



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Tukkie

Summer/Somer/Selemo Volume 21 Number 2 2015



Old College House **100** years later



Foto's uit die verlede
Images from the past
Diswantšho tša kgale



Geagte alumni

Ons doen 'n vriendelike beroep op u om ons te help om 'n visuele oorsig van die Fakulteit Regsgeleerdheid sedert die ontstaan daarvan in 1908 tot en met 2008 saam te stel. Ons het reeds foto's uit die 1930's bekom en dit verskyn al op ons webwerf. Die versameling is egter onvolledig en daarom versoek ons u hulp in die verband. Indien u nog kontak met van u klasmaats het, sal ons dit opreg waardeer as u hierdie e-pos ook aan hulle sal stuur.

Stuur asseblief elektroniese kopieë van foto's (en selfs interessante artikels) wat in u besit is aan: Elzet Hurter, Kantoor van die Dekaan, Fakulteit Regsgeleerdheid, Universiteit van Pretoria, Pretoria, 0002 / Elzet.Hurter@up.ac.za. Ons sal met graagte u bydrae erken.

Met vriendelike groete

Dear alumni

We are calling on you to assist us with the compilation of a visual overview of the Faculty of Law since its inception in 1908 up to and including 2008. We managed to obtain photos from the 1930s and these have been uploaded on our website. However, the photographic record is far from complete and we therefore request your assistance in this regard. Please forward this message to classmates with whom you have maintained contact.

Please send electronic copies of photos (and even interesting articles) in your possession to: Elzet Hurter, Office of the Dean, Faculty of Law, University of Pretoria, Pretoria, 0002 / Elzet.Hurter@up.ac.za. We will gladly acknowledge your contribution.

Kind regards

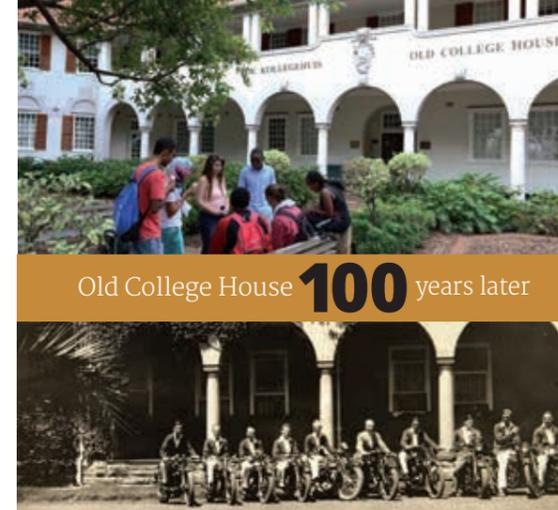
Moithuti wa maloba yo a rategago

Re ipiletša go wena go thuša ka kgoboketšo ya kakaretšo ya pono ya Lefapha la Molao go tloga ge le thoma ka 1908 go fihla le go akaretša 2008. Re kgonne go hwetša diswantšho tša go tloga mengwageng ya 1930 gomme tše di beilwe wepsaeteng ya rena. Le ge go le bjalo, rekoto ya diswantšho e sa le kgole le go fela gomme re kgopela thušo ka se. O kgopelwa go romela molaetša wo go baithuti bao o tsenego le bona bao o kgonago go kgokagana le bona.

O kgopelwa go romela dikopi tša diswantšho tša elektroniki (le ditaodišwana tša go kgahliša) tšeo o di swerego pele go: Elzet Hurter, Ofisi ya Hlogo ya Lefapha, Lefapha la Molao, Yunibesithi ya Pretoria, 0002 Pretoria / Elzet.Hurter@up.ac.za. Re tla amogela ka lethabo go tšentšha letsogo ga gago.

Ka tlhompho

André Boraine
Dekaan: Fakulteit Regsgeleerdheid
Dean: Faculty of Law
Hlogo ya Lefapha: Lefapha la Molao



Old College House **100** years later

Cover photo/Voorbladfoto

In 1916, 100 years ago, Old College House was the first residence built on the Hatfield Campus. Today this elegant building is home to the Centre for the Advancement of Scholarship. Kollege Residence is now located next to the Experimental Farm, together with most other men's residences. Article on p 37.

In 1916, 100 jaar gelede, was Ou Kollegehuis die eerste studentekoshuis wat op die Hatfieldkampus gebou is. Vandag huisves dié sierlike ou gebou die Sentrum vir die Bevordering van Vakgeleerdheid. Kollegehuis is nou soos die meeste ander manskoshuise langs die Proefplaas geleë. Artikel op bl 37.

Opinions expressed in Tukkies are those of the individual concerned and not necessarily the view of the University of Pretoria. Tukkies is published by the University of Pretoria's Department of University Relations.

Menings in Tukkies is dié van die betrokke persoon en nie noodwendig die standpunt van die Universiteit van Pretoria nie. Tukkies word uitgegee deur die Universiteit van Pretoria se Departement Universiteitsbetrekkinge.

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Principal's message

Dear *Tukkie* reader

Towards the end of the year, we often look back to reflect on events and changes at the University. Indeed, 2015 has been a busy year for the University. In this issue we pay special attention to the research achievements of the University's academics. Notable among these was the recent awarding of new research chairs as part of the South African Research Chair Initiative (SARChI) to four outstanding women academics.

It is often said that the only certainty in life is that there will be change. Each year since my appointment as Vice-Chancellor and Principal I have had the sad task of saying farewell and thank you to outstanding colleagues as they retire and move on to a new chapter in their lives. At the Executive level, this year we are saying farewell to Professor Antonie De Klerk and celebrating the contribution he made to UP during his more than 13 years as Executive Director. At the same time change brings new colleagues to the University and in August we welcomed a new dean at the helm of the Humanities Faculty, Professor Vasu Reddy, who in a short space of time has shown that he will lead the Faculty to new heights.

