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UNIVERSITY OF  
STELLENBOSCH

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FACULTY REPORTS

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The *raison d'être* of Stellenbosch University is to create and sustain an environment in which knowledge can be discovered, shared and applied for the benefit of the community. This process should take place in a way that shows commitment to the scholarly ideal of excellence in scientific practice.

The academic focus is essential to the success of these primary processes and Stellenbosch University has already attained high regard in the international academic community on the basis of outstanding teaching and research.

The University houses ten faculties, namely Agrisciences, Arts, Economic and Management Sciences, Education, Engineering, Health Sciences, Law, Military Science,

Science and Theology. Detailed information on the undergraduate and postgraduate teaching programmes offered by these faculties, and further information on the faculties themselves, may be obtained on the University website at <http://www.sun.ac.za>.

The ten faculties are housed on four campuses. Besides the main campus in Stellenbosch, there are also the Tygerberg campus (Health Sciences), the Bellville Park campus (the University of Stellenbosch Business School and the School of Public Management and Planning) and the Saldanha campus for students in Military Science.

Details of the highlights of the various faculties follow below.

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FACULTY OF AGRISCIENCES

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PROF LEOPOLDT VAN HUYSTEEN  
*Dean of Faculty of Agrisciences*

During 2006, the Faculty of Agrisciences expanded its mission, namely to be the preferred provider of world-class research, teaching and service to the agricultural and forestry industries in South Africa, to the rest of Africa.

Community involvement was carried out in the following ways:

- The Department of Conservation Ecology and Entomology offers computer literacy classes and vocational guidance to learners at Kayamandi High School and has extended the project to four high schools in Atlantis.
- The Department of Food Science undertakes research with the Western Cape Department of Agriculture and a private producer to investigate the potential of the carob tree (*Ceratonia siliqua*) as an alternative source of food for the low-income group in South Africa. The beans of this tree are rich in sugar, fibre and proteins.
- The Department of Viticulture and Oenology continued with its community interaction project with the Elgin Learning Foundation. Three hectares of Sauvignon Blanc grapes were planted in 2006 and the lecturers and students followed the department's garagiste winemaking course.

The faculty continues to liaise closely with various agricultural industries:

- Industrial demand led to the faculty resuming its fynbos research and training programme. Dr Lynn Hoffman, who has done intensive research on the shift in the flowering time of certain protea cultivars, was appointed as lecturer with the purpose of further expanding the University's fynbos programme.
- A number of lecturers in Horticultural Science were involved in the training of junior and middle management on deciduous fruit farms.
- The Aquatic Research Group of the Department of Genetics received an Innovation Fund Project Award of R6 million to work on the genetic improvement of indigenous abalone. The abalone industry provided a further R6 million, as well as support in the form of breeding material, infrastructure and technical support for the research.
- The Department of Conservation Ecology and Entomology plays an important role in research on and technology development in clean and green production practices, such as the Biodiversity and Wine Initiative and the Integrated Pest Management programme (IPM) for high-value export industries.
- The Department of Forest and Wood Science supports South African building contractors through training and skills development.
- Wood scientists and oenologists of the faculty offer joint information sessions on cheaper alternative wood products to winemakers in seven wine districts.

The faculty's mission is underwritten by the condition that the earth's natural resources should be utilised in a sustainable manner. In this regard the faculty works closely with the government.

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- The Department of Genetics presents the Western Cape Biofuel Symposium in collaboration with the Western Cape Renewable Energy Task Team and the Western Cape Department of Agriculture.
- Dr Stephany Midgley of the Department of Horticultural Science assists in the investigation of the effect of global warming on the economy of the Western Cape.
- The Department of Conservation Ecology and Entomology is closely involved in the Work for Water programme, the repair of two of the islands in the Seychelles, the development of protocols for determining the environmental risks of genetically modified organisms (GMOs) in South Africa, supporting research on the repair of war damage in Southern Sudan, cooperation with National Parks and the Department of Water Affairs and Forestry with regard to the repair of soil and the compilation of the Biodiversity Indicator Development Plan to control exotic invasive plants.

The sixth International Triticale Symposium and the International Vitis Virus Conference were presented locally.

### Awards and achievements

- Five postgraduate students received the Young Plant Pathologist Award during the annual conference of the SA Society for Plant Pathology.
- Dr Monique Zaahl received the sought-after "Best Emerging Young Woman Scientist" award from the Department of Science and Technology.
- Mr Herman Roux and Prof R de V Pienaar of the Department of Genetics were granted honorary membership of the International Triticale Association for their contribution to the international development of triticale.

- Dr Wessel du Toit received the prize for the Best Young Researcher from the South African Society for Oenology and Viticulture.

- Dr Victoria Carey received an Erasmus Mundus financial grant as visiting academic in France.
- Profs Michael Samways of the Department of Conservation Ecology and Entomology and Frans Marais of Genetics received the Rector's Award for Excellence in Research. Dr Renate Hillermann-Rebello of Genetics received the Rector's Award for Excellence in Teaching and Mr Edmund Lakey of the Experimental Cellar (Department of Viticulture and Oenology) received the Rector's Award for Excellence in Service for non-academic staff.
- Dr Maret du Toit was appointed as president of the South African Association for Oenology and Viticulture for 2007.
- Dr Viresh Ramburan of SunBio was granted the Cochran Fellowship of the Department of Agriculture.
- Prof Sue Milton of the Department of Conservation Ecology and Entomology received honorary membership of the Ecological Society of America.
- The SA Society for Animal Sciences (SASAS) awarded their President's Award to Prof Schalk Cloete, the silver medal to Prof Louw Hoffman and the bronze medal to Dr Helet Lambrechts, all of the Department of Animal Sciences.
- The 2006 Petit Verdot wine of the Welgevallen Training and Research Cellar won a bronze medal at the National New Wine Show.
- The faculty's dairy herd won silver in the Western Cape Master Dairyman competition.

## MEETING INDUSTRY NEEDS

*At the request of the South African fynbos industry, Dr Lynn Hoffman of the Horticultural Science Department, Faculty of Agrisciences, was appointed to re-establish a floriculture module at the undergraduate level and also to manage a strong research programme aimed at strengthening the fynbos export industry as an important branch of agriculture in the Western Cape. It is important to Stellenbosch University, as a role player in South African society, to be able to respond to the needs of an industry which plays a major commercial and employment provision role in the Western Cape.*



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### FACULTY OF ARTS



PROF HENNIE KOTZE  
*Dean of the Faculty of Arts*

For the Faculty of Arts (to be known as Arts and Social Sciences as from 2007), 2006 was a year characterised by training and in-service training – training for the staff and in-service training for the management team.

At the same time, the Africa outreach initiative launched in 2005 was taken further.

The dean's office organised two faculty-wide training opportunities for staff. These entailed:

- financial management development, presented to departmental chairpersons by the Finance Division;
- training by the Centre for Teaching and Learning in the use of the Turnitin program, which is used to identify potential cases of plagiarism, particularly of international sources.

There was also a unique case of in-service training in 2006. It was the first full calendar year with an extended executive management structure in which the dean was assisted by three deputy deans. They represent the three subject group environments in the faculty, namely Arts, Social Sciences and Languages. This management team had to help develop new methods of operation and map new boundaries. With more decentralised management functions, the different subject groups that represent the diversity of disciplines in the faculty could be considerably more proactive with regard to strategic initiatives, under the leadership of the deputy deans. Examples of this, particularly at the macro-management level, are:

- guidance for further aligning the departmental business plans with the faculty's Strategic Framework – in this regard the high positive operating target (a progressive increase in the faculty's profitability) remains a challenge;
- calibration of the performance evaluation process at departmental and faculty level;
- compilation of acceptable evaluation criteria for creative research outputs in the arts and languages, which undoubtedly is a first for the University;

- holding a workshop for deans with deans in the arts and social sciences faculties of leading universities elsewhere in Africa (Botswana, Dar es Salaam, Malawi and Makerere), with a view to establishing a flagship postgraduate school of arts and social sciences at Stellenbosch in which certain European universities will also cooperate; the financing of this school will be a priority in the next year or so.

All the training and the management structures are aimed at the faculty's central business, viz. teaching, research and community interaction. In addition to the 287 special students, a total of 3 011 undergraduate students were registered in the faculty in 2006. This is an increase of close on 5% in comparison to the previous year and thus a continuation of the growth trend over the past few years – once again proof that the "market" has taken note of our relevant undergraduate degree programmes.

Postgraduate enrolment (1 369 in 2006), which represents approximately 30% of the faculty's students, increased by 4% and provides a welcome indication of the importance of a second degree in today's knowledge economy. The newly instituted Postgraduate Examinations Office not only lightened the administrative workload of the teaching staff, but undoubtedly established a high standard of quality assurance for the average of 125 research master's theses and 25 doctoral dissertations that are produced by the faculty every year.

Besides the significant number of subsidised publications (20% of those at the University as a whole), there were a number of individual research achievements, of which the following are examples:

- Prof Paul Cilliers (Philosophy) is the first non-scientist to receive the Harry Oppenheimer Fellowship – this is the single largest South African award for an individual to do research overseas.
- Prof Anton van Niekerk (Philosophy) was invited to act as professor extraordinary for the applied ethics programme of the highly rated Erasmus Mundus Project in Europe.
- Dr Corvin Matei, a senior lecturer in the Department of Music, was invited to direct three Romanian orchestras (while the temperature outside was minus 20 degrees).
- The Drama Department won the sought-after Sanlam Prize for Afrikaans Theatre with their performance of *Slaghuis*, written by Willem Anker and directed by Marthinus Basson.



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By appointing a Director: Community Interaction, Stellenbosch University has given new impetus to this important matter. And the faculty took the lead by involving the Director, Mr Jerome Slamat, in a seminar on community interaction during which a number of community and service-learning projects were exhibited in the faculty and discussed.

Against the above background of increasing student numbers and research outputs, it is significant that the number of full-time staff of the faculty has remained virtually unchanged over the past few years. These successes can be ascribed only to the loyal team of academics and support service staff who have been working even harder, and who have also been forced – in the language of the knowledge economy – to work even more “intelligently”.

### FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES



PROF JOHANN DE VILLIERS  
*Dean of the Faculty of Economic and  
Management Sciences*

The Faculty of Economic and Management Sciences is the largest faculty at the University. In 2006, the faculty had a total of 4 230 undergraduate and 2 334 postgraduate students. In comparison with the student numbers in 2005, this shows a moderate growth of 2,4% in undergraduate student numbers and a high growth of 9,9% in postgraduate numbers.

The larger number of postgraduate students in 2006 supported the University's strategic objective of consistently extending postgraduate study. This trend was strengthened by the establishment of new Postgraduate Diplomas in Financial Planning, Marketing and Actuarial Science in 2006. Further growth can be ascribed to programmes that were established recently and that attracted even larger numbers of students in 2006. Among these are the Postgraduate Diploma in HIV/Aids Management, the MPhil in HIV/Aids Management, and the Master's in Development Finance. The trend is emerging that increasing numbers of students from other countries in Africa are enrolling for these programmes, as well as for the Honours and MComm programmes in Economics. The faculty hereby contributes to the establishment of scientific capacity in Africa, extending beyond the borders of this country.

The faculty's postgraduate programmes are widely acknowledged. In 2006, formal acknowledgement was added when the University's Business School (USB) was granted membership of the European Doctoral Association in Management and Business Administration (EDAMBA). The USB is the first business school outside Europe to obtain this membership. It represents a significant addition to

the USB's current portfolio of international accreditation, which includes EQUIS accreditation from the European Foundation for Management Development (EFMD) and AMBA accreditation from the Association of MBAs.

The success of our teaching is determined in part by the acknowledgement that our students receive from outside the University. Three students of the USB beat 28 teams from American business schools during a case study-solving competition that was held in the USA by the National Black MBA Association.

The honours essay by a student in the Department of Economics, Mr Dieter von Fintel, was judged the best honours essay in South Africa by the Economic Society of South Africa and he was awarded the ABSA Prize.

It is a considerable challenge to provide large numbers of students with excellent teaching with only limited resources. Further challenges facing the faculty are improving the diversity of our student corps and improving our through-flow rates. An exciting initiative that could contribute to both diversity and through-flow rates is the decision of the South African Institute for Chartered Accountants (SAICA) to allow their bursary holders from previously disadvantaged population groups who prefer tuition in Afrikaans to register with us as BAcc or BAccHons students. This agreement with SAICA makes provision for 20 first-year BAcc students in 2007 and groups of approximately 50 new first-year BAcc students every year thereafter. Our Department of Accounting is committed to providing these students with full support to ensure that this programme eventually contributes to the pool of chartered accountants from the previously disadvantaged population groups.

The faculty also contributed to academic development in general during 2006 by presenting a number of conferences in various disciplines. Among the highlights were the conference of the World Conservation Learning Network, which was hosted by the School of Public Management and Planning in May, and the conference of the South African Statistical Association in November, which was hosted by the Department of Statistics and Actuarial Science.

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One of the objectives of the faculty is to put our knowledge base at the disposal of the broader community as a knowledge partner. In the course of 2006 there were a number of initiatives on different fronts in this regard.

The Department of Business Management, in conjunction with Maties Community Service, presented a marketing course for members of the local community. The School of Public Management and Planning was involved in development projects. A consulting project for the Swartland Municipality was singled out as the best project in Local Economic Development in 2006 by

the Department of Trade and Industry. The Centre for Supply Chain Management was founded during 2006 as a research and service institution in the Department of Logistics in order to promote knowledge and the application of supply chain management principles. The Bureau for Economic Research introduced an internship programme in 2006 that is sponsored by Afrifocus Securities and Kagiso Trust Investments. The aim of this programme is to provide practical training over a period of one year to suitably qualified candidates from the previously disadvantaged population groups so that they are enabled to work as economists in the private sector.

### FACULTY OF EDUCATION



PROF TOM PARK  
*Dean of the Faculty of Education*

In 2006, the Faculty of Education could boast with achievements in all three key performance areas of the University. The faculty's vision to be a respected and preferred knowledge partner for educationists remained an important motivator in

presenting excellent teaching and research programmes, as well as needs-driven community interaction projects.

A large number of research projects were undertaken, the results of which were published in accredited journals and/or presented at national and international subject conferences. Ten PhD students completed their studies in the faculty in 2006. The research partnerships with a number of foreign universities were continued and various international guests were received by the faculty as research partners and/or visiting lecturers. Three members of the teaching staff were awarded NRF ratings in 2006, viz. Prof Yusef Waghid (C2), and Drs B van Wyk (L) and Chris Reddy (L).

The academic offering of the faculty is adapted continuously to prepare the students to be able to tackle the ever-changing challenges of teaching practice with confidence. The quality and relevance of the faculty's academic programmes were confirmed during the past two years by the outcomes of the Council on Higher Education's professional peer reviews.

The Higher Education Quality Committee (HEQC), which evaluated all South African MEd programmes in Education Management in 2005, announced officially in 2006 that the Faculty of Education is one of the few faculties in the country whose MEd programme in Education

Policy Studies had qualified for full accreditation. In 2006, three other academic programmes of the faculty, namely the BED, the Postgraduate Certificate in Education and the Advanced Certificate in Education were also evaluated by the HEQC. All three programmes received full accreditation. This special honour provides confirmation of the high quality of the faculty's undergraduate and postgraduate academic offering.

More than 100 students have already successfully completed the BEdHons programme, which has been presented by means of telematic contact sessions, self-study packages and a continuous tutoring system since 2004. Through this programme, the faculty also provides a valuable service to practising teachers who cannot register for the residential honours programme because of their work circumstances.

Prof Jan Heystek was appointed as associate professor and Dr Vusi Mncube as lecturer in the Department of Education Policy Studies. Prof Cornelia Roux was promoted to professor and Dr Christa van der Walt to associate professor in the Department of Curriculum Studies, while Mrs Charmaine Louw was appointed as junior lecturer in the Department of Educational Psychology.

Dr Estelle Kruger received the Rector's Award for Excellence in Teaching and Mmes Sally le Roux and Zenda Jansen received the Rector's Award for Excellence in Service.

As from 2006, the *South African Journal of Higher Education* has been based at the faculty under the editorship of Prof Waghid. Prof Waghid was also elected as an executive member of the International Network of Philosophers of Education, and as president of the Education Association of South Africa. Prof Doria Daniels was appointed regional editor of the *Africa International Journal of Qualitative Studies in Education*. Prof Lesley le Grange was appointed to the editorial board of the *Journal of Educational Studies*. Mr Alwyn Olivier was elected vice-president of the *Association for Mathematics Education of South Africa* for a period of two years. Mr Peter Beets was appointed by Umaluzi as the national assessor for Geography for the National Senior Certificate.



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Prof Estelle Swart and Mrs Marietjie Oswald were included in an international research team, The International Inclusive Education Research Lab, which is funded by UNESCO. Dr Kallie van Deventer was invited to a workshop on Physical Education that was presented by the United Nations Economic and Social Council (ECOSOC) in collaboration with the World Sports Alliance (WSA).

Community interaction initiatives in the form of short courses, seminars and teaching and sport development programmes were continued in 2006. The faculty's Institute for Mathematics and Science Teaching (IMSTUS), which undertook a number of successful projects for learners and teachers from previously disadvantaged communities in 2006, also presented the holistic post-matric programme, SciMathUS. With the aid of this programme, 39 students who could not gain entry to higher education at the end of their school careers qualified for university study at the end of 2006.

The faculty's Unit for Educational Psychology, the Biokinetics Centre that is run in partnership with the Medi-Clinic Private Hospital Group, the Institute for Sport Science, the Environmental Education Programme and the Centre for Higher and Adult Education all provided active service to the broader community.

At the end of 2006, the University Council appointed Prof Yusef Waghid as Dean of the Faculty of Education as of 1 April 2007 for the next five-year term. The faculty extends its best wishes to Yusef for this immense and responsible task.

The Faculty of Education can look back at a very prosperous 2006 with pride.

### FACULTY OF ENGINEERING



PROF ARNOLD SCHOONWINKEL  
*Dean for the Faculty of  
Engineering*

The year 2006 was a proud one for the Faculty of Engineering. A number of its students excelled in national competitions. Dr Wernich de Villiers, a postdoctoral fellow, won first prize and R300 000 in the Department of Science and Technology's annual Innovation

Competition for his portable measuring instrument for the maintenance of a component on the communication system on high voltage power lines. Former Matie Engineering student, Gerrit Smith, was awarded second place for a submersible water pump that works with solar power. Christie Dorfling, the best student ever in the Department of Process Engineering, won the Eskom Chairman's Award in the category for university students. This was the third year in a row that a Matie won the prize in this competition for being the best engineering student in the country.

Women students also distinguished themselves. In a competition of the Department of Science and Technology that celebrates the role of women in science, Dr Cara Schwarz, a postdoctoral fellow, and Annie Chimphango, a master's student, walked away with the honours in their categories. They received prize money of R50 000 and R100 000 respectively.

Phumlani Masondo, with his razor-sharp sense for business, received the Bigen Africa Award for the final-year Civil Engineering student in the country who has most of the characteristics to become a successful business engineer. This prize earned him R15 000 for himself and R10 000 for his department. Tinus Stander, an MScEng student, received the sought-after Golden Key Bursary to the value of US\$10 000 on the basis of his academic achievements and community involvement. Only 12 such bursaries are awarded worldwide each year. To top it all, in a year of many student achievements, Dr Celeste Barnardo of Civil Engineering was awarded the Stellenbosch University Chancellor's Medal for 2006. This is a medal that is awarded every year to the most excellent student studying at Stellenbosch.

Marketing at all levels of society was a priority in the year under review. This effort was strengthened by a brand-new corporate identity that was designed for the faculty so that it conveys a united front. The Dean of Engineering, Prof Arnold Schoonwinkel, and his management team presented an information session for key decision makers in Gauteng and in Stellenbosch to inform them of the faculty's successes, obtain their support for the latest initiatives, enquire about their needs and to establish knowledge partnerships. Approximately 70 top industrialists and government officials were reached through this initiative.

Another marketing initiative was an information session presented to Grade 11 learners who excel in Mathematics and in Physical Science. Bright learners from 40 schools and their parents were informed of the excellent career opportunities offered by Engineering. The response to the invitation was incredibly positive and the day went so well





#### SATELLITE COMPLETED FOR DST

*Faculty of Engineering – home to innovation. After undergoing rigorous tests, the completed Sumbandilasat was handed over to the Minister of Science and Technology in 2006. The University managed the project while Sun Space built the satellite. The project for the Department of Science and Technology (DST) came to about R36 million, the largest contract yet carried out by Stellenbosch University. Admiring the completed Sumbandilasat, Mr Mosibudi Mangena (left), Minister of Science and Technology, and Prof Sias Mostert.*

Universiteit Stellenbosch



that the concept will be extended to other regions in the country. In addition, undergraduate student recruitment was not only done in the traditional areas, but also in new, fallow regions, particularly Gauteng. A visually stimulating DVD on the faculty and its departments was produced during the year and was used effectively during marketing events.

Postgraduate marketing was continued in all seriousness during the year under review by means of a variety of actions to recruit postgraduate students of quality. Advertisements were placed in national newspapers and in student

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newspapers at other universities, and radio advertisements were launched on university radio stations. A concerted effort was also made at the faculty's own front door by encouraging its final-year students to continue with postgraduate study. The faculty was also marketed internationally at a postgraduate Expo in Beijing, China.

The Dean's management team was strengthened by the appointment of another Deputy Dean, Prof Hansie Knoetze, who will concentrate on teaching and quality assurance. Prof Leon Lorenzen, who is Deputy Dean: Research, was appointed for a further three-year term of office.

### FACULTY OF HEALTH SCIENCES



PROF WYNAND VAN DER MERWE  
*Dean of the Faculty of  
Health Sciences*

In 2006, the Faculty of Health Sciences (FHS) could look back on a history of 50 years that was characterised, on the one hand, by robust growth and development. On the other hand, it was characterised by the demands of change that continuously compelled

the management and staff to think in new and innovative ways on the faculty's future and positioning in a national and international health environment that had changed radically, and continues to change.

The implementation of a new management structure, as well as departmental and support structures, at the beginning of 2006 also heralded a watershed year that introduced a new era of stability and growth in the faculty. After a decade of change and upheaval, it meant that the management and staff could focus exclusively on the faculty's central functions, namely excellent research, teaching, and community service and interaction.

At the level of postgraduate teaching, the faculty's academic offering was extended considerably through a number of new programmes – some of which are unique in South Africa. These include programmes in hyperbaric medicine and in infectious diseases. The new MMed, MPhil and MSc programmes in Emergency Medicine, which are offered in conjunction with the University of Cape Town, are also the only ones of their kind in the country. They are so popular that there is a waiting list of doctors who wish to register for the MMed programme.

The faculty received international recognition for excellence in a number of fields. An expertise report of the International Atomic Energy Agency (IAEA) singled out the discipline of Nuclear Medicine at Stellenbosch University

and at Tygerberg Hospital as an "example of a Centre of Excellence in Nuclear Medicine". At the same time, specialised expertise in the FHS in the field of radiation emergencies was extended in conjunction with local and international institutions to establish a centre of excellence at the Tygerberg complex for the medical treatment of radiation emergencies in Southern Africa.

One of the highlights in the sphere of research was the award of international accreditation to the laboratory animal research centre at the FHS by the American Association for Assessment and Accreditation for Laboratory Animal Centres (AAALAC). It was the first time that this organisation had accredited a laboratory animal facility in Africa, which puts the faculty in a good position to obtain international funding for laboratory animal research.

The faculty's Centre for Health Sciences Education was established officially in 2006 and the development of a unique MPhil programme in Health Sciences Education was initiated. Stellenbosch University's reputation for excellence in health sciences education and research was confirmed anew when the FAIMER Institute (Foundation for the Advancement of International Medical Education and Research) awarded a fourth fellowship to the FHS. Stellenbosch University currently is the only academic institution in the world with four FAIMER fellows.

There was a considerable increase in foreign funding for research in 2006, from institutions such as the National Institutes of Health in the USA for, among others, HIV and Aids research and for research on prenatal exposure to alcohol in high-risk populations. Clinicians of the FHS and Tygerberg Hospital also received substantial funding for the *South to South Project*, which is aimed at the training of health workers from countries in Africa in the care and treatment of paediatric HIV and Aids. Although the formal audit of research outputs in 2006 still needs to be finalised, provisional figures point to a further increase in subsidy-bearing publications relative to 2005.



International cooperation continues to expand and, in 2006, cooperative agreements were entered into with universities in the Netherlands, Norway and the USA, including agreements on transcontinental teaching and academic exchange programmes.

Locally, the partnership between the FHS and the Medi-Clinic organisation was renewed. In terms of this agreement, Medi-Clinic again undertook to make a considerable amount of money available to the FHS over a period of two years for postgraduate teaching and research. This support has already made virtually indispensable contributions, particularly in strengthening the faculty's postgraduate training platform. At the same time, a number of private practices in Radiology

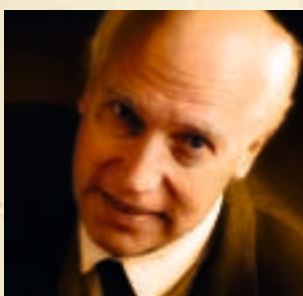
decided to establish a new chair in Radiology in the faculty in 2006 to ensure that research and the training of experts in this highly specialised field remain up

to date and even take the lead in the rapid technological developments in this discipline.

The renewed Medi-Clinic agreement also made provision for seed funding to establish the faculty's new, multidisciplinary Centre for Infectious Diseases in 2006. The new centre formalised and extended previous cooperation and offers an important platform for joint research, with a strong focus on the niche of clinical research, which makes it unique in South Africa.

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### FACULTY OF LAW



PROF GERHARD LUBBE  
Dean of the Faculty of Law

Despite continued uncertainty regarding the deanship, 2006 was a productive year for the Faculty of Law in terms of its activities in the key spheres of teaching, research and community interaction.

With regard to undergraduate teaching,

the policy of limiting the intake of first-year students appears to have yielded positive results for the success rate of students. At the postgraduate level it was decided to phase out the LLM via distance education and to focus the faculty's limited resources on the structured LLM programme. There are indications of an improvement in the through-flow of students in this programme and an increase in the number of candidates who register for master's and doctoral studies involving the preparation of theses and dissertations.

Participation in international moot court competitions such as the Willem C Vis International Commercial Arbitration Moot in Vienna and the African Human Rights Moot Court Competition (Addis Abeba) enables the faculty to maintain an international profile as a teaching institution of excellence. Continuous requests to establish academic exchange agreements confirm the faculty's position as a centre of excellent academic training at the international level. In the year under review, agreements were entered into with the Bucerius Law School in Hamburg and Bern and negotiations were started with the University of Copenhagen.

In the field of research, a number of faculty members published books. Besides the textbook by Prof Philip Sutherland (Mercantile Law), *Competition Law in South Africa*, other publications came from the pens of Prof Andre van der Walt (Public Law and Private Law) and his co-author, Prof GJ Pienaar (North-West University), the fifth edition of *Inleiding tot die Sakereg*, as well as an English translation of the book. Prof van der Walt is sole author of the sixth edition of the *Sakereg Vonnisbundel*. Profs Hanri Mostert and Juanita Pienaar (both of the Department of Private Law and Roman Law), together with Prof PJ Badenhorst (NMMU), were co-authors of the fifth edition of *Silberg & Schoeman's Law of Property*. Among the authors of a large number of chapters in books and articles written by members of the faculty, Profs MJ de Waal and JE du Plessis (both of Private Law and Roman Law) deserve special mention for chapters on "Comparative Succession Law" and "Comparative Law and the Study of Mixed Legal Systems" respectively in *The Oxford Handbook of Comparative Law*, which is edited by Profs Reinhard Zimmermann and Mathias Reimann.

A number of faculty members attended the annual conference of the *Jus Commune Onderzoekschool* of the Universities of Maastricht, Utrecht, Louvain and Amsterdam in Utrecht in November 2006. In collaboration with colleagues from the *Onderzoekschool*, continuous planning is underway for an exploratory workshop on the implications of globalisation to be held at STIAS in Stellenbosch in December 2007. In the course of 2006, the faculty joined the International Association of Law Schools (IALS), an organisation that endeavours to promote research contracts between law faculties on a global scale. Prof Mustaqeem de Gama (Mercantile Law) is a member of the planning committee for the IALS conference on International Mercantile Law that will take place at the Bucerius Law School in April 2008.

On the basis of her expertise in the field of land reform, Prof Juanita Pienaar of the Department of Private Law and Roman Law was appointed as acting judge in the Land Claims Court as from 1 August 2006, a post that she most probably will fill until the middle of 2007.

Regarding public lectures and professional conferences, a highlight was the lecture on "Transformative Constitutionalism" by the Chief Justice, Judge Pius Langa of the Constitutional Court, in the *Ou Hoofgebou* on 9 October 2006. A successful conference on Sport Law, which was opened by Dr Ali Bacher, was presented by the Centre for International and Comparative Labour and Social Security Law (CICLASS) in September.

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Human Rights Day was commemorated on 22 March with a working seminar on security of tenure under the chairpersonship of Prof Sandy Liebenberg, professor in human rights law in the faculty. The papers were published in November 2006 in a special edition of the *ESR Review (Economic & Social Rights Review)* of the University of the Western Cape.

The Legal Aid Clinic continues to play a meaningful role in relation to the clinical training of students and the welfare of the community. In addition to providing services that are typical of those of a general legal practice, the clinic also has specialist expertise at its disposal on issues such as evictions, and participation in the debt relief programme of the Department of Trade and Industry offers the potential to make a significant contribution to an acute social problem.

### FACULTY OF MILITARY SCIENCE



DR EDNA VAN HARTE  
*Dean of the Faculty of  
Military Science*

The Faculty of Military Science was established in 1961 through a contractual agreement between Stellenbosch University and the Department of Defence. Our residential students are selected from the South African Army,

Navy, Air Force, and Military Health Services.

In the year under review, the Military Academy enrolled a number of students from other defence forces, namely one from the Saint Cyr Military Academy in France, one from Mozambique, one from Angola and three from Botswana. The Distance Education Unit, which was established in 2003, celebrated the success of the first two students who completed their BMil degrees within a record time and graduated in 2006.

The challenge facing the faculty in 2006 as a result of a change in the leadership structure of the Military Academy in Saldanha, where the Faculty of Military Science is situated, was overcome through the appointment of an Interim Dean, who officially assumed duty in May 2006.

The visit of the Portfolio Committee on Defence in 2005 and the HEQC Institutional Audit of Stellenbosch University in October 2005 identified certain critical areas in the Military Academy and the Faculty of Military Science that needed attention. As a follow-up to these recommendations, the Dean appointed various task teams in 2006 to focus on curriculum review, research, staff retention, and the

restructuring of the Centre for Military Studies. A risk management assessment workshop was also conducted by KPMG. These reports are all due in 2007.

The School for Security and Africa Studies and the School for Science and Technology were externally evaluated through a peer review process at the end of 2005. Recommendations made in the respective reports are receiving attention.

Transformation remains a big problem for the faculty, although 2006 saw a significant change at management level in the faculty. For the first time in the history of the Military Academy, it boasts the appointment of a black woman, Dr Edna van Harte, as Dean. In addition, the School for Science and Technology appointed its first black chairperson, Dr Noël Jacobs, who holds a PhD in Nuclear Physics. Mr Godwin Ayirebi was appointed as the first black chairperson of the School for Geospatial Studies and Information Systems.

One of our strategic thrusts is to enhance the academic capacity and qualifications of faculty members and postgraduate students. Our uniformed members can improve their qualifications through staff courses, such as the military rank promotion given to Lt TI Theletsane, a newly appointed lecturer in the School for Defence and Organisation Resource Management. We are proud to report that Prof Theo Neethling delivered his inaugural lecture as a professor during 2006, two faculty members were promoted to associate professors, five faculty members received PhDs, and two received master's degrees.

We are committed to a culture of learning and excellence and celebrated the academic achievements of our students at the annual award ceremony for top achievers on 11 December 2006.



## FACULTY REPORTS

Table 1 and 2 below illustrate the number of graduates who received degrees and certificates in 2006.

TABLE 1. STUDENTS WHO RECEIVED FIRST DEGREES IN 2006

PROGRAMME	NO. OF STUDENTS
BMil in Technology	5
BMil in Technology and Defence Management	12
BMil in Security and Africa Studies	8
BMil in War, Environment and Technology	4
BMil in Organisation and Resource Development	12
BMil in Human Organisation and Development	15
<b>Total</b>	<b>56</b>

The MPhil in Security Management was implemented for the first time in January 2006. The Schools for Security and Africa Studies and Human Organisation and Development participated for the first time in the same year in the MPhil programme in Chaplaincy Studies in partnership with the Faculty of Theology.

In 2006, the School for Geospatial Studies and Information Systems focused on setting up the Information Warfare Laboratory. The School for Security and Africa Studies held a successful conference, the 5th War and Society in Africa Conference. They also hosted a

TABLE 2. STUDENTS WHO RECEIVED THE HIGHER CERTIFICATE IN MILITARY STUDIES (HCMS) IN 2006

PROGRAMME	NO. OF STUDENTS
HCMS in Technology	5
HCMS in Organisation and Resource Development	25
HCMS in Human Organisation and Development	32
HCMS in Security and Africa Studies	11
HCMS in Technology and Defence Management	49
<b>Total</b>	<b>122</b>

successful seminar at which Mr Michael Hurley of the US State Department spoke on 9/11 and the changed security agenda, with particular reference to Africa.

Our Centre for Military Studies lost almost all its researchers and is being restructured. We are proud, however, that we managed to publish our *South African Journal of Military Studies, Scientae Militaria*, Volume 34 (2), 2006.

The research output of our School for Security and Africa Studies is illustrated in Table 3 below.

TABLE 3. ILLUSTRATION OF RESEARCH ACTIVITIES OF THE SCHOOL FOR SECURITY AND AFRICA STUDIES

ARTICLES PUBLISHED		PAPERS IN PROCEEDINGS		UNPUBLISHED PAPERS		CHAPTERS IN BOOKS	PHD DISSERTATIONS	SUPERVISION MASTER'S		CO-SUPERVISION PHD	BOOK REVIEWS
Accred-ited	Non-Accred-ited	National	Inter-national	National	Inter-national			Com-pleted	Cur-rent	Com-pleted	Cur-rent
3	2	-	1	-	8	1	4	1	14	-	2
											2

Faculty members and students render community service in the form of providing specialised advice to all the SANDF educational and training institutions and the broader civil society.

### CHIEF RESEARCH OFFICER ON MARION ISLAND

Dr Bettine Jansen van Vuuren of the Centre for Invasion Biology of the Department of Science and Technology/National Research Foundation (DST/NRF), which is housed in the Botany and Zoology Department of Stellenbosch University, is the first woman to be appointed as chief research officer in charge of the scientific programme of a month-long expedition to Marion Island



## FACULTY REPORTS

### FACULTY OF SCIENCE



PROF ALBERT VAN JAARSVELD  
*Dean of the Faculty of Science*

The growing need for scientific and technological excellence in our country means that it is of the utmost importance that the Faculty of Science realises its endeavour to produce world-class students and research. It therefore was

heartening to see which

initiatives in 2006 contributed to the training and research development of our future scientists.

The year ended on a high note with the award to our faculty of three prestigious South African research chairs as part of the new SA Research Chair Initiative. The Chair in Nano-structured Functional Materials was awarded to Prof Len Barbour of the University's Department of Chemistry and Polymer Science, while a Chair in Advanced Macromolecular Structuring, as well as the Chair in Photonics, Ultrafast and Ultra-intense Laser Science will be held by Prof Lubertus Klumperman (currently at Eindhoven University) and Prof Heinrich Schwoerer (currently at Friedrich Schiller University, Jena) respectively.

Other leading initiatives were the establishment of a further two centres of excellence at the Stellenbosch Institute for Advanced Study (STIAS):

- The South African Centre for Epidemiological Modelling (SACEMA), with Prof John Hargrove as director, and
- The National Institute for Theoretical Physics (NITheP), with Prof Hendrik Geyer as interim director.

We hereby also support the new national programme for training in renewable energy of the Faculty of Engineering and the Sustainability Institute.

Among the expansions that provided further support to our research work was the acquisition of an Olympus IX 81 microscope – the first of its kind in Africa – as part of the new Live Cell Imaging Facility in the Department of Physiological Sciences.

Thanks to a donation from our 2005 Science Students' Committee, hotspots were installed in six busy faculty buildings so that laptop computers can go online. Seven e-mail reading stations – part of a campus-wide initiative – were also installed in faculty buildings.

Our researchers published more than 300 research articles in their respective focus areas and registered two patents. In addition, 25 doctoral degrees and 83 master's degrees were awarded in the year under review.

The following lecturers and students were honoured for their work, among others:

- Prof Dirk Laurie (Department of Mathematical Sciences) – the Havenga Prize for Mathematics, Chemistry or Physical Sciences of the *Suid-Afrikaanse Akademie vir Wetenskap en Kuns*.
- Prof Dave Richardson (DST/NRF Centre of Excellence for Invasion Biology (CIB), based in the Department of Botany and Zoology) – the Swiss Hans Sigrist Prize for Scientific Excellence.
- University researchers working on biocomplexity, under the leadership of Prof Albert van Jaarsveld, who cooperated in the United Nations Millennium Assessment Project with 130 other international researchers – the Zayed International Prize for the Environment.

We also produced two category finalists in the National Science and Technology Forum awards, namely:

- Prof Douglas Rawlings (Department of Microbiology) – lifelong scientific contributions, and
- Prof Steven Chown (CIB) – research outputs over the past five years.

Dr Karin Jacobs (Department of Microbiology) was elected to the position of President of the Southern African Association of Plant Pathologists, while Dr Bettine Jansen van Vuuren (Department of Botany and Zoology) was the first woman to lead scientists on Marion Island as chief research officer.

At the end of the year, the Faculty of Science had to bid farewell to our dynamic Dean, Prof Albert van Jaarsveld. He has been appointed vice-president of the National Research Foundation (NRF) and as managing director of Research and Innovation Support and Advancement (RISA). Prof Douglas Rawlings will stand in as Interim Dean in 2007.



## FACULTY REPORTS

The faculty's rightsizing initiative, which ensures more effective and financially meaningful research and training between the disciplines, was given practical shape in 2006 through the merger of the Departments of Computer Science, Mathematics and Applied Mathematics under the banner of the Department of Mathematical Sciences. The Institute for Plant Biotechnology left our ranks to join the Department of Genetics in the Faculty of Agrisciences.

The merger of Geology and Geography to form the new Department of Geology, Geography and Environmental Studies is progressing well, particularly in terms of the planning to house them both in the Chamber of Mines Building. This initiative makes it possible for the first time to jointly manage a BSc and a BA programme with a communal theme from a single multidisciplinary environment.

Space was created in the faculty structures for two part-time Deputy Deans. Prof Andrew Crouch (Physical and Mathematical Sciences) and Prof Lize Korsten

(Biological Sciences, as from July 2007) will pay particular attention to the alignment of the study programme offerings of the focus areas.

Through community initiatives such as the annual Science Winter Week, the GirlHype "Rise Beyond Circumstances" Conference, the Mathematics summer camp, the Imbovane environmental education programme, physics information days and the University's SunZone programme, our staff and students could plough back their knowledge and opportunities into the lives of many high school learners.

### FACULTY OF THEOLOGY



PROF ELNA MOUTON  
*Dean of the Faculty of Theology*

It is with great pleasure that the Faculty of Theology can report on a year of opportunities and highlights. A total of 328 students were registered in the faculty, and 66% of these were postgraduate students. They represent a variety of ecclesiastical traditions, with

growth in the number of black postgraduate students and undergraduate women students. The faculty has 13 permanent teaching staff members – two women and 11 men – and is home to two theological journals. Preparations were undertaken for the commemoration of 150 years of theological training at Stellenbosch in 2009, as well as conscious placement for the future. A collage of activities unfolded in three interdependent discipline groups and five centres:

#### OLD AND NEW TESTAMENT

Here the focus was on the creation of responsible, justifiable methods of Bible interpretation. In their research, colleagues concentrate on themes such as the formation of identity in African contexts based on the book Exodus, corruption and the Bible, intercultural reading experiences, as well as postcolonial, feminist, gay and fundamentalist perspectives on the Bible. Prof Louis Jonker was on sabbatical in Tübingen for the second semester.

#### SYSTEMATIC THEOLOGY AND ECCLESIOLOGY

Negotiations led to the appointment of two women for a contract period of three years – Ms Anlené Taljaard as executive manager of the Beyers Naudé Centre, and Ms Elize Julius as teaching assistant in Ecclesiology. Prof Dirkie Smit was nominated as a researcher at the prestigious Berlin Centre for Advanced Research, and Prof Nico Koopman was invited to do research at the Center of Theological Inquiry in Princeton for ten months.

#### PRACTICAL THEOLOGY AND MISSIOLOGY

Progress was made with the establishment of three master's programmes by means of which the faculty will link internationally and particularly with Africa. Swedish churches again contributed to an MTh in HIV/Aids Ministry in conjunction with a network of East African universities in Kwazulu-Natal, Tanzania and Ethiopia. An MPhil programme that trains chaplains for defence forces in Africa was established to help deal with ethical issues such as war, suffering and violence. Furthermore, it was possible to develop a multifaceted MPhil in Religion and Culture in collaboration with Humboldt University.

#### COMMUNITY-DIRECTED CENTRES

The faculty cooperates with five centres that do community-directed research and provide concrete service to societies – in South Africa, on the continent and internationally. These centres are the Beyers Naudé Centre for Public Theology (BNC), the Unit for Religion and Development Research (URDR), the Centre for Bible Interpretation and Translation in Africa (CEBITA), the Bureau for Continued Theological Training and Research (BUCTER), and the Network for African Congregational Theology (NetACT). Each unit has its own management committee and is responsible for its own budget.

## FACULTY REPORTS

Together with local and international partners, the BNC is currently involved in research projects in a number of public spheres. These promote critical, inclusive dialogue with universities, community organisations and faith communities. In cooperation with Kampen Theological University, a second successful conference was held with the theme *Human dignity at the edges of life*. A former rector of this university and dean of Theology at the Vrije Universiteit was among the guest lecturers at the BNC. Prof Russel Botman was the speaker at a public lecture on leadership in a democratic society that was organised in conjunction with the Kagiso Trust.

This year, URDR concentrated their service-rendering activities on poverty. Training aimed at development and capacity building was provided in two communities – Ravensmead and Kayamandi. Prof Ignatius Swart published a book through African Sun Media with the title, *The Churches and the Development Debate: Perspectives on a Fourth Generation Approach*. An NRF project, Developing a Praxis for Mobilising Faith-based Organisations for Social Capital and Development in the Western Cape, was concluded with an exciting publication, *Religion and Social Development in Post-Apartheid South Africa: Perspectives for critical engagement*.

CEBITA is a joint project of the Department of Ancient Studies and the Old and New Testament Discipline Group. They coordinate and stimulate

interdisciplinary, intercultural and intercontinental research, with Bible Translation in Africa as the focus. The director of CEBITA in the year under review was Prof Christo van der Merwe.

In partnership with churches and organisations, BUCTER provides specialised services to community leaders, with increasing emphasis on national and international congregational networks. The need for continued training for ministers and other leaders, particularly in the ecumenical context, is growing rapidly. Research groups focus on ministry issues such as the healing of memories, the churches' involvement in social need and counselling skills.

NetACT provides valuable service to theological training centres in various countries in Africa – by creating research opportunities and upgrading infrastructure, library facilities and curricula. The chairperson is Dr DT Banda of the Justo Mwale Theological Seminary in Lusaka. The faculty is privileged to be able to make a contribution to the post-graduate training of leaders from other African countries.

## STELLENBOSCH REMEMBERS 'VLAKTE' RESIDENTS

Stellenbosch University gave its support to the publication *In ons Bloed* ("in our blood"), which is about the residents of "Die Vlakte", a group of people uprooted by the Group Areas Act of the previous dispensation and almost forgotten by history. Present at the launch of the book during Stellenbosch University's Heritage Day celebrations were Prof Chris Brink, Alderman Lauretta Maree, executive mayor of Stellenbosch, Mr Willie Ortell, former executive mayor and resident of "Die Vlakte", and Mr Aaron Cupido, a community leader of Idas Valley. At the back is Mr John Abels, chair of the Centre for Community Resurgence, and seated in front is Ms Connie Green (93), oldest resident of "Die Vlakte".

