughput.

All the mitigation strategies are reflected in the Institutional Risk Register and the institutional Improvement Plan and are regularly reviewed and updated. In addition, the Research Policy and Strategy also serves as an intervention strategy to mitigate the risks. The following units within the research and postgraduate studies environment are addressing the above issues through the following programmes:

- Research Support for the Development of High-quality Proposals;
- Research Capacity Development, which includes programmes on proposal writing, post graduate supervision, etc.;
- Research Capacity Building for Postgraduate Students.

Research stature is usually defined by the quality and impact of research. UJ devotes considerable attention to research stature by encouraging research publications in international journals. To measure and monitor the quality of research publications, the Institutional Scorecard indicators for research now include monitoring the number of Scopus and Web of Science documents published by UJ researchers, as well as the number of institutional citations.



DR MANDLA MSIBI

EXECUTIVE DIRECTOR: RESEARCH AND POSTGRADUATE STUDIES



THE POSTGRADUATE CENTRE

The Postgraduate Centre (PGC) matured during 2014 and has delivered on the expanded mandate that it received in 2013. This has led to a further sharpening of the focus on the UJ strategic thrusts and activities in the PGC, and the impact of this has been significant.

The further development of the PGC into a UJ Postgraduate School (UJPS) has been investigated thoroughly and it is foreseen that the UJPS Charter will be accepted by Senate in 2015. The future focus would be on enhancing, enriching and supporting faculty activities and not replacing those situated in faculties. In order to achieve this, the following areas will be developed in addition to those currently supplied within the PGC:

- providing holistic life cycle support to postgraduate students;
- developing extended research capacity focused on postgraduate students, emerging researchers and emerging supervisors through the DHET grant;
- developing structured short learning programmes on research capacity development;
- ensuring efficient delivery systems;
- establishing and developing a UJ postgraduate culture.



The new Postgraduate Centre at APK



PROF SHIREEN MOTALA
DIRECTOR: POSTGRADUATE
CENTRE

STRUCTURE, CAPACITY AND ORGANISATIONAL DESIGN

The focus during 2014 was on developing the core strength of the PGC. The organisational structure has the following portfolios:

- Research, Monitoring and Benchmarking;
- Research Capacity Development;
- Postgraduate Funding Support (PFS);
- Interdisciplinary Studies and Qualifications;
- Marketing and Information.

The PGC and Library have successfully undertaken the Research Commons initiative and have contributed to establishing Research Commons facilities on all campuses. The PGC has also moved into the RC Nano Building on APK. This facility has a large training room, as well as offices for the use of postdoctoral fellows.

The structure of the PGC is expected to change during 2015 and it will be informed by the UJPS Charter.

PGC DELIVERY AND IMPACT

The PGC delivery during 2014 has mostly been achieved through an integrated structure. UJ's presence as a member of the Council of Graduate Schools and in the Deans and Directors of Graduate Schools (DDoGs) in Universitas 21, provides valuable international experience and expertise to inform UJ processes.

THE POSTGRADUATE CENTRE

Aim and specific delivery areas

The overarching aim of the extended PGC is to:

- fulfil a meaningful role towards the successful delivery against the UJ 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 qualifications for delivery in the PGC;
- execute research and facilitate knowledge generation regarding all aspects of postgraduate studies, as well as key interdisciplinary areas.



UJ JOINS ELITE INTERNATIONAL GROUP OF UNIVERSITIES, UNIVERSITAS 21

The University of Johannesburg is the first and only African University to be invited to join one of the most prestigious and innovative university consortia in the world, the Universitas 21.

Universitas 21 is an international network of 27 research-led universities from 17 countries. The aim of the group is to facilitate partnerships between members, creating opportunities on a scale that none of the members would be able to achieve while operating independently.

Member universities collaborate on areas such as research-inspired learning and teaching, and provide wider advocacy for internationalisation.

UJ's membership of Universitas 21 comes at an opportune time as it complements the strategic direction of the institution.

With 2 500 international students representing 87 countries out of a total of 48 000 students, the University is poised to grow its international profile by expanding its international student body, intensifying the mobility of students and increasing research collaboration. Ambitious targets have been set in this regard.



The PGC continued to actively contribute to scholarship on postgraduate studies and to provide leadership in the sector. PGC staff members serve on editorial boards and participate in peer reviews and their contributions to peer-reviewed publications, conferences and higher education sector activities are reflected in that of the different faculties. Among the key highlights of 2014 were Dr Pia Lamberti's contribution to Higher Education and Research Development in Hong Kong, in June, entitled *Global attributes in a globalising world*.

In November 2014, the PGC co-hosted seminars by international scholars that focused on the scholarship of teaching and learning. The seminars included a session by Prof Gina Wisker on *Postgraduate supervisor in the comprehensive university* and *Emerging researchers in the comprehensive university*. Prof Sue Clegg presented workshops on the problem of theorising, critical realism as a theoretical resource and writing for publications.

Prof Motala received a rating as an NRF researcher (C2), participated as a member of the Ministerial Team on the review of the National Senior Certificate examination and continued and completed her term as President of the South African Research Association (SAERA).

During 2014 the PGC, through the Senate Higher Degrees Committee, has also supported the development of various policies and guidelines that affect postgraduate students at UJ. The PGC has worked with the Registrar's Office on reviewing the Higher Education Policy for UJ and on the Student Supervisor Agreement and participated in the Committee to finalise the policy on plagiarism. As these policies and guidelines are implemented during 2015, it is foreseen that more transparent and consistent practices will exist regarding postgraduate students at UJ.

RESEARCH CAPACITY DEVELOPMENT

Research Capacity Development (RCD) aims to improve student throughput and increase the publication rate and quality of dissertations/theses through the provision of high-quality, capacity-building events. Continuous benchmarking ensures that the provision of support is on par with what is offered to postgraduate students at leading universities in South Africa. Current workshops, forums, symposia and Short Learning Programmes offered through RCD contribute to making UJ a postgraduate destination of choice.

The 2013/2014 DHET Grant of R2.2 million has enabled accelerated delivery in the area of research capacity building. After a rigorous audit process on the spending of the Research Development Grant (RDG) by Research Capacity Development (RCD) in 2014, the DHET approved the RDG 2014 to 2017 proposal for the amount of R23 million over three years. RCD is also, through partnerships with leading local and international experts, developing the first diploma in postgraduate supervision to be offered through a higher education institution in South Africa. The process of establishing other short learning programmes for postgraduate students is also underway.



In 2014, Research Capacity Development (RCD) provided 20 workshops aimed at supporting postgraduate students. These workshops were attended by 452 people, of whom 375 (83%) were students and 77 (17%) were staff. The fourth annual Postgraduate Symposium was held on 17 October. This year's symposium saw the highest number (50) of students present their research with 22 oral presentations and 28 poster presentations.

Short learning programmes for postgraduate students on research reading/writing, proposal writing and research design and methodology are also being conceptualised for possible delivery in the first term of 2016.

Supervisory development continues to be a focus for RCD. Support to emerging supervisors was provided through workshops, short courses and the Postgraduate Supervision Forum. These initiatives were funded by the DHET grant. A total of nine workshops were held and there were 203 participants. Twenty-three staff members participated in the Strengthening Postgraduate Supervision course offered by CHERTL.

Support to emerging researchers was provided through workshops and writing retreats funded from the DHET grant. Thirty workshops were attended by 384 people, of whom 99 (21.4%) were students. Support in writing for publication was also provided to staff and nine workshops were held with 82 participants.

Eighty-seven staff members had completed the SANTRUST pre-doctoral programme by the end of 2014. This means that the PGC is close to fulfilling its original commitment of achieving 100 SANTRUST graduates with cohort 4 to complete by 2018. Of the staff who completed the programme, 35 had their proposals approved by Faculty Higher Degrees/Senate Higher Degrees committees. At this stage, two of the candidates have submitted for examination and two have graduated with their doctoral degrees.

The total participation in events arranged by RCD has increased from 849 in 2013 to 1 133 in 2014. It is, however, a concern that the DHET grant's focus on staff development has led to more events for staff and that participation from students is down from 54% to 42%. Postgraduate student participation has dropped by 4% from 2013 to 2014.

RESEARCH, MONITORING AND BENCHMARKING

The Research, Monitoring and Benchmarking portfolio of the Postgraduate Centre focuses on aspects of tracking and monitoring of postgraduate students and academic staff to generate relevant information and knowledge to inform policy and management decisions regarding postgraduate studies.

The UJ Management Executive Committee took the decision in 2009 to offer assistance to all UJ permanent and fixed-term contract (more than one year) academic staff who currently do not hold a minimum of a master's qualification (or equivalent), with the goal of enabling them to complete a master's degree by December 2011. Since the inception of the Staff Qualifications Programme (SQP), 70.1% of the participating academic staff have completed their master's degrees. There are still 35 academic staff members who must complete their master's. It is envisaged that in some cases the master's degrees would only be completed in 2018.



The SQP for academic staff to obtain doctoral degrees was established in 2012 by the Management Executive Committee. In 2014, there were 217 permanent and fixed-term academic and research staff studying towards their doctoral qualification. Eighty-eight academic and research staff members completed the SANTRUST Programme. Currently, there are 22 staff members on the SQPD programme and 129 academic staff members are studying towards their doctoral degrees outside the SQP D programme.

According to HEMIS data, 459 (43.5%) and 451 (42.7%) of academic and research staff have doctoral and master's degrees.

POSTGRADUATE MARKETING AND INFORMATION

PGC Marketing and Information plays a key role in ensuring the promotion and improvement of dissemination of information related to postgraduate studies at UJ. By establishing a working partnership with UJ Brand and Marketing, it has been able to approach postgraduate (PG) marketing holistically, ensuring that PG marketing campaigns were aligned. Along with other strategic partners, PG Marketing and Communication saw that all the PG information that was distributed was correct, consistent, and available to those who wanted it in the medium they preferred.

The PG Hub, a postgraduate-focused webpage, was launched in 2014. It is home to all information pertaining to PG students, including PG funding opportunities, current PG courses offered at UJ, PG support programmes, and invitations to special events.

The PGC and PG Marketing partnered up with PsyCaD to have a presence at the well-attended UJ Career Week, held on the Auckland Park Campus, and many enquiries were received. The subsequent Postgraduate Funding Support (PFS) workshop on funding for postgraduate students was well-attended as a result of the information distributed. There was also a noted increase in web traffic to the UJ Postgraduate Hub during Career Week.

PGC marketing and communications sought to improve the level of PG enrolments, particularly the honours enrolments for 2015, which decreased in 2014. A large portion of the PGC's marketing budget was devoted to improving this number by retaining higher numbers of UJ undergraduate students into further PG courses. Several print adverts ran in various newspapers to advertise the UJ Honours Bursary Campaign. There was also an exclusive presentation evening held for the UJenius candidates to help improve enrolments and the quality of the UJ Honours Bursary applicants.



STATISTICAL SERVICES

The primary goal of UJ's Statistical Consultation Service (Statkon) is to provide a researcher-oriented service to UJ postgraduates and staff conducting quantitative, statistical-based research.

The Statistical Consultation Service supports UJ's strategic objectives to achieve excellence in research and innovation and in teaching and learning. It supports these objectives through providing a service to improve research design and statistical analysis of findings and through providing workshops on quantitative research-related topics.

These primary goals are supported through the following annual strategic objectives:

- strengthen survey or experimental design and questionnaire design;
- provide an efficient data capturing service (outsourced to CMC Data Capturers);
- promote accurate statistical analysis of data sets utilising appropriate data analysis techniques;
- provide clear feedback and explanation of the statistical results and the interpretation thereof;
- support research skills development through provision of workshops on quantitative research topics for UJ staff and postgraduate students. The use of Statkon services and attendance of workshops are voluntary.

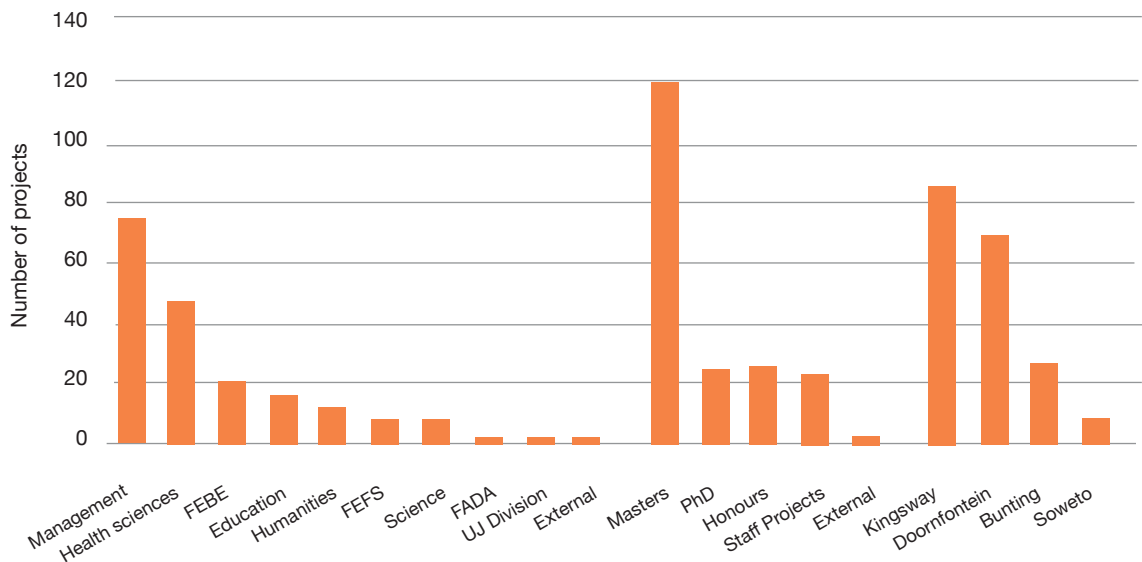
The following short summary shows how these strategic targets have been met.

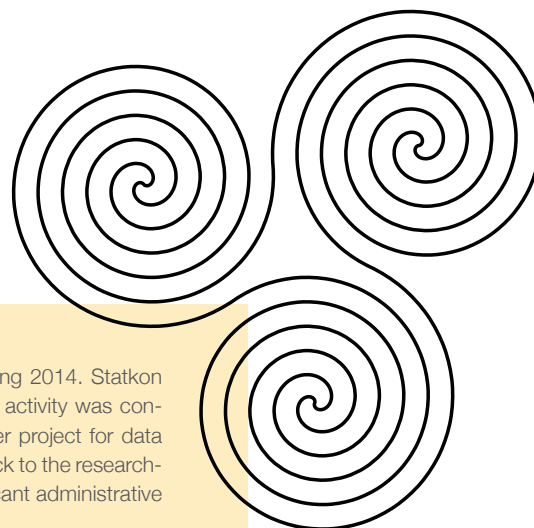
a. Strengthen survey or experimental design and questionnaire design

During 2014, 199 new projects were registered for research design. A breakdown of these projects by faculty, level of study and campus is provided in Figure 2 below. The Faculties of Management, Health Sciences, Engineering and the Built Environment, Education, and Humanities represented the five most prevalent users of the Service's support for research design. The majority of support provided for research design was for postgraduate students, with the largest group being master's students. Equal numbers of PhD students, honours and staff research projects were supported. While the highest number of students and researchers seeking support for research design were located on the Kingsway Campus, significant numbers from the Doornfontein and Bunting Road Campuses were also supported.

Support for research design could include (depending on the project and experience of the researcher) advice on: conceptualisation of the topic; operationalisation of measures; definition of the study population and sampling method; quality of the questionnaire/data collection instrument; appropriate statistical procedures; and ethics requirements.

Number of new research design projects in 2014 by faculty level and campus (n=199)





b. Provide an efficient data capturing service

The Service facilitated data capturing of 155 datasets for 116 projects during 2014. Statkon performed the necessary coding for data capturing and the data capturing activity was contracted out to CMC Data Capturers. Statkon subsidised a cost of R600 per project for data capturing; however, if data capturing cost more than R600, it was referred back to the researcher to manage payment. The centralisation of this service represents a significant administrative cost saving to the University.

c. Promote accurate statistical analysis of data sets and provide clear feedback and explanation of the statistical results

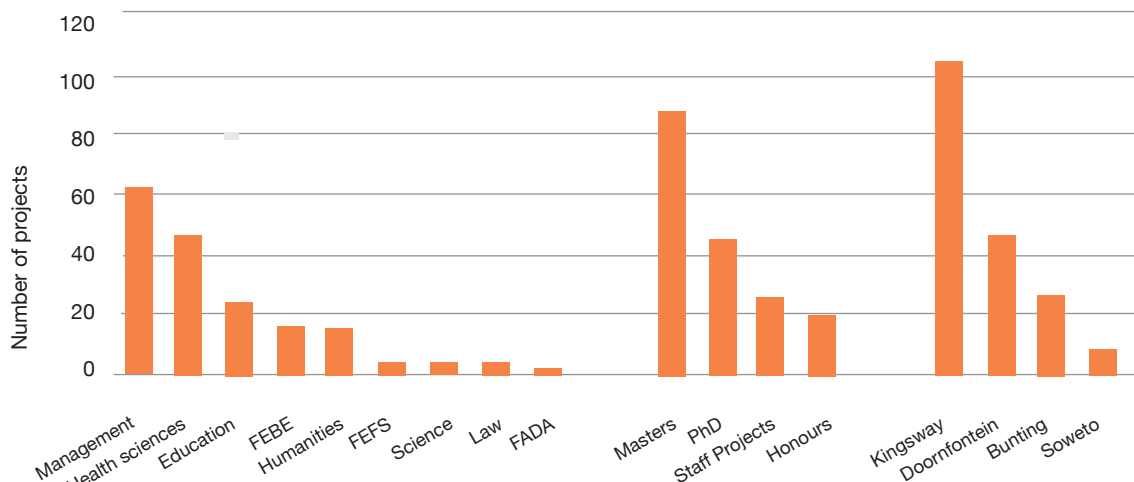
The Service assisted with statistical analysis for 185 projects during 2014. A breakdown of these projects by faculty, level of study and campus is provided. The pattern of support is similar to that of research design. Students and staff from the Faculties of Management and Health Sciences were the two groups most likely to seek support for analysis. The majority of support provided for analysis was for master's students, then PhD students and then staff projects. The highest number of students and researchers seeking support for analysis were located on the Kingsway Campus, but with significant numbers from Doornfontein and Bunting Campuses also being supported.

Statistical analysis support provided included a wide range of descriptive and inferential statistics, with both parametric and non-parametric procedures being employed depending on the needs of the project.

d. Support research skills development

During 2014, Statkon staff provided, through the Postgraduate Centre, workshops on Descriptive and Summary Statistics, Statistical Techniques for Comparing Groups, and Statistical Techniques for Examining Relationships, Sampling, and Questionnaire Design.

Number of new analysis projects in 2014, by faculty level and campus (n=185)



ACKNOWLEDGEMENT OF TOP ACHIEVEMENTS



The South African Research Chair Initiative (SARChI)

The South African Research Chair 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 2014 only one of these was not yet active:

- 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).

CURRENTLY ACTIVE RESEARCH CHAIRS

African Diplomacy and Foreign Policy (Faculty of Humanities) – Prof Chris Landsberg

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 challenges are: the national challenge of honing and refining South Africa's national interest 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 worldwide stage. Research conducted by 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 Africa's strategic partnerships in the Global North and Global South.



Education and Care in Childhood (Faculty of Education) - Prof Jace Pillay

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 for 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 South African society. Children are the future leaders and academics in society, therefore, an investment in their education and care in childhood is an investment in the future economic, political and social stability of our country.

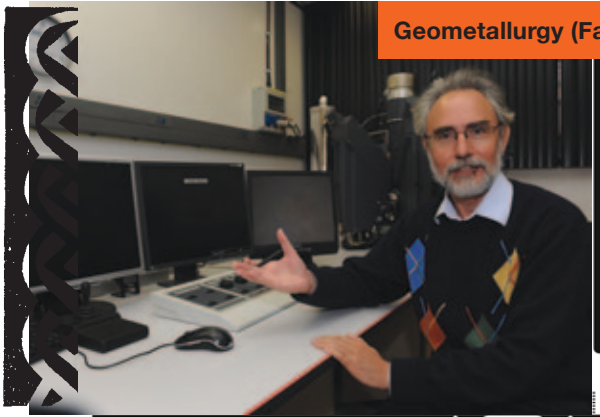


International Law (Faculty of Law) - Prof Hennie Strydom

The relevance of the Chair's research programme must be seen in the context of the post-1994 developments when South Africa re-joined 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. South Africa is a member of the African Union and plays a major role in the affairs of the Union, notably in peace-keeping 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) - Prof Fanus Viljoen

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 to improved metal recovery, in resource types relevant to the South African mining industry.

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

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

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 Prof Alexander, Carin Runciman and Trevor Ngwane. The Chair plans to build on existing strengths to develop a niche area on strikes, protests and revolution.

National Research Foundation Rated



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.

UJ has a strategy, which is yielding good results, for identifying new potential applicants for rating and helping researchers to move from a lower rating to a higher one. This approach is working well, as the University had 142 rated researchers as at 31 December 2014, up from 133 at the end of the previous year. The increase in the number of rated researchers is mainly attributable to new ratings obtained by current staff rather than to new staff joining the University. Also of significance is the increase in the number of B- and C-rated researchers

Number of NRF-rated researchers

Year	Rating category						Total
	A	B	C	P	Y	L	
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
2014	6	32	77	1	26	0	142

There are six NRF A-rated researchers at UJ:

Prof Nic Beukes is a geologist specialising in sedimentology and stratigraphy, working particularly on the origin of iron and manganese 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 Bill Harris brings approaches from mathematics, physics and other areas to bear on his work in optometry, focusing particularly on ocular surgery and a general understanding of vision.

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



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.



List of NRF-rated researchers as at December 2014

Name	Faculty	Rating
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	B
8. Alexander P Prof	Humanities	B
9. Bilchitz DI Prof	Law	B
10. Burnett-Louw C Prof	Health Sciences	B
11. Connell B Prof	Science	B
12. Chisholm L Prof	Education	B
13. Dankelmann P Prof	Science	B
14. Dubery IA Prof	Science	B
15. Geldenhuys DJ Prof	Humanities	B
16. Gunner L Prof	Humanities	B
17. Hearne GR Prof	Science	B
18. Hendrickx BCEJB Prof	Humanities	B
19. Henning E Prof	Education	B
20. Hofmann A Prof	Science	B
21. Karataglidis S Prof	Science	B
22. Kramers J Prof	Science	B
23. Lombard M Prof	Humanities	B
24. Marwala T Prof	Engineering	B
25. Neels JL Prof	Law	B
26. Rogerson C Prof	Management	B
27. Schmahmann B Prof	Art	B
28. Scott-Macnab D Prof	Humanities	B
29. Sonnekus JC Prof	Law	B
30. Steeb WH Prof	Science	B
31. Strydom AM Prof	Science	B
32. Tregenna FM Prof	Financial and Economic Science	B
33. Vale PCJ Prof	Humanities	B
34. Van Reenen DD Prof	Science	B
35. Van Wyk BE Prof	Science	B
36. Viljoen KS Prof	Science	B
37. Von Solms SH Prof	Science	B
38. Abrahamse H Prof	Health Sciences	C
39. Ahmed FE Prof	Science	C
40. Annegarn HJ Prof	Science	C
41. Avenant-Oldewage A Prof	Science	C
42. Bauer M Prof	Engineering	C
43. Berman K Prof	Art	C

Name	Faculty	Rating
44. Beukes SM Prof	Humanities	C
45. Brits RM Prof	Science	C
46. Cairncross B Prof	Science	C
47. Cassim FHI Prof	Law	C
48. Cloete GS Prof	Humanities	C
49. Coetzee M Prof	Science	C
50. Collins KJ Prof	Humanities	C
51. Conradie CJ Prof	Humanities	C
52. Darkwa J Prof	Science	C
53. De Bruin GP Prof	Management	C
54. Doyle BP Dr	Science	C
55. Dutton MF Prof	Health Sciences	C
56. Ehlers EM Prof	Science	C
57. Ekolu SOE Prof	Science	C
58. Elburg M Prof	Science	C
59. Erlank N Prof	Humanities	C
60. Freschi F Prof	Arts	C
61. Frenkel R Dr	Humanities	C
62. Gillan W Prof	Health Sciences	C
63. Henderson W Prof	Humanities	C
64. Hendrickx T Dr	Humanities	C
65. Janse van Vuren JH Prof	Science	C
66. Jansen van Vuuren B Prof	Science	C
67. Jonck B Prof	Science	C
68. Kabundi A Prof	Economics	C
69. Kinfe H Prof	Science	C
70. Knight Z Prof	Humanities	C
71. Kotze NJ Prof	Science	C
72. Labuschagne CCA Prof	Economic and Financial Sciences	C
73. Landsberg C Prof	Humanities	C
74. Leibowitz BL Prof	Education	C
75. Mallick K Prof	Science	C
76. Mackenzie CH Prof	Humanities	C
77. Marnewick C Prof	Management	C
78. Mbohwa C Prof	Engineering	C
79. Meijboom R Dr	Science	C
80. Mestry R Prof	Education	C
81. Mishra S Dr	Science	C
82. Motala S Prof	Education	C
83. Mouri H Prof	Science	C
84. Mulaba A Prof	Engineering	C
85. Myburgh CPH Prof	Education	C
86. Ngila C Prof	Science	C

National Research Foundation Funded

Name	Faculty	Rating
87. Olivier L Prof	Economics	C
88. Osman A Prof	Art	C
89. Ouahada K Prof	Engineering	C
90. Patel L Prof	Humanities	C
91. Perumal JC Prof	Education	C
92. Pillay J Prof	Education	C
93. Poggenpoel M Prof	Health Sciences	C
94. Pretorius G Prof	Humanities	C
95. Prinsloo ARE Dr	Science	C
96. Ramnarain UD Prof	Education	C
97. Raubenheimer H Prof	Management	C
98. Razzaque S Prof	Physics	C
99. Roodt G Prof	Management	C
100. Rubin A Prof	Health Sciences	C
101. Scherzinger KI Prof	Humanities	C
102. Smit CA Prof	Science	C
103. Strydom HA Prof	Law	C
104. Swart M Prof	Law	C
105. Teske PR Prof	Science	C
106. Thomas A Prof	Management	C
107. Tilney PM Prof	Science	C
108. Uys JM Prof	Humanities	C
109. Van der Bank FH Prof	Science	C
110. Van der Bank M Dr	Science	C
111. Verhoef G Prof	Economics	C
112. Wagner NJ Prof	Science	C
113. Wagenaar (Pieterse) GM Dr	Science	C
114. Watney MM Prof	Law	C
115. Winkler R Prof	Humanities	C
116. Broadbent AB Dr	Humanities	P
117. Akinlabi ET Prof	Engineering	Y
118. Arotiba OA Dr	Science	Y
119. Barnes B Prof	Humanities	Y
120. Carleschi E Dr	Science	Y
121. Conradie W Dr	Science	Y
122. De Kock MO Prof	Science	Y
123. Groenewald G Dr	Humanities	Y
124. Hill C Dr	Management	Y
125. Houeild NN Dr	Health Sciences	Y
126. Jalama K Dr	Engineering	Y
127. Joubert EJJ Prof	Science	Y
128. Masiteng PL Dr	Science	Y
129. Millard D Prof	Law	Y
130. Mpedi LG Prof	Law	Y

Name	Faculty	Rating
131. Muller AJ Dr	Science	Y
132. Nelwamondo FC Prof	Engineering	Y
133. Njenga KN Dr	Management	Y
134. Ntuli F Prof	Engineering	Y
135. Oosthuizen GA Dr	Engineering	Y
136. Shaw BS Prof	Health Sciences	Y
137. Sitha S Dr	Science	Y
138. Swart TG Dr	Engineering	Y
139. Thwala D Dr	Engineering	Y
140. Ukpere W Dr	Management	Y
141. Van Dyk JC Dr	Science	Y
142. Venter E Dr	Science	Y

OUTSTANDING RESEARCHERS (VC AWARDS)

The following researchers received the VC Awards for their outstanding contributions in their respective fields:

OUTSTANDING RESEARCHER OF THE YEAR

Prof Ferreira from FEBE's Department of Electrical and Electronic Engineering Science received the 2014 UJ Vice-Chancellor's Distinguished Award for Outstanding Researcher of the Year. In Digital Communications, Prof Ferreira's applied work has been focused on power line communications, i.e. utilising electrical power cables simultaneously as an electronic communications channel. This emerging technology will play an important role in the future Smart Grids for optimising the generation and utilisation of electrical energy. In Information Theory, Prof Ferreira's fundamental work has focused on channel codes for transmitting information over digital communications channels. He specialises in combining more than one desirable property into once channel code. He is currently an NRF A-rated researcher who is unequivocally recognised by his peers as a leading international scholar in his field for the high quality and impact of his research outputs.



PROF HC FERRERIA



PROF K JALAMA

MOST PROMISING RESEARCHER OF THE YEAR

Prof Jalama from FEBE's Department of Chemical Engineering received the 2014 UJ Vice-Chancellor's Distinguished Award for Most Promising Researcher of the Year.

Prof Jalama is an active researcher with an interest in the field of catalysis for alternative fuels. This year he became a member of the Technical Committee of the most prestigious catalysis conference in South Africa (Catalysis Society of South Africa Annual Conference in November 2014).

Prof Jalama has established significant research collaboration and relationships with a number of national and international institutions. He is rated by the National Research Foundation as a Young Researcher with the potential of establishing himself within a five-year period.

2014



PROF E AKINLABI

INNOVATOR OF THE YEAR

Prof Akinlabi from FEBE's Department of Mechanical Engineering received the 2014 UJ Vice-Chancellor's Distinguished Award for Innovator of the Year.

Her research areas involve solid state welding – friction stir welding and laser material processing. Her focus in friction stir welding is on dissimilar joining of aluminium and copper in a project for Eskom, while her research in laser additive manufacturing involves the production of titanium-based functionally graded composites.

Over and beyond research work, Prof Akinlabi is also an inventor. She registered a patent on the "Process for the manufacture of titanium-based composites". A second patent is for a "Circumferential tensile tester", able to test laser-formed curved specimens so that the mechanical properties of the material can be meaningfully derived, for use in the aerospace and automotive industries.

NATIONAL AND GLOBAL AWARDS

Prof Muronga receives NSTF Award

The National Science and Technology (NSTF) Awards encourage and reward excellence in Scientific Research, Technological Innovation, Education, Capacity Building and Communication, thereby honouring and celebrating outstanding contributions in Science, Engineering, Technology and Innovation. Prof Azwindini Muronga was acknowledged for an outstanding contribution to SETI through communication outreach and creating awareness over the last five years. While continuing his research, Prof Muronga has devoted himself to a demanding programme of outreach and promotion of science, technology, engineering and mathematics. He has, over the years, pioneered a university undergraduate programme, which stages science shows across the country with a view to offering solutions to the education crisis in our country. To bolster his efforts, he established the UJ Soweto Science Centre, which is meant to stimulate a deep love of science in the youth. Prof Muronga, who is an NRF-rated scientist, is an Associate Professor of Physics and his research field lies in the intersection of nuclear, particle, astrophysics and cosmology.



PROF A MURONGA AND THE VICE-CHANCELLOR AND PRINCIPAL PROF IHRON RENSBURG

Two UJ scientists honoured with WISA

The Department of Science and Technology hosted the Women in Science Awards (WISA) to honour and reward outstanding female scientists and researchers and to inspire other, younger women to develop themselves in their fields of research. Minister Naledi Pandor announced Prof Marie Poggenpoel and Prof Leila Patel, who are both internationally recognised in their research fields, as Distinguished Women Researchers in the Humanities and Social Sciences category at the Women in Science Awards on 15 August 2014.

Prof Poggenpoel an NRF-rated researcher, who obtained her DPhil Nursing- Psychiatric in 1982, the same year she was appointed at the University of Johannesburg, was recognised for her research contribution through her focus on "Aggression in South African Society". Her research addresses issues of aggression in secondary schools, domestic violence and aggression in the workplace. Through her research, it became clear that disrespect experienced by participants was perceived as aggression and that individuals need to be more aware of their own aggression and be aware of that of others before they speak or act.

Together with her colleagues at the Centre for Social Development in Africa, Prof Leila Patel, also an NRF-rated researcher, carries out cutting-edge research on poverty and vulnerability, civic engagement, and relations between various role players in social development. She has played an instrumental role in transforming South Africa's welfare system.



PROF M POGGENPOEL



PROF LEILA PATEL

Notable achievements

UJ awarded a CoE in Mining

UJ joined the research excellence league of South Africa by becoming one of seven South African universities to host fifteen DST-NRF Centres of Excellence (CoE). The CoE are research entities that concentrate existing research capacity and resources to enable researchers to collaborate across disciplines. The CoE in Integrated Minerals and Energy Resource Analysis (CIMERA) was established in January 2014 and is headed by UJ NRF A-rated scientist, Prof Nic Beukes, in collaboration with Prof Judith Kinnaird of Wits University. The Centre has a guaranteed funding of more than R100 million over a ten-year period.

UJ receives R21 million in equipment

Infrastructure is key to research and it is against this that the NRF initiated the infrastructure funding instrument to assist universities to acquire state-of-the-art research equipment. In 2014, UJ submitted four proposals that requested four pieces of advanced high-tech research equipment. UJ was eventually awarded R21 million from the R22 million requested. This achievement has resulted in UJ being one of two African universities to host a specialised ultramodern mass spectrometer and laser ablation system called MC-ICPMS.

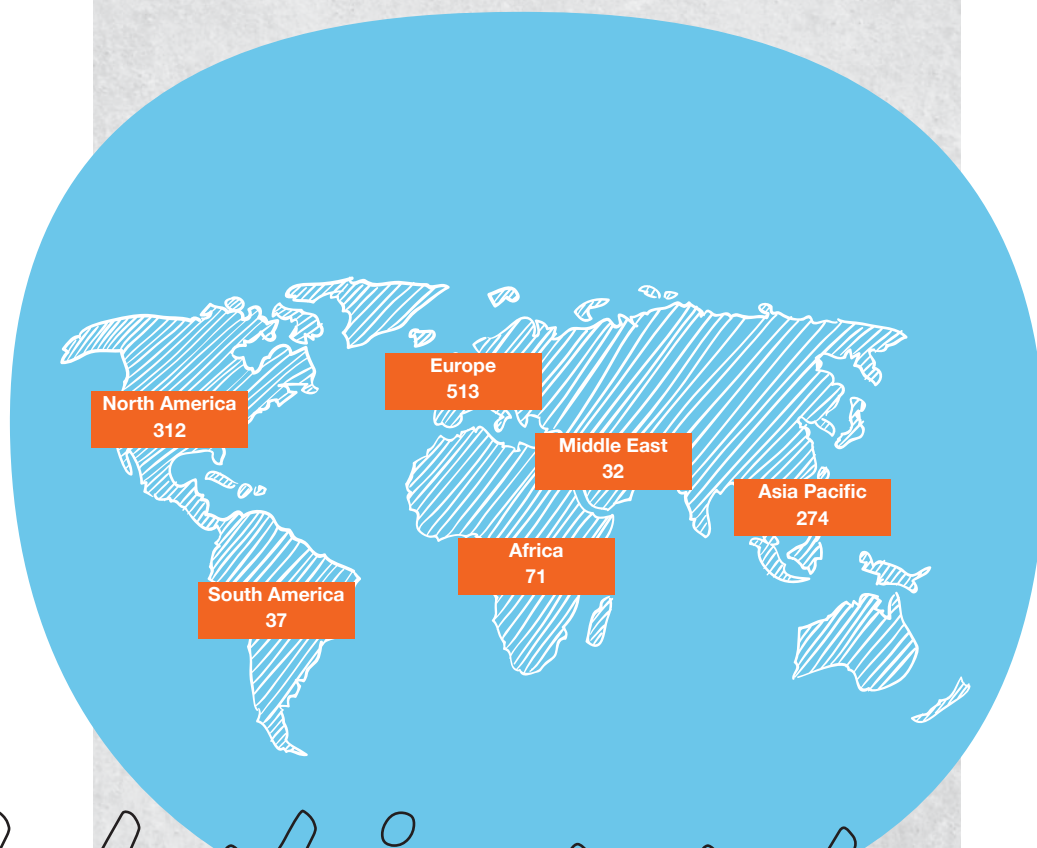
GLOBAL IMPACT AND INTERNATIONAL FOOTPRINT

In 2014, UJ was again ranked among the top 4% of universities worldwide by the Times Higher Education World University Rankings, and achieved the 6th highest ranking in South Africa, according to the University Ranking by Academic Performance (URAP) ranking system. Over the past five years (2010 to 2014), data indexed by Scopus indicate that UJ's researchers have collaborated with over 1 200 institutions across the globe, and have co-authored almost 2 300 publications. The European Union represents UJ's single biggest collaboration partner (with 974 co-authored papers at 513 institutions), followed by the Asia Pacific region and North America with 684 and 673 co-authored publications at 274 and 312 institutions, respectively. This represents outstanding growth.

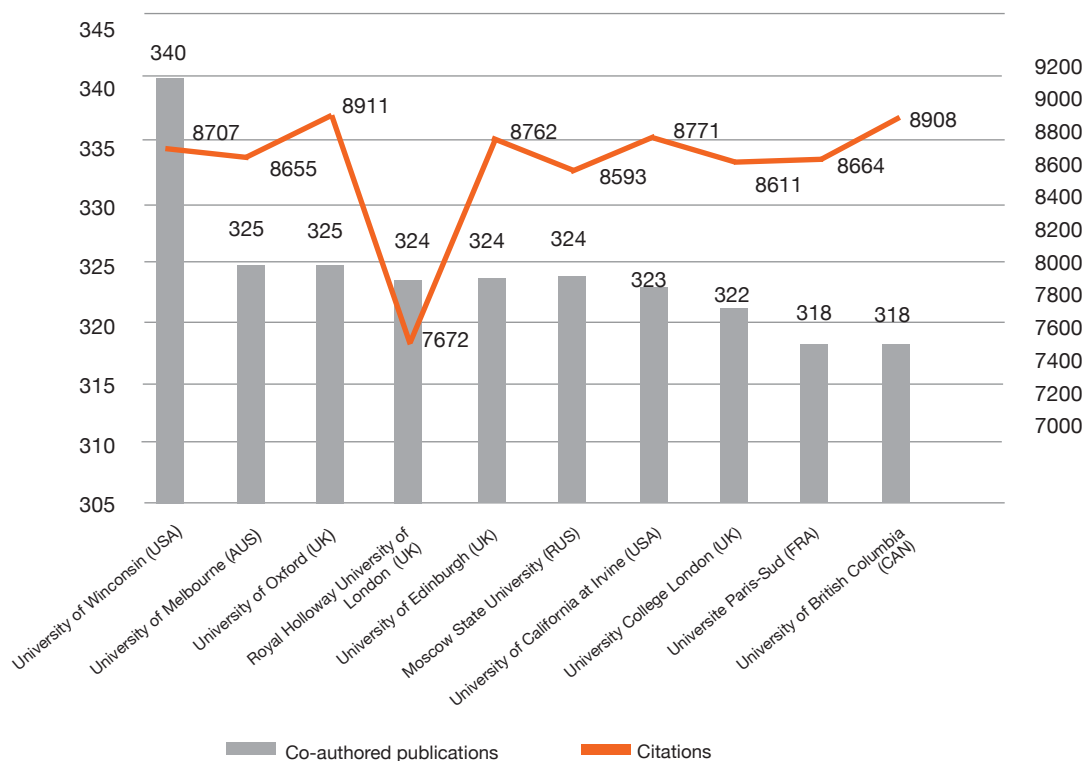
UJ's international footprint – number of collaborating institutions per region

Between 2010 and 2014, the number of UJ publications in Scopus more than doubled from 560 to 1 164. Of these, 75% featured collaboration with researchers outside of UJ; 39% having been co-authored internationally and 15% having been co-authored with other South African researchers. The internationally co-authored publications attracted an average of 8.3 citations per paper, while the locally co-authored publications were cited 2.5 times each on average.

UJ is proud to have established research collaborations with some of the world's top universities and institutions. Seventy-seven UJ researchers collaborated on 325 publications with co-authors at the University of Oxford in the UK. 313 publications were co-authored by 59 UJ researchers with their counterparts at Stanford University in the USA. The list of prestigious global collaborations includes co-publications with: Stanford, Harvard, Duke and Yale in the USA, CERN in Switzerland, the Max-Planck Institute for Physics in Germany, Moscow State University in the USSR, Edinburgh University and the Imperial College in London in the UK, the universities of Sydney and Melbourne in Australia, and the University of Tokyo in Japan, among many others.



Global impact



UJ's Top 10 international academic collaboration partners

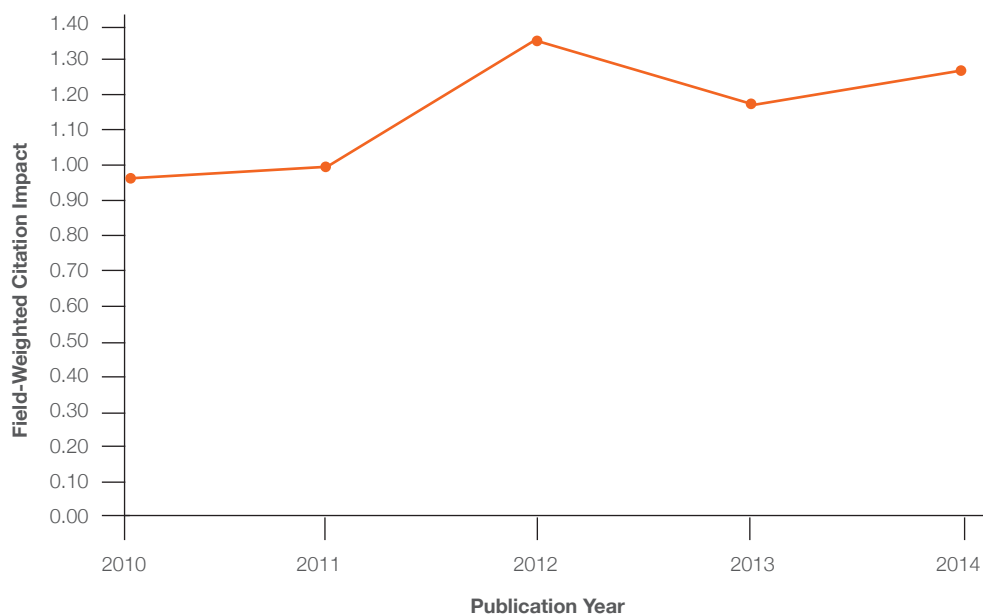
(shown by number of co-authored publications and citations)

UJ's research collaboration with national institutions is also admirable. UJ has co-authored publications with South Africa's leading institutions, including the University of Cape Town, Wits University, Stellenbosch University, the University of Pretoria and the Council for Scientific and Industrial Research (CSIR), among others. Of particular note are the 510 publications co-authored by 211 UJ researchers with their counterparts at the University of the Witwatersrand. These publications have collectively attracted almost 8 400 citations; almost as impressive as UJ's collaboration with the University of Oxford in the UK.

UJ has also made great progress with respect to the impact and stature of its research. As measured by its field-weighted citation impact, UJ's publications achieved a citation impact of 18%, greater than the world average for the period 2010 to 2014, with an impact 26% greater than the expected world average in 2014.

THESE PUBLICATIONS HAVE COLLECTIVELY ATTRACTED ALMOST

8 400
CITATIONS



Growth and upward trend of UJ's field-weighted citation impact for the period.

UJ publishes in many high-impact, internationally renowned journals, including *Physical Review Letters*, *IEEE Transactions on Information Theory*, *Earth and Planetary Sciences Letters*, *Monthly Notices of the Royal Astronomical Society*, and *PLoS One*.

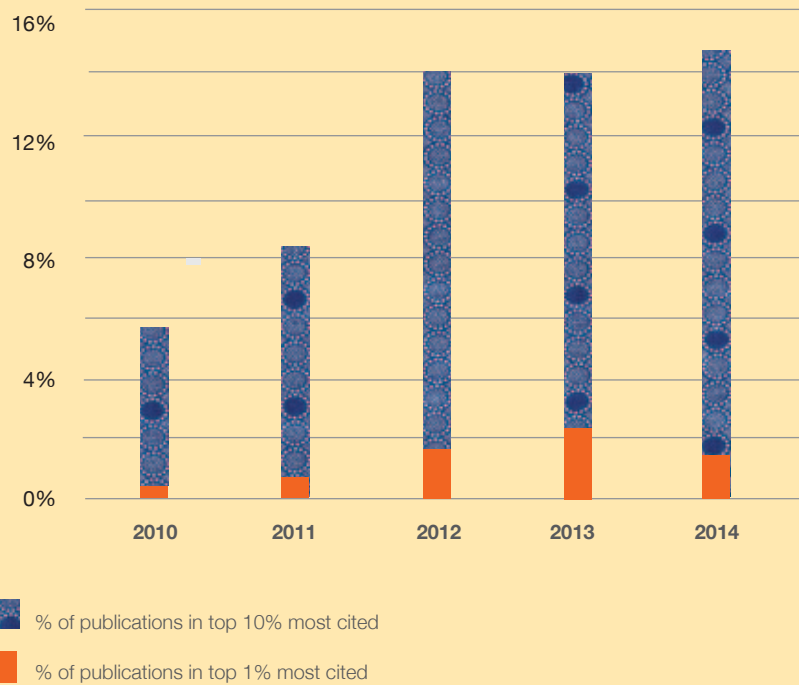
Top 10 journals that UJ published in over the period by publication volume

Journal	Publications	Citations	Authors
Tydskrif vir die Suid-Afrikaanse Reg	132 ▼	15	33 ▼
Acta Crystallographica Section E: Structure Reports Online	102 ▼	99	48 ▼
Mediterranean Journal of Social Sciences	96 ▲	17	56▲
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	79 ▲	4,688	9▲
Physical Review D - Particles, Fields, Gravitation and Cosmology	66 ▲	945	18▲
Journal of High Energy Physics	57 ▲	603	17▲
European Physical Journal C	56 ▲	297	11▲
South African Journal of Botany	51 ▲	135	27 ▼
IEEE AFRICON Conference	49 ▲	1	70 ▲
Physical Review Letters	46 ▲	1,126	41▲

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 2010, UJ had less than 1% of its publications in the top 1% most cited, and just over 5% of its publications in the top 10% most cited. By 2014, the number of publications in the top 1% most cited had doubled with 15% of its publications featuring in the top 10% most-cited publications worldwide.

559 (12.5%)

NUMBER OF PUBLICATIONS IN THE TOP 10% MOST CITED PUBLICATIONS WORLDWIDE



Share of publications at the University of Johannesburg that are among the most cited publications worldwide



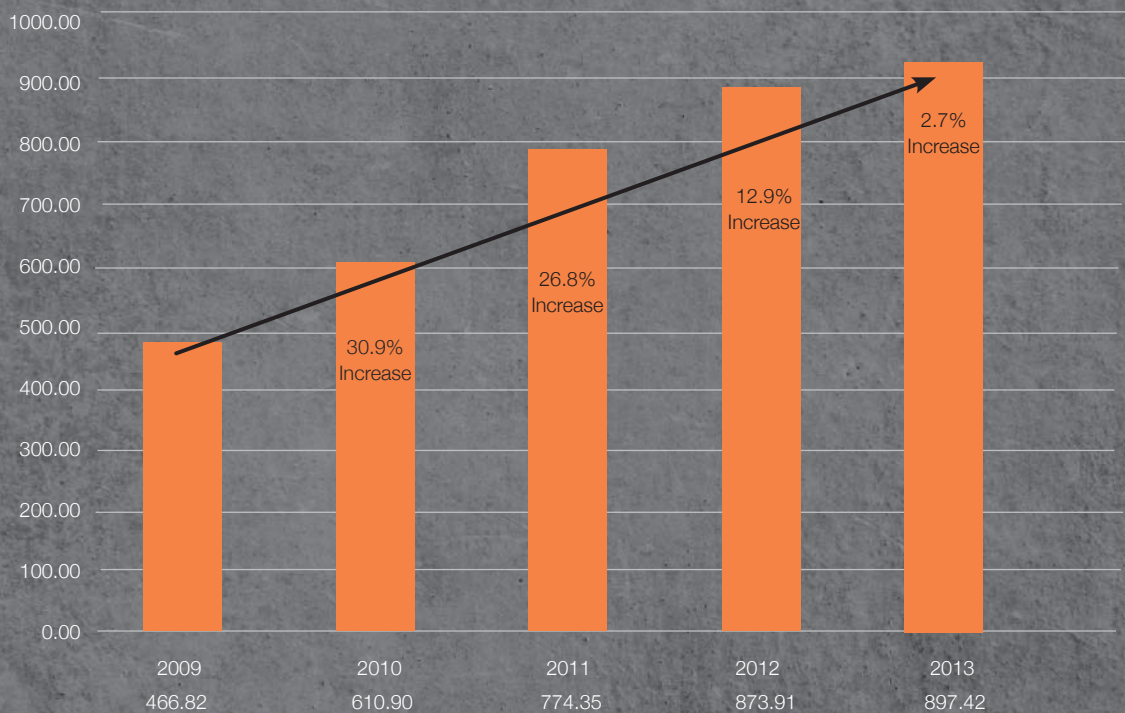
RESEARCH OVERVIEW

Research Performance

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.

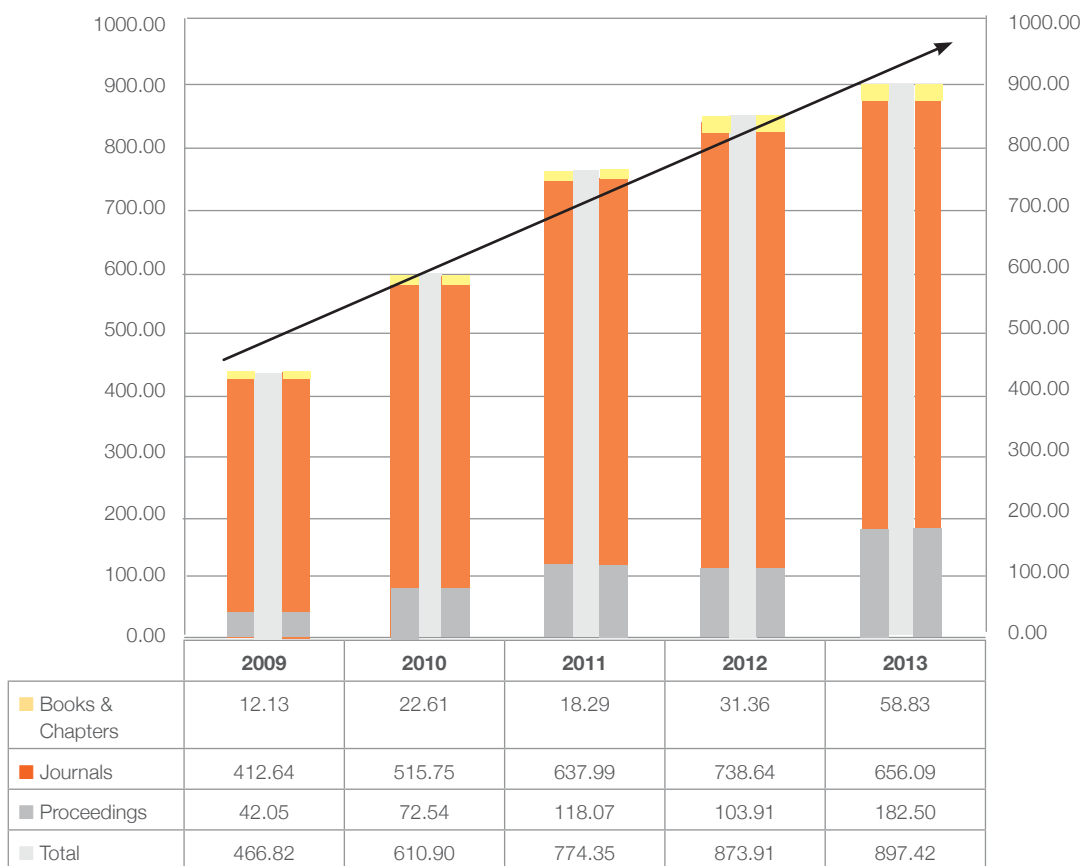
Research publications continue to show an upward trend with UJ achieving its stated goal for 2013: to maintain research publication outputs at a stable level. Research output units, as accredited by the DHET, increased by 2.7% from 873.91 units in 2012 to 897.42 units in 2013.



Total DHET units awarded

In 2013, a notable change in the composition of the units accredited by the DHET can be observed. The percentage of journal articles, which traditionally make up the bulk of the research output units, dropped noticeably, while the proportion of books, chapters and conference contributions all rose significantly. Of the 897.42 units awarded to UJ, journal articles comprised 73.1% of the total, with conference proceedings accounting for 20.3%, and books and chapters 6.6%.

Total DHET units awarded per publication type

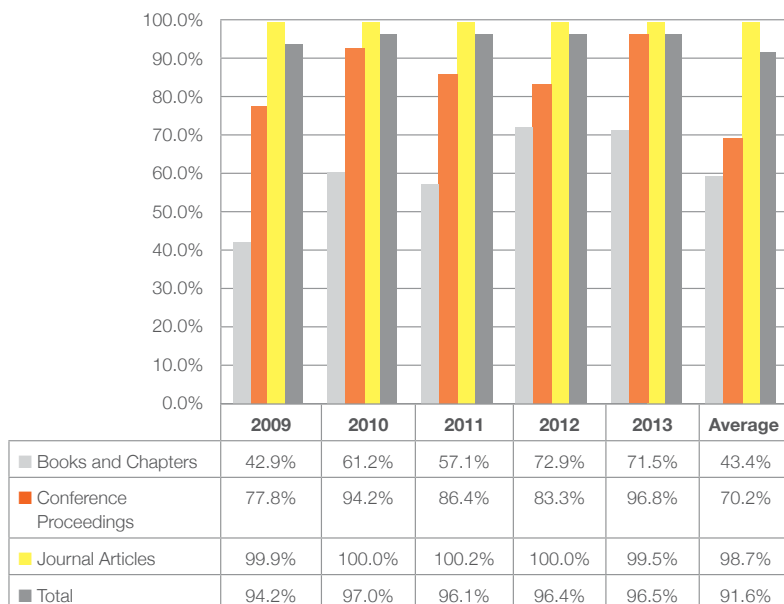


Approval rate

The University subjects all its outputs to rigorous internal screening and an external audit process in order to increase its approval rate and to ensure compliance with DHET policy. The submission of 2013 publications to the DHET resulted in almost 97% of all research outputs being granted subsidy. The acceptance rate for journal articles dropped negligibly, but research outputs in books, chapters and conference proceedings all showed continued improvement, with the average yearly improvement rate continuing to rise dramatically.

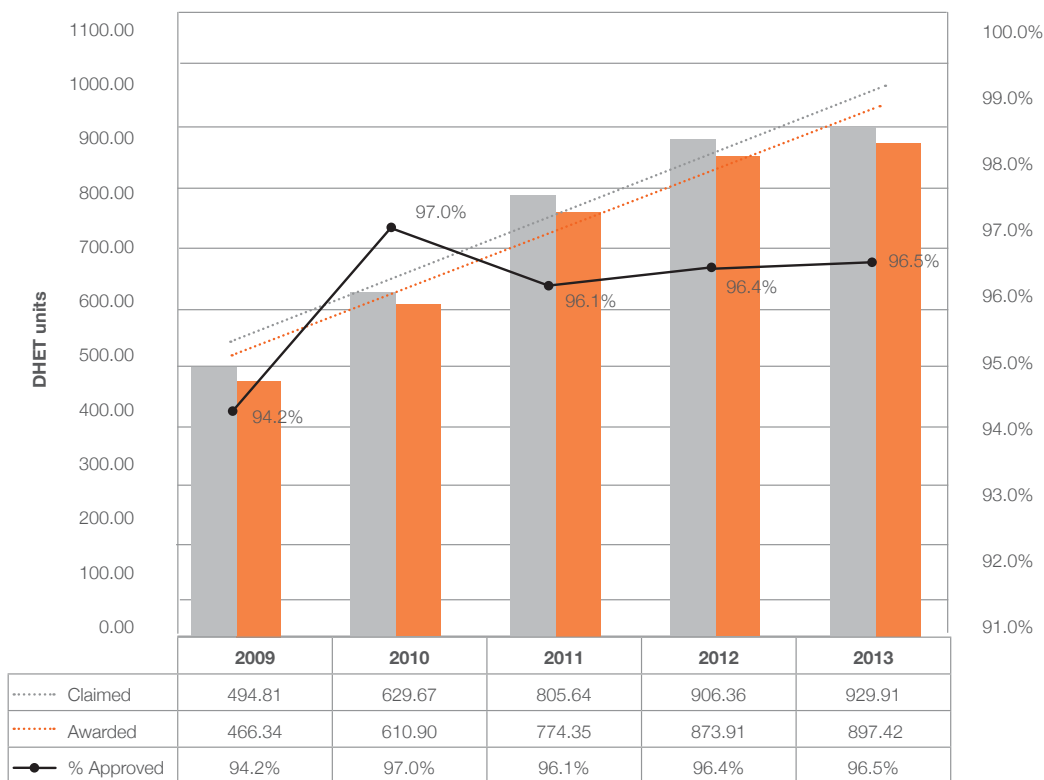
The University was awarded 656.09 units (99.5% approval rate) for publications in accredited journals, 182.50 units (96.8% approval rate) for conference proceedings and 58.83 units (71.5% approval rate) for books and book chapters. Overall, 96.5% of all publications submitted to the DHET received accreditation.

Submission acceptance rate (% of submitted vs awarded units) per output types published



There were upward trends in three key research output indicators: units claimed, units awarded and the annual percentage approval rate.

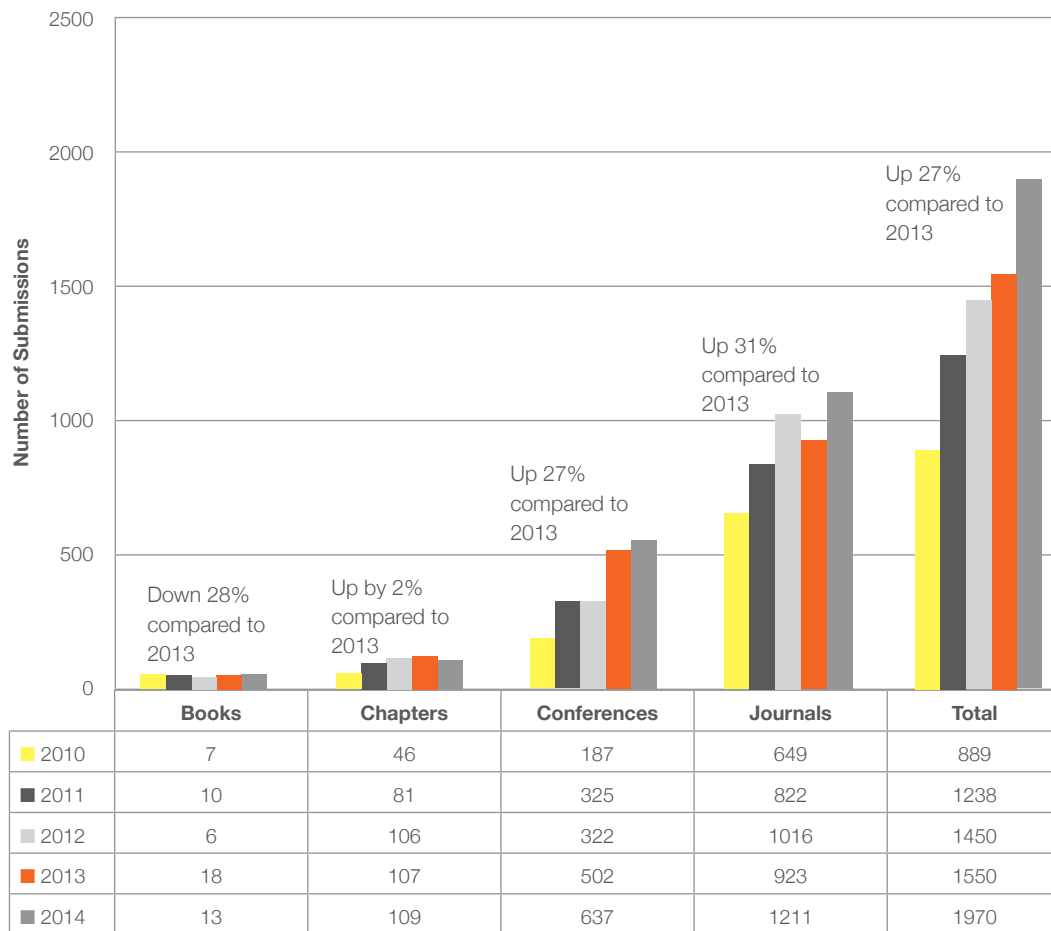
Submission success rate: DHET units claimed vs units awarded



Research outputs 2014

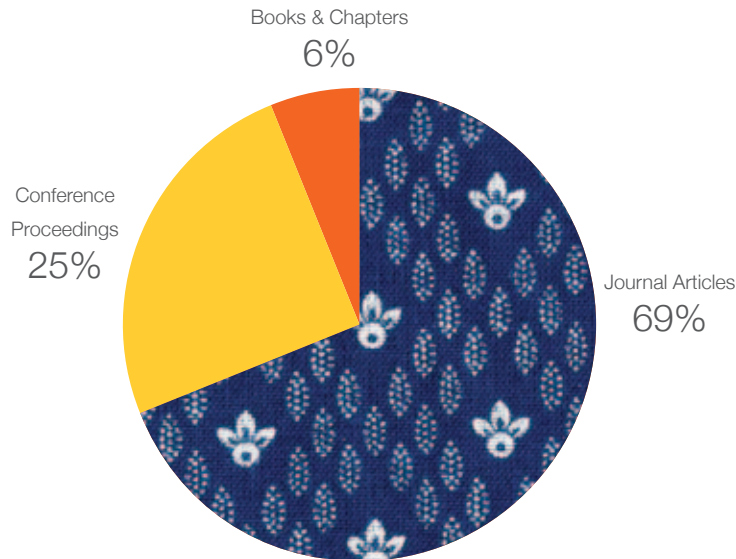
The University recorded 1 970 research publications for DHET accreditation in 2014, which represents an overall increase of 27% when compared to the 1 550 publications recorded in 2013. Although the number of books received for accreditation declined, all the other output types reflected increases compared with 2013. Books declined from 18 to 13 (-28%), chapters increased marginally from 107 to 109 (+2%), conference proceedings increased from 502 to 637 (+27%) and journal articles increased from 923 to 1 211 (+31%).

Total number of research output publications submitted for DHET accreditation



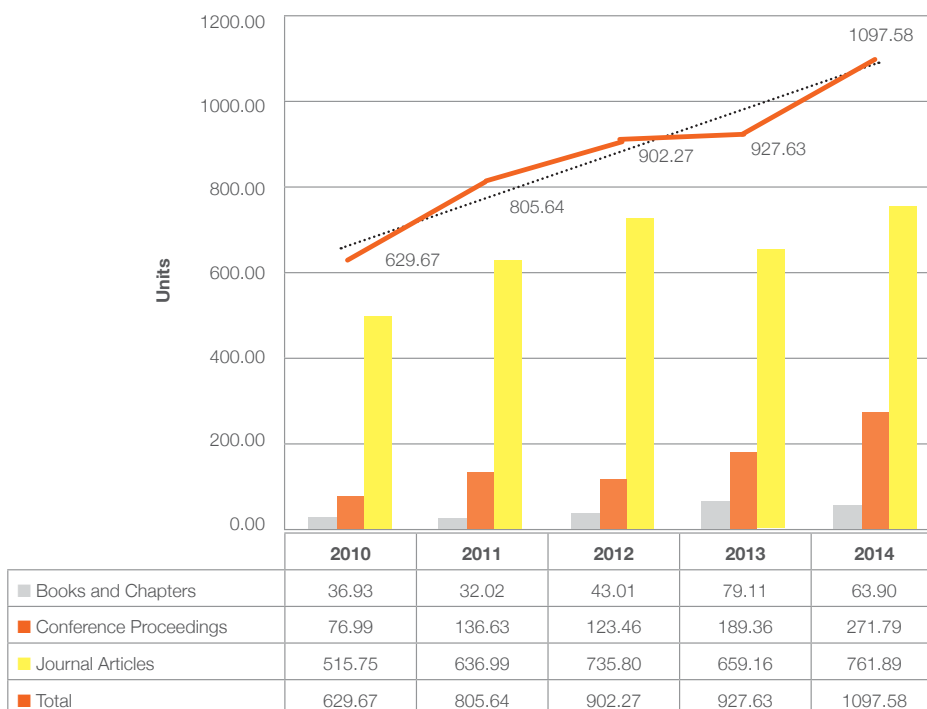
In 2014, journal articles accounted for 69% of the submission (down from 71% in 2013). Conference proceedings exhibited the greatest growth from 20% in 2013 to 25% in 2014. The volume of books and chapters declined from 9% in 2013 to 6% in 2014.

Composition of total units submitted 2014

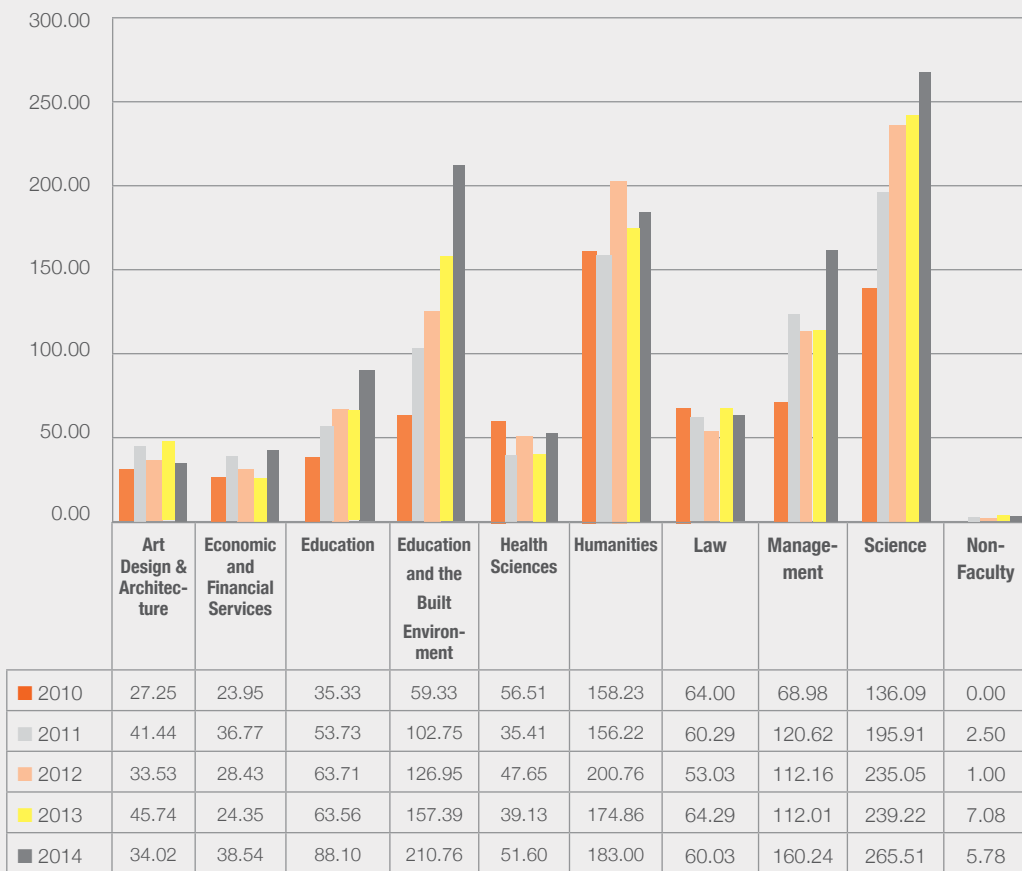


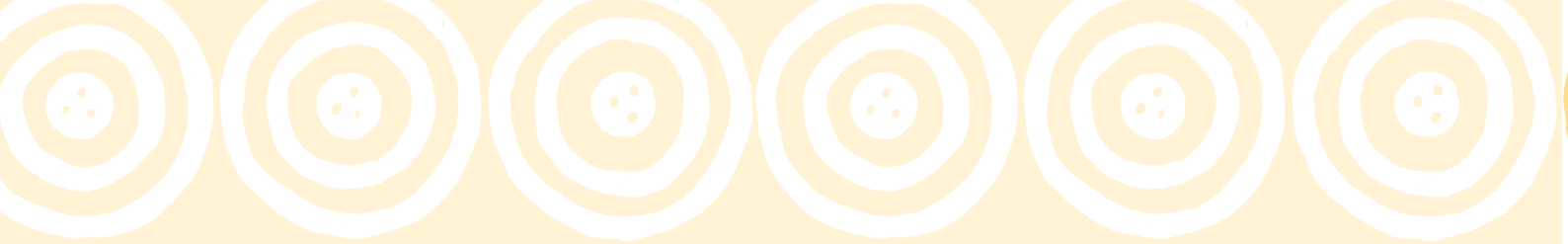
UJ's average growth in the number of units submitted to the DHET annually for subsidy remains in the double digits. Since its inception in 2005, UJ has exhibited a compound annual growth of 12.1%, having grown by over 18% between 2013 and 2014 alone. In 2014, outputs totalling 1 097.58 units were submitted to the DHET, comprising 63.9 units for books and chapters, 271.79 for conference proceedings and 761.89 for journal articles.

Research output units submitted to the DHET for subsidy

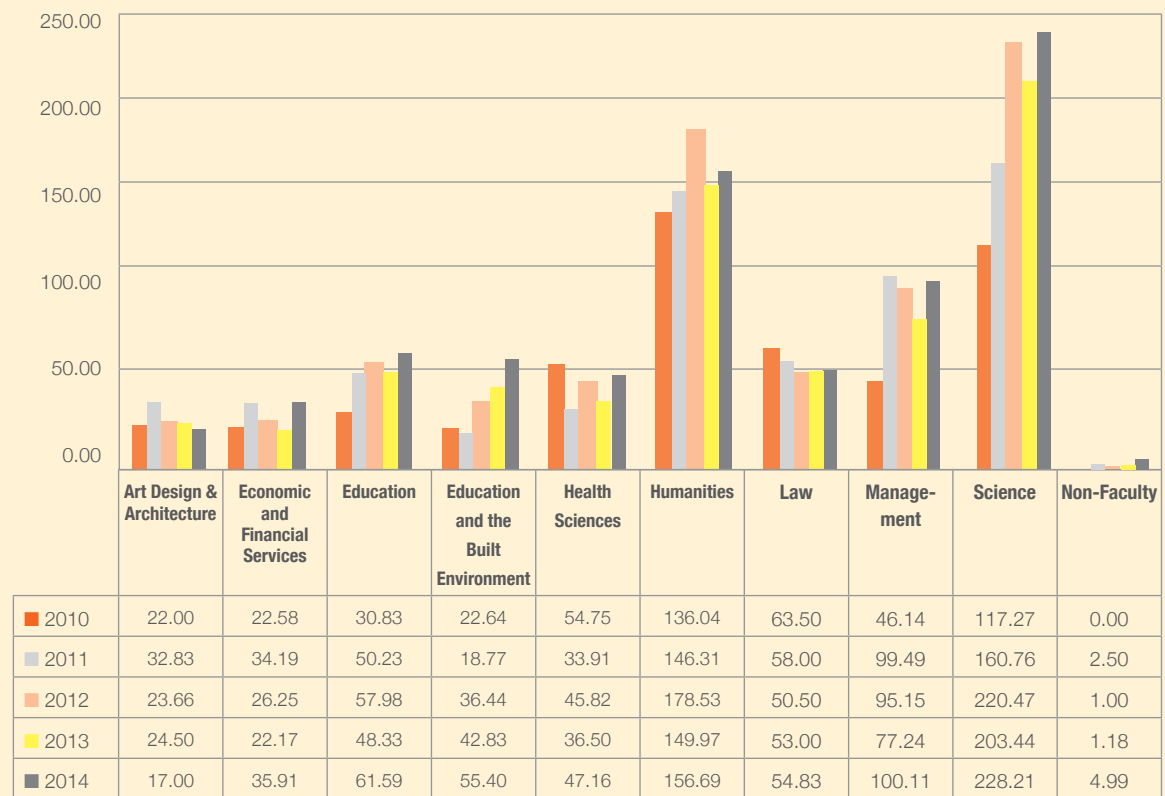


TOTAL UNITS SUBMITTED PER FACULTY

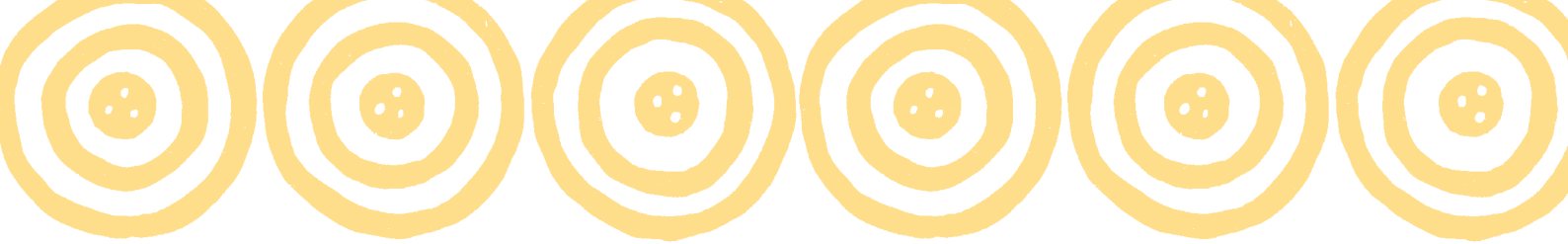




Journal articles – units submitted per faculty

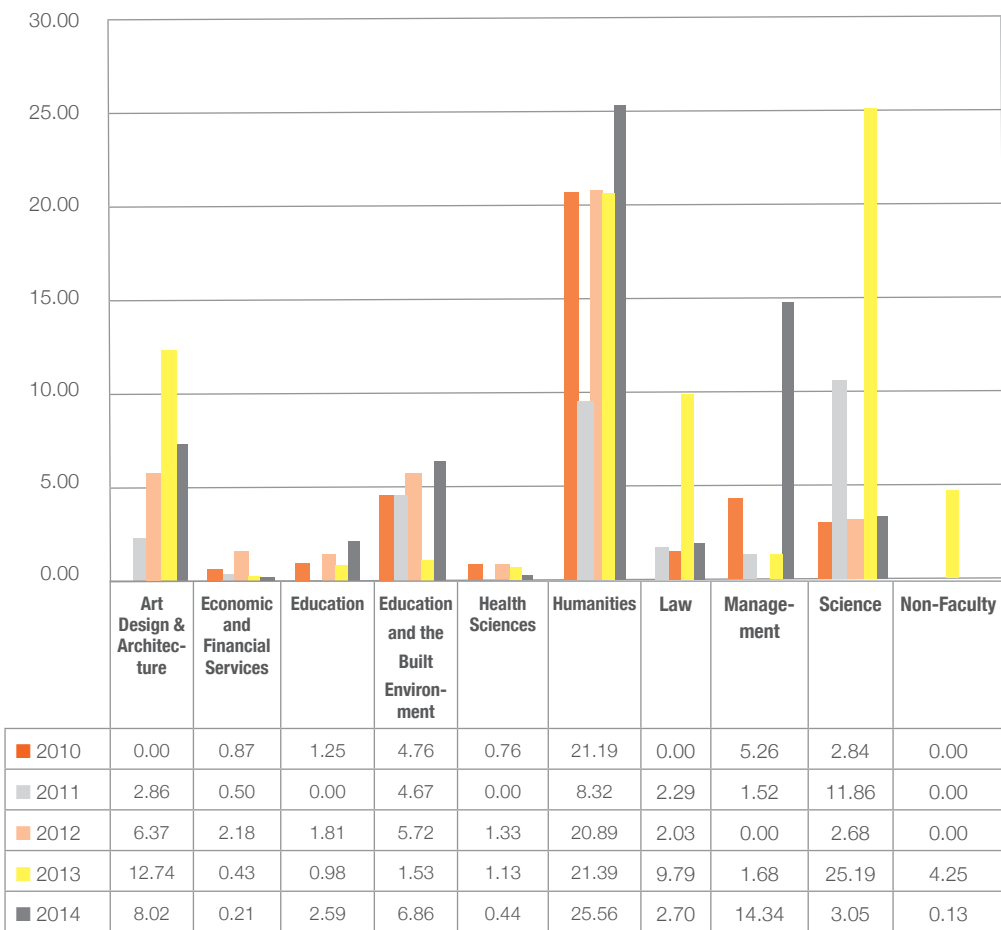


JOURNAL ARTICLES



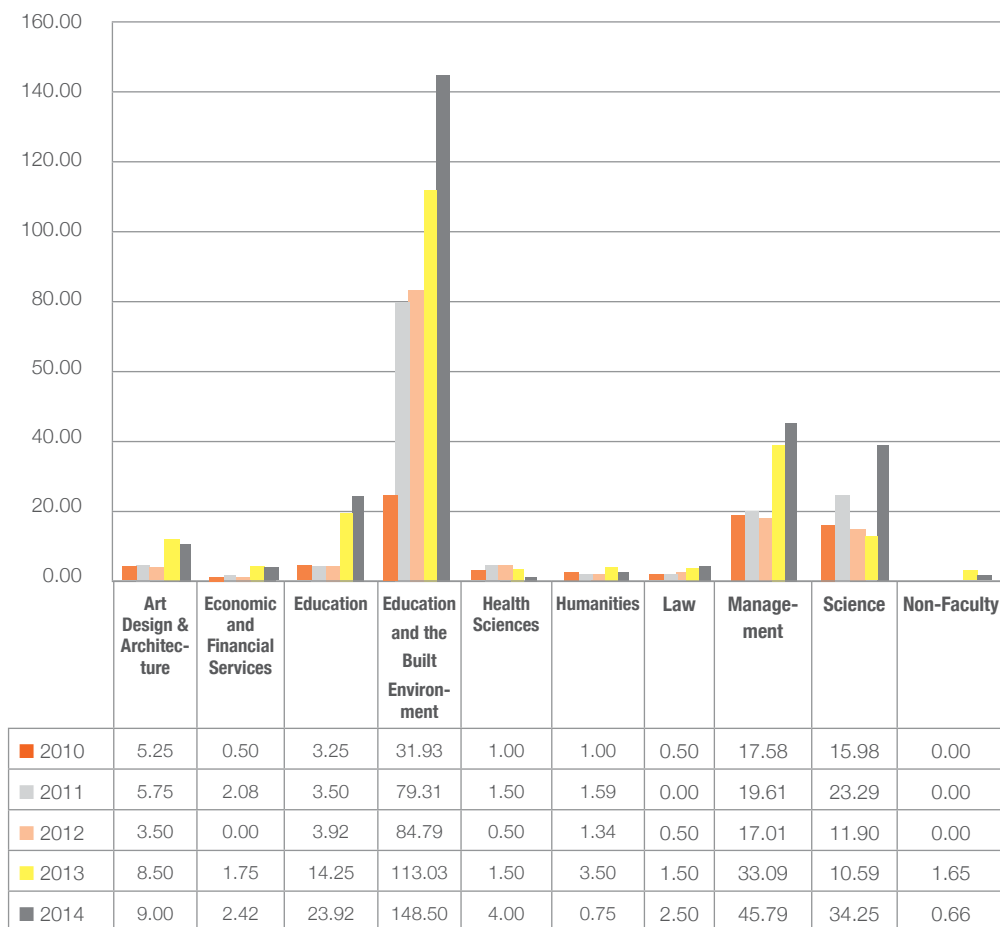
BOOKS AND CHAPTERS

Books and Chapters – Units Submitted per Faculty



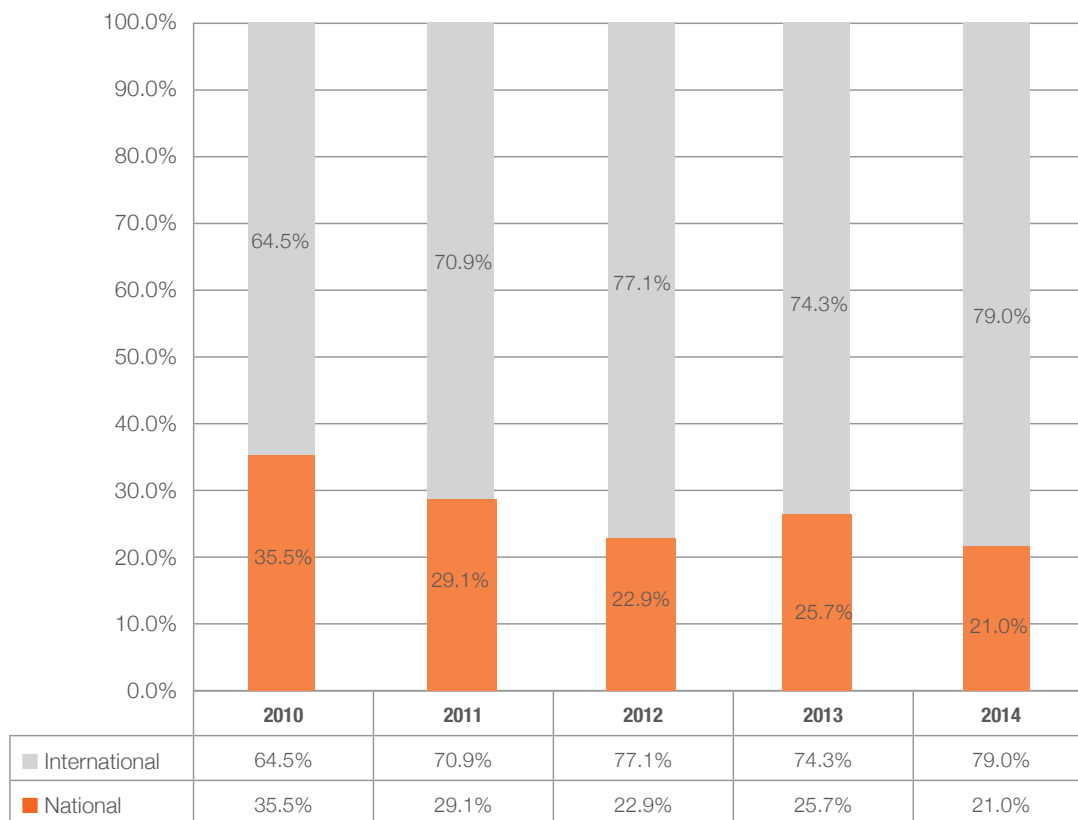
CONFERENCE PROCEEDINGS

Conference proceedings – units submitted per faculty

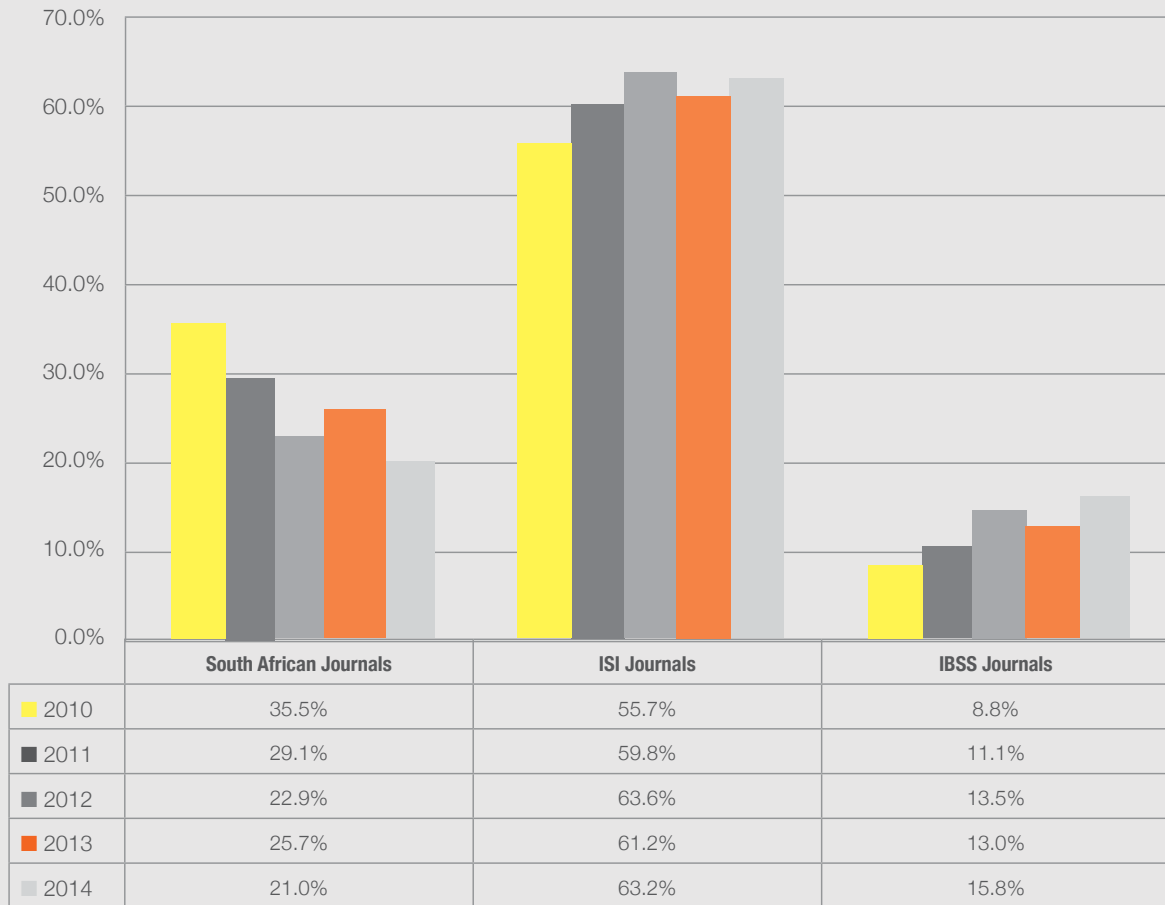


Initiatives to increase the stature and impact of UJ's research output by promoting publication in international journals continue to yield results. The vast majority of publications (79%) submitted for DHET accreditation in 2014 appeared in internationally recognised (ISI and IBSS), peer-reviewed journals.

Percentage of publications in national vs international journals



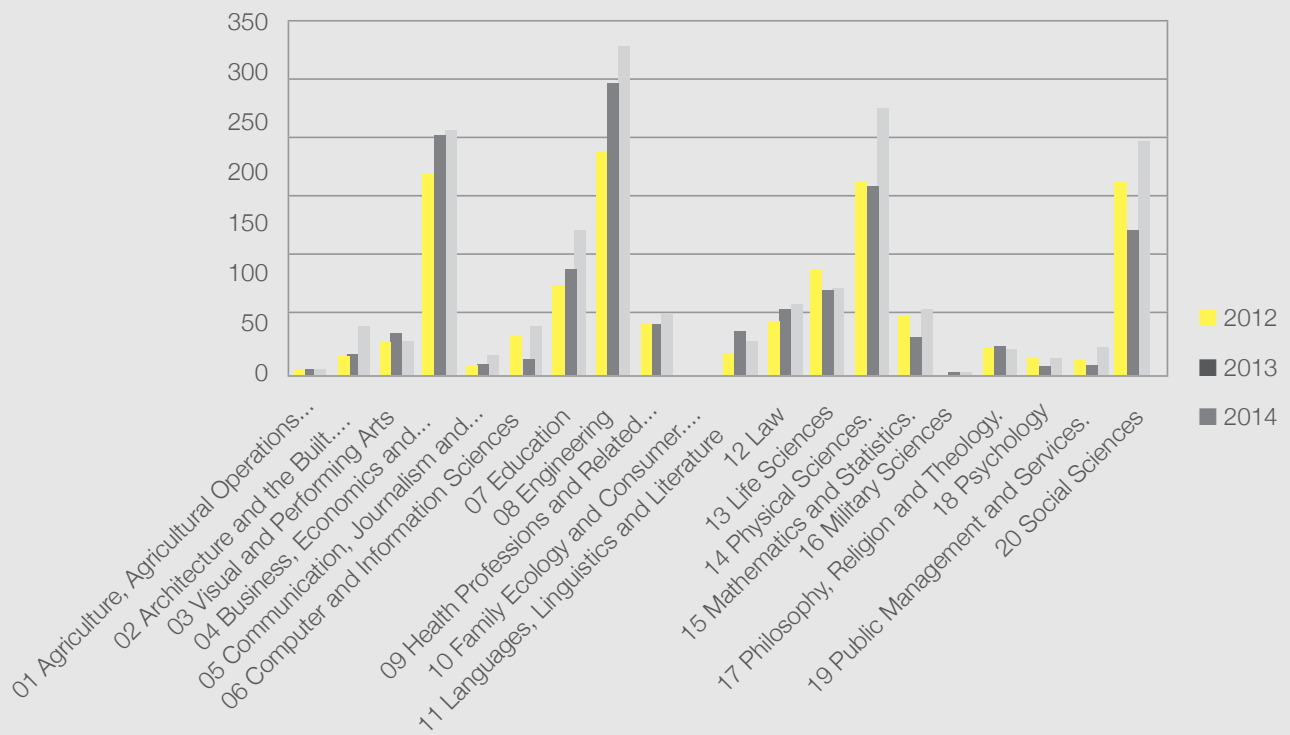
PERCENTAGE JOURNALS SUBMITTED PER CITATION INDEX



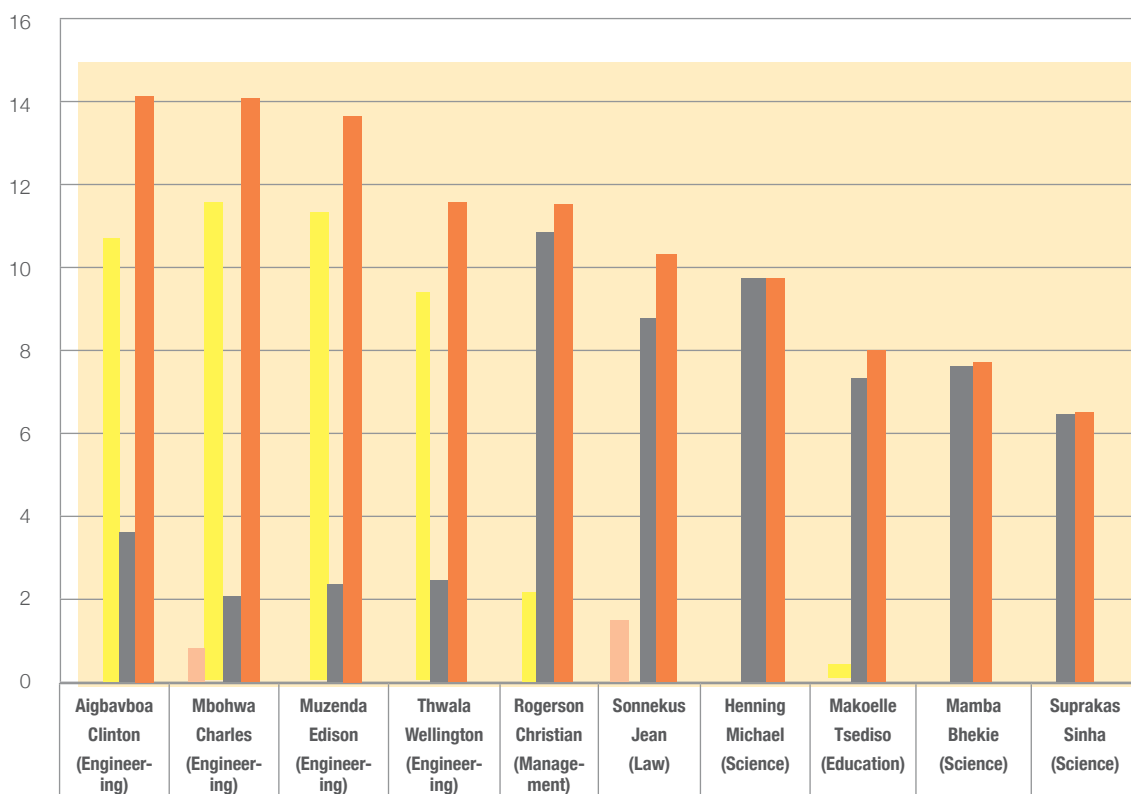
Research activity

The DHET uses the Classification of Educational Subject Matter (CESM) codes to determine areas of research activity. Traditionally, UJ has produced relatively high volumes of research outputs in the fields of Engineering (CESM 08); Business, Economics and Management Studies (CESM 04); Social Sciences (CESM 20) and Physical Sciences (CESM 14). This trend continued in 2014, with notably increased activity in both Social Sciences (CESM 20) and Physical Sciences (CESM 14), as well as significant increases in Architecture and the Built Environment (CESM 02), Computer and Information Sciences (CESM 06), Education (CESM 07) and Mathematics and Statistics (CESM 15).

Total publications submitted per CESM category



**UJ'S TOP 10 CONTRIBUTORS OF DHET RESEARCH OUTPUT
UNITS SUBMITTED TO THE DHET FOR PUBLICATIONS IN 2014**



■ Books										
■ Chapters		0.73				1.33				
■ Conferences	10.74	11.56	11.38	9.18	0.75		0.50			
■ Journals	3.66	2.07	2.32	2.49	10.83	9.00	9.76	7.50	7.75	6.52
■ Total	14.40	14.36	13.70	11.67	11.58	10.33	9.76	8.00	7.75	6.52

RESEARCH FUNDING

The University relies on its internal funds and external funds to continue supporting research. Internal funds accounted for 36% of total research expenditure, while external income accounted for 64% of research expenditure. In the previous year, the figures were 38% and 62%, respectively. Overall, total research expenditure increased to R170 million, compared with R153 million the previous year. Strategies are in place and are implemented to grow the external income component to reduce the dependency on the University. Currently, all the research centres are measured against generating external income.

In 2014, the University's internal research budget was R61.47 million. External research income is broadly divided between the NRF funds and other external funds. External income from the NRF increased by 65% from R52.14 million to R86.21 million. This was because, in certain cases, the full amount of the grants was not released. External income from other sources equalled R22.80 million, which is down from R42.59 million in the previous year.

The main internal funding categories are scholarships and bursaries, top-up of NRF grants, research incentives (bonuses for obtaining NRF Rating, research output subsidies and VC Research Awards), University Research Committee (URC) research grants and equipment, and equipment repairs/maintenance grants. Internal funds account for 19% of total research funding, while the NRF and other external income account for 81%. In 2013, the figures were 22% and 78% respectively.

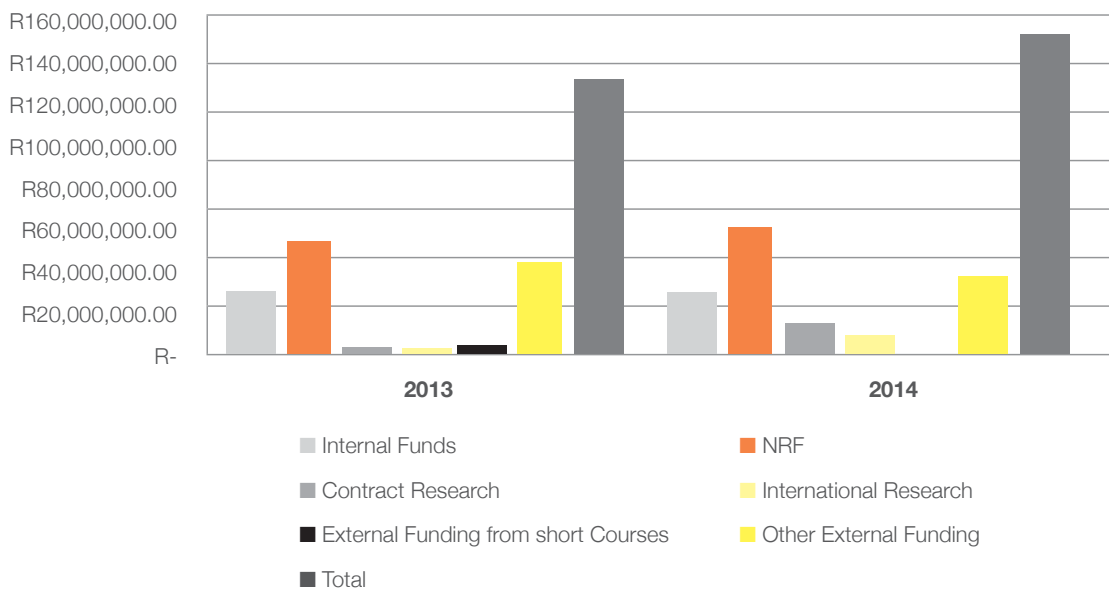
The University spent internal funds amounting to R28.90 million (excluding bursaries), up from R28.60 million in 2013. External income from the NRF was R61.32 million, up from R51.76 million in 2013. External income from contract research went up from R1.39 million in 2013 to R15.38 million in 2014. International income also reflected a gain from R1.89 million in 2013 to R8.65 million in 2014. External income from other sources reflected a decrease from R44.13 million in 2013 to R37.50 million in 2014.

Overall total research funding increased by 15% from R131.71 million in 2013 to R151.76 million in 2014.

OVERALL TOTAL RESEARCH FUNDING INCREASED BY

15%

Research funding



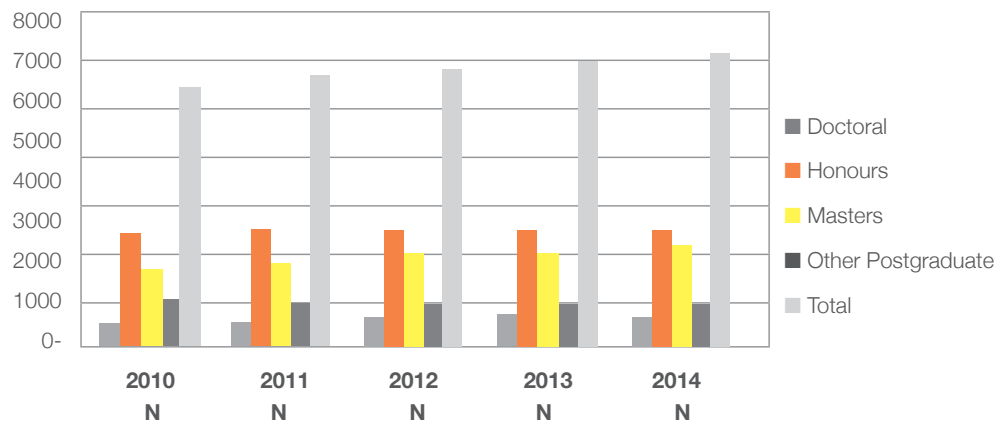
Postgraduate and Postdoctoral Funding and Research

Enrolled postgraduate students

Over 2010 to 2014, doctoral enrolments reflect a growth of 32.12% and master's enrolment a growth of 31.82%. Honours enrolments have increased by 6.29%, but postgraduate diplomas and certificates reflect a decrease of 11.92%.

The percentage change over 2013 and 2014 in doctoral enrolments reflects a continued upward trend of 7.75% and for master's 6.4%. The change in honours enrolments has stabilised and enrolments for postgraduate diplomas and certificates have increased by 2%. Overall growth in postgraduate enrolment over the five-year period is 13.13% and the increase from 2013 to 2014 is 3.15%.

Postgraduate enrolment per qualification type over five years



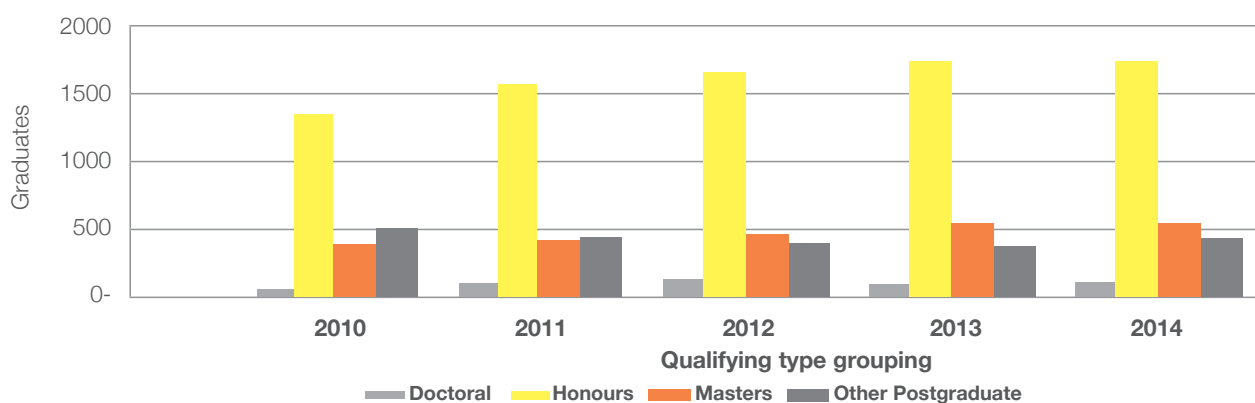
	2010 N	2011 N	2012 N	2013 N	2014 N	Change 2013-2014	Change 2010-2014
Doctoral	579	629	660	710	765	7.75%	32.12%
Honours	2 653	2 830	2 856	2 827	2 820	-0.25%	6.29%
Master's	1 854	2 039	2 132	2 297	2 444	6.40%	31.82%
Other Postgraduate	1 099	955	969	949	968	2.00%	-11.92%
Total	6 185	6 453	6 617	6 783	6 997	3.15%	13.13%

Postgraduate output per qualification type

The total postgraduate output per qualification type for 2014 reflects an increase in the number of doctoral graduations of 20.07% from 2010 to 2014. Master's graduation numbers increased by 9.32% and honours degree graduations increased by 6.4%.

The change in the number of doctoral graduations from 2013 to 2014 is the highest, at a 32.9% improvement, followed by other postdoctoral qualifications at 22.92%. The overall increase in postgraduate graduations over the five years was 5.19% with a 3.65% increase between 2013 and 2014. Although the data indicate a significant increase in doctoral output and an upward trend, it must be kept in mind that the 106 doctoral graduates represent different cohorts that have received focused attention to encourage graduation.

Postgraduate qualification type 2010 to 2014



Qualification Type	2010 N	2011 N	2012 N	2013 N	2014 N	Growth: 10 - 14 %	Change: 13 - 14 %
Doctoral	51	68	109	78	106	20.07%	35.90%
Honours	1 333	1 559	1 638	1 730	1 709	6.41%	-1.21%
Master's	369	394	430	514	527	9.32%	2.53%
Other Postgraduate	497	424	348	336	413	-4.52%	22.92%
Total	2 250	2 445	2 525	2 658	2 755	5.19%	3.65%

Postgraduate Funding (PFS)

PFS has continued to improve internal and external funding opportunities to students at honours, master's and doctoral level:

- the UJ Honours Bursary has been implemented across all faculties within certain disciplines as a five-year project;
- a five-year project plan for the award of GES bursaries to master's/doctoral students and postdoctoral fellows was successfully implemented in 2014;
- URC International Scholarships for master's and PhD students were successfully awarded in 2014, and will be awarded again in 2015;
- five additional external sponsors have been secured for the 2015 financial year.

In 2013, the total postgraduate funding administered by the PGC's Postgraduate Funding Support (PFS) section was R69.6 million with the main sources being the NRF and the University Research Committee. Both the NRF and URC funding have increased significantly over the last five years, with URC funds currently at R33.27 million and the NRF funding currently at R34.25 million. This is an increase of 17.05% from 2013 to 2015 (12.1% from URC and 22.3% from NRF) and an increase of 87% over the last five years (80.8% from URC and 93.5% from NRF). The number of students supported through these funds has also increased significantly, with a 35.2% increase over the last year and a 69.2% increase over the last five years.

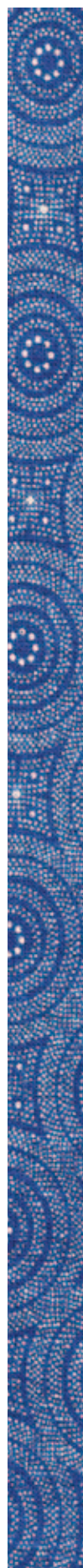
A high demand for Honours/BTech NRF bursaries was evident with over 900 applications being received. The URC funding for this was R13.77 million and a further R0.94 million supplied from various faculty reserves. A total of 499 honours students were supported through this initiative.

The 2015 master's and doctoral student funding calls were launched from June to September 2014. Over 500 applications were received for the various calls. The funding for the Scarce Skills Scholarships increased to the same value as the Innovation Scholarships in 2014, with master's students and doctoral candidates receiving an additional R10 000 per annum (R70 000 and R100 000, respectively).

The NRF Innovation Scholarships call for master's and doctoral scholarships was opened to non-South Africans, and a call for part-time doctoral students was launched for the first time in 2014.

The URC funding contribution towards postdoctoral fellowships was R10 million and external funders contributed R5.4 million in 2014. This supported an increased number of postdoctoral research fellows (PDRFs), with these registrations steadily increasing. The numbers of PDRFs has increased from 111 in 2012 to 171 in 2014. Continued strides were made to support the increasing number of PDRFs and the 2014 budget for PDRFs.

The Next Generation Scholarship (NGS) programme admitted 67 students in total (28 master's students and 39 doctoral students). Upon evaluation of each faculty, PFS has come to the conclusion that this programme has succeeded, as 27 students have completed their master's and 12 have completed their PhDs. Thus far, 29 graduates from the programme have been appointed as permanent/fixed-term or part-time academic staff at UJ.



The University has

24

research centres

Statistical support

During 2014, Statkon consultants contributed to excellence in research and an increase in research output and throughput of students, by providing research design support for 199 new projects. For these same objectives, Statkon consultants provided analysis support for 185 new projects in 2014. This support was predominantly requisitioned from the Faculties of Management and Health Sciences and from honours, master's and PhD students and staff members.

An additional activity contributing to UJ's objectives to increase research output and improve student throughput was Statkon's facilitation of data capturing of 155 datasets from 116 projects in 2014.

Statkon consultants contributed to development of staff and postgraduate research skills through facilitation of workshops on Descriptive and Summary Statistics, Statistical Techniques for Comparing Groups, Statistical Techniques for Examining Relationships, Sampling and Questionnaire Design.

URC-recognised research entities

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





Centre for Visual Identities in Art and Design

Directed by Dr L Farber and part of the Faculty of Art, Design and Architecture, this Centre focuses on identity construction in contemporary and historical contexts; and visual practice, visual representation and culture in the post-apartheid South African context.



Centre for Education Practice Research

Directed by Prof E Henning and part of the Faculty of Education, this Centre specialises in the ecologies of practice, focusing on teacher development and early childhood development.



Centre for Education Rights and Transformation

Directed by Prof S Vally and part of the Faculty of Education, this Centre strives to make a positive contribution to knowledge creation and social transformation and to create synergy between scholarship, social action and community outreach.



Telecommunications Research Group

Directed by Prof HC Ferreira and part of the Faculty of Engineering and the Built Environment, this Centre focuses on information theory, particularly channel coding in digital telecommunications and power electronics.



Stream Processing Research Group/Hypervision Research Laboratory

Directed by Prof A Nel and part of the Faculty of Engineering and the Built Environment, this Centre focuses on large-scale computing problems in engineering, image processing and computer vision.



Minerals Processing and Technology Research Group

Directed by Prof A Mulaba and part of the Faculty of Engineering and the Built Environment, this Centre focuses on mineral processing: metal extraction, metal refining and minerals value-add.



Composite Materials Research Group

Directed by Prof A Nel and part of the Faculty of Engineering and the Built Environment, this Centre focuses on the use of composite materials in specific areas. One of them, namely the use of indigenous materials as replacement, is considered important for developing low-cost, multicomponent materials for use in a variety of structural applications.



Photonics Research Group

Directed by Dr R Martinez and part of the Faculty of Engineering and the Built Environment, this Centre focuses on basic and applied research in photonics, fibre lasers and fibre sensors.



Sustainable Energy Technology Testing and Research Centre

Directed by Prof J Meyer and part of the Faculty of Engineering and the Built Environment (previously part of the Faculty of Science), this Centre focuses on sustainable energy technologies with its current activities augmented by an engineering focus on energy.



South African Accounting History Centre

Directed by Prof G Verhoef and part of the Faculty of Economic and Financial Sciences, this Centre focuses on accounting history, with specific reference to the accounting profession, accounting regulation, accounting and audit practice, governance, accounting education and tax history.



Centre for Anthropological Research

Directed by Prof T de Wet and part of the Faculty of Humanities, this Centre focuses on socio-cultural and biological anthropology: human origins, urban anthropology and indigenous knowledge.



Centre for Social Development in Africa

Directed by Prof L Patel and part of the Faculty of Humanities, this Centre focuses on social development and developmental welfare.



Centre for the Study of Democracy

Directed by Prof S Friedman and part of the Faculty of Humanities, this Centre is dedicated to an attempt to understand democracy and the specific forms it takes within South Africa and on the African continent.



Laser Research Centre

Directed by Prof H Abrahamse and part of the Faculty of Health Sciences, this Centre works on wound healing, photodynamic cancer therapy and stem cell therapy.



Water and Health Research Unit

Directed by Dr TG Barnard and part of the Faculty of Health Sciences, it focuses on the relationship between water and human health, improved general health and access to safe water and improved domestic hygiene and sanitation.



South African Institute for Advanced Constitutional, Public Human Rights and International Law

Directed by Prof D Biltchitz and part of the Faculty of Law, this Centre focuses on constitutional, public and international law, including socio-economic rights, and business and human rights.



Centre for Information and Knowledge Management

Directed by Prof C Rensleigh and part of the Faculty of Management, this Centre hosts the Annual Conference on Information and Knowledge Management with the focus on competitive intelligence.



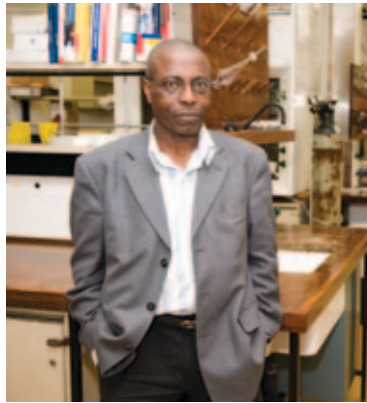
Centre for Work Performance

Directed by Prof GP de Bruin and part of the Faculty of Management, the Centre focuses, among other areas, on methodological aspects of cross-cultural research in people management, capacity building in research methodology in people management and administration of postgraduate research processes in the department of IPPM.



Institute of Transport and Logistics Studies

Directed by Prof J Walters and part of the Faculty of Management, this Centre focuses on transport, logistics and supply chain management.



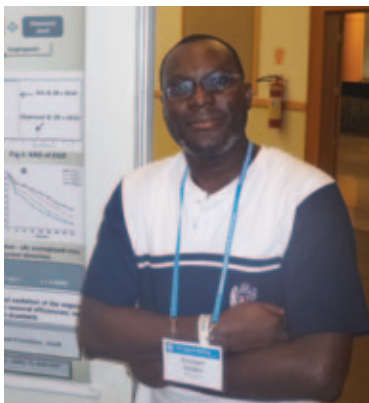
Centre for Catalysis Research

Directed by Prof J Darkwa and part of the Faculty of Science, this Centre researches homogeneous catalysis, strongly underpinned by organic and organo-metallic synthesis, especially of new classes of ligands and catalyst precursors.



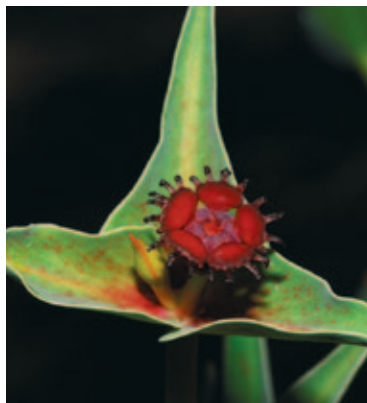
Paleoproterozoic Mineralisation Research Group

Directed by Prof JD Kramers and part of the Faculty of Science, this Centre focuses on geological studies, particularly on the mode of formation of ore deposits in the Paleoproterozoic period, the fundamental changes in Earth's environment that took place during this time, as well as on the mineralogical studies aimed at optimising metal concentration from ores (geometallurgy).



Centre for Nanomaterials Science Research

Directed by Prof Arotiba and part of the Faculty of Science, this Centre focuses on the synthesis, functionalisation, characterisation and applications of carbon-based nanomaterials, i.e. carbon nanotubes and strong composites.



Centre for Plant DNA-Barcoding

Directed by Prof M van der Bank and part of the Faculty of Science, the Centre's mission is to fill the knowledge gap and strengthen research frameworks for international, regional and inter-institutional cooperation in Africa, especially in the modern field of DNA technology for biodiversity science, such as DNA barcoding.



Centre for Competition, Regulation and Economic Development

Directed by Prof S Roberts, the focus of this standalone Research Centre includes competition economics, analysis of economic regulation, regional integration and economic development.

FACULTY OF ART, DESIGN AND ARCHITECTURE

(FADA)



PROF FEDERICO FRESCHI
EXECUTIVE DEAN: FACULTY OF ART,
DESIGN AND ARCHITECTURE

Message from the Executive Dean

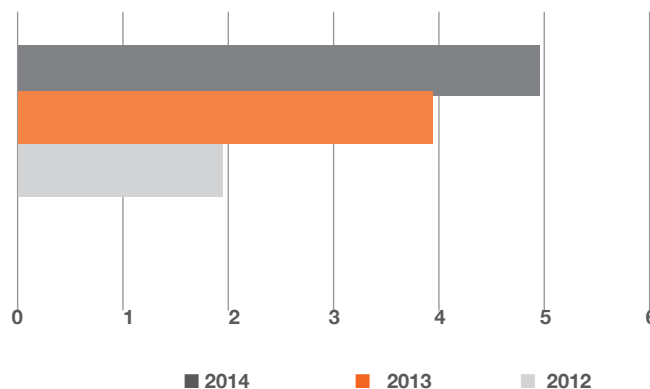
We emphasise sustainability, relevance and an engagement with the real world in our programmes, and connect actively with the dynamism, creativity and diversity of Johannesburg in promoting new approaches to design education that support the University's vision of being an international university of choice, anchored in Africa and dynamically shaping the future.

Research achievements

In 2014, the number of research-active, full-time academic staff – excluding assistant lecturers – increased marginally to 22 (or 46%) in 2014, up from 19 (43%) in 2013 and 16 (40%) in 2012. This increase in the number of research-active staff is partly the consequence of a more liberal approach to supporting requests for funding from the Faculty Research Committee, and partly due to a new strategy that seeks to create supportive environments and platforms across the Faculty's three focus areas. These focus areas are conventional research (supported by the Research Centre); scholarship of teaching and learning (supported by the the Scholarly Teaching and Art, Architecture and Design Community of Practice – STAND); and design and technology-led research supported by the Design Society Development DESIS (Design for Social Innovation and Sustainability) network.

NRF-rated researchers

There were five NRF-rated researchers in the Faculty in 2014, up from four in 2013. Over the years, there has been a steady increase in the number of NRF-rated researchers.



For more details on FADA's research activities, click on
<http://www.uj.ac.za/EN/Faculties/fada/Pages/default.aspx>



In September 2014, the Faculty, in collaboration with the Greenside Design Centre, hosted the Cumulus Conference at the Faculty. Cumulus is the only global association to serve art and design education and research, and as such provides a forum for partnership, transfer of knowledge and best practices. Cumulus consists currently of 211 members from 48 countries, and FADA became a full member of the association in 2014. The conference, entitled *Design with the other 90%*, ran over four days and attracted 178 delegates, of which 56% were international). FADA hosted Prof Joel Towers, Executive Dean of Parsons the New School of Design in New York City, as one of the keynote speakers.

Specialised curated exhibitions and planned events, such as a film club (to be known as FADAFILM), will provide a creative platform to stimulate critical thinking and scholarship through contemporary art and design issues and practice. Exhibitions such as *Design with the other 90%*, accompanying the Cumulus conference, and *Chroma 256*, an international travelling exhibition curated by Kevin Todd (University of the Sunshine Coast, Australia), supported FADA's drive towards global excellence and stature.

Two international conferences were hosted by the Faculty during the year. Four national and/or regional conferences and symposia were organised by members of Faculty on themes that were of direct relevance to research and teaching in the Faculty. In February, the Faculty and Interactive Africa jointly hosted a live simulcast of the international conference, Design Indaba, for a second year. The simulcast was presented at the UJ Arts Centre and provided the opportunity for young designers, staff and students in the Gauteng region to participate in the conference, which is annually presented in Cape Town.

Non-subsidised outputs in 2014

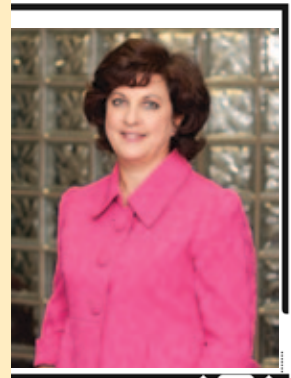
OUTPUTS	NUMBER
Articles published	56
Conference papers delivered	24
Conference papers delivered and published	33
Books published	3
Book chapters published	1
Reviews and reports published	4
TOTAL	121



FACULTY OF ECONOMIC AND FINANCIAL SCIENCES (FEFS)

Message from the Executive Dean

Over the past ten years, FEFS has undoubtedly grown in terms of size, scope and stature, and has carved for itself a widely acknowledged niche for financial education in the academic space. Given such advancements, the Peer Review Report, arising from the high-level Faculty Review conducted in August 2014, has now identified what it termed to be a 'principal opportunity' for the Faculty: "that UJ could, through the Faculty of Economic and Financial Science, by the distinctive clustering of the disciplines that comprise it, be recognised as *the* Pan-African educator in the financial services and regulation space".



PROF AMANDA DEMPSEY
EXECUTIVE DEAN: FACULTY OF ECONOMIC
AND FINANCIAL SERVICES

Research achievements

The four departments of the Faculty vary in their orientation and focus regarding research and scholarly activity. Measures in 2014 aimed at creating an environment that would stimulate research and scholarly activity included: three 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 also contributed towards creating an enabling research environment. The centres include: the Centre for Competition Regulation and Economic Development (CCRED), the Centre for Local Economic Development (CENLED), and the South African Accounting History Centre (SAAHC).

- **The Centre for Local Economic Development (CENLED)** continues to extend its footprint in the area of local economic development and entrepreneurship, with the number of municipalities in its mentorship programme increasing from 10 to 33 and the number of entrepreneurship centres at Technical and Vocational Education and Training (TVET) colleges increasing from two to six.
- **The Centre for Competition, Regulation and Economic Development (CCRED)** raises the level of conversation and debate on competition, regulation and industrial development through teaching, research projects, publications and quarterly reviews of key developments in competition policy and economics across the African continent. In 2014, it successfully co-hosted the 2nd South African Economic Regulators Conference with the National Energy Regulator of South Africa (NERSA).
- **The South African Accounting History Centre (SAAHC)** continues to make progress on an extensive research project aimed at measuring the GDP of 19th century South African colonies. The Centre is also involved in major research in African business history, involving the mobilisation of African researchers across the continent.

Preliminary (submitted) subsidised publications in the Faculty amounted to 45 items, which translate to 37.34 units, comprising 35.45 journal article units, 0.21 book chapter units and 1.68 units in respect of conference proceedings. This represents a 53.3% increase relative to 2013. This is an excellent turnaround for the Faculty, given the previous two years of decline in accredited output. The Department of Economics and Econometrics accounted for the lion's share of the 2014 accredited output at close to 70% of the total.

Faculty staff had 278 items of scholarly work in areas such as conferences, publications in non-accredited journals/media, non-subsidised books and research projects.

The Faculty hosted highly esteemed guests for its 2014 Public Lecture Series: The Honourable Mr Malusi Gigaba, Minister of Home Affairs, on the topic *Critical infrastructure needed to confront the challenges of the 21st Century*; Prof Dominick Salvatore, a distinguished Professor of Economics and Director of the PhD programme in Economics at Fordham University, New York, on the topic *Growth prospects in Africa with focus on South Africa*; and Mr TK Makwetu, Auditor-General of South Africa, on the topic *The role of accounting professionals in improving accountability and governance in municipalities and other entities of government*.



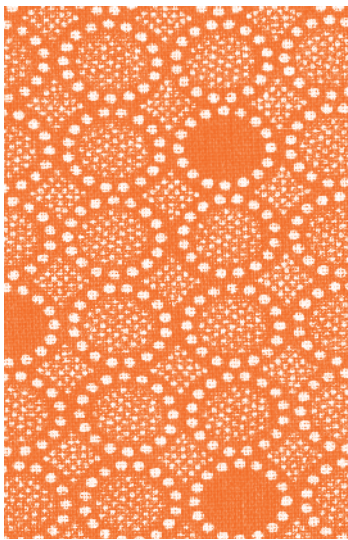
Follow link on www.cenled.co.za for more details on key research projects completed by CENLED

Follow link on www.competition.org.za for more details on key research projects completed by CCRED

Follow link on www.uj.ac.za/EN/Faculties/ecofin/accounting/saahc/ for more details on key research projects completed by SAAHC*

In 2014, there were four National Research Foundation (NRF)-rated researchers in the Faculty, namely Prof Grietjie Verhoef, Prof Alain Kabundi (who resigned with effect from the beginning of 2014, but was then appointed as a visiting professor), Prof Coenrad Labuschagne and Prof Fiona Tregenna. Prof Tregenna was awarded an NRF B-rating (B3) in 2014, making her one of just a few economists with a B-rating in South Africa.

The *Journal of Economic and Financial Sciences* (JEF) serves as an important medium through which the Faculty engages with the local and international research community in the fields of economics, finance and accountancy. In 2014, the Journal received 81 manuscripts for possible publication. The Journal currently has an acceptance rate of about 42%. The management and process flow of all articles and administration will be done via the Internet from 2015.



The Honourable Malusi Gigaba, Minister of Home Affairs, at the Public Lecture Series: Critical infrastructure needed to confront the challenges of the 21st century

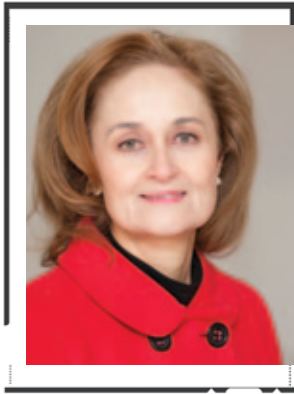
FEFS 2014 Doctoral Graduation List

PhD (Economics)

- Dr Jean Luc Erero
Thesis Title: The role of the informal sector in the economy of the Democratic Republic of Congo.
- Dr Jacoba Maria Magdalena Viljoen
Thesis Title: Economic and social aspects of the street waste pickers in South Africa.
- Dr Catherine Talita Greyling
Thesis Title: Measurement and analysis of quality of life of the diverse population of the Gauteng City-Region.



FACULTY OF EDUCATION



SARAH GRAVETT
EXECUTIVE DEAN: FACULTY
OF EDUCATION

Message from the Executive Dean

In 2014, the Faculty of Education's growing reputation and gradual movement towards global excellence and stature were affirmed.

Education as a field of study at UJ was ranked in the QS World University rankings as one of the top 200 education programmes in the world and one of the top five in South Africa. These universities all have a reputation of high quality in the field of Education. The rankings take account of global academic reputation, reputation among employers, and research output.

Rankings are but one way of assessing quality and standing. However, this achievement must serve to inspire the Faculty to accomplish more. Rankings occur annually. Therefore, the Faculty cannot rest on its laurels. It must implement a deliberate strategy to enhance and manage its global reputation, to ensure production of sought-after graduates and to broaden international research collaborations.

Research achievements

Two strategic initiatives were prioritised in 2014, namely the appointment of prominent visiting and distinguished visiting professors and postdoctoral fellows.

The following visiting professors were appointed:

- Prof Harm Tilema, University of Leiden
- Prof Kevin Downing, City University of Hong Kong
- Prof Jari Lavonen, University of Helsinki
- Prof Piro Aunio, University of Helsinki
- Prof Derrick Alridge, University of Virginia
- Prof Fouad Abd-El-Khalick, University of Illinois
- Prof Aziz Choudry, McGill University
- Prof Leon Tikly, University of Bristol

Three distinguished visiting professors were approved for appointment – Prof Annemarie Fritz-Stratmann (University of Duisberg-Essen), Prof Elias Mpofu (University of Sydney) and Prof Catherine Snow (Harvard University). Three postdoctoral fellows were appointed in 2013 and eight were appointed in 2014.

Part of the Faculty's global excellence drive is to bolster the Faculty's flagship programme area in childhood education. Two of the approved distinguished visiting professors, namely Prof Annemarie Fritz-Stratmann and Prof Catherine Snow, will be working in this programme area. The two visiting professors from the University of Helsinki are also collaborators in childhood education and they are involved in two externally funded projects coordinated by the Centre of Education Practice Research (CEPR). This Centre is affiliated to the Department of Childhood Education (DCE).

Staff members of the Department of Science and Technology Education visited Nanyang Technological University in November 2014. The purpose of the visit was mainly to explore the possibility of offering a joint master's degree in Science Education. In addition, future joint research and postgraduate student exchanges were discussed.

A substantive grant from USAID and the Elma Foundation was awarded to the Faculty in 2014 to establish the first Centre for African Language Teaching (CALT) at Siyabuswa in 2015. This Centre will be a UJ initiative for three years. Thereafter, it will be taken over by the UMP. The grant from USAID and Elma Foundation also supports the development of a teaching school at Siyabuswa.

A total of 3 878 students were enrolled in 2014 (initial target was 2 950 and over-enrolment was approved), and master's and doctoral numbers also exceeded the planned target. One hundred and seventy-five master's students were enrolled (seven more than planned) and 117 doctoral students were enrolled (23 more than planned).

The course/module success rate (module completion rate) increased to 87.0% in 2014 compared to 85.3% in 2013. A five-year perspective shows that the overall success rate of the Faculty has increased every year since 2010 – from 78.9% to 87.0% in 2014.

The Memorandum of Understanding between UJ and Georgia State University (GSU), Atlanta, in the USA, affords fourth-year BEd and PGCE students the opportunity to observe learning and teaching in schools in Atlanta as part fulfilment of the school experience (practicum) requirements of the programme. Twenty-five students and two staff members spent two weeks in Atlanta in 2014.

Centre for Education Practice Research

The Centre has four main areas of work, which include research, journal publication, teacher development and research capacity development. Prof Elizabeth Henning is the Director. Researchers participate as collaborators, largely from the Department of Childhood Education and also from the Department of Science, Mathematics and Technology Education at UJ.

A project on science concept development of children, dovetailing with a study of science knowledge of student teachers, was launched in 2014 with an NRF grant in Educational Research in South Africa (ERSA). This programme of research is under the leadership of the director of the CEPR and the co-investigator is Prof Jari Lavonen (Helsinki University), who is a leader in science education in Europe. The field research is conducted at UJ and the University of Zululand.

The *SA Journal of Childhood Education* is edited and produced by the CEPR, with Sun-Media as production house. Its fourth volume (three issues) was published in 2014. It was awarded DHET accreditation at the end of 2013 and was taken up in the listing of the International Bibliography of the Social Sciences (IBSS) in 2014.



The journal is in the open access category and online, with a small number of print copies, on www.uj.ac.za/sajce

Centre for Education Rights and Transformation

Noteworthy accomplishments in 2014 include:

- Public scholarship and community engagement-related publications: More than thirty monographs, booklets, manuals, op-eds and other articles were published in 2014.
- Prof Linda Chisholm, former adviser to the Minister for Basic Education and a highly regarded historian of education and a comparative educationist, was appointed as a staff member in November 2014.
- In 2014, CERT agreed to house the accredited journal *Education as Change*. The focus of the journal has changed recently from curriculum research to promoting critical educational research that investigates issues of social justice and equality.

Education as Change, published by Taylor & Francis and Unisa Press, is listed in the Social Sciences Citation Index of Thomson Reuters.

In 2014, CERT had nine active research and development projects, several of which drew international exposure and participation, including the following:

- *Globalisation and education*
- *Industrial change, technology and skills in post-school education*
- *Transformation from school to work*
- *Comparative histories of education in South Africa*
- *Education rights, social justice and transformation*

The Faculty's research output has increased notably during the past few years.

Accredited publications: 2010 to 2014

In 2014, the Faculty produced 85.01 research units comprising articles in accredited journals, research-based books and conference proceedings. Forty-two permanent academic staff members (including assistant lecturers) contributed to subsidised research output through publications in accredited journals, conference proceedings and chapters in research books in 2014; seven more than in 2012.

Master's and doctoral students, research associates and visiting professors also contributed to the research output. Generally, the student publications were co-authored with their supervisors.

The research output of Prof Jace Pillay (South African Research Chairholder) was one of the highest in the Faculty in 2014. He supervised two postdoctoral research fellows and supervised five master's students and two doctoral students to completion in 2014.

Prof Brenda Leibowitz took up the Chair in the Scholarship of Teaching and Learning in 2014. This UJ Chair shows the commitment of the University to advance teaching and learning scholarship at UJ and in the higher education sector.

The NRF-rated researchers in the Faculty increased from three in 2010 to nine at the end of 2014.

The research and development funding generated in 2014 amounts to R9 501 415. The programme area of childhood education attracted 47% of the funding generated (R4 520 802).



Publications

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

(FEBE)



PROF SAURABH SINHA
EXECUTIVE DEAN: FACULTY
OF ENGINEERING AND THE
BUILT ENVIRONMENT

Message from the Executive Dean

The Faculty of Engineering and the Built Environment (FEBE) is structured into four schools. Through the various schools, 13 academic departments, five research centres and two technology stations are supported.

Given the dynamic nature of disciplines associated with engineering, engineering technology and the built environment, the importance of research is paramount to the Faculty of Engineering and the Built Environment (FEBE).

FEBE remains a leading provider of well-qualified and accredited engineers, technologists and technicians and has established strategic partnerships within the international higher education landscape and with key industry stakeholders. Operating within the dynamic and competitive higher education landscape, the Faculty is innovative in its approach to teaching, learning, collaborative research, community engagement and international partnerships and remains at the cutting edge of technology. It is focused on the promotion of reflective and critical thinking, and novel ways of problem solving and believes in environmentally sustainable solutions.

Research achievements

In 2013, some 157.39 units of research publications were submitted. At the time of compiling this report, FEBE's submission recorded approximately 207 units. It is estimated that 200 units will be submitted at the end of the internal UJ Quality Assessment Committee process – this reflects an overall growth of over 20%. Around 70% of the research outputs relate to participation in peer-reviewed international conferences – once again reflecting and enhancing the international stature of the Faculty.

To highlight the importance of quality in publishing, education was provided with regards to predatory journals and “fake” or hijacked conferences. For example, the Beall's list – the growing issue of phishing in publications – was emphasised.

The usage of an Online Research Output Submission System (OROSS) was implemented. The approach enabled for transfer of publications to the UJ Digispace, thereby making research outputs available for the broader public. Over 400 outputs from the Faculty were availed in this way.

Thirteen NRF-rated scientists are affiliated to FEBE. Applicants, Profs Ekolu and Twala, received their NRF rating in late 2014. Prof Esther Akinlabi and Dr Tiaan Oosthuizen were elected as members of the South African Young Academy of Science (SAYAS).

The following is worth noting in terms of key institutional research or honorary awards:

- Prof Immink, one of the most prolific inventors of the 20th century in consumer electronics, accepted an honorary doctoral degree, the *Doctoris Honoris Causa*, for Technical and Scientific Research, during the University's June 2014 graduation series. FEBE conferred the honorary doctoral degree on Prof Immink as acknowledgement of his instrumental role in the development of digital audio, video and data recording systems, and of the profound impact of his contributions and inventions in today's digital society.
- At a ceremony held at the University of Johannesburg on 13 November 2014, Prof Hendrik Ferreira received the Vice-Chancellor's Distinguished Award for Outstanding Researcher of the Year. Prof Ferreira, an NRF A-rated research professor in the Department of Electrical and Electronic Engineering Science, is a highly respected, world-class researcher. Since 1984, he has been a visiting researcher at seven universities and two companies in the USA and Europe.
- Prof Kalala Jalama, Department of Chemical Engineering, received the Vice-Chancellor's Award for Most Promising Researcher of the Year. Prof Jalama is an active researcher with an interest in the field of catalysis for alternative fuels.
- Prof Esther Akinlabi, Department of Mechanical Engineering Science, received the Vice-Chancellor's Award for Innovator of the Year. Beyond her research work, Prof Akinlabi is also an inventor. She registered a patent on the “Process for the manufacture of titanium-based composites.” A second patent is for a “Circumferential tensile tester”.

FACULTY OF HEALTH SCIENCES

Research achievements

To enhance research capacity and output within the Faculty and to contribute to the University's target for 2020/2025, the Faculty has:

- implemented a mentor system whereby senior accomplished researchers guide colleagues in their postgraduates studies;
- made resources available to staff to attend research related short courses;
- continued to participate in the Staff Qualifications Project (SQP);
- encouraged and supported staff to attend journal/publication writing workshops;
- funded projects as necessary.

The above achievements, in addition to the incentives UJ and the Faculty have implemented, have translated into the Faculty achieving an increase of 9.6% in unaudited accredited units submitted, compared to 2013.

Research initiatives were encouraged and the mooted of an Olympic Centre, within the Faculty and based within the Department of Sport and Movement Studies, became a reality. A memorandum of agreement (MOA) was signed between the Sport University of Cologne (Germany) and UJ. Colleagues from Cologne will act as consultants during the process of establishing the UJ Olympic Studies Centre.

In 2014, the Laser Research Centre (LRC) achieved its target for research excellence and innovation. It hosted 15 postgraduate students (of whom five were international students from Africa) and two international postdoctoral fellows.

Techniques developed by the Water and Health Research Centre (WHRC) have been used to secure additional funding and the WHRC is in the process of investigating the commercialisation of some of the projects. The first of these is the CleanSip water bottle, for which an international patent application was submitted, supported and funded by the Department of Science and Technology.

The Faculty hosted the Second Annual Undergraduate Research Symposium at which 18 students presented papers from seven departments (Environmental Health, Emergency Medical Care, Homoeopathy, Optometry, Nursing, Sport and Movement Studies, Somatology and the Water and Health Research Centre).

During 2014, the Department of Sport and Movement Studies appointed a research fellow; the WHRC appointed two visiting professors and the Department of Emergency Medical Care (EMC) appointed two research fellows, both being emergency medicine specialists. The nine NRF-rated researchers in the A, B, C and Y categories continued to significantly contribute to the research thrust of the Faculty and University. Two visiting professors to the Faculty also hold an NRF rating.

The Faculty accomplished the following notable achievements:

- A national electronic registry/database for the recording of rapid sequence intubations performed by all emergency care practitioners within the country was developed by the Department of Emergency Medical Care. This database will become live in 2015 and will be hosted by UJ under the HPCSA agreement.
- The Faculty hosted two public lectures, of which one was *Ethical dilemmas in technology-driven medical practice*. The debate showcased research undertaken by a postgraduate Radiography student and was based on clinical practice, research, teaching and ethics. The Division for Institutional Advancement, the Faculty of Health Sciences and the Faculty of Management, in partnership with the UJ Library, hosted the first UJ Men's Event dinner with Professor Tim Noakes as the guest speaker, which was followed by a panel discussion, with medical experts on men's health issues.



PROF ANDRE SWART
EXECUTIVE DEAN: FACULTY OF
HEALTH SCIENCES

Message from the Executive Dean

The Faculty comprises 12 departments, two research centres, Faculty administrative support and the Short Learning Programme and Continuing Professional Office.

During 2014, the Faculty of Health Sciences endeavoured to uphold and enhance the University's and Faculty's vision, mission and strategic objectives through its governance; teaching and learning strategies; a student friendly learning environment; research and innovation; international profile; reputation and quality management; and sustainable community engagements.

Faculty achievements

Prof A Swart was elected chair of the South African Health Sciences Deans' Committee and he also gave a keynote address at the U21 Congress in China.

Dr C Stein is President of the Emergency Care Society of South Africa.

Prof W Harris was nominated and shortlisted for the Life Time Achiever NRF Award.

Dr S Eagleton is on the editorial board of the *British Journal of Education, Society and Behavioural Science*.

Prof Y Coopoo is a member of the American College of Sports Medicine and was awarded the Researcher of the Year in Biokinetics.

Prof C Roux is on the review board of the South African *Journal for Research in Sport, Physical Education and Recreation*.

Prof M Poggenpoel received the prestigious Women in Science Award.

An Olympic Studies Centre, based within the Department of Sport and Movement Studies, has been established. This Centre will recruit master's and PhD students from the whole of Africa, as it will be the first functioning Olympic Studies Centre in Africa. Courses in Olympic Studies will also be developed.

Prof Burnett-Louw's Sport Sociology textbook with award-winning author, Dr Coakley, is prescribed by six universities. Together with Prof Hollander, Prof Burnett-Louw undertook strategic research for the Commonwealth Games Federation in Glasgow.

The Emergency Care Unit has established a collaborative research relationship with Edge-Hill University in the UK, which has yielded a completed undergraduate research project in 2014.

The Faculty of Health Sciences and the Department of Environmental Health are partners in an initiative of the World Health Organisation Collaborating Centre for Urban Health. Other partners include the South African Medical Research Council, the University of the Witwatersrand and the City of Johannesburg.

The Laser Research Centre has continued to collaborate and maintain its respective MOUs and MOAs with:

- Biophotonics (NLC, CSIR);
- Biochemtech (CSIR);
- National Taiwan University of Science and Technology;
- The University of Wisconsin.

An MOU between UJ and the University of Sao Paulo is still being negotiated.

The increase in international presentations has assisted in profiling and marketing the Faculty at international events.

The Faculty's total external funding for 2014 was R1 668 914.00 (excluding the clinical grant from DHET). If internal funding from the URC is taken into account, the funding for research for 2014 was R3 153 414.00 (excluding the clinical grant), which is similar to funding attracted in 2013.



Summary of external funding

Department/Project/Research Centre	Funding
Water and Health Research Centre	R474 594.00
Laser Research Centre	R790 000.00
Thuthuka Projects	R90 000.00 and R24 320.00 = R114 320.00
Other external funding	R290 000.00
Clinical Grant	R6 023 000.00
Total	R7 667 594.00

FACULTY OF HUMANITIES



PROF RONEL JOHL
EXECUTIVE DEAN (ACTING):
FACULTY OF HUMANITIES
(Held position until 31 July 2014)



PROF LIONEL POSTHUMUS
EXECUTIVE DEAN (ACTING):
FACULTY OF HUMANITIES
(Held position until 30 April 2015)

Message from the Executive Dean

The Faculty of Humanities has 18 departments in four clusters, namely, the School of Communication, the School of Languages, Social Sciences and Humanities. There are also three Centres, namely the Centre for Social Development in Africa, the Centre for Anthropological Research, and the Centre for the Study of Democracy. The Faculty also hosts two South African Research Chairs, namely the Chair in Social Change and the Chair in African Diplomacy and Foreign Policy. The Faculty of Humanities is proud of its achievements in terms of research.



For more details on the Centre's research activities, follow the link on <http://www.uj.ac.za/EN/Faculties/humanities/Research-Centres/csda/Pages/default.aspx>

Research achievements

In 2014, the Faculty had 35 postdoctoral research fellows hosted in: Sociology, Politics and International Relations, Greek and Latin Studies, English, Anthropology and Development Studies, Greek and Latin, Philosophy, Religion Studies, the Centre for Social Development in Africa, the Centre for Anthropological Research, and the two NRF Chairs.

In 2014, the ratio of international to national research output submissions was 7:3, which is the highest ever (at 69.8% of total submissions). In 2014, the absolute number of international submissions was at its second highest ever after 2012.

International and national research submissions 2010 to 2014

Year	SA	International	Total
2014	46.99	102.98	149.97
2013	61.66	88.66	150.32
2012	76.75	106.65	183.40
2011	70.88	72.43	143.31
2010	71.62	63.12	134.74

The Faculty had 20 NRF-rated researchers in 2014 and made five successful applications, which commence in 2015, bringing the total number of rated researchers to 25 from 20.

Centre for Social Development in Africa

Ten years after its inception, the Centre for Social Development in Africa is a reference point for research in the field of welfare and social development in South Africa and in the Southern African region. *Siyakha Youth Assets* is the flagship programme of the Centre for 2015. With our partners in civil society, the private and public sectors, we have embarked on a national demonstration programme to build assets, knowledge, skills and experience of young people to enhance their employability.

The purpose of the study is to develop and test appropriate youth employability and financial inclusion interventions to more effectively support young people in the transition to work. The results of the demonstration programme will be used to inform evidence-based policy and programmatic interventions to enhance youth employability. This work has been made possible with a grant from the Ford Foundation, the University of Johannesburg, the National Youth Development Agency and the National Treasury's Job Fund.

Another keystone project of the CSDA is a two-year study that will be conducted, starting in 2015, entitled *Family contexts, child support grants and child well-being outcomes*. This research is funded by the SA Presidency and the European Union and is aimed at eliminating poverty and inequality. It also addresses implementation issues and challenges in developmental welfare. This study attempts to bridge the divide between social protection and welfare services and will lead to the design of complementary family strengthening and economic interventions.

Centre for the Study of Democracy

The Centre for the Study of Democracy is a joint initiative of the University of Johannesburg and Rhodes University and undertakes research on various aspects of democracy under the Directorship of Prof Steven Friedman. The Centre focuses on understanding democracy and the specific forms it takes within South Africa and on the African continent.



For more details on the Centre's research activities, follow the link on <http://www.uj.ac.za/EN/Faculties/humanities/Research-Centres/CSD/Pages/home.aspx>

Centre for Anthropological Research (CfAR)

Thea de Wet, Professor of Anthropology and Development Studies, has been the Director of CfAR since 2011. CfAR consolidated its programme of research in three areas: Evidence-informed Policy, Urban Issues, and Human Biological and Cultural Origins. Prof Thea de Wet received funding to conduct research on *Changing climate, heat and local knowledge* to be conducted from 2014 to 2016. This multi-disciplinary, multi-institutional project (UJ, the CSIR and the MRC) will combine science and local knowledge to develop and find innovative and integrative health solutions for three communities near Rustenburg, who will have to adapt to an increase in temperature of their natural environment due to changing weather and climate.



For more details on the Centre's research activities, follow the link on: <http://www.uj.ac.za/EN/Faculties/humanities/Research-Centres/cfar/Pages/default.aspx>

Research funding

The Faculty has received income from various sources, which include funding from the NRF and various industry partners, for example SANPAD and Tiger Brands, to name only a few. At year end, this income was at R18 000 000. The biggest donors were the BCure research project at R6.4 million and Tiger Brands at R1.1 million. The remainder was all NRF and URC funding with much smaller donations from external parties making up less than 10% of the total income.

Some notable achievements

Prof T de Wet – HELTASA National Commendation for Teaching Excellence

Prof L Patel – Distinguished Woman in Science Award in the Humanities and the Social Sciences

Prof P Vale – Lifetime Achievement Award from the South African Association of Political Studies (SAAPS)

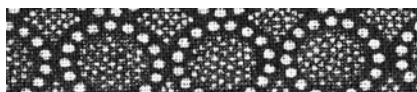
Dr Z Knight – Elected Vice-President (Africa Chapter) of the World Council for Psychotherapy

Dr AP Frahm-Arp – Best First-year Lecturer in the Faculty of Humanities 2014

List of doctoral graduates

- Dr Fritz Nganje
- Dr Seyet Hosseini Baghsangani
- Dr Mondli Hlatswayo
- Dr Liezel Gericke
- Dr Danielle Nel
- Dr Tristen Taylor
- Dr Ajwang Warria

PhD



FACULTY OF LAW



PATRICK O'BRIEN
EXECUTIVE DEAN: FACULTY OF LAW

Message from the Executive Dean

Although the Faculty of Law is the smallest of the nine faculties of the University, in terms of some indicators, it does not allow this fact to define it. In the national context, the Faculty is one of the largest law schools or faculties (and can at the least be described as medium-sized in that context). Indeed, when the substantial numbers of non-law students registered for service modules offered by the Faculty are also taken into account, it is the largest School or Faculty of Law of the residential universities with respect to the number of students it teaches.

RESEARCH ACHIEVEMENTS

Student outputs

The Faculty conferred 305 undergraduate degrees during three graduation ceremonies held in 2014. One hundred and seventy-nine students were registered for master's studies, while 50 master's degrees were conferred in 2014. In terms of the results of the 2014 institutional survey of graduate employability, 85.1% of the Faculty's graduates found employment within three months of graduation, and 97.3% within a year.

1 707 students were registered in 2014 for the Faculty's undergraduate and postgraduate programmes. The Faculty achieved 98% of its undergraduate enrolment target and exceeded its postgraduate enrolment target. Expressed as FTE degree course success rates, the success rate in respect of the undergraduate service modules was 88.4% (2013: 77.6%), which averaged out with the 82.5% (2013: 79.6%) success rate in the traditional undergraduate law modules to an overall undergraduate module success rate in the Faculty of 84.9% (2013: 78.8%).

Research outputs

The Faculty hopes that by the time the University's research claims are submitted to the Department of Higher Education and Training, a claim of at least 52 subsidy-generating publication units in respect of articles published by members of the Faculty will be submitted. The 52.83 units were generated by publication in journals. The Faculty will also seek to submit claims in respect of eight chapters in books and five conference proceedings. Faculty members were involved in updating several standard law textbooks and contributed numerous chapters to non-subsidy-generating books. In addition, 375.61 of the 683.31 units recognised by DHET in respect of journals were for journals on the DHET list of publications (i.e. 55% for journals on the DHET list and 56% for journals on the ISI and IBSS lists). Consequently, the Faculty publishes proportionally in more journals listed by ISI and IBSS than the national average.

Faculty members presented 94 papers at conferences, symposia, workshops and the like, 48 of them (2013: 37; 2012: 35) delivered outside South Africa. Members of the Faculty contributed to 14 articles in non-accredited journals and e-publications aimed at legal and other professionals, and wrote several book reviews.

FACULTY MEMBERS
PRESENTED

94

papers at conferences,
symposia, workshops
and the like

THE PUBLIC INTEREST GENERATED BY THE OSCAR PISTORIUS MURDER TRIAL SAW SEVERAL MEMBERS OF THE FACULTY PARTICIPATING IN RADIO AND TELEVISION SHOWS

The Association Hugo de Groot awarded Prof Daleen Millard the prize for the best article published in the *Journal of Contemporary Roman Dutch Law* in 2014 on account of her article *Through the looking glass: fairness in insurance contracts – a caucus race?* and another prize by the ATKV and *SA Akademie* for the best scientific article published in Afrikaans.

The 2014 joint prize of the ATKV and the Suid-Afrikaanse Akademie vir Wetenskap en Kuns for the best scientific article in Afrikaans, was awarded to Prof Jannie Otto for his article *Die afkoelreg in die Nasionale Kredietwet en die Wet op Verbruikersbeskerming*, which appeared in *LitNet (Akademies)*.

The public interest generated by the Oscar Pistorius murder trial saw several members of the Faculty participating in radio and television shows. Six law students participated in a breakfast show on Jacaranda 94.2 on 11 September 2014. An ordinary Faculty seminar, held on 22 July 2014, dealing with legal issues relevant to the case, attracted unusual external interest.

The year 2014 marked the 20th year of existence of the **Centre for International and Comparative Labour and Social Security Law (CICLASS)**. The Director of the Centre lectured on South African and international social security law to postgraduate students at the Faculty of Applied Social Science at Erfurt University of Applied Sciences (Germany).

The Director (Prof Jan Neels) of the **Research Centre for Private International Law in Emerging Countries** is a member of the Working Group on Choice of Law in International Commercial Contracts of the Hague Conference on Private International Law. He contributed to the drafting of the Hague Principles on Choice of Law in International Commercial Contracts and the Official Commentary of the Hague Conference on the Hague Principles (in particular, on the Preamble, Article 4 on tacit choice of law and Article 5 on formal validity). He also provided the comments that were presented, during 2014, by the government of the Republic of South Africa to the Hague Conference on the content of the Official Commentary. As the Hague Principles and the Commentary were adopted by the Hague Conference on 19 March 2015, they now constitute some of the foundational documents of International Commercial Law.

The Research Centre also facilitated an agreement with UNIDROIT (the International Institute for the Unification of Private Law, in Rome) in terms of which the UJ Law Library was appointed as a repository library for UNIDROIT publications. It is the first university library in the country to be so appointed.

A further agreement was concluded with UNIDROIT in respect of internships at UNIDROIT for junior staff members and students who obtained the LLM in International Commercial Law. Three junior research associates submitted research.

Research funding

The Faculty received an amount of R2 390 087.86 in 2014 in respect of research subsidy generated in 2013.

FACULTY OF MANAGEMENT

Message from the Executive Dean

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 systematic and systemic development of steady, predictable growth. The Faculty is home to 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.



DANEEL VAN LILL
EXECUTIVE DEAN: FACULTY OF MANAGEMENT

Research achievements

Over the last five years, the Faculty has conferred 2 106 postgraduate degrees. Postgraduate degree output grew from 352 degrees in 2010 to 498 in 2014 – on average, 9% annual growth. In 2014, 498 postgraduate qualifications were conferred, representing 21% of the UJ postgraduate output.

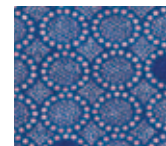
Since 2010, the Faculty has contributed 896 accredited publications worth 572 subsidised research credits. Accredited research output grew from 68 credits in 2010 to 161 in 2014 – on average, 27% annual growth.

In terms of performance management, excellent professors contribute at least 4.00 credits per year and average professors, 2.00 credits per year. Similarly, an excellent senior lecturer will contribute 2.25 credits per year, and an average senior lecturer, 1.00 credit per year.

The Faculty contributed 197 postgraduate output credits per 124 SLUs in 2014. At this rate of 1.59 postgraduate credits/SLUs, the Faculty is rated “Very Good” when measured according to UJ standards.

Spin offs of research capacity development resulted in strong initial growth in subsidised research output, from 67 credits in 2010 to 112 credits in 2013 and an all-time high of 161 credits in 2014.

The number of NRF-rated researchers has steadily grown from two to 11 from 2010 to 2014, while the value of NRF grants secured by younger researchers has also grown. As more external funding was sourced, the pressure on internal funding was reduced.



FROM 2011 TO 2014, RESEARCH OUTPUT HAS IMPROVED FROM 105 TO 261 PUBLICATIONS.

From 2011 to 2014, research output has improved from 105 to 261 publications. In 2014, the number of subsidy-generating research credits (a single authored article equals one credit) improved by 49 credits (44%) to 161 credits, contributing 16% of the UJ 2014 research output.

Books and book chapters accounted for 2% of the total number of subsidised research credits, with publications in international journals at 37%, publications in South African journals at 30% and conference proceedings also at 30%.

The knowledge production hub in Private Sector Management & Leadership contributed to most (47%) of the 2014 research output. Here, the predominant contribution (34%) was from the research network coordinated by Prof Chris Rogerson, yielding an excellent 5.28 credits per researcher. Congratulations to the Department of Business Management, who despite the largest module registration load in the Faculty, has managed to secure 82% of academics to contribute to research output.

About 21% of output was contributed through investment into productive global collaborative research projects. Of these, postdoctoral research fellows contributed predominantly 12.88 credits at a rate of 0.92 credits per researcher.

Research networking

Some notable investments into productive global research networks, that have strengthened our global impact.

Knowledge production hubs

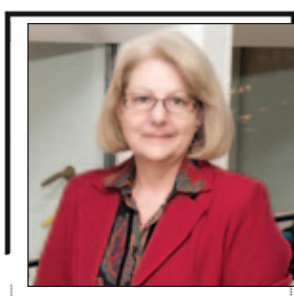
- Consumer Intelligence and Information Systems
- Private Sector Management and Leadership
- Public Sector Management and Leadership
- Transport and Logistics
- People Leadership

Research networking

FACULTY OF SCIENCE



PROF ANNAH MOTEETEE
EXECUTIVE DEAN (ACTING):
FACULTY OF SCIENCE
(Held position until 30 June 2014)



PROF ANNEMARIE OLDEEWAGE
EXECUTIVE DEAN (ACTING):
FACULTY OF SCIENCE
(Held position until 31 December 2014)

Message from the Executive Dean

The vision of the Faculty of Science is to be a diverse and dynamic faculty, innovatively creating new knowledge and developing leading scientists and technologists. The commitment of the Faculty to the realisation of the vision, mission and strategic objectives of the University, and in particular the main objective of Global Excellence and Stature, is demonstrated by the achievements of the Faculty during 2014.

The Faculty succeeded in achieving its key objectives in a number of critical areas. These include: presenting high-quality and relevant programmes at all levels; cultivating an enriching student-friendly learning experience for all students and sustaining success rates; sustaining postgraduate enrolments; sustaining the research profile of the Faculty – by steadily increasing both the quantity (up by 13.8%) and quality of research outputs; and fostering existing and establishing new collaborative activities with reputable institutions and relevant industries.

The Faculty considers the quality of research and the effectiveness of supervision of master's and doctoral students to be an integral component of its activities. Research is a core activity in the activities of any academic department and is an essential requirement for excellence and international recognition.

Research achievements

The Faculty of Science ranks fourth in South Africa, following UCT, Wits and Stellenbosch, according to the latest QS (Quacquarelli Symonds) Maple rankings released on 16 September 2014. The QS Maple rankings for Universities placed the Natural Sciences Faculty in the top 400 of universities internationally. This puts UJ Natural Sciences firmly in the league of international universities, such as Université du Québec in Canada, Universität Ulm in Germany, University of Gothenburg in Sweden, Universidade Federal do Rio Grande Do Sul in Brazil and the Indian Institute of Technology Roorkee (IITR).

The Faculty has submitted a subsidy claim to the Department of Higher Education and Training (DHET) to a total of 260.71 research units. This number represents an increase of 91.51 on the 2010 output of 136.91 units, an increase of 33.08% on the 2011 output of 195.91 units, and an increase of 8.91% on the 2013 output of 239.22 units. The increase in output in 2014 shows a commitment by the Faculty to the Global Excellence and Stature initiative.

The three-year average for 2014 is at 243.99 and shows an increase of 9.71% on the three-year average for 2013. This three-year average represents an increase of 144.6% on the 2009 three-year average and an increase of 29.0% on the 2012 three-year average. A remarkable achievement is that the total research output of subsidised units has increased by 227% from 2007 (79.57 units); and that the per capita output of permanent academic staff has increased from 0.52 in 2007 to 1.6 in 2014. About 98% of the units in 2014 were published in international journals.

The 2014 research income for the entire Faculty was R66 212 612.42. The majority of those funds came from the National Research Foundation. The external funding sources were the DST, SASOL, Eskom, the Water Research Commission, and the Oppenheimer Memorial Trust Fund, to mention just a few.

Some of the Faculty's notable events include:

- Prof NJ Beukes was awarded the Havganga Medal for Physical Sciences from the Suid-Afrikaanse Akademie vir Wetenskap en Kuns. He was also awarded a DST-NRF Centre of Excellence for Integrated Mineral and Energy Resource Analysis. He was also selected to present the 33rd AL du Toit Memorial Lecture Series for the Geological Society of South Africa in 2014.
- Prof SH von Solms was elected as Honorary Member of the International Federation for Information Processing (IFIP). Only 10 members have received this honour since 1955 (Academy of Computer Science and Software Engineering).
- Prof J Maina received NRF NEP (NRF National Equipment Programme) co-funding to acquire a transmission electron microscope to the value of R11 million. (Zoology).
- Dr Philiswa N. Nomngongo received the L'Oréal-UNESCO Women in Science Sub-Saharan Regional Fellowship Award (Applied Chemistry).
- Prof M Coetzee's honours student, Mr MMA Chhaya, won the World Citizen category at the 2014 National Microsoft Imagine Cup and represented South Africa in the regional finals for Africa and the Middle East (Academy of Computer Science and Software Engineering).
- The Department of Biotechnology and Food Technology was included as part of a consortium together with UP and CPUT in the Centre of Excellence in Food Safety and Security.
- Prof Dubery and the Plant Metabolomics Research Group were named as the Chromatographer of the Year for 2014. Their metabolomics research involves both chromatography and mass spectrometry and focuses on secondary plant metabolites and their importance in disease resistance in plants (Biochemistry).



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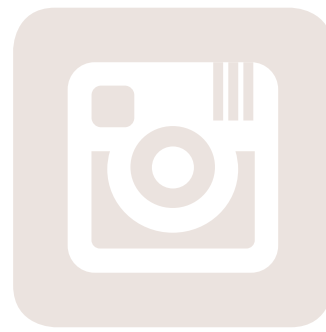
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