Whilst change brings mixed emotions, it is reassuring that there are strong elements of continuity. This year the University's oldest residence, Kollege, celebrated its centenary, and we marked the Department of Drama's half a century. Plans are underway to celebrate 60 years of engineering in 2016, and there will indeed be much to celebrate as the School of Engineering is a fine example of how the University built on the past to develop into what is now the largest School of Engineering in the country, producing about 27% of new professional engineers annually. A few weeks ago I was a speaker at the Joburg Mining Indaba and there I met many UP alumni who are making us all

proud through their leadership and commitment to building the future of the country.

Also a source of pride is Fred Brownell, the designer of the South African flag who, during the Spring 2015 graduation ceremonies, received a DPhil for his thesis, 'Convergence and unification: The national flag of South Africa (1994) in historical perspective' at the age of 75! Then there was Leandri van der Wat, runner-up of the second season of MasterChef South Africa, who obtained her master's degree in Chemistry (cum laude), and Lungile Sitole, one of the *Mail & Guardian* top 200 young South Africans in 2015 and a recipient of the Women in Science (WISA) award from the Department of Science and Technology in 2014, who received her PhD in Biochemistry. These are only three of the 1 963 degrees awarded in September this year!

It has been a busy year with many highlights and very recently some unexpected events such as a national student protest against fee increases. Quality education is the foundation of any successful nation and strong public universities are an essential component. The nationwide student protest brought attention to the need for increased funding for our universities and it was heartening that President Zuma responded by setting up a Presidential Task Team to identify solutions as quickly as possible. We look forward to the outcome of this effort.

I wish to take this opportunity to thank all our alumni for their continued support of the University and in particular for their generosity in donating to the Tuks Scholarship Fund. On behalf of the University, I wish you and your family a holiday season filled with peace and joy.

Prof Cheryl de la Rey
Vice-Chancellor and Principal

Rektor se boodskap

Beste *Tukkie*-leser

Wanneer die jaar einde se kant toe staan, kyk ons dikwels terug en dink na oor gebeure en veranderinge by die Universiteit. 2015 was inderdaad 'n bedrywige jaar vir die Universiteit. In hierdie uitgawe gee ons spesifiek aandag aan die navorsingsprestasies van UP-akademici. 'n Noemenswaardige prestasie is die onlangse toekenning van nuwe Navorsingsleerstoele as deel van die Suid-Afrikaanse Navorsingsleerstoeleinisiatief (SARChI) aan vier uitstaande vroueakademici.

Daar word dikwels gesê dat al waarvan ons in dié lewe seker kan wees, is dat daar verandering sal wees. Elke jaar sedert my aanstelling as Visekanselier en Rektor was dit my hartseer taak om uitnemende kollegas te bedank en te groet wanneer hulle aftree en 'n nuwe hoofstuk in hul lewens begin. Op Hoofbestuursvlak sê ons vanjaar vaarwel aan professor Antonie de Klerk en vier ons sy bydrae tot UP gedurende sy meer as 13 jaar as Uitvoerende Direkteur. Verandering bring terselfdertyd nuwe kollegas na die Universiteit en in Augustus het ons 'n nuwe dekaan aan die stuur van die Fakulteit Geesteswetenskappe verwelkom: professor Vasu Reddy, wat vinnig-vinnig bewys het dat hy die Fakulteit tot nuwe hoogtes gaan lei.

Te midde van die gemengde emosies wat verandering ontlok, is dit gerusstellend dat daar ook sterk elemente van kontinuiteit is. Die Universiteit se oudste koshuis, Kollege, het sy 100ste bestaansjaar gevier en die Departement Drama haar halfeeufees. Planne word reeds gemaak vir die viering van 60 jaar van ingenieurswese in 2016 en daar gaan inderdaad baie wees om te vier aangesien die Skool vir Ingenieurswese 'n goeie voorbeeld is van hoe die Universiteit op die verlede gebou het om te ontwikkel tot wat vandag die grootste Skool van sy soort in die land is. UP se Skool vir Ingenieurswese lewer jaarliks ongeveer 27% van nuwe professionele ingenieurs. Toe ek 'n klompie weke gelede 'n spreker by die Joburg Mining Indaba was, het ek talle UP-alumni ontmoet op

wie ons almal trots kan wees op grond van hul leierskap en toewyding aan die bou van ons land se toekoms.

Nog 'n bron van trots is Fred Brownell, die ontwerper van die Suid-Afrikaanse vlag, wat tydens die Lentepromosieplegtighede 'n DPhil ontvang het vir sy tesis, 'Convergence and unification: The national flag of South Africa (1994) in historical perspective' – en dit op die ouderdom van 75! En dan was daar Leandri van der Wat, naaswenner in die tweede seisoen van MasterChef South Africa, wat haar meestersgraad in Chemie (cum laude) behaal het, asook Lungile Sitole, een van die *Mail & Guardian* se top 200 jong Suid-Afrikaners in 2015 en 'n ontvanger van die Departement van Wetenskap en Tegnologie se Vroue in Wetenskap-toekenning in 2014, wat haar PhD in Biochemie ontvang het. Dis maar net drie van die 1 963 grade wat in September vanjaar toegeken is!

Dit was 'n besige jaar met vele hoogtepunte asook 'n paar onverwagte verwickelings onlangs soos die nasionale studentepotes teen 'n verhoging in studiefiooie. Kwaliteitopleiding is die grondslag van enige suksesvolle nasie en sterk openbare universiteite is 'n noodsaaklike komponent daarvan. Die landswye studentepotes het die soeklig laat val op die behoefte aan meer befondsing vir ons universiteite en dis bemoedigend dat president Zuma daarop gereageer het deur 'n Presidensiële Taakspan saam te stel om so gou as moontlik met 'n oplossing vorendag te kom. Ons sien uit na die uitkoms hiervan.

Ek wil graag van hierdie geleentheid gebruik maak om al ons alumni te bedank vir hul volgehoue steun aan die Universiteit en veral vir hul ruimhartige bydraes tot die Tuksbeursfonds. Namens die Universiteit wens ek u en u gesin 'n feesseisoen gevul met vrede en vreugde toe.

Prof Cheryl de la Rey
Visekanselier en Rektor



'Sounds of South Africa' in the Aula

The annual Principal's Concert celebrated the rich diversity of culture represented at this University and in South Africa.



1.



2.

'The 2015 Principal's Concert struck a new chord by venturing into a cornucopia of South African sounds. It was an evening of unexpected vibrancy for the UP Symphony Orchestra who, with full rhythm section in tow, began and ended the night with South African pop classics. They were flanked by the full range of the University's music and dance ensembles, and even a theatrical cameo from the Drama Department. The Camerata, Ovuwa, Jazz Ensemble, UP Youth Choir, and soloists provided a massive spectacle that enchanted a large audience. Every conceivable South African sound emerged on stage', writes Thomas M Pooley of the University of South Africa in a review titled 'Viva Musica Africa! Triumphs of Diversity at the University of Pretoria's Principal's Concert 2015'.

Describing what he calls 'A triumphant spectacle of grand execution', the author continues: 'The constant juxtaposition of musics – from Cape Malay and Nuwe Jaar tunes, to Boermusiek and Afrikaans liedjies, gospel, isicathamiya, marabi, and kwela classics, to up-tempo Mango Groove and Juluka numbers – the evening was replete with South African music histories. It was an absolute joy to experience the excitement and exuberance of South Africans doing what they do best: expressing with unique energy and soul their cultural heritage.' ■

1. Preparing to go on stage – lecturer Barbora Tellingering preparing backstage with students.

2. Talented musicians on stage



3.



4.



5.

“The students are so enthusiastic and so talented, the music was so beautiful – it was really an uplifting experience.”



6.



7.



8.



9.



10.

3. The UP Youth Choir, Camerata and Ovuwa join voices in a choral medley called 'Sounds of South Africa'. 4. The University of Pretoria Youth Choir and the Jazz Ensemble with a rendition of traditional 'Kaapse moppies' 5. Soloist Monica Mhangwana with University of Pretoria Ovuwa and Camerata on stage 6. The annual Principal's Concert celebrated 'Sounds of South Africa'. 7. The Vice-Chancellor and Principal, Prof Cheryl de la Rey with the conductor of the award-winning Camerata, Michael Barrett 8. UP Ovuwa takes centre stage during the Principal's Concert. 9. Prof Theo van Wyk (left), Head of UP Arts, Marielle Labuschagne, artistic director Janine Neethling, and creative director Glenn Holtzman, acknowledge the audience's appreciation. 10. Dance by drama students added another dimension to the concert.

UP Chancellor honoured by Unisa

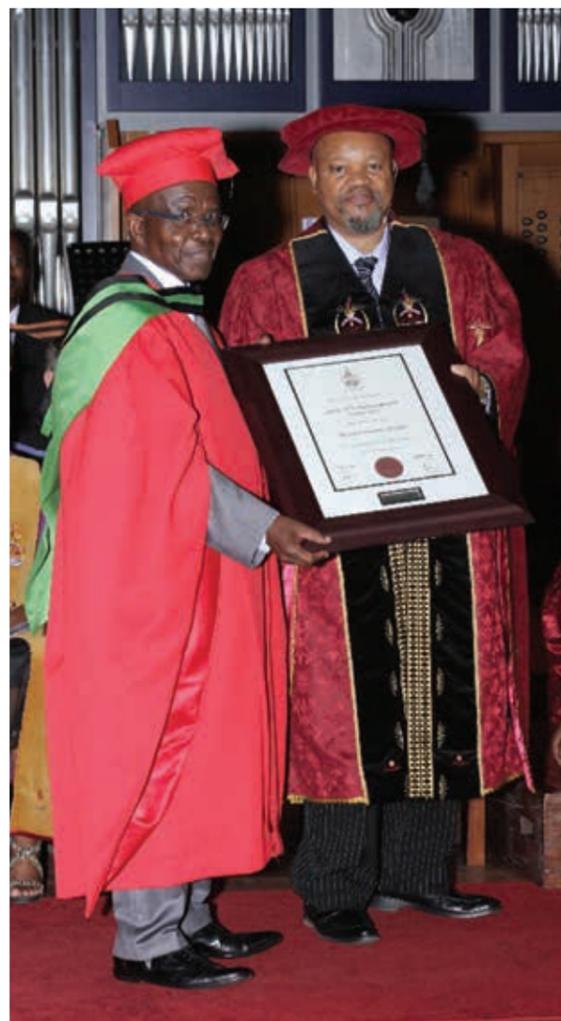
Prof Wiseman Nkuhlu, Chancellor of the University of Pretoria, was awarded an honorary doctorate by the University of South Africa (Unisa) in October 2015.

Prof Nkuhlu was the first black person to qualify as a chartered accountant in South Africa. In order to contribute to the profession and to develop more black accountants Prof Nkuhlu spent time teaching accounting at the University of Fort Hare while maintaining his professional career and his own practice. He was appointed Head of the Department of Accounting at the University of Transkei in 1978. In 1981 he was appointed Professor of Accounting at the University of Transkei. He went on to become Vice-Principal (in 1983) and Vice-Chancellor (in 1987) of the same institution.

Prof Nkuhlu has served on the boards of numerous companies, including Standard Bank of South Africa, Old Mutual, BMW South Africa, Tongaat Hulett and BarlowRand, and has been at the helm of both the Development Bank of South Africa and the Independent Development Trust.

He became an economic adviser to President Thabo Mbeki as the first chairman of the Steering Committee and chief executive of the Secretariat for the New Partnership for Africa's Development (NEPAD). He was later appointed chairman of the Thabo Mbeki Development Fund for the Disabled. He served as chairperson of the Council for Higher Education and was president of the South African Institute of Chartered Accountants. The universities of the Free State, Stellenbosch, Cape Town, Pretoria, Witwatersrand and Fort Hare, as well as the Nelson Mandela Metropolitan University, have all recognised Prof Nkuhlu's contribution to the accounting profession, education, public service and development and have conferred honorary doctorates on him.

In awarding him the degree of Doctor in Accounting Sciences (honoris causa), Unisa especially mentioned the major role he played in the restructuring of higher education institutions, the development of black chartered accountants and his participation in the United Nations high-level discussions on global issues such as climate change and sustainability. ■



Prof Mandla Makhanya, Principal and Vice-Chancellor of Unisa (on the right), with Prof Wiseman Nkuhlu, Chancellor of UP, when Prof Nkuhlu received an honorary doctorate from Unisa.



Judge Bernard Ngoepe speaks at UP

Judge Bernard Ngoepe, South Africa's Tax Ombud, was hosted by the University in October to talk about the impact of the Office of the Tax Ombud on taxpayers and to discuss its first full annual report, which was tabled in parliament the same day.

The University's Vice-Chancellor and Principal, Prof Cheryl de la Rey, welcomed Judge Ngoepe and stressed the importance of partnerships, such as the one between the University and the Office of the Tax Ombud that had resulted in the event, which formed part of the Faculty of Economic and Management Sciences' EMS Talk Series.

Judge Ngoepe's keynote address was followed by a panel discussion in which various influential role players in the field of South African taxation took part.

The Office of the Tax Ombud was founded in October 2013 to handle complaints from tax payers regarding the South African Revenue Service (SARS). The annual report that was

Present at the prestigious lecture by Judge Bernard Ngoepe were from left to right Prof Madeleine Stiglingh, Mr Narcizio Makwakwa, Adv Eric Mkhawane, the Vice-Chancellor and Principal, Prof Cheryl de la Rey, Judge Ngoepe, Dr Beric Croome, Prof Elsabe Loots and Prof Riël Franzsen.

discussed was the Ombud's first full annual report covering the year ending 31 March 2015.

In his address Judge Ngoepe said the best way to improve the collection of tax, is to create a culture of co-operative compliance. He said tax payers should demand that tax money be used appropriately to alleviate the plight of the poor and not enrich politically connected individuals.

The panel discussion was led by Prof Madeleine Stiglingh, Head of the Department of Taxation in the Faculty of Economic and Management Sciences at UP. The other participants were Judge Ngoepe, Dr Beric Croome from ENSafrica, Prof Riël Franzsen, Director of the African Tax Institute at UP, Adv Eric Mkhawane, CEO of the Office of the Tax Ombud, and Mr Narcizio Makwakwa, Executive Indirect Taxes at SARS.

Adv Mkhawane thanked UP for hosting the event and also for providing specialist education in taxation through its academic programmes.

More information about the Office of the Tax Ombud is available at www.taxombud.gov.za. ■

By Anna-Retha Bouwer

Prof Antonie de Klerk, Executive Director of the University of Pretoria, is retiring on 30 November after “a lifetime” at Tuks.

To admit that you are retiring after 24 years at UP, feels a bit unreal, says Prof De Klerk, but it is not a decision he has taken lightly.

Prof De Klerk’s third term as member of the Executive came to an end during the year. For a long time he pondered the option of being available for a fourth term, but in the end he opted for early retirement, especially for more “flexibility” in his life.

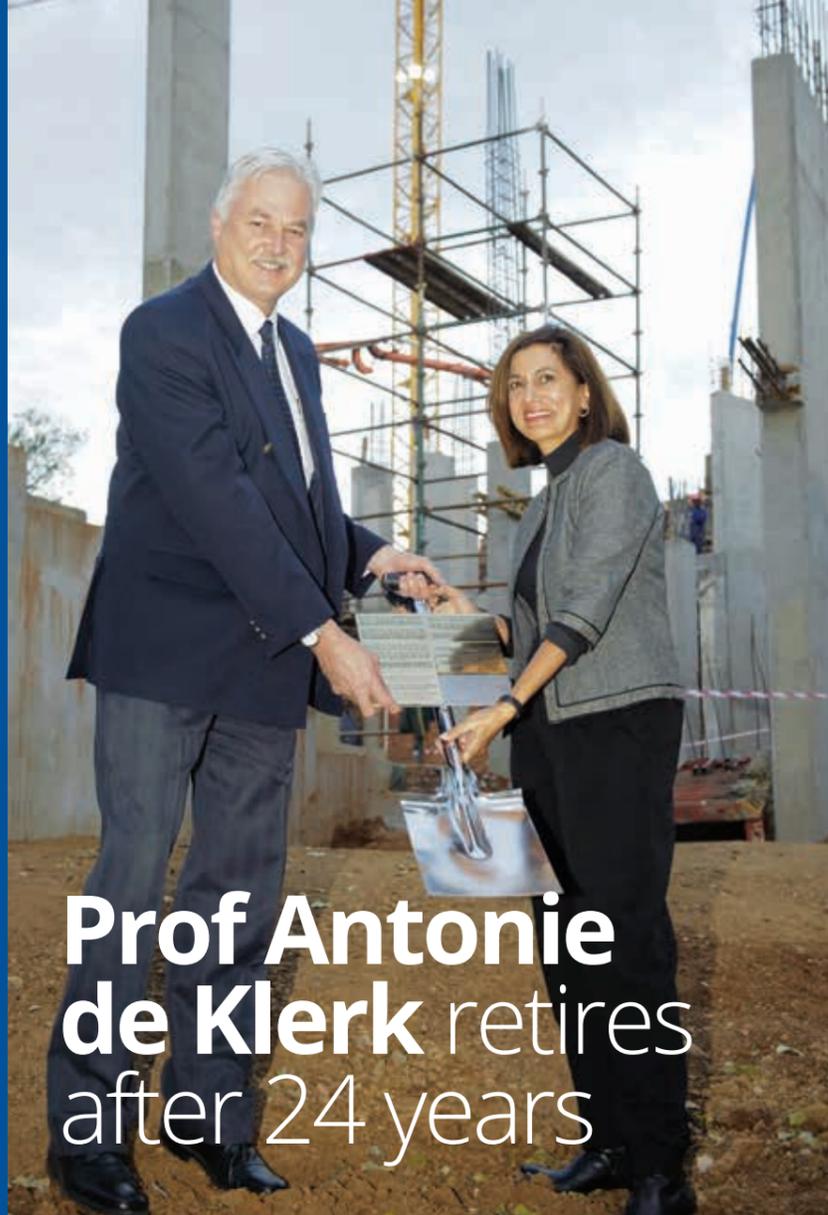
“There were so many highlights,” he says when reflecting on his relationship with UP. “The interesting part of my career at Tuks is that I was involved in so many different roles.”

His relationship with Tuks started in 1973 when he enrolled for the B.Eng (Mech) degree. Upon completion of this qualification he started working at the then Lyttelton Engineering Works, which later became part of Denel. Further studies included an M.Eng (Mech), which he also completed at Tuks.

After 12 years of employment by Lyttelton Engineering Works, Prof De Klerk completed a PhD in Engineering-Economic Systems at Stanford University in the United States in 1990.

Upon completion of his doctorate, the Chair for Engineering Management became vacant at Tuks, and Prof De Klerk was appointed to it in 1992. In this capacity he developed the Chair into an academic department by 1994 and was appointed as head of the new department from 1994 until 2000.

“I enjoyed developing the Chair into the fully-fledged Department of Engineering and Technology Management in the Faculty of Engineering. I believe it is still the largest post-graduate department at the University, now



Prof Antonie de Klerk retires after 24 years

Prof Antonie de Klerk and the Vice-Chancellor and Principal, Prof Cheryl de la Rey, turn the first sod during the construction of the Thuto Building in 2011.

known as the Graduate School for Technology Management (GSTM),” he says.

In 2000, while retaining his academic post as professor in the Department, he was appointed as the founding managing director of the campus company Continuing Education at University of Pretoria, or CE at UP. “I had to put the company together, get the structure in place, appoint staff and introduce the new model across the University. It is very rewarding to see how this company has grown.”

While involved with CE at UP, Prof De Klerk was also appointed as the director of UP’s original business school, the Graduate School of Management. Under his guidance the Graduate School, which was established in 1949, was



Being responsible for TuksSport brought the rewarding experience of the many titles won by Tuks athletes.

merged with the Gordon Institute of Business Science (GIBS). He describes this period as “challenging and very interesting”.

He was seconded to the Executive in 2002 in part-time capacity and appointed full-time in 2005. His responsibilities included the portfolios of Facilities Management, Information Technology and Quality. Sport and Procurement were added later and he retained responsibility for Infrastructure and TuksSport until his retirement.

Prof De Klerk says he enjoyed being part of the development of the infrastructure on the various campuses. “It is a visible thing. Everybody can see new buildings going up.” In terms of IT there were also a number of important projects, although not as tangible as the completion of a new building. He singles out the implementation of the new PeopleSoft enterprise system as the most important IT project during his tenure.

“Sport is of course a completely different environment. It landed on my desk when the Principal of the time, Prof Calie Pistorius, thought that somebody should take care of sport and he knew that I watched rugby and played squash from time to time!”

Although not without challenges, there were many rewarding experiences in this regard, such as the introduction of the Varsity Cup tournaments and the many titles TuksSport has won.

“The University is always on a journey,” says Prof De Klerk and now that his time at Tuks is coming

to an end, he is aware of the fact that one can never reach a point where you can say that everything is done.

“It is always work in progress. Inevitably you leave things behind that are not fully completed, and it will be interesting to see how they develop from here.”

Although many aspects have changed since Prof De Klerk started his relationship with UP as a student more than 40 years ago, he does not think that the basic model of education has changed as

much as people might have predicted.

“Yes, of course changes in technology have changed many things, but I can’t see that the basic model of contact between students and lecturers has really changed. Students still come to class, they write tests, they stay in residences. That is still pretty much the same as it was when I was a student.”

Yet Prof De Klerk smiles when he thinks back to the calculator he bought in his third year. “I had to borrow money to buy it, because it cost R360! It was a very basic calculator.”

Apart from studying overseas, Prof De Klerk had the opportunity to travel to many overseas universities during his career. He spent a year as visiting professor at the University of Sydney and the University of Technology Sydney in 1997.

“I think we often still make the mistake of thinking that South African universities have to take a back seat when it comes to our international counterparts, but we do not have to.

“Maybe we do not have the same resources, but when it comes to our core functions of education and research we are as good – sometimes even better.”

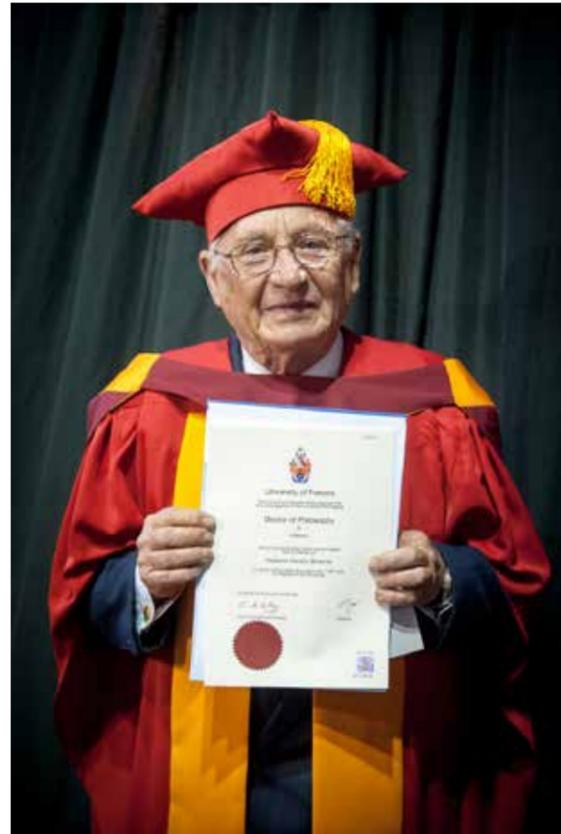
Now that Prof De Klerk has come to the end of his journey at Tuks, he is looking forward to a couple of other journeys with many travel plans that are on the cards for him and his wife, Irma. His sons Renier and Anton and grandchildren live in Australia and London respectively. His daughter, Michelle, lives in Harrismith. ■

Designer of SA flag receives DPhil

Dr Fred Brownell, who served as State Herald of South Africa from 1982 until 2002, received a DPhil from the University of Pretoria during the September graduation ceremonies for his thesis titled 'Convergence and unification: the national flag of South Africa' (1994).

In his thesis Dr Brownell placed the evolution of vexillology – flag science – within a multi-disciplinary academic framework and then sketched the historical context of the national flags that flew over South Africa from 1910 until 1994. He presented a detailed analysis of the process by which the new South African national flag, introduced on 27 April 1994, came into being. Dr Brownell was not only directly involved in every phase of that process, which provided him with rare insight into the making of this history, but he also designed the national flag. Considering the circumstances preceding the new democratic dispensation, the level of acceptance of this flag across the broad spectrum of society has been truly remarkable. Unlike the national flag that was adopted in 1928 and was essentially a symbol of the state, the current national flag has truly been embraced as a symbol of the people.

Frederick Gordon Brownell was born in Bethlehem in the eastern Free State in 1940 and matriculated at St Andrew's School, Bloemfontein in 1957. He attended Rhodes University, where he completed a BA degree in History and Social Anthropology in 1961. After joining the Department of Immigration the following year, he studied through Unisa and completed a BA (Hons)



Dr Fred Brownell

in 1965, followed by an MA (with distinction) in 1977. His dissertation was subsequently published in the *Archives Yearbook of South African History*.

He was appointed to the Bureau of Heraldry as Assistant State Herald in 1977 and became State Herald of South Africa in 1982. Dr Brownell has presented papers at numerous heraldic and vexillological congresses, has published extensively, and has received many accolades and awards. Former President Nelson Mandela invested him with the Order for Meritorious Service (Silver) in 1999 and he has received international awards in both the heraldic and vexillological fields.

His design of the South African national flag was considered by the International Federation of Vexillological Associations to be the most significant contribution to flag science at the time. ■

UP ken nog 130 doktorsgrade toe

Die Universiteit het 1 963 grade, waaronder 130 doktorsgrade tydens die Lentegradeplegtighede in September op die Sportkampus in Pretoria en twee buitegradeplegtighede in Polokwane en Durban toegeken. Daar is ook 115 nagraadse en gevorderde diplomas en sertifikate toegeken. In die Fakulteit Opvoedkunde is 885 grade toegeken, in Ingenieurswese, Bou-omgewing en Inligtingtegnologie is die tweede meeste grade, naamlik 303, toegeken en in die Fakulteit Natuur- en Landbouwetenskappe 238 grade. In al die fakulteite saam is 1 030 honneurs- en 433 meestersgrade toegeken.

In die Fakulteit Natuur- en Landbouwetenskappe is 'n eredoktorsgraad toegeken aan prof Sergej S Zilitinkevich van die Finse meteorologiese instituut. Hy is ook die hoofwetenskaplike van die Laboratory of Planetary Boundary Layer Physics van Lobachevsky-universiteit in Rusland.

Die Universiteit het tot dusver vanjaar 12 544 grade, diplomas en sertifikate toegeken. ■

Dr Dlamini-Zuma at UP graduation

Dr Nkosazana Dlamini-Zuma, Chairperson of the African Union Commission, attended the graduation ceremony of her niece, Bridget Nomshado Zuma, during the University's Spring graduations. With Bridget and Dr Dlamini-Zuma, second from left, are the Vice-Chancellor and Principal of the University, Prof Cheryl de la Rey (on the right), the Dean of the Faculty of Engineering, Built Environment and Information Technology, Prof Sunil Maharaj (on the left), and Mrs Thenjiwe Edista Zuma, Bridget's mother. Bridget received her degree in Metallurgical Engineering.



Prof Vasu Reddy

New Dean of Humanities

The Faculty of Humanities welcomed Prof Vasu Reddy, who took up his position as Dean of the Faculty in August.

Prof Reddy's academic career started at the University of Natal in 1993 where he was initially appointed as a lecturer in the Faculty of Arts. He progressed through the ranks until his promotion to associate professor in Gender Studies at the University of KwaZulu-Natal (UKZN). Joining the Human Sciences Research Council (HSRC) in 2006, he served in various capacities culminating in his appointment as Executive Director: Human and Social Development.

Throughout his career at the HSRC, Prof Reddy maintained his academic roots through an appointment as Honorary Professor and Research Fellow in Gender Studies at UKZN. He has published widely in his fields of expertise, notably gender studies and HIV/AIDS. He has maintained an active presence in professional and academic bodies, and chaired the local organising committee of the World Social Sciences Forum that took place in Durban in September 2015. ■

Erkenning vir uitstekende navorsing deur vroue

Naaswenner in Sosiale Wetenskappe

Professor Antoinette Lombard, hoof van die Departement Maatskaplike Werk en Kriminologie is aangewys as naaswenner in die kategorie Geesteswetenskappe en Sosiale Wetenskappe van die Uitnemende Vroue in Wetenskap-toekenning (WISA) van die nasionale Departement van Wetenskap en Tegnologie (DWT).

Die Minister van Wetenskap en Tegnologie, me Naledi Pandor, kondig die toekennings jaarliks in Augustus aan as die Departement se bydrae tot Nasionale Vrouemaand-vieringe. Die toekennings het ten doel om die aantal vrouewetenskaplikes en navorsers in die land te vermeerder, om vroue se toegang tot loopbane in navorsingsleierskap te bevorder en om suksesvolle wetenskaplikes en navorsers as rolmodelle vir jonger vroue voor te hou.

Die tema vir die 2015 toekennings was 'Wetenskap vir 'n volhoubare toekoms' in aansluiting by die VN se Millennium-ontwikkelingsdoelwitte (MDGs) wat aan die einde van die jaar tot 'n einde loop.

Prof Lombard se navorsing fokus op sosiale en ekonomiese ontwikkeling, asook ontwikkeling en inklusiwiteit, deur 'n menseregte-lens. Haar navorsing dra by tot die verwesenliking van die MDGs deur sosiale en ekonomiese ontwikkelingstrategieë en intervensies te koppel, om sodoende armoede en ongelikheid onder kwesbare mense – veral vroue en kinders – in 'n breër gemeenskapskonteks te verminder. Haar navorsing help om geleenthede vir vroue te skep om 'n huishoudelike inkomste te verdien, wat voedselsekerheid en toegang tot onderrig, gesondheidsorg en behuising fasiliteer.

Sy het 'n C2 gradering van die Nasionale Navorsingstigting.

Die videogreep van prof Lombard se nominasie vir die Uitnemende Vroue in Wetenskap-toekenning is beskikbaar by (<https://www.youtube.com/watch?v=9Zlc85Sy5jc>)

A love of learning

Ms Iketle Aretha Maharela received a Department of Science and Technology Fellowship to complete her master's degree in statistics at the University of Pretoria. Iketle completed a BCom degree at UP, majoring in statistics and economics, followed by a honours degree in statistics.

She says she is inspired by her mother who was the first person in her family to obtain a university education. "My mother instilled a love of learning in me and opened my eyes to its potential to change people's lives and perspectives."

TATA-beurs vir ingenieurstudent

Ter erkenning van haar uitstaande akademiese en navorsingsvermoëns is 'n Tata-beurs vir doktorale studie aan **Marilize Everts**, 'n doktorale student in die Departement Meganiese en Lugvaartingenieurswese, toegeken.

Marilize het in 2012 'n BIng in Meganiese Ingenieurswese met onderskeiding aan UP verwerf en was die topstudent in die Skool vir Ingenieurswese. Ander toekennings wat sy in 2012 ontvang het, sluit in Beste Navorsingsprojek in Meganiese Ontwerp, Verdienstelikste Student in Meganiese Ontwerp, Verdienstelikste Student in Gevorderde Hitte- en Massaoordrag, Verdienstelikste Student in Termovloei-stowwe, die Sasol-merietemedalje vir Beste Finalejaarstudent in Meganiese Ingenieurswese, die Sasol-merietemedalje vir Uitnemendheid in Ontwerp, en die CA du Toit-medalje en -prys vir Uitnemendheid in Hitteoordrag.

In 2013 het Marilize die BIng (Hons) in Meganiese Ingenieurswese voltooi met 'n gemiddeld van 90% (onderskeidings in al agt modules), en in 2014 het sy 99% behaal vir die navorsingsmeestersgraad in Meganiese Ingenieurswese. Sy was die beste student in haar groep vir elk van die drie grade wat sy behaal het. Sy het ook die



Prof Antoinette Lombard

Shruti Lall with the Dean of the Faculty of Engineering, Built Environment and Information Technology (EBIT), Prof Sunil Maharaj, who supervises her studies.

Marilize Everts

Universiteitstoekenning (ope kategorie) vir die beste ingenieurswesestudent in die land by die Eskomvoorsitterstoekennings ontvang waar alle universiteite en ingenieursdisseplines in hierdie kategorie meeding.

As 'n doktorale student in die Departement Meganiese en Lugvaartingenieurswese handel haar navorsing oor die hitteoordrag- en drukdalingseienskappe van ontwikkelende vloeiing in gladde en growwe buise in die oorgangsvloeieregime.

Awarded prestigious scholarships

Shruti Lall, a master's student in Electronic Engineering, has received two prestigious scholarships. In August she received a Tata scholarship in recognition of her outstanding academic and research abilities in the master's category of the 2015 South African Women in Science Awards. She also won a Fulbright Scholarship to continue her studies in the United States in 2016.

The Fulbright Scholarship Programme offers prospective master's and PhD students the opportunity to do research and study at a university or other appropriate institution in the United States for one year or longer.

Shruti completed her bachelor's degree in Computer Engineering cum laude at UP in 2013. She subsequently specialised in telecommunications, obtaining her honours degree cum laude in 2014.

In the first year of undergraduate study she received a silver merit award in Computer Engineering, and in her second year a gold merit award. She has been a recipient of the prestigious Sentech Broadband Wireless Multimedia Communications (BWMC) bursary since her second year and appeared on the Dean's Merit List for the duration of her undergraduate studies.

Shruti is currently pursuing her master's degree in Electronic Engineering at UP specialising in wireless network security. Her research investigates the optimal placement and power allocation of protective jammers in wireless networks and involves the development of a security model which would afford wireless networks protection against malicious devices seeking to obtain confidential information.

Tata scholarship for postgraduate student

Ntsoaki Leticia Mosina received a Tata scholarship in the 2015 South African Women in Science Awards to complete her doctoral degree. Ntsoaki enrolled for a PhD in Biotechnology at the Centre for Microbial Ecology and Genomics at the University of Pretoria. She completed the BSc, BSc(Hons) and MSc in Microbiology at the University of KwaZulu-Natal.

Her research project combines structural biology, biotechnology and enzymology techniques aiming to elucidate the structure and function of bifunctional exoglucanase which has a number of applications in industry, such as in the production of biofuel. ■



Ingrid Penzhorn

Tukkie awarded 2015 FirstRand Laurie Dippenaar Scholarship

Ingrid Penzhorn was one of four academically gifted South African students with excellent leadership qualities and the potential to be future destiny changers who each received R630 000 to pursue postgraduate studies at an internationally recognised university of their choice in the FirstRand Laurie Dippenaar postgraduate scholarship awards this year.

2015 is the ninth year that this prestigious scholarship has been awarded. The value of the scholarship was increased to R630 000 per year and a total of R2,52 million was awarded to four students. The scholarship is available to South African citizens for postgraduate study in any discipline at an internationally recognised university of their choice. Excellence is the only criterion for selection.

Ingrid Penzhorn was the top student in Internal Medicine in her final year at the University of Pretoria Medical School. She is interested in mental health and the limited emphasis in SA on

mental illness. She has been accepted for an MSc in Global Mental Health at King's College London.

The other three students were Thato Masiangoako from the University of the Witwatersrand, Esther McFarlane and Brendon Finn, both currently studying at the University of Cape Town.

Applications for the 2016 FirstRand Laurie Dippenaar Scholarship for Postgraduate International Study will open on Thursday 17 December 2015 and close on Thursday 25 February 2016. As a result of the growing awareness of this leading scholarship, 128 qualifying applications were received in 2015. Applications were received from graduates from all of the major universities.

Chairman of FirstRand and member of the University of Pretoria Council, Mr Laurie Dippenaar, said the candidates interviewed all have amazing talent. "I have been impressed by the enthusiasm shown for their chosen fields of study. They have excelled academically as well as in their outside interests, such as sport, music, and community service. Leadership qualities also seem to be part and parcel of their make-up. I always find the interviews a rewarding and humbling experience."

Details and the application form will be available on the FirstRand website, www.firststrand.co.za from the end of November 2015. ■



Prof Erika de Wet



Prof Brenda Wingfield



Prof Wanda Markotter



Prof Namrita Lall

Vier nuwe SARChI leerstoel by UP

Die Suid-Afrikaanse Navorsingsleerstoelinisiatief (SARChI) het vier nuwe leerstoel aan die Universiteit toegeken.

Die Minister van Wetenskap en Tegnologie, me Naledi Pandor, het in September in Kaapstad die vestiging van 42 nuwe SARChI leerstoel aangekondig. Wat hierdie toekennings so buitengewoon gemaak het, was dat al 42 nuwe leerstoel aan vrouewetenskaplikes toegeken is.

Die SARChI inisiatief is in 2006 geloods as 'n strategiese ingryping van die Suid-Afrikaanse regering met die doel om navorsingskapasiteit in die wetenskappe te vergroot deur die ontwikkeling van menslike kapasiteit, asook om die ontwikkeling van nuwe kennis te stimuleer. Die Departement Wetenskap en Tegnologie (DWT) en die Nasionale Navorsingstigting (NNS) staan aan die hoof van die inisiatief.

Die volgende leerstoel is aan UP toegeken:

Prof Erika de Wet: SARChI Leerstoel in Internasionale Grondwetlike Reg

Prof De Wet is die Mededirekteur van die Instituut vir Internasionale en Vergelykende Reg in Afrika (ICLA) in die Fakulteit Regsgeleerdheid aan UP. 'n Ondersoek na die regsgevolge van die uitoefening van openbare gesag deur internasionale organisasies soos die Verenigde Nasies (VN) en die Afrika Unie (AU) op state wat in hul invloedssfeer val, sal sentraal tot die navorsing wees wat onder die nuwe navorsingstoel gedoen word. Prof De Wet het 'n B1-gradering van die Nasionale Navorsingstigting (NNS).

Prof Brenda Wingfield: SARChI Leerstoel in Fungusgenomika

Prof Wingfield is die Adjunkdekaan: Navorsing in UP se Fakulteit Natuur- en Landbouwetenskappe. Haar navorsing fokus op die genetica en genomika van fungusbevolkings, wat navorsing oor die genetiese variasie in en tussen spesies insluit. Sy is 'n NNS A-gegradeerde wetenskaplike en een van die Navorsingsleiers van die Departement Wetenskap en Tegnologie (DWT)/NNS Sentrum vir Uitnemendheid in Boomgesondheid-biotegnologie.

Prof Wanda Markotter: SARChI Leerstoel in Diere-infeksiesiektes (soönoses)

Prof Markotter is 'n medeprofessor in die Departement Mikrobiologie en Plantpatologