



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA



2012 Annual Review

University of Pretoria campuses

Mamelodi



Hatfield



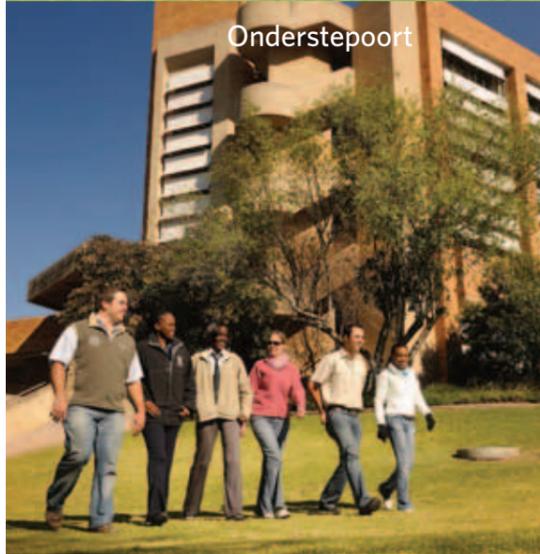
Groenkloof



GIBS



Onderstepoort



Prinshof



UP 2025

Vision

To be a leading research-intensive university in Africa, recognised internationally for its quality, relevance and impact, and also for developing people, creating knowledge and making a difference locally and globally.

Mission

In pursuing recognition and excellence in its core functions of research and teaching and learning, and integrating engagement with society and the community into these, the University of Pretoria will use quality, relevance, diversity and sustainability as its navigational markers.

Values

The members of the University of Pretoria believe that:

- our community of scholars must be founded on the pursuit of knowledge through research and teaching and learning, with membership acquired on the basis of intellectual merit, ability and the potential for excellence; and that
- differing perspectives, arising from diverse backgrounds and histories that define our identities, deepen scholarly inquiry and enrich academic debate.

We cherish:

- academic freedom, creative and innovative thought, ethical standards and integrity, accountability and social justice; and
- our staff and students as the University's core asset.

We foster:

- an inquiry-led and evidence-based approach to creating knowledge; and
- academic citizenship, whereby we commit ourselves to harnessing our intellectual abilities in the interest of our nation and humanity.

We recognise that:

- in a resource-constrained world where vast disparities remain, the University must endeavour to produce graduates who appreciate the importance of community service, entrepreneurial endeavours and innovative actions in generating employment and development in our local communities.

Welcoming Day (Jan)



Opening of Onderstepoort Hostel (Feb)



Opening of study rooms in hostels (Mar)



Graduation of Olympian Matthew Brittain (Apr)



Open Day (May)



Tuks Olympians (Jun)



Mandela Day (Jul)



Opening of Aula (Aug)



2012 in pictures

Spring Day (Sept)



Genomics Research Theme Launch (Oct)



Dept of Mining Engineering Virtual Reality Centre (Nov)



Centre for Human Rights LLM (Dec)



Fast facts from 2012

- In 2012 UP's total student population was 61 880 of whom 45 642 were contact students. Of the total student population 58% were female and 61% were black.
- UP enrolled 12 255 contact postgraduate students at honours, master's and doctoral levels and awarded 5 388 postgraduate degrees, including 200 doctorates.
- UP enrolled 4 219 international students of whom 2 169 were undergraduate and 2 150 postgraduate students.
- UP has 337 National Research Foundation (NRF) rated researchers, an important indicator of the quality of research at the University.
- The Gordon Institute of Business Science (GIBS) was ranked one of the top business schools globally by the *Financial Times*, the only African business school in the top 50 for its executive education programmes.
- Approximately 19 000 undergraduate students participated in community engagement activities.
- The Faculty of Education celebrated its 75th birthday and the Unit for Distance Education marked its 10th anniversary.
- The Faculty of Engineering, Built Environment and Information Technology (EBIT) launched the Southern African Institute of Welding Centre for Welding Engineering, the Bateman Chair in Minerals Processing and the Xstrata Chair in Pyrometallurgical Modelling.
- The Faculty of Natural and Agricultural Sciences is one of the most diverse science faculties in South Africa. According to the Thomson Reuters ISI *Web of Knowledge* field rankings, the University is the leading institution on the continent in respect of the volume of research output in the fields of plant and animal sciences.
- An arts precinct was created by the completion of a building project that linked the Engineering 3 Building, the Amphitheatre, the Musaion, the new Aula foyer and the Rautenbach Hall.
- The Thuto Building, a new lecture hall complex on the Hatfield Campus, with a seating capacity of 2 400 in four lecture halls, was opened on 19 April 2012.
- Tuks athletes won three of the six medals brought home by Team South Africa from the London Olympics.

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Message from the Chancellor



Each year the University of Pretoria unfailingly delivers a performance that makes me proud to be associated with the University. In the context of a country where there is a severe shortage of high level skills, UP conferred 13 613 degrees, diplomas and certificates in 2012; a significant national contribution.

But the numbers do not tell the full story of UP's contribution to the social and economic development of South Africa. This is an institution that is the academic home of a growing number of young talented students who come from diverse backgrounds, produces the country's highest research output, ensures that all graduates participate in community programmes and produces athletes who win medals and championship trophies.

UP has placed accessibility high on its list of priorities and has put in the necessary effort to make this objective a reality. UP's student body – at undergraduate and postgraduate levels – is diverse. The University's success rates are high thanks to the application of teaching and learning methods and support that take account of students' needs and thus enable them to realise their full potential. UP is proud to be counted as the country's largest research-intensive university with a strong distance learning programme, that has afforded thousands of teaching professionals the opportunity to improve their qualifications while continuing their professions and supporting their families. The University's postgraduate programmes and research opportunities attract increasing numbers of students from abroad, and particularly from across the African continent, and this contributes to the intellectual dynamism of the University. The introduction of the Vice-Chancellor's Postdoctoral Fellowship Programme in 2012 led to a doubling of the total number of postdoctoral fellows, with the majority having been attracted to UP from other institutions locally and internationally.

Leading and managing an institution as large as UP is not easy and 2012 was a year in which financial resources were under pressure. Therefore, it is especially gratifying to note that UP's financial report reflects a sustainable organisation that is efficiently and effectively managed. As Chancellor, it is heartening to have the assurance that UP is governed and managed by a dedicated and effective Council and Executive Management team. Congratulations to the Chairperson and Members of the Council, the Vice-Chancellor and Principal and the Management and staff of the University.

Prof Wiseman L. Nkuhlu

Message from the Chairperson of Council



UP began 2012 with a new long-term strategic plan, known as UP 2025, which articulates the goals and objectives of the University for more than a decade to come. The clear vision of UP 2025 is already proving invaluable to Council in guiding its decision making and its evaluation of the overall direction and performance of the institution. By the end of 2012, the first year of implementation, it was gratifying for Council to note that the University had made significant strides in realising its vision to be Africa's leading research-intensive university, recognised internationally for its quality, relevance and impact, developing people, creating knowledge and making a difference locally and globally.

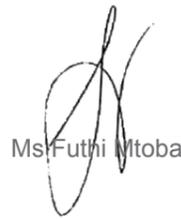
The University of Pretoria is a complex and dynamic organisation that continues to grow each year. In a country where there is a dire need to expand the pool of high level skills, UP took the decision to expand in key areas aligned to the national human capital development strategy. Government, through the Department of Higher Education and Training, has generously allocated funds to enable the University to expand its infrastructure in order to accommodate increasing student enrolments in fields such as engineering, science and teacher education. Following the launch of the University's Strategic Plan 2025, a campus master plan was developed in consultation with a variety of stakeholders. This plan was approved by Council in November 2012 and provides a blueprint for infrastructural development that will support the future growth of the University.

Government grants comprise the largest contribution to the University's income, about 34%, followed by student fees which amounted to 22% of total income. In a challenging economic climate, the University did well to secure a number of grants, sponsorships and donations to balance the operational budget and to support strategic initiatives. In 2012, almost R750 million was available to students in the form of bursaries and grants to ensure that young people with talent have the opportunity to further their studies. Partnerships with industry, particularly in terms of sponsorship of chairs in specialised areas of research, and the University's entrepreneurial ventures made an important contribution to UP's financial health.

The University Council is responsible for ensuring that funds invested in the institution by government, industry, private donors and the families of students are used honestly, wisely and effectively to achieve UP's stated goals. Council is ultimately responsible for the good governance of the University. This role includes ensuring that proper budgetary and financial control measures, as prescribed by applicable policies and regulations, are followed. But governance extends well beyond financial oversight to providing strategic and policy direction to the institution and ensuring its sustainability. This report shows that the Council executed its responsibility dutifully and meticulously. All the applicable policies and regulations were adhered to as attested by the audited financial statements. In addition to the audited financial statements, this Annual Review offers a glimpse of the rich array of academic programmes, research and activities that constitute daily life at the University of Pretoria.

I would like to take this opportunity to express Council's appreciation to the Vice-Chancellor and Principal, Prof Cheryl de la Rey, and her executive management team for their leadership of this great institution. We value the passion and commitment that so many staff members of UP bring to their work.

Finally, I wish to thank members of Council for their conscientious and considered participation in the affairs of the University. To those who have served on the special committees of Council, your additional contribution is highly appreciated.



Ms. Futhi Mtoba

Vice-Chancellor's Report



2012 was the first year of implementing the University of Pretoria's long-term strategy known as UP 2025. Ensuring that we showed progress in all five objectives of the plan made 2012 an exciting, dynamic and challenging year. Looking back I am pleased to report that it was a year filled with achievements – academic, sporting and other accolades; major construction projects completed; and several exciting new programmes.

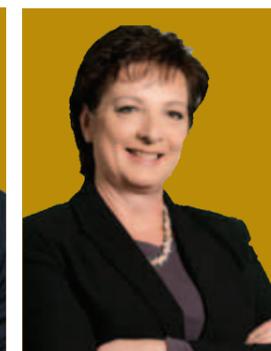
Strengthening the University's impact on social and economic development is an important strategic goal that frames UP's long-term plan. The most visible contribution UP makes to the South African economy and society is in the number of graduates produced. In

2012 the University continued with its planned enrolment growth supported by focused student recruitment strategies. Through increased funding for student bursaries and scholarships, UP succeeded in attracting a diverse cohort of high achieving new students from across South Africa, Africa and further abroad. Whilst expanding access is a priority, so too is student success. Through a concerted focus on the quality of teaching and learning, the University achieved a record pass rate at the undergraduate level. UP considers the first-year student experience to be especially important and special interventions were implemented to facilitate the transition of new students to their new learning environment. This assistance takes a holistic view of the student experience as a system of academic, co-curricular and extra-curricular activities which unfold within each student's wider social environment. The number of graduates produced is also a source of pride. In the year under review 5 729 undergraduate bachelor degrees, 3 788 honours degrees, 1 400 master's degrees and 200 doctorates were awarded.

Vice-Principals and Registrar



Prof Robin Crewe:
Vice-Principal



Prof Stephanie Burton:
Vice-Principal



Prof Nthabiseng Ogude:
Vice-Principal



Prof Niek Grové:
Registrar

UP aims to increase its research productivity and impact and, at the same time, expand its research base through postgraduate education and training. In 2012, UP enrolled 12 255 contact postgraduate students (at honours, master's and doctoral levels) and the number of postdoctoral fellows doubled. Particularly pleasing is that UP made significant strides in ramping up its overall research performance. The University produced the highest number of research outputs among public universities in South Africa with the majority of the publications published in journals that enhance the University's stature and impact. An important indicator of the quality of the University's research is the number of researchers who are rated by the National Research Foundation (NRF). In 2012, the University achieved its highest number of rated researchers to date, with 337 NRF-rated researchers. In addition to four new Research Chairs within the South African Research Chair Initiative (SARChI), three industry-funded chairs were secured in the research fields of energy efficiency; power electronics and safety and health and the environment.

The University's business school, the Gordon Institute of Business Science (GIBS), showed outstanding success. In October the GIBS MBA was ranked 50th among the top 100 MBA programmes globally in the prestigious *Financial Times* Executive MBA Rankings 2012. Notable too is that GIBS was the only business school in Africa to appear in these rankings. The pages of this Annual Review provide a snapshot overview of the achievements of each of the University's nine faculties. As a whole, it provides a clear indication that the University of Pretoria is making meaningful advances in ensuring that it enhances its reputation as a university firmly located in its African context that is internationally recognised for the quality of its graduates, its research, its infrastructure, management efficiency and impact on society.

The achievements highlighted in this Annual Review are due to the drive, hard work and dedication of the staff of the University. As Vice-Chancellor and Principal I am fortunate to have the opportunity to work with a wise Council, a committed Executive team, staff who are passionate about the University of Pretoria and talented students who strive for excellence. On behalf of the University community I wish to express our sincere appreciation for the support we receive from our Chancellor, Council, government, donors, research partners and sponsors. As we celebrate the achievements of 2012, we endeavour to strive harder to realise our vision and goals for the future.


 Prof Cheryl de la Rey

Executive Directors



Prof Carolina Koornhof



Prof Antony Melck



Ms Patience Mushungwa



Prof Antonie de Klerk



Teaching and Learning

Among the strategic goals of the UP 2025 plan, achievements of excellence in teaching and learning as well as 'access with success' are key priorities. UP has one of the highest undergraduate success rates among South African universities, with an overall module pass rate of 80.3% in 2012 and an examination pass rate of 88.8%.

Achievements in overview

UP considers the first-year student experience to be especially important and therefore facilitates the transition of new students to their new learning environment. Everyone at the University is responsible for ensuring that the students' first year, particularly the first semester, is a positive experience.

One aspect of the support provided to first-year students is a system of faculty student advisors. Their work during the first semester was informed by the results of the Student Academic Readiness Survey (STARS), undertaken during the orientation period. In the second semester, student advisors were guided by an analysis produced by the Bureau for Institutional Research and Planning (BIRAP). In 2012 the University also focused on 'risk' modules beyond the first year, particularly those that create barriers to graduation in the final year.

The Student Academic Development and Excellence Model (SADEM) is a faculty-based approach that focuses on internationally recognised success factors in promoting student retention and success. These factors are: academic orientation, peer mentoring, tutoring, student advice, service learning/community engagement and undergraduate research. In 2012 the implementation of the SADEM matured, strengthening interventions across faculties. Academic development and support are provided in a variety of ways, including through academic orientation, a mentorship programme, extended and augmented programmes, the use of tutors, the use of counselling psychologists and faculty student advisors. SADEM interventions have had a positive cumulative impact. As projects were piloted and then implemented across the University, success rates surpassed earlier levels. The annual success rates were as follows: 2009 – 79.3%; 2010 – 80.2%; 2011 – 80.6%; and 2012 – 83.4%.

UP engages with external stakeholders (who provide funding and bursaries to undergraduate students) regarding students' challenges and progress. In 2012 these funders, among others, included Eskom, the South African Institute of Chartered Accountants (SAICA), the Michael and Susan Dell Foundation, the Keith Bothongo Foundation and the South African Actuaries Development Programme.

Continued improvements in teaching were achieved through targeted interventions, such as the Induction Programme for new academic staff, assessor and educational technology training. Decisions concerning teaching and learning are informed by research undertaken by the



Department of Education Innovation. Research studies included: student academic readiness, retention and success; the predictive validity of the National Senior Certificate (NSC) and the National Benchmark Tests (NBT); the Student Academic Readiness Survey (STARS) and its use in the allocation of mentors; longitudinal research into retention and dropout of promising first-year students; and a variety of student experience measurement instruments.

The University advocates a blended approach to teaching and learning. In pursuit of this aim, the University completed the transition of its online learning system (clickUP) to the latest software version (Blackboard) during 2012. This offers students additional functionalities, particularly in terms of social networking. A Blackboard Mobile licence enables students to access clickUP on their mobile devices. Nearly 16 000 students were using this facility by the end of 2012. This licence makes UP the first South African university to design such a mobile application for use within the institution.

Distance education

The Unit for Distance Education in the University's Faculty of Education was established in 2002. Over the past decade, over 42 000 teachers have enrolled in the three programmes offered via distance education. Just over 23 000 students have graduated from these programmes, with the total number of students enrolled having stabilised at around 19 000 per annum. The involvement of the Education Faculty in distance education is premised on the need to address the inequities created by the apartheid system in the qualification profile of teachers, and to play a constructive role in the training needs of practising teachers in South Africa.

Policy changes and factors in the external environment have necessitated the re-positioning of programme offerings in order to retain the Faculty's position as a faculty of choice for teachers who want to upgrade their qualifications. The Department of Education has expressed its concern over the lack of well-trained Early Childhood Development (ECD), Foundation Phase and Intermediate Phase teachers in the system and appealed to faculties of education to provide more teachers in these phases. Following extensive discussion, a decision was taken that the Faculty will, in addition to its BEd programme, also develop BEd upgrade programmes in ECD Foundation Phase and Intermediate Phase in order to play a significant role in addressing this national priority. The University is in discussion with the Department of Higher Education and Training regarding the future of distance education at UP.

Quality assurance in teaching and learning

The University's quality management activities, encompassing quality promotion and quality assurance, focus on the core mandates of research, teaching and learning, as well as community engagement initiatives. The Executive Quality Oversight Committee oversees the University's selection and invitation of external evaluation panels that participate in institutional reviews focused on performance in relation to the strategic goals of the University. As 2012 was the first year of implementation for UP's Strategic Plan 2025, there was an opportunity to align preparations for the external evaluation more closely with the new strategy and reporting format. During 2012, five accreditation visits, one interim accreditation visit and ten external evaluation visits occurred. In support of these visits, the University hosted 18 international and 46 national panel members. Trends analysis was undertaken on the 2012 reports and, where required, assistance was provided with the development of improvement plans in response to external evaluation and accreditation visits. A progress report was produced on implementation of the

institutional improvement plan resulting from the 2007 Higher Education Quality Committee (HEQC) audit and was submitted to the HEQC in the required format.

Creating an environment conducive to teaching and learning

Student facilities are continually upgraded and expanded across all University campuses as much as possible in order to create an environment conducive to scholarly work and engagement. A substantial addition to the University's teaching facilities in 2012 was the new lecture hall complex, the Thuto Building, with a total seating capacity of 2 400 across four lecture halls.

In addition to upgrades to physical facilities, student residences have adopted strategies to use their spaces as places of living and learning. The virtual learning environment was upgraded and online accessibility to staff and students expanded. UP became the first university in South Africa to launch its own mobile app, giving staff and students access to maps, emergency numbers, the library and other information.

The Library

In 2012 the UP Library celebrated its centenary by getting into full swing with implementing its new strategic plan. Dr Hans Merensky was chosen as the symbolic focus for the Library's centenary celebrations. He played a crucial role in the Library's development when, in 1937, he became the anchor donor for the building now known as the Merensky 1 Library. By making a substantial donation at the beginning of the fundraising campaign, he made a significant contribution to its success and helped assure the future of one of UP's most precious resources. The centenary was marked by a publication entitled *The Merensky Story 1912–2012*.

In 2012 the UP
Library was
100
years old.

In order to implement the new strategic plan, UP Library Services had to adjust its organisational structure to accommodate a staff development and resources portfolio. These functions were not strategically coordinated in the past. It has become clear that rapid environmental changes will demand meticulous management of staff members' skills and talents as well other resources, which are becoming progressively scarcer. One of the measures taken was the organisation of a series of emotional wellness workshops for staff. This initiative was based on the belief that emotionally intelligent staff are an organisation's most valuable asset.

The Library IT Unit and the e-Service Unit were combined to form the new Innovation and Technology Division. Additional staff members who were involved with e-resources and e-literacy were incorporated into this new division, which now has more capacity to deal with the challenges presented by the innovation and technology strategy. The Library held a month-long marketing and training initiative in September 2012. Its main purpose was to create awareness of the Library's e-strategy and its ability to integrate e-services with the University's e-learning and e-research environments; and extend library services beyond the Library's physical premises.

Community engagement

An overarching goal of the long-term UP 2025 plan is to strengthen the University's impact on South Africa's economic and social development. Seeking optimal impact partnerships with local communities and municipalities is a key strategy in this regard.

A total of
9 300

students undertook community engagement for credit purposes and as part of their academic programmes.

In essence, community engagement is about institutional citizenship and linking the University's role in knowledge production to one of the dimensions of its public accountability. It therefore includes a wide range of individuals, groups, organisations and institutions in both the local and broader national and, at times, international communities. The key to community engagement is linking the research and teaching skills of staff and students to the specific needs of these diverse communities. In turn, student life and attributes develop, while students at the University are enriched through their community service and engagement.

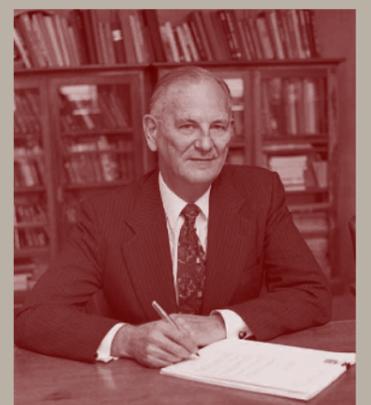
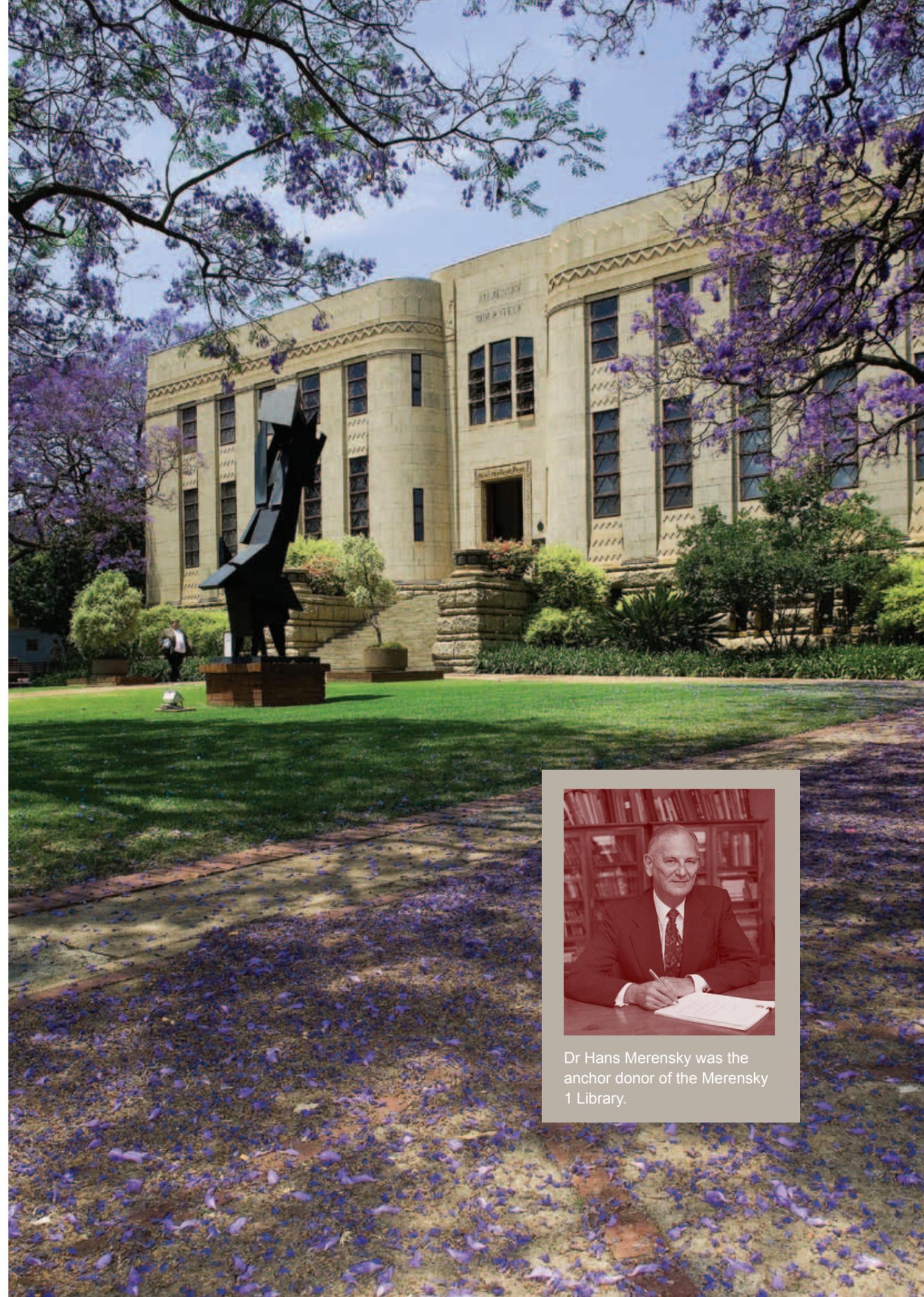
Looking back at 2012, the following are notable:

Approximately 8 000 students were involved in community engagement on a voluntary basis. Some activities were organised by student societies and residences. In other cases, individual students approached the Manager: Community Engagement for placement.

The University's annual participation in Mandela Day celebrations involved, among others, painting classrooms at a primary school in Mamelodi – the first time the school was painted in the more than 30 years of its existence.

A number of postgraduate programmes include a community engagement component that involves both postgraduate students and academic staff. The same sites are used in communities with which the University has an established relationship. The University works with the communities of Mamelodi, Eersterust, Pretoria North, Pretoria West, and Pretoria Inner City (including Sunnyside and Hatfield). Sites include schools, clinics, old age homes and prisons.

The Community Engagement Office profiles and monitors all new sites to gauge the possibility of sustained levels of engagement. Faculties take responsibility for the management of curriculum issues such as: the approval of new community engagement modules; any changes to modes of delivery from classroom to community-based sites of learning; and adding information to the yearbook to indicate which modules include a community engagement component.



Dr Hans Merensky was the anchor donor of the Merensky 1 Library.

The University has **337** NRF-rated researchers.



Research and Postgraduate Education

Research and postgraduate education are central to the identity of the University and its long-term vision of becoming a leading research-intensive university in Africa.

Two strategic goals of the institution's long-term plan, UP 2025, relate to maximising research productivity and enhancing the University's academic stature and visibility. Research and postgraduate education activities are focused on harnessing institutional strengths, embedding institutional research themes, sustaining research output and impact, and broadening the University's research base. Clear progress was made towards achieving performance targets.

Increased output in published research

In 2011, UP contributed 14.2% of the national university research output, the highest among South African universities. A total of 1314.82 units (portions of referred publications attributable to UP authors) were awarded. The 2011 outputs comprised 90% journal articles, and 10% published proceedings, books and book chapters, demonstrating increases of 8% and 37% respectively in these categories.

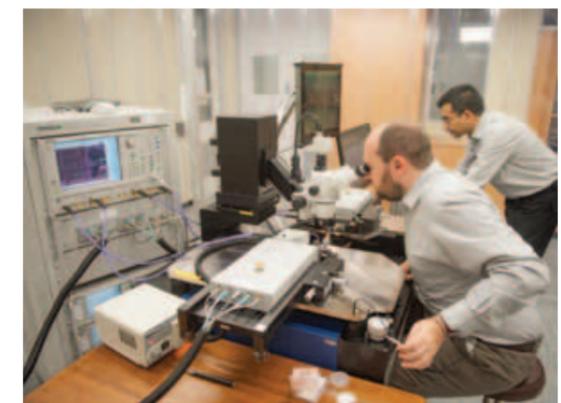
NRF-rated researchers

An important indicator of the quality of the University's research is the number of researchers who are rated by the National Research Foundation (NRF). In 2012, the University achieved its highest number of rated researchers to date, with 337 NRF-rated researchers. This figure represents an increase of 9% on the previous year.

In 2011 UP contributed

14.2%

of the national university research output, the highest among South African universities.



Furthermore, ten of our top-performing researchers were listed in the international Thomson Reuters Institute of Science Index (ISI) Essential Indicators in 2012. This index is based on the volume of citations of researchers' publications over a ten-year period and listed researchers are considered to be in the top 1% of scientists globally. UP may now have the highest number of African-based researchers on the Thomson Reuters list in particular disciplines, according to the preliminary list released in early 2013.

Growth in research chairs

Several new research chairs were established in diverse disciplinary fields.

Four new South African Research Chairs (SARChI) were established, bringing the total number to 11. Three additional industry-funded chairs were established in the Faculty of Engineering, Built Environment and Information Technology (EBIT). These are in the research fields of energy efficiency; power electronics and safety and health and the environment. Funding received from Exxaro, CBI Electric and Sasol Mining made this expansion of our research capacity possible.

UP continued to benefit from existing industry-funded chairs in Monetary Economics (Faculty of Economics and Management Sciences); Intellectual Property Law (Faculty of Law); Actuarial Sciences, Tree Pathology, Forest Genomics, Geology and Forestry (Faculty of Natural and Agricultural Sciences); Primary Animal Healthcare and Poultry Health and Production (Faculty of Veterinary Sciences).

In addition:

- The University's partnership with the Council for Scientific and Industrial Research (CSIR) was further strengthened with the establishment of the Chair in Electronic Defence Research in EBIT.
- Prof Lorenzo Fioramonti in the Faculty of Humanities was appointed to the Jean Monnet Chair in Regional Integration and Governance Studies. It is the first time this award has been made to an academic researcher at an African university.

Institutional and faculty research themes

Institutional and faculty research themes became well established and this focused approach, which maximises our research strengths, has begun to pay dividends.

- The current Institutional Research Themes are: energy efficiency; food, nutrition and well-being; genomics; and animal and zoonotic diseases.
- The Faculty Research Themes are: sustainable control of malaria; cellular and molecular medicine (both in the Faculty of Health Sciences); and Southern Modernities and Conflict and Peace (Faculty of Humanities).

Growing the research base

The University aims to increase its research productivity and impact, and at the same time expand its research base. 2012 saw a number of initiatives to support this goal, including the Graduate Support Hub for postgraduate students and postdoctoral fellows, the UP Academic Staff Development Programme, and the prestigious Vice-Chancellor's Postdoctoral Fellowship Programme.

The strong research ethos of the Faculty of Natural and Agricultural Sciences is reflected in the fact that 134 of its scientists are formally recognised by the NRF's peer evaluation system for the high quality and impact of their research at national and international level.

Research funding

In an environment characterised by increasing demand for limited financial resources, the ability to successfully secure third stream income is a strong indicator of research excellence and competitiveness at national and international levels.

The University received external research funding amounting to R328,9 million from national and international sources. The University contributed about R134,6 million of its own resources to support research, innovation and the training of postgraduate students and postdoctoral fellows.

Innovation

The UP Intellectual Property Policy, which aligns the institution with national regulations, was approved by the National Intellectual Property Management Office (NIPMO). The UP Technology Transfer Office was awarded a NIPMO grant to increase campus awareness activities on intellectual property and develop capacity for effective management of intellectual property produced by UP researchers and postgraduate students. In 2012, UP was awarded 16 new invention disclosures, as well as three international and two South African patents.

Internationalisation of research

UP's research profile is enhanced through interaction with institutions abroad. This takes a variety of forms, including the establishment and fostering of institutional agreements for research collaboration, exchanges of faculty staff and students, post-doctoral fellowships, and the enrolment of international students at undergraduate and postgraduate level.

Collaborations between individual researchers also served to strengthen ties with universities abroad.

In terms of academic staff and postgraduate student exchange programmes, UP enabled 19 of its academic staff to spend time abroad and hosted many academics from international institutions. A total of 47 postgraduate students, representing all faculties, also travelled abroad to conduct research for their degrees.

Further detail of international collaboration by UP is dealt with later in the report.

Industry partnerships

Strengthening the University's impact on social and economic development is one of the five strategic goals that frame UP's long-term plan. This goal relates to the University's output of undergraduates, its contribution to building capacity in scarce skills and professional fields, and its output in high-level research degrees.

The targets set in this regard, and the challenges of sustainability, require intensified knowledge generation and collaboration with industry and government. Such partnerships are mutually

beneficial: they support the University's research productivity, infrastructure and student training, contribute to graduate employment, and support competitiveness and growth.

UP continued to build on its solid record of collaboration and partnership with industry in the field of research. The University entered into more than 100 new research contracts with partners representing an array of sectors, including water, mining, energy, information technology, health, petrochemicals and food production. Contract research yielded an income of more than R98 million for the University and its researchers, more than double the income of R47,45 million in the previous year.



The University received external research funding amounting to R328,9 million from national and international sources.



International Collaboration

Students from

117

countries study at UP.

Since UP aspires to play a significant role in the development of scholarship in Africa and on a wider international stage, it strives to incorporate elements of global diversity into the academic curriculum.

Academic staff benefit from opportunities to advance their research by developing international networks and benchmarking their work against global communities of practice. The University's students profit from exposure to other cultures and educational opportunities abroad. UP's postgraduate and continuing education programmes continue to attract academics and professionals from other countries, especially countries in Africa.

International relations are sustained through a variety of activities: interaction with institutions abroad, the establishment of international agreements, support for research collaborations, staff and student exchange programmes, the awarding of post-doctoral fellowships to international academics, and the enrolment of international students in UP's academic programmes.

The University currently has collaborative partnerships with institutions on all continents. These partnerships are supported by more than 350 active agreements, 180 of which are inter-institutional agreements while the rest are specific to individual faculties or departments. 19 new institutional agreements were signed with institutions in Africa (1), Europe (14), Asia, Oceania and the Middle East (3) and the Americas (1). New partnerships are focused on supporting the University's strategic goal of enhancing its international profile through research collaboration with influential partners. Many new partnerships were also linked to UP's institutional and faculty research themes. For example, extensive African networks have been developed through the Institute for Food, Nutrition and Well-being and the Centre for Sustainable Malaria Control.

Academics from abroad constitute 3.7% of the total academic staff (46 staff members in total) and the University hosted many postdoctoral fellows from abroad. The international experience they bring to the University enriches its academic programmes and their presence enhances the institution's profile.

The University enrolled 4 219 international students, comprising 2 169 undergraduates and 2 050 postgraduates. International students comprised 15% of all postgraduates at UP.

The University celebrates diversity through an annual International Students Day event and students from 28 countries participated in this event.

International programmes

International programmes offered by the University satisfy a demand for relevant specialised education, particularly for postgraduate scholars in Africa. These programmes include master's degrees in Human Rights, Agricultural Economics, Internal Auditing, Information Technology and International Trade and Investment. The University recently established joint PhD programmes with the Vrije Universiteit of Amsterdam, the University of Rennes in France and the University of Liège in Belgium.

The University's participation in the **Erasmus Mundus Action EUROSA II programme** of the European Commission affords its staff and students opportunities to study at one of eight European consortium universities. The University is also a third country partner in the EUROSA Consortium as part of the Erasmus Mundus initiative. In 2012, nine UP postgraduate students and staff benefited from EUROSA II mobility scholarships.

The University participates in numerous international research programmes. Some 2012 highlights included:

- The European Union Framework 7 Programme. This is a collaboration between UP research groups and several European research groups to undertake work in areas ranging from food security, agriculture and biotechnology, to the environment, climate change, weather and climate impact on health, socio-economic sciences and the humanities.
- The NCSU-UP Inter-Institutional Seed Grants Programme. This a joint initiative of North Carolina State University in the USA and UP, designed to generate innovative projects and linkages between scientists with the aim of attracting further support from government, international agencies, corporations, industrial consortia or foundations. During 2012 the partner universities funded two existing collaborative projects and three new projects. They included collaboration on human and animal health.
- The CGIAR Collaborative Research Programme 4 Agriculture for Improved Health and Nutrition. This programme provided the opportunity for the UP Institute for Food, Nutrition and Well-being to participate in developing a Global Food Policy Review for Southern Africa.
- The development of a partnership between the faculties of education of UP and the North Eastern University (NENU) in China which will focus on education management and policy studies. The process was initiated following a visit by a high-level UP delegation to NENU in 2012.

The UP Centre for Sustainable Malaria Control concluded an agreement with the International Centre of Insect Physiology and Ecology in Kenya for conducting field studies, in collaboration with Duke University in the USA and the World Health Organisation.

UP enjoys a productive partnership with Fordham University in the US and in 2012 this gave rise to further staff exchanges, research and educational programmes in the faculties of Theology, Humanities and Education.

UP is part of the BRICS Research Group, along with the University of Toronto and the Higher School of Economics in Moscow. This group will assist Newsdesk Communications Ltd (NCL) to produce publications associated with the BRICS Leaders' Summits in 2013, 2014 and 2015.

International awards

Various members of the University academic community were honoured for their work in the international arena:

- Prof Ann Skelton of UP's Centre for Child Law was the joint recipient, with Sakena Yacoobi from Afghanistan, of the World's Children's Foundation Prize. The award, presented by Queen Silvia in Sweden in May 2012, recognised the impact of Prof Skelton's 20-year fight to secure the rights of children affected by the justice system. The patrons of the World's Children's Foundation include Nelson Mandela, Aung San Suu Kyi and Sweden's Queen Silvia.
- An honorary doctorate was conferred on Prof Mike Wingfield, Director of the Forestry and Agricultural Biotechnology Institute (FABI), by the University of British Columbia at a graduation ceremony in November 2012. Prof Wingfield also received the prestigious Johanna Westerdijk Award made by the Centraalbureau voor Schimmelcultures (CBS) Fungal Biodiversity Centre.
- Prof Lorenzo Fioramonti of the Department of Political Science was awarded the Jean Monnet Chair in Regional Integration and Governance Studies, becoming the first researcher at an African university to hold this position.
- Prof Resia Pretorius from the Department of Physiology in the Faculty of Health Sciences was the Southern Region winner of the African Union Award in the category Basic Science Technology and Innovation. This forms part of the AU's Kwame Nkrumah Scientific Awards Programme.
- Prof Thokozani Majozi was awarded the Young Scientists National Award of the AU Academy of Sciences for the Developing World.
- Prof Patrick Eriksson, Head of the Department of Geology, was honoured by the World Academy of Sciences (TWAS) for his fundamental contribution to understanding Precambrian sedimentation systems within a broader chronological and geodynamic framework.

Campus Developments

The Thuto Building offers

2 400

seats in four lecture halls.

The University continued the development and construction of new infrastructure to meet the needs of staff and students. Infrastructure is broadly divided into facilities – comprising buildings, grounds and service infrastructure – and information technology.

Facilities

The Department of Facilities Management is responsible for spatial planning, occupational health and safety, transportation, storekeeping, the maintenance and cleaning of buildings, the landscaping and maintenance of gardens, and waste removal. Several construction projects were completed and new projects commenced.

Following the relocation of the Department of Botany to the new Plant Sciences Complex, the old Botany Building was refurbished for use by the Department of Mathematics and the Mammal Research Institute.

The University's new lecture hall complex, the Thuto Building, with a seating capacity of 2 400 in four lecture halls, was available for use from the start of the academic year.

A wheelchair-friendly walkway between the HW Snyman Building and the western parking lot was completed on the Prinshof Campus. This included a new gate from Dr Savage Road and a five-a-side soccer pitch, a tennis court and multi-purpose basketball court for use by the Department of Occupational Therapy and resident students.

Construction of a new 400-seat Electronic Assessment Laboratory was completed in April on the Prinshof Campus for the Faculty of Health Sciences.

The third level in the Natural Sciences 2 Building was refurbished to create a Microbial Genomics Laboratory that serves the genomics research theme in the disciplines of Immunology, Genetics and Veterinary Tropical Diseases.

The promotion of the AmaTuks football team required an accelerated upgrading of the Tuks Stadium to Premier Soccer League standards in time for the first match in September. The stadium is now used for televised home matches in rugby and football.

Additions to GIBS, comprising additional lecture space and student facilities, were completed in December.

Institutional development and the continued growth in student numbers have had an impact on staff numbers, especially on the Hatfield Campus. There is no longer a single unoccupied office or storage space on this campus. The refurbishment of a portion of the Student Centre for occupation by the Department of Student Affairs was completed in December after the RAG offices and *Perdeby* were relocated to refurbished houses.

Through coordination with the City of Tshwane Municipality, the Department of Facilities Management has ensured that public areas surrounding the University support rather than detract from the neat and safe environment that has been created on the various campuses.

The University has entered into dialogue with various levels of management at the City of Tshwane Municipality in order to ensure that the Campus Master Plan can be translated into reality. Discussions have focused on matters of common interest such as rezoning of properties, street closures, enforcement of land use rights, health regulations, and guidelines for the densification of the Hatfield area in terms of the Regional Spatial Development Framework. Matters of particular concern are the potential impact of the Tshwane Rapid Transit System on future traffic patterns and parking requirements.

Similar discussions are taking place with the Gauteng Provincial Government and City of Tshwane Municipality in relation to the Prinshof precinct in order to ensure future expansion opportunities for the Faculty of Health Sciences.

Municipal water consumption at most campuses continues to decline due to persistent interventions to detect and eliminate losses as well as the increased use of ground water for irrigation.

Information technology

The Department of Information Technology Services (ITS) manages the University's central information technology infrastructure on all campuses, and provides information technology services and access to electronic systems supporting research, teaching and learning, and administrative activities.

ITS provides and maintains 35 600 computer network access points as well as a limited number of wireless access points. A project to increase the number of wireless access points more than tenfold during 2013 was funded and initiated during 2012.

Billing for internet use was discontinued and the international internet bandwidth available to UP was doubled. The telephone system was enhanced by introducing new call centre capabilities in support of the Client Service Centre and other services.

All student mail accounts were successfully transferred and converted to Google's Gmail services. Computer laboratory infrastructure was extended by a new 400-seat facility at the Faculty of Health Sciences. The ClickUP learning management system was upgraded to the latest version.

ITS manages and oversees a large interdisciplinary systems renewal project that aims to replace, enhance and extend all administrative systems, adding significant advances in information management and systems integration capabilities. This was the project's fourth year and the target date for completion is the end of 2013.

The project advanced significantly: new capability was introduced in the areas of student admissions, student residence management, distance education, graduation, student self-service, student billing, student loan management and financial aid management. The systems requirements for alumni management and fund-raising were researched and documented to prepare for implementation.

'User provisioning' for students was implemented: as students register and enrol for courses, their credentials are automatically updated in a host of other systems.

Overview of Faculty Achievements

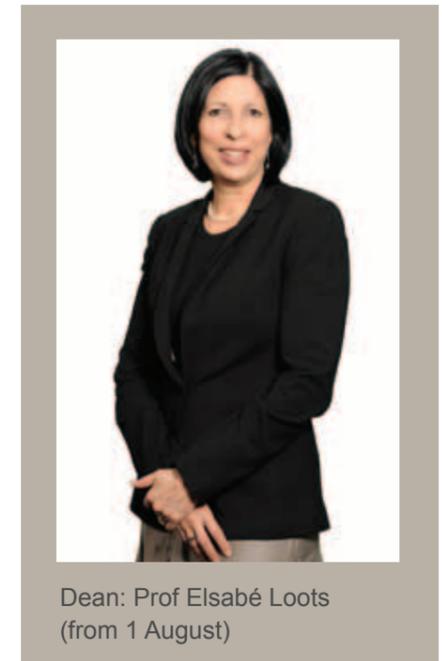
FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES

The Faculty of Economic and Management Sciences comprises nine departments and enrolled 9 370 students, of which 7 194 are undergraduates and 2 176 postgraduate students.

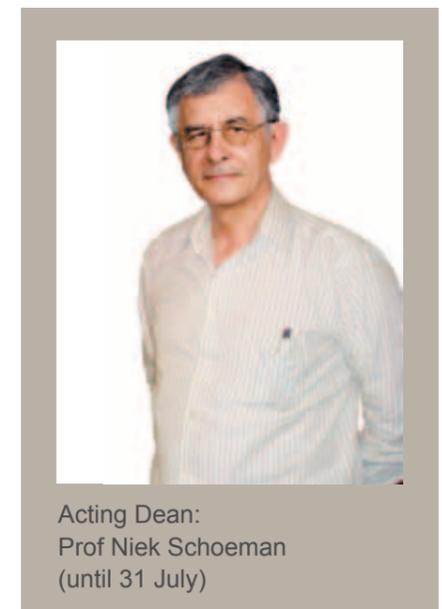
The Faculty offers 19 undergraduate and 79 postgraduate programmes, covering broad fields in financial, management and economic sciences, as well as programmes offered in the School for Public Management and Administration. The Faculty has a total staff cohort of 270, consisting of 196 academics and 74 support staff. In order to align the Faculty with the UP 2025 vision, the Faculty encourages staff to improve their qualifications. Approximately 30% of academics are chartered accountants. In the non-financial science fields, approximately 54% of academics have PhDs.

The Faculty management is well-structured and based on participative and transparent leadership. The management committee consists of the Dean and heads of departments. Prof Niek Schoeman steered the Faculty as Acting Dean from January to July. Prof Elsabé Loots took over the reins as Dean from 1 August 2012.

Research is regarded as an integral part of the Faculty. Under the leadership of Prof Stella Nkomo, chairperson of the Research Committee, various initiatives were launched to stimulate the quality and quantity of research outputs. These included the establishment of the Office for Research Support. Although final audited outputs were not available at the time of writing, research outputs increased and indications were that the Faculty would achieve at least 86 accredited publication units for the year. There was an increase in the number of postgraduate degrees conferred, of which 168 were master's and 24 doctorates.



Dean: Prof Elsabé Loots
(from 1 August)



Acting Dean:
Prof Niek Schoeman
(until 31 July)

The Faculty has 15 NRF-rated researchers. Two additional researchers received B-ratings during 2012, bringing the pool of B-rated researchers in the Faculty to four. They are: Profs Stella Nkomo, Riël Franzsen, James Blignaut and Ronél Rensburg.

The NRF SARCHI Chair was awarded to the African Tax Institute (ATI), with Prof Franzsen as its Director. This initiative enhances the Faculty's capacity for research on tax policy and governance. Several upcoming researchers achieved excellent results and received recognition for their contributions. Dr Theuns Steyn of the Department of Taxation won the doctoral category of the Norton Rose South African Tax Thesis competition. This was the third consecutive year that UP topped this category. Prof Rangan Gupta was ranked sixteenth in Top Young Economists in the world by IDEAS, the largest bibliographic database in the field of economics.

Good progress was made in strengthening the Faculty's international footprint. The latest research collaboration between the Department of Auditing, GIBS and Erasmus University in Rotterdam, Netherlands will offer a MPhil degree in Internal Auditing. This initiative has been sponsored by ABSA Bank Ltd to the extent of R5 million. Four major entities in the Faculty – the African Tax Institute, the Albert Luthuli Centre for Responsible Leadership, the Centre of Inclusive Banking and the Centre of Communication and Reputation Management – enhanced the research focus in the Faculty. The South African Reserve Bank Chair in Monetary Economics and the Unit for Forensic Accounting further provided the Faculty with competitive strengths.

The Faculty focused on facilitating relevant teaching programmes and meaningful learning experiences. Drs Gene van Heerden and Melanie Wiese received the prestigious Laureate 2012 Award for Education Innovation for their apprentice-style learning approach to marketing education at the honours level. Six other staff members received recognition for exceptional contributions to education innovation.

FACULTY OF EDUCATION

The Faculty of Education celebrated several milestones, including its 75th birthday. This milestone was marked with the publication of a special book and a gala dinner for current and former staff members in September.

The Faculty now hosts the prestigious *South African Journal of Education*. The journal is ISI-listed and ranked 95th in the world out of 177 academic titles on education.

The Faculty hosted a national teacher education conference in collaboration with the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the Higher Education South Africa Education Dean's Forum (HESA-EDF) in September. The conference was supported by the European Union-South Africa (EU-SA) Primary Education Sector Policy Support Programme.

Several international visitors from Europe, America, the Netherlands and Zimbabwe visited the Faculty and a Fulbright scholar in mathematics education was hosted on the Groenkloof Campus for a year.

The Unit for Distance Education marked its 10th anniversary and celebrated its role in helping tens of thousands of teachers improve their teaching qualifications.

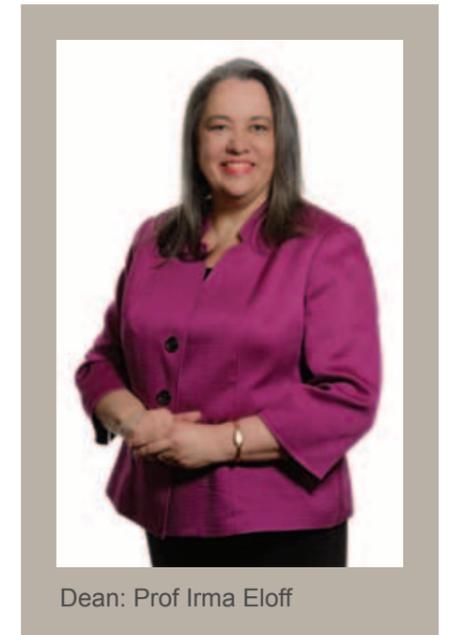
The area of education policy studies at the University was ranked among the world's top 200 in the Quacquarelli Symonds (QS) rankings.

The Dean represented the Faculty as a signatory at the World Literacy Summit at Oxford University.

Dr Lindelani Mnguni of the Department of Science, Mathematics and Technology Education was listed as one of the top 200 Young South Africans for 2012 by the *Mail & Guardian*.

In July the Faculty hosted a two-week research methodology winter school for postgraduate students. Researchers from across the globe presented lectures and engaged with students in small group discussions on their research projects.

In December a team of researchers at the Centre for Evaluation and Assessment released the results of the international Progress in International Reading Literacy Study (PIRLS), which focuses on literacy levels of South African children. Approximately 20 000 children participated in this study.



Dean: Prof Irma Eloff



FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

The Faculty continued to consolidate its position as a highly respected faculty: the demand for places in its programmes remained strong and there was significant growth in student numbers. Research undertaken in the Faculty was substantially enhanced by the establishment of several additional research entities.

The Faculty takes pride in its dedication to teaching and learning and in the innovative approaches it employs. The University acknowledged these practices by conferring Excellence in Teaching Innovation Awards on the Engineering Department and on the Departments of Construction Economics and Family Medicine for their Building Together programme which provided high quality health facilities and healthcare to communities.



Dean: Prof Roelf Sandenbergh

Formal programmes of the Faculty are reviewed continually and some notable developments were the introduction of humanities, arts and social science modules into engineering programmes and the establishment of a postgraduate programme in welding engineering.

A postgraduate programme in library science was established with the support of the Carnegie Corporation of New York. The purpose is to provide continued professional development for staff in African academic libraries.

The infrastructure available for teaching and learning was expanded and renewed by the following developments:

- The inauguration of the Engineering 3 facilities.
- The establishment of a state-of-the-art teaching laboratory for electronics and digital systems. This facility was supported by Agilent Technologies.
- The development of a mobile applications laboratory in the School of Information Technology, with the support of BlackBerry.

Students in the Faculty contributed to the University's community engagement record by participating in more than 500 projects involving more than 400 community partners. Research and service by the Faculty was strengthened by the establishment of the African Centre of Excellence for Information Ethics in the Department of Information Science, and the e-skills initiative in the Department of Informatics. Both undertakings have been supported by the national Department of Communications.

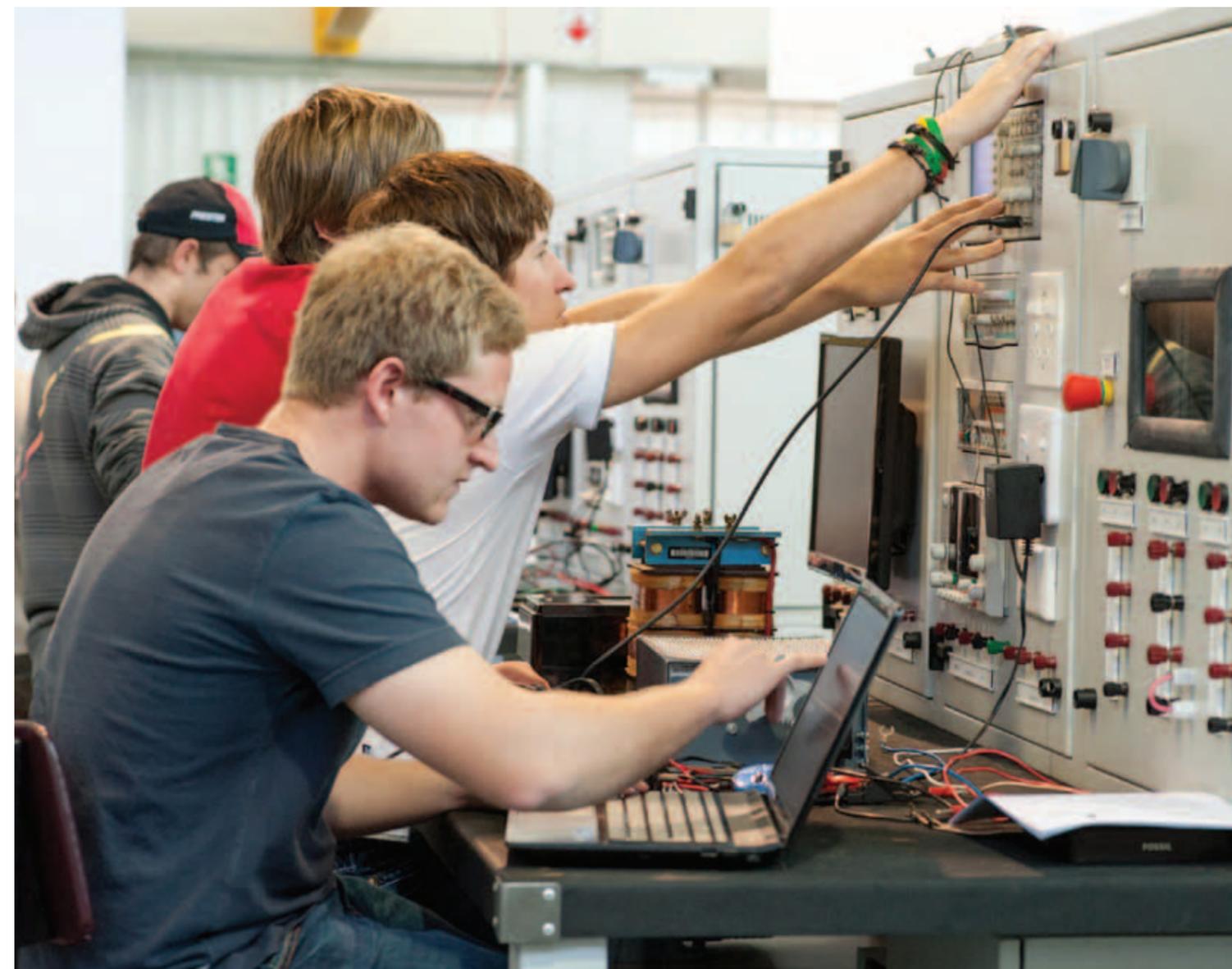
The Unit for Intelligent Digital Forensics was created in the Department of Computer Science to conduct research and provide industry support. The Eskom Specialisation Centre in Plant Asset Management was established as part of the Eskom Power Plant Engineering Institute in the Department of Mechanical and Aeronautical Engineering. This new centre will develop and present a range of courses to support Eskom in physical asset management, supervise

and mentor master's and doctoral research students, and develop collaborative research programmes with other universities, original equipment manufacturers and international utilities.

Three research chairs were established in the Department of Electric, Electronic and Computer Engineering: the Chair in Energy Efficiency, which is sponsored by Exxaro; the Chair in Power Electronics, which is sponsored by CBI Medium Voltage; and the Chair in Electronic Defence, which is a cooperative initiative with the CSIR.

Research in the Department of Materials Science and Metallurgical Engineering benefited from strong industry support. The year saw the establishment of the Southern African Institute of Welding Centre for Welding Engineering, the Bateman Chair in Minerals Processing and the Xstrata Chair in Pyrometallurgical Modelling. The last will complement the existing Anglo American Chair in Pyrometallurgy in the Centre for Pyrometallurgy.

The Department of Mining Engineering acquired additional research capacity through the establishment of the Sasol Mining Chair in Mine Safety, Health and the Environment.



FACULTY OF HEALTH SCIENCES

The Faculty of Health Sciences seeks to be the academic home of first choice in its field and continued to build on this proposition. The Faculty strives to develop a values-based culture of teaching and learning, commitment to excellent patient care, and health research that is of benefit to society.

Prof Dianne Manning was welcomed as Deputy Dean: Education and Prof Mavis Mulaudzi was elected as Chair of the School of Health Care Sciences. The year also saw the retirement of Prof James Ker, Deputy Dean and Prof of Internal Medicine; Prof Hennie Becker, long-standing head of the Department of Surgery; and Prof Ronnie Anderson, Head of Immunology and Director of the Medical Research Council Unit for Inflammation and Immunity.

Prof Gerhard Lindeque was elected President of the Colleges of Medicine of South Africa and Prof Mulaudzi Chairperson of the Forum of University Nursing Deans in South Africa (FUNDISA), while Prof Sam Mokgokong continued as President of the Health Professions Council of South Africa. Prof Eric Buch was appointed by the Minister of Health to the Steering Committee of the Academy for Leadership and Management in Health and Prof Lekan Ayo-Yusuf was selected to represent South Africa on the inaugural steering committee of the WHO Centre for Tobacco Control in Africa.



Dean: Prof Eric Buch

Student success rates remained high, with undergraduate pass rates above 90%. This is due largely to the Faculty's teaching standards and unique student support systems. Demand for admission remains high: 10 697 applications were received for the 652 places available for the first-year of medical study. In addition, 848 applications were received for the nursing BCur (1 et A) and 225 first-year students were admitted. In total, 4 665 undergraduate and 1 496 postgraduate students were registered.

Planning is underway for the Mamelodi and Tembisa hospitals to become academic hospitals in 2013. While practice-based learning remained strong, pressure on the service learning platform at Steve Biko, Kalafong, Weskoppies and Witbank hospitals became a matter of concern due to financial and other constraints. Relationships with the Health Departments of Gauteng and Mpumalanga remained strong, and an improved relationship is foreseen going forward.

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10 697 applications were received for the 652 places available for the first-year of medical study.

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Staff members continued to serve on many other global and national bodies and receive accolades. Prof Kurt Bütow was awarded a Life-time Achievement Award by the International Cleft Lip and Palate Foundation.

The reorganisation of research support systems is proving to be highly effective. This change has included the introduction of postgraduate students' and supervisors' forums. A clinical research fund has enabled the University to relieve academic staff of their patient care responsibilities so that they can focus on completing PhDs and publications.

Active international collaborations continue to enhance the research of the Faculty. These include Prof Anton Stoltz's new collaboration with the Harvard School of Public Health on infection control and Prof Michael Pepper's long-standing collaborations with the Centre for the Study of AIDS at Yale University and the Department of Pathology and Immunology at the Geneva Medical Faculty. Prof Tiaan de Jager's collaboration with the University of California Berkeley led to additional joint research projects in rural Limpopo, and Prof Mike Sathekge's international collaboration in nuclear medicine was extended to Cambridge University.



FACULTY OF HUMANITIES

The conceptualisation and establishment of the Capital Cities Project constituted a highlight of the 2012 academic year for the Faculty of Humanities. One of the project's central aims is to serve as a forum for different modes of research about capital cities. In doing so, it encompasses a range of disciplines, including social sciences, languages, the arts, economic and management sciences, education, health sciences, engineering and urban planning. Another key aim of the project is to promote an understanding of the synergies, mutual interests and interdependencies between the University and the City of Tshwane. The project was launched during the second semester by means of two successful events: a musical celebration of the City of Tshwane as part of *Sounds from 2012*; and a public seminar, titled *The Uncompleted Capital*.

The Human Economy Project, under the co-leadership of Profs John Sharp and Keith Hart, further cemented its position in the Faculty as major hub of research activity. By mid-2012 the project was already hosting ten post-doctoral fellows and six doctoral candidates. In addition to several individual publications by researchers and fellows, the project also resulted in an edited volume, the first in a series on human economy already contracted with an international publisher.

A total of 1 438 students – 993 undergraduates and 445 postgraduates – graduated with degrees in the humanities.

The Faculty produced 240 accredited publications during the course of the year, 47 more than in the preceding year. These publications included:

- The volume *Community Psychology in South Africa* by Prof Maretha Visser and Anne Moleko of the Department of Psychology.
- The book *Doing social research: a global context* by Prof Claire Wagner, also of the Department of Psychology.
- The volume *Temporalities* by Prof Russell West-Pavlov of the Department of English, published as part of the prestigious *Critical Idiom* series by Routledge.
- The book *Gross Domestic Problem: the politics behind the world's most powerful number* by Prof Lorenzo Fioramonti of the Department of Political Sciences.

The Faculty was awarded several important grants aimed at supporting its research endeavours. These included a substantial NRF Blue Skies Research Programme grant awarded to Prof Innocent Pikirayi for the research project 'Collapse of Ancient Societies' and



Dean: Prof Norman Duncan
(from 1 May)



Acting Dean:
Prof Hennie Stander
(until 30 April)

a large NRF African Origins Platform grant, also awarded to Prof Pikirayi, for the research project 'Archaeology and Archaeometry for Societies in Contact'. At the end of the year, Profs Sakhela Buhlungu and Andries Bezuidenhout of the Department of Sociology were awarded a substantial contract to conduct research on the Kumba mineworkers' strike. This contract served as fitting acknowledgment of this department's expertise in the field of labour studies, an area of research that the Faculty wishes to grow significantly over the next few years.

The Faculty received several sizeable grants aimed at the development of the research capacity of early-career academics, including an Andrew W Mellon Foundation award.

In terms of teaching and learning highlights, the Faculty was the recipient of a very large Department of Higher Education and Training grant, which will contribute to establishing a new language laboratory and African languages resources centre in the Faculty.

The Faculty also received two lecturing grants from the Portuguese and Brazilian governments and the Camões Institute in South Africa to facilitate the appointment of two Portuguese lecturers. These grants will go a long way towards assisting the Faculty to establish a Portuguese programme as part of its Modern European Languages offerings and research.

The Faculty hosted a large number of visiting research associates from a range of universities internationally. These included Prof Rhoda Reddock, Vice-Chancellor of the University of the West Indies, Trinidad and Tobago, Prof Anthony Chennels of the University of Zimbabwe, Prof Mary-Ann Romsky and Prof Wayne Staab of Georgia State University, Prof Anders Lindahl of Lund University and Dr Kobie Boshoff of the University of South Australia.

Prof Lorenzo Fioramonti of the Department of Political Sciences became the first scholar based at an African university to be awarded the prestigious Jean Monnet Chair in European Studies.

A specialist archaeological ceramic technology laboratory was established at the University during the course of the year. The first of its kind in sub-Saharan Africa, it will act as a regional and international centre of excellence and specialist knowledge, particularly in the field of ceramic petrography and compositional analysis.

The Ubuntu Study Abroad Programme was launched under the leadership of UP's Prof Antoinette Lombard and Prof Booï Themeli of Fordham University, New York. This is a significant milestone in the Faculty's attempts to consolidate its collaborative international teaching and research endeavours.

Two key Faculty Research Themes were established: Southern Modernities and Conflict and Peace. It is expected that these themes will generate substantial bodies of research and writing over the next few years.

The Faculty's top students continued to make important contributions to their fields of study. They included Elizabeth Leaver, Hazel Ngoshi and Bonnie Kneen, who had articles published in accredited journals. Ms Leaver's work appeared in *Brontë Studies*, a prestigious international literary journal. Ms Marguerite de Waal of English Studies was awarded the Vice-Chancellor's medal for exceptional academic performance.

FACULTY OF LAW

The Faculty of Law comprises the Departments of Jurisprudence, Mercantile Law, Private Law, Procedural Law and Public Law and the Centre for Human Rights. The Faculty also houses Centres for Advanced Corporate and Insolvency Law, Child Law, Intellectual Property Law, Sports and Entertainment Law, as well as the Institute for International and Comparative Law in Africa (ICLA) and the Law Clinic.

The following developments are an indication of the Faculty's stature:

- For the second year in a row, the LLM in Corporate Law in the Department of Mercantile Law was ranked as the best in Africa and one of the Top 200 in the world by Eduniversal Bests Masters Ranking.
- The African Commission on Human and Peoples' Rights awarded the first NGO prize for the promotion and protection of human rights to the Centre for Human Rights.
- Two members of staff improved their NRF ratings to the level of B1; one maintained an A1 rating and another staff member obtained a Y2 rating.

400 LLB degrees were awarded, as well as 120 LLM degrees by course work, five LLM degrees by research and eight doctoral degrees.

In terms of the further development of the Faculty, the Centre for Intellectual Property Law in the Department of Private Law became fully operational as Judge Louis Harms took up the Adams & Adams Chair in Intellectual Property Law.

The Faculty received and/or hosted more than 50 visiting researchers and lecturers. Thirty staff members presented papers at international conferences or lectured and/or conducted research at institutions abroad. They included a research fellow who spent six months at Harvard Law School on a Fulbright Scholarship, as well as staff who participated in the International Human Rights Law Summer Programme organised by George Washington University and Oxford University.

During May Sir Nigel Rodley, Professor at the Human Rights Centre of the University of Essex, member of the United Nations Human Rights Committee and former United Nations Special Rapporteur on Torture, presented a public lecture on the UK Human Rights Act. During November Prof Ali Mazrui, Albert Schweitzer Professor in the Humanities at Binghamton University, New York, delivered the second prestige lecture.

The Faculty hosted several important conferences and events. These included the Ubuntu Conference, organised by the Department of Jurisprudence in conjunction with Prof Drucilla Cornell, Extraordinary Prof of Jurisprudence in the Faculty; an interdisciplinary conference on poverty and the law; and an international conference focused on ending mass atrocities in Africa, which was hosted by the Centre for Human Rights.



Dean: Prof André Boraine

The 4th World Human Rights Moot Court Competition (MCC) was again organised and hosted by the Centre for Human Rights. The Centre for Child Law hosted its 3rd National Child Law MCC, with the TuksLaw team winning the competition. The Centre for Human Rights hosted the 21st African Human Rights MCC in Maputo, Mozambique. The 1st African Round of the Manfred Lachs Space Law MCC was hosted by the Institute for International and Comparative Law in Africa (ICLA) in collaboration with the Aerospace Industry Support Initiative of the Department of Trade and Industry (dti).

TuksLaw teams were victorious in both the English and Afrikaans rounds at the Kovsies First-Year MCC and in the 53rd national round of the Philip C Jessup MCC. They then represented the University in the international rounds of this competition in Washington DC.

The Faculty signed a memorandum of understanding with the Pan African Parliament (PAP) in terms of which ICLA will provide research access and support to PAP. ICLA, in collaboration with the Department of Public Law and the Institute of Air and Space Law at the University of Cologne (Germany), introduced an LLM option in international air, space and telecommunications law. This is sponsored by the Aerospace Industry Support Initiative of the dti.

Audited figures on research output confirm that the Faculty produced 98 accredited research publications, technical reports and handbooks. Special mention is made of the Law Clinic's report on the review of the National Credit Act of 2005, undertaken on behalf of the National Credit Regulator, and the assistance provided by the Centre for Human Rights in finalising the Draft Model Law on Access to Information for the African Commission on Human and Peoples' Rights.



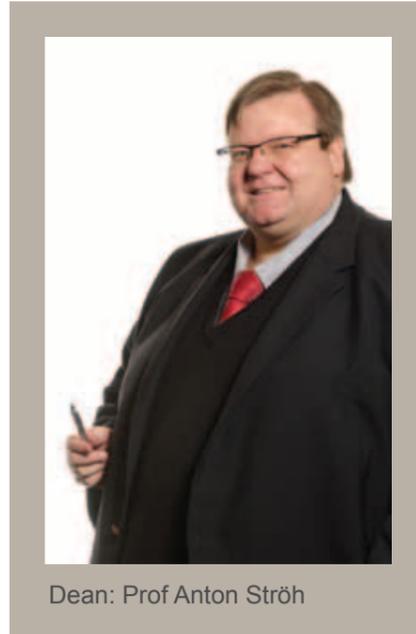
FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

UP's Faculty of Natural and Agricultural Sciences is one of the most diverse science faculties in South Africa. The University is also highly ranked in the ISI fields of agriculture, environment and ecology.

A total of 4 182 undergraduate students registered for science degrees. Progress in terms of equity is indicated by the fact that 1 965 of these students were black and 2 324 were female. At postgraduate level, 845 of a total of 1 861 registered students were black.

In total, 1 018 students graduated in the Faculty during the year under review. Of these, 476 received postgraduate degrees – 49 doctoral, 141 master's and 286 honours degrees – and 542 received undergraduate degrees.

The increase in student numbers has required an expansion of Faculty facilities. In January, the new Plant Sciences Complex, which houses diverse departments and institutes in the plant science field, was officially opened. This event coincided with the launch of the South African Forestry Company (SAFCOL) Forestry Chair.



Dean: Prof Anton Ströh

1 018

students graduated in the Faculty of Natural and Agricultural Sciences.

The Faculty maintains more than 450 active partnerships and collaborative ventures with universities and science-related councils all over the globe, including BRIC countries, North America and Europe. The Faculty hosts 50 postdoctoral fellows annually.

UP awarded an honorary doctorate in geology to Prof Santosh M Warriar of the Kochi University in Japan in April 2012.

The Faculty is involved in all four institutional research themes, namely: food, nutrition and well-being; energy efficiency; genomics; and biotechnology and the management of animal and zoonotic diseases.

This Faculty and the Faculty of Veterinary Science became key partners in the Tshwane Animal Health Cluster, an initiative led by the Technology Innovation Agency (TIA). Other partners include the NRF, Onderstepoort Biological Products (OBP), the Agricultural Research Council (ARC), and the CSIR. The aim of this initiative is to stimulate the development of commercially viable technologies to address challenges confronting the animal health sector.

Prof Rivka Kfir, former CEO of the Water Research Commission, joined the UP Water Institute and Prof Don Cowan was appointed to lead the newly established Centre for Microbial Ecology and Genomics.

The Suid-Afrikaanse Akademie vir Wetenskap en Kuns bestowed the Havenga Prize for Biological Sciences on Prof Nigel Bennett of the Department of Zoology and Entomology. Prof Mike Wingfield, Director of the Forestry and Agricultural Biotechnology Institute (FABI),

was awarded the prestigious Johanna Westerdijk Award by the Centraalbureau voor Schimmelcultures (CBS) Fungal Biodiversity Centre as well as an honorary degree from the University of British Columbia.

Prof Bob Millar, Director of the Mammal Research Institute in the Department of Zoology and Entomology, published two articles in the *New England Journal of Medicine*, arguably the foremost among scientific journals.

Prof Jolanda Roux of FABI received the NSTF-BHP-Billiton award for a female researcher who has made an outstanding contribution to science, engineering and technology innovation through research capacity development.

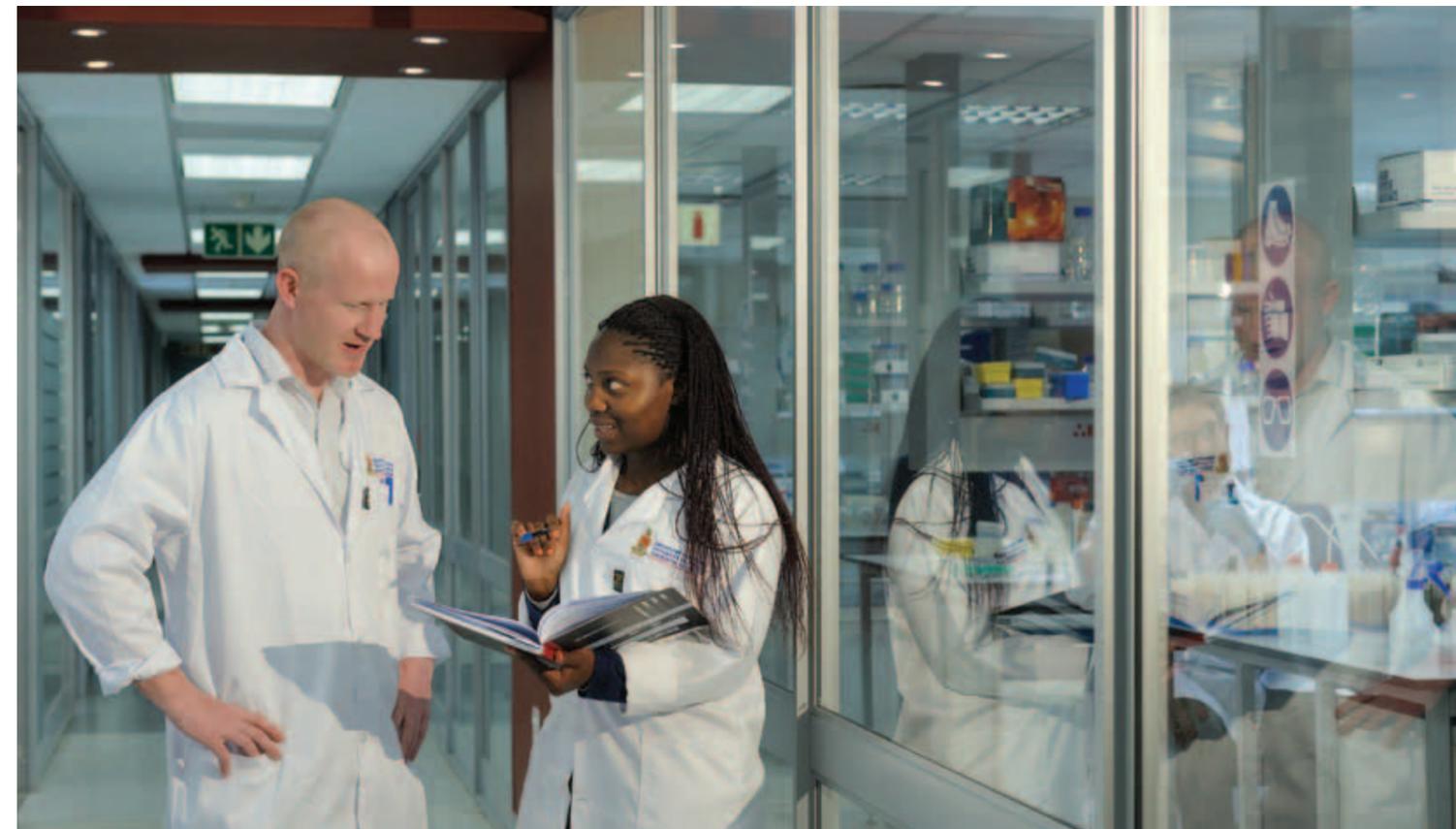
Prof Pat Eriksson, Head of the Department of Geology, was honoured by the Academy of Sciences for the Developing World (TWAS) for his fundamental contribution to the understanding of precambrian sedimentation systems within a broader chronological and geodynamic framework.

Prof Brenda Wingfield, Deputy Dean: Research and Postgraduate Studies, was elected to the Council of the Academy of Science of South Africa (ASSAf) for the 2012 to 2016 cycle.

Gerda Fourie, a PhD student in Microbiology at FABI, became the 2012 recipient of the L'Oréal-UNESCO Award for Women in Science from sub-Saharan Africa.

Theodor Loots, who obtained an MSc in Mathematical Statistics cum laude, was awarded the S2A3 Bronze Medal for the research towards his master's degree. Mr Loots's achievement is made all the more remarkable by the fact that he is blind.

Henry Thackeray, a final-year BSc Mathematics student, won the inaugural South African Tertiary Mathematics Olympiad. The Olympiad was written by a total of 151 undergraduate students from universities across the country.



FACULTY OF THEOLOGY

The Faculty of Theology has engaged in interdisciplinary and trans-disciplinary research focused on some of the most pressing issues of our society: social cohesion (with a focus on the problem of poverty), the challenge of reconciliation and the need for restorative justice. This approach has drawn participation by key role players in various sectors of society, industry and academia.

The Faculty has a multi-faith, multi-disciplinary and interdisciplinary programme of biblical and religious studies. Apart from increasing students' knowledge of world religions, the programme is intended to create an ethos of inter-religious dialogue, tolerance and mutual respect within the Faculty and across the University.

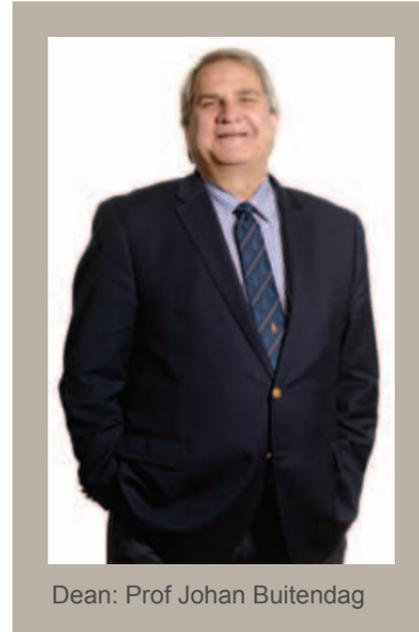
Prof Pieter Venter retired as Head of the Department of Old Testament Studies and was succeeded by Prof Dirk Human. Three international seminars on the Pentateuch, Psalms and Prophets were organised, while special lectures were presented by Profs Eckart Otto (Munich), Jimmy Loader (Vienna) and Ulrich Berges (Bonn). The Department published extensively including: 17 articles in accredited journals, six conference proceedings, four chapters in books and three books. Prof Andries Breytenbach (emeritus) was pivotal in the isiNdebele translation of the Bible, which appeared in 2012.

The Department of Church History and Church Polity presented the first South African congress on Augustine of Hippo and Manichaean Christianity. This resulted in a series of scholarly articles published in scientific journals.

The Department of Science of Religion and Missiology hosted the Second Interreligious Forum conference entitled *Religion and ecology*. The Department hosted a conference in association with Radboud University in Nijmegen on *Missional church in changing contexts*. Two members of the department, Profs Nelis Niemandt and Thias Kgatla, attended the 13th International Association for Mission Studies (IAMS) conference in Toronto and presented papers on the theme, *Migration, religion and identity: missiological theoretical issues*.

A productive collaboration exists between the department and several international scholars, such as Prof Marcel Barnard, well-known liturgy scholar at the Protestant University of the Netherlands, and Dr Abamfo Atiemo of the University of Ghana. Prof Leonora Tubbs Tisdale of Yale University presented a seminar with the Worship in Africa Research Group (WARG). Two monographs were published by Prof Johan-Albrecht Meylahn and Prof Yolanda Dreyer of the Department.

The Department of Dogmatics and Christian Ethics had a productive research year with 21 accredited journal publications, five contributions to books and one monograph by Dr Willem Fourie. The Department has distinguished itself in the area of interdisciplinary research.



Dean: Prof Johan Buitendag

Dr Vuyani Vellem delivered a paper on *Alternative economic architecture* at an international conference in Brazil.

With the support of the New Partnership for Africa's Development (NEPAD) and United Nations Development Programme (UNDP), Dr Fourie visited Dar es Salaam as part of a project on leadership in Africa. The department celebrated the University's awarding of an honorary doctorate to Prof Klaus Nürnberger.

There were several highlights in the Department of New Testament Studies. Prof Gert Steyn hosted an international conference on *Moses in Second Temple Judaism and early Christianity*. Prof Steyn was also invited to present a paper on *Philo and the Septuagint* in Wuppertal, Germany.

Prof Ernest van Eck was invited to lecture in Cameroon for a number of weeks and read a paper on the parables at the Society of Biblical Literature (SBL) Conference in Chicago. Prof Kobus Kok was promoted to Associate Prof and was invited to lecture in Nijmegen, the Netherlands while conducting research there.

“The Faculty of Theology's multi-faith and interdisciplinary programme creates an ethos of inter-religious dialogue and mutual respect.”



FACULTY OF VETERINARY SCIENCE

Significant progress has been made towards admitting a group of students whose profile represents the composition of the population of our country. For the first time, more than 50% of students admitted to start the veterinary programme in 2013 were from designated groups. In addition, the annual intake of students to the veterinary programme has been increased by more than 35%.

Marked progress has been made in the development and implementation of an open education resource platform within the Faculty. This will comprise a repository of high quality educational content, mostly unique to Africa, which will be freely available for undergraduate and postgraduate training and continuous professional development. It will be accessible not only within the Faculty but also to professionals in South Africa and the region.

Headway has also been made in the area of curriculum development. Detailed curricula have been completed for the core course components, while agreement has been reached at the macro level on the elective course components.

There was an upsurge in research output, indicated by an increase in the (unaudited) number of publications in ISI-accredited journals. The Faculty made a strong showing in higher impact journals. Of particular note was an article in *Science* which described a mutation in the king cheetah in relation to the tabby coat pattern in the domestic cat.

A record number of 52 master's and 19 PhD students graduated.

Prof N James MacMachlan of the Department of Pathology, Microbiology and Immunology in the School of Veterinary Medicine at the University of California presented the Sir Arnold Theiler Memorial Lecture entitled, 'Emerging diseases: the example of blue tongue, from Theiler to climate change'.

The Faculty contributes to three institutional research themes, namely: food, nutrition and well-being; animal and zoonotic diseases; and genomics. It has submitted a number of funding proposals to the Technology Innovation Agency (TIA) under the Tshwane Animal Health Cluster initiative. It is playing a leading role in the development of an animal health consortium within UP.

The institution of a Chair in Poultry Health and Production, supported by the South African Poultry Association, and the appointment of Prof Celia Abolnik to the Chair has provided much needed capacity to serve this important industry.

The Faculty has done groundbreaking work in the epidemiology of lumpy skin disease, particularly in terms of the transmission of the virus and its inter-epidemic persistence in various tick vectors.



Dean: Prof Gerry Swan

The Lavender Foal Syndrome test patent was granted in June.

A film entitled, *Rhinos under threat* – produced by the United Nations broadcaster, UNTV, and Convention on International Trade in Endangered Species (CITES) – highlighted the work of the Veterinary Genetic Laboratory on rhinos. It was released at the Rio+20 Summit.

The Onderstepoort Veterinary Academic Hospital (OVAH) successfully introduced the Universal Veterinary Information System (UVIS), an electronic patient information system, and the related Laboratory Management System which will be used in Faculty laboratories. The hospital also succeeded in eradicating a methicillin-resistant *Staphylococcus aureus* and *Salmonella* spp and developed a biosecurity plan.

The Equine Research Centre, together with the OVAH and staff members of the Departments of Companion Animal Clinical Studies and Production Animal Studies, played a key role in containing contagious equine metritis which was diagnosed for the first time in South Africa. This assistance was requested by the Department of Agriculture, Forestry and Fisheries.

Prof Kobus Eloff received the 2012 Science for Society Gold Medal from the Academy of Science of South Africa for excellence in applying scientific thinking in the service of society. Dr Lyndy McGaw was inaugurated into the South African Young Academy of Science (SAYAS). Dr Folorunso Oludayo Fasina received the University's Exceptional Young Researcher Award, and Ms Ester Botha received the prestigious Certificate in Education Innovation Award for innovative student engagement and assessment by means of student generated videos of practical procedures in the veterinary nursing programme.

Great strides have been made in the development of a "One Health" training platform at the University's Hans Hoheisen Wildlife Research Station at the Orpen Gate of the Kruger National Park. This is a collaboration with the Faculty of Veterinary Science at the University of Utrecht, the School of Veterinary Medicine at the University of California and the Royal Veterinary College, University of London. Environmental health monitors were appointed with the support of SANParks to assist with research associated with the platform.

New undergraduate and postgraduate residences and a postgraduate student centre were inaugurated. Funding of R92 million was approved for new infrastructure, including additional residences, a multipurpose laboratory, two skills laboratories and modifications to existing lecture facilities to accommodate an increased student intake.

The annual intake of students to the veterinary programme has been increased by more than

35%



GORDON INSTITUTE OF BUSINESS SCIENCE

GIBS has consistently been rated as one of the leading business schools in Africa. In May the Institute's stature was reaffirmed when it was ranked as one of the top business schools globally by the *Financial Times*, the only African business school listed in the top 50 worldwide for its executive education programmes. This is the ninth consecutive year that GIBS has attained this global ranking.

In May the GIBS MBA was accredited for a further five-year period by the Association of MBAs (AMBA) International Academic Advisory Board, while the DBA degree was conditionally accredited until 2017. At this stage of the business school's development it is appropriate to pursue a second international accreditation, and GIBS's next objective is recognition by the prestigious Association to Advance Collegiate Schools of Business (AACSB).

The GIBS MBA remains the Institute's flagship qualification and 269 full-time and part-time MBA degrees were conferred. The University also conferred two DBA degrees on Batohi Shanil and Nicola Kleyn, respectively.

The research output of the school increased with the publication of 19 academic articles, nine of them in respected international journals. The MBA research process managed more than 230 research reports through an established group of more than 60 supervisors and external examiners. GIBS produced five book titles, three of which are accredited academic publications.

Management changes at GIBS included the appointment of Prof Nick Binedell as Dean and Mr Jonathan Cook as Director with effect from 1 January. Prof Helena Barnard took up the position of Director: Research from 1 July and as head of the GIBS DBA programme from December 2012.

The GIBS Corporate Education (CE) unit, incorporating the Executive Education (EE) and Company Specific Programmes (CSP) teams, incorporated two capability centres – technology-enabled learning (TEL) and personal and applied learning (PAL) that helped differentiate the GIBS CE offering and reinforced the GIBS brand. CSP provided programmes for over 62 clients, delivering 117 programmes in 27 countries. EE had its best year since 2008, largely due to a redesign of the portfolio in order to focus on the needs of corporate South Africa.

GIBS also launched its online presence with *GIBSdirect*. The strategy is for *GIBSdirect* to become an online portal for multiple programmes and courses with the initial offering based on the Programme for Management Development, aimed at those in middle management.

The marketing, brand-building and public relations activities of GIBS are professionally managed and have a positive long-term impact on the overall brand and reputation of the



Dean: Prof Nick Binedell

school. Significant media coverage was achieved, representing a 21% increase over 2011. A high-quality quarterly magazine, *Acumen*, was launched in August. The publication is an integral part of GIBS's plan to grow and develop the school's visibility across new and traditional media genres.

Another highlight was the selection of GIBS to host the Academy of Management's Africa conference in January 2013. The Academy of Management is the pre-eminent organisation worldwide for management academics, with about 18 000 members in more than 100 countries. The conference was a milestone both for GIBS and the Academy of Management as it was the first to be held outside the United States. The call for hosting proposals was competitive and GIBS was selected from 42 bidders.

The GIBS campus continues to grow and phase 3 of the building programme has commenced. The overall building plan will increase the available classroom space by 20%, ensuring that GIBS continues to offer a complete business education solution for the leaders of tomorrow.

As a business-focused institution, GIBS continues to have a high level impact on postgraduate business education in South Africa and on the business environment. This can be seen in the consistently high level of activity and the number of students and executives engaged with the school at its campuses in Illovo and the Johannesburg central business district, and in more than 20 countries where GIBS programmes have been delivered.

“GIBS was ranked as one of the top business schools globally by the *Financial Times*, the only African business school listed in the top 50 worldwide for its executive education programmes.”



Student Life

ARTS AND CULTURE

UP Arts is responsible for promoting arts and culture at the University, supporting the integration of the arts and heritage resources of the University into teaching and research programmes, and facilitating public access to these resources.

Highlights of the year under review included:

- The concert presented at the re-launch of the Aula in August.
- Launches of the following UP Arts books: *Antique porcelains and fine tea-ware*; *Ceramic collections of the University of Pretoria museums*; and *Villa in Bronze*; and
- Participation of two UP Arts choirs (as South Africa's representatives) at international events. The multi-cultural *a cappella* singing group, MEDU, participated in the World Event for Young Artists (WEYA) in Nottingham, England and the UP Youth Choir took part in a cultural exchange with Belgium, performing at the 60th European Music Festival for Young People. Another UP Arts choir, Ovuwa, participated in an exchange with the First Congregational Church of Old Lyme in the US state of Connecticut.

A GOLDEN YEAR FOR SPORT

TuksSport prizes the values of commitment, perseverance, discipline and loyalty – the values that laid the foundation for the successes that made 2012 a golden year for sport at UP.

There were many sporting achievements that made the University proud – from increased participation by students in the house leagues, to domination of provincial leagues and consistent performance in inter-university leagues, and winning medals at the pinnacle of sport, the Olympic and Paralympic Games.

A solid sports programme that consistently produces positive results requires a myriad of complex interactions. The successes achieved at TuksSport and the High Performance Centre (hpc™) are due to the contributions of various people at many levels. Every athlete is unique, and individual differences are more pronounced in the case of high-performance athletes. At UP the fundamental philosophy is to offer an athlete-centred programme driven by coaches. Most of the University's coaches and administrators are volunteers and their unselfish contribution to UP's sports programme is greatly appreciated.

Behind the front runners and their coaches, is a support system that made a critical contribution to the success of 2012. The hpc™, the Institute for Sports Research (ISR) and the Section for Sports Medicine played an invaluable role in supporting UP's international athletes.

The scientists, sports psychologists, physicians, conditioning specialists, biomechanicists, nutritionists and other highly-skilled individuals all cooperated to assist the athletes realise their dreams. Volunteers and parents also played crucial roles behind the scenes.

Tuks teams won

13
gold,
10
silver and
7

bronze medals in the University Sports South Africa (USSA) competitions.

At the annual colours and awards function, the University honoured the outstanding achievements of its Olympic medalists, the Varsity Cup rugby champions, the National First Division football champions, as well as 433 athletes and coaches across a wide range of sporting codes.

In total, 110 Tukkies represented South Africa at senior national level, 90 as athletes and 20 as coaches. One UP athlete represented Mozambique at the 2012 Olympics. A further 76 athletes and coaches participated in national age group and federation teams, 22 students represented South Africa at international university sport level, and 224 athletes and coaches were members of senior provincial teams.

Tuks teams won 13 gold, 10 silver and seven bronze medals in University Sports South Africa (USSA) competitions. USSA is the umbrella body for student sport in South Africa and governs the annual tournaments in which academic institutions across the country compete.

A contingent of 34 athletes and support staff from the TuksSport system represented South Africa at the London Olympics. Tuks athletes bagged three of the six medals brought home by South Africa. James Thompson, Matthew Brittain, John Smith and Sizwe Ndlovu won gold in the men's Lightweight Fours rowing final, Caster Semenya won silver in the Women's 800m track event, and sprint paddler Bridgitte Hartley won bronze in the Ladies K1 500m.

Three TuksSport athletes and support staff represented South Africa at the London Paralympics. Oscar Pistorius won three medals: gold in the 400m, gold in the 4 x 100m and silver in the 200m.

Junior athletes enrolled at the TuksSport High School and their respective academies linked to the hpc™ also performed exceptionally on the international stage. Wian Sullwald won the World Junior Triathlon Championships in New Zealand, while the TuksSport High School successfully defended their St John's International Golf Trophy. The golf academy also won 26 national titles during the year.

On the athletics front, Albert Janki won a gold medal in the long jump at the Commonwealth Youth Games and silver at the World Youth Championships. In judo, Michaela Whitebooi won the All Africa under 17 Judo Championships.

The hpc™ was once again a venue of choice for international athletes in their preparation for the London Olympics. Of these visiting athletes, 12 won medals, confirming the hpc™ as a world class training venue.

UP's Olympic medalists



James Thompson, Matthew Brittain, John Smith and Sizwe Ndlovu won gold in the men's Lightweight Fours rowing final.



Sprint paddler Bridgitte Hartley won bronze in the Ladies K1 500m.



Caster Semenya won silver in the Ladies 800m track event.

Financial Statements

Income and expenditure

The University's total income increased during the reporting period by R155m to R4 966m. The main source of income remains the block grant received from government, together with earmarked grants in respect of veterinary sciences, clinical training, foundation year programmes, research development and teaching development initiatives. The block grant of R1,52bn in 2012 (2011: R1,48bn) represents an increase of 3,0% on 2011.

The second main source of income, tuition fees, increased by 9% (2011: 7%), although student fees in respect of the University's programme offerings have on average increased by 9,5% (2011: 8,0%). The difference can primarily be ascribed to a moderate decrease in the number of distance student enrolment. The following table provides a summary of the University's sources of income:

Total income of the University of Pretoria in 2012

Income	2012	2011	Change	
	Rm	Rm	Rm	%
Government grants	1 699	1 652	47	3
Tuition fees	1 086	1 000	86	9
Accommodation and meal fees	248	220	28	13 ¹
Investment income – Profits on disposal	105	214	(109)	(51) ²
Interest / dividend income	214	198	16	8
Expected return on plan assets	450	416	34	8
Income from contracts and other	526	474	52	11
Service rendering	495	456	39	9
Donations and gifts	143	181	(38)	(21) ³
Total	4 966	4 811	155	3

Operating expenses increased by 13,5% (2011: 6,6%), from R3,9bn in 2011 to R4,4bn in 2012. The main contributing factors to this increase in operating expenses were utilities and the depreciation of assets.

¹ Accommodation and meal fees were adjusted by averages of 11% and 8% respectively. The difference can primarily be ascribed to the inception of the new Onderstepoort residence.

² Investment income arises from the active management of the University's investment portfolio by external fund managers, in accordance with the Charter of the Investment Committee of Council.

³ An overall increase of R23m was achieved in 2012, if the once-off donation-in-kind of R61m for software is excluded from the 2011 figure.

Investments

At 31 December 2012, the market value of the University's investment portfolio was R5,7 bn (2011: R5,0 bn).

The University's Investment Funds serve four purposes, namely:

1. Meeting part of the short-term requirements of the University – these liabilities have a maximum term of 24 months. The risk profile emphasises the need for capital protection over short periods and a high degree of liquidity needs to be provided.
2. Meeting some of the medium-term liabilities (2 to 5 years) of the University – the risk appetite for these liabilities is a combination of a moderate return relative to inflation plus capital protection over a period of 3 years.
3. Meeting the long-term liabilities (5 years and more) of the University – the main requirement here is a good return relative to inflation. The liquidity requirement is lower than for the other liabilities.
4. A special class of the long-term liabilities is the University's obligation in respect of post-retirement medical aid benefits.

Four investment portfolios have therefore been established. The table below summarises the key results for the various portfolios over the period since inception to 31 December 2012 (performance is shown net of fees):

Portfolio	Primary performance target	Actual returns
Long Term Capital Portfolio	6% p.a. (net of fees) out-performance of consumer price inflation over any rolling 7-year period	5,9% p.a. real over 7 years 6,9% p.a. real since inception
Stable Portfolio	3,5% p.a. (net of fees) out-performance of consumer price inflation over any rolling 3-year period	3,4% p.a. real over 3 years 3,2% p.a. real since inception
Money Market Portfolio	1,5% p.a. (net of fees) out-performance of consumer price inflation over 1 year	0,9 % real over 1 year 2,1% real since inception
Continuation Medical Aid Portfolio	5,5% p.a. out-performance of consumer price inflation over any rolling 7-year period	6,2% p.a. real over 7 years 7,6% real since inception

Financial aid to students, 2012 and 2011

	2012	2011
	Rm	Rm
BURSARIES		
Awarded from own funds:	122.55	106.89
Awarded from funds allocated to UP:	184.93	141.24
Awarded by external organisations and administered by UP:	222.83	174.12
LOANS	219.56	208.80
TOTAL: BURSARIES AND LOANS	749,87	631,05

UNIVERSITY OF PRETORIA and its subsidiaries

SUMMARISED CONSOLIDATED STATEMENT OF FINANCIAL POSITION AT 31 DECEMBER 2012

	2012	2011
	Rm	Rm
ASSETS		
Non-current assets	7,589	6,627
Property, plant and equipment	2,967	2,741
Intangible assets	274	268
Available-for-sale investments	3,894	3,075
Investment in associate companies	1	2
Defined benefit pension asset	-	48
Defined benefit medical asset	395	401
Non-current loans and receivables	58	92
Current assets	2,224	2,254
Inventories	11	10
Defined benefit pension asset	-	5
Receivables and prepayments	411	341
Cash and cash equivalents	1,802	1,898
Total assets	9,813	8,881
EQUITY AND LIABILITIES		
Total funds	8,166	7,429
Non-distributable reserves	682	353
Available-for-sale investment revaluation		
Reserve funds		
Restricted funds	4,358	4,238
Council designated funds	3,126	2,838
Non-controlling interest	(9)	(7)
Non-current liabilities	439	377
Borrowings	22	18
Defined benefit provident fund liability	26	3
Defined benefit pension liability	3	-
Finance lease obligation	1	-
Deferred income	348	311
Agency funds	39	45

Current liabilities	1,217	1,082
Trade payables, accruals and other liabilities	524	470
Deferred income	440	400
Student deposits	252	211
Finance lease obligation	1	-
Provisions	-	1
Total funds and liabilities	9,813	8,881

UNIVERSITY OF PRETORIA
and its subsidiaries

SUMMARISED CONSOLIDATED INCOME STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2012

	2012	2011
	Rm	Rm
Operating revenue	4,167	3,985
Less operating expenses	4,043	3,579
Staff costs	2,052	1,851
Other operating expenses	1,737	1,519
Depreciation and amortisation	254	209
Net surplus from operations	124	406
Income from investments	769	828
Other non-recurrent income	31	(1)
Finance expense	(365)	(304)
Other non-recurrent expenses	(4)	(3)
Surplus before tax	555	926
Less tax	-	-
Surplus for the year	555	926
Surplus for the year attributed to:	555	926
University of Pretoria	557	928
Non-controlling interest	(2)	(2)

SUMMARISED CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2012

	2012	2011
	Rm	Rm
Surplus for the year	555	926
Other comprehensive income for the year	181	(273)
Actuarial gain/(loss) on defined benefit medical plan	(52)	(71)
Actuarial gain/(loss) on defined benefit pension plan	(66)	(60)
Actuarial loss on defined benefit provident plan	(31)	(22)
Fair value adjustment on available-for-sale investments	330	(120)
Total comprehensive income for the year	736	653
Total comprehensive income attributed to:	736	653
University of Pretoria	738	655
Non-controlling interest	(2)	(2)

UNIVERSITY OF PRETORIA

and its subsidiaries

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31 DECEMBER 2012

	Unrestricted operating fund	Council designated and restricted funds – other	Council designated and restricted property, plant and equipment funds	Restricted student accommodation fund	Total
	Rm	Rm	Rm	Rm	Rm
Balance at 31-12-2010: credit	125	3,325	3,297	27	6,774
Net (decrease) / increase in funds	(54)	226	510	(27)	655
Net income - surplus	288	550	57	32	927
Other comprehensive income	-	(272)	-	-	(272)
Net transfers (to) / from other funds	(342)	(52)	453	(59)	-
Balance at 31-12-2011: credit	71	3,551	3,807	-	7,429
Non-distributable reserves	-	353	-	-	353
Council designated	71	2,239	528	-	2,838
Restricted - other	-	959	3,279	-	4,238
Balance at 31-12-2011: credit	71	3,551	3,807	-	7,429
Net (decrease) / increase in funds	(57)	708	173	(87)	737
Net income - surplus	135	332	14	76	557
Other comprehensive income	-	180	-	-	180
Net transfers (to) / from other funds	(192)	196	159	(163)	-
Balance at 31-12-2012: credit	14	4,259	3,980	(87)	8,166
Non-distributable reserves	-	682	-	-	682
Council designated	14	2,675	437	-	3,126
Restricted - other	-	902	3,543	(87)	4,358

UNIVERSITY OF PRETORIA

and its subsidiaries

CONSOLIDATED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31 DECEMBER 2012

	2012 Rm	2011 Rm
CASH FLOW FROM OPERATING ACTIVITIES	762	865
Cash generated from operations	553	668
Interest and dividend income	214	198
Finance expense	(5)	(1)
CASH FLOW FROM INVESTING ACTIVITIES	(862)	(1,377)
Purchase of property, plant and equipment	(450)	(737)
Purchase of intangible assets	(38)	(122)
Increase in available-for-sale investments	(1,208)	(1,917)
Proceeds on disposal of property, plant and equipment	10	1
Proceeds on disposal of investments	824	1,398
CASH FLOW FROM FINANCING ACTIVITIES	4	3
Increase in interest-bearing borrowings	4	3
INCREASE IN CASH AND CASH EQUIVALENTS FOR THE YEAR	(96)	(509)
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF YEAR	1,898	2,407
CASH AND CASH EQUIVALENTS AT THE END OF YEAR	1,802	1,898



AULA



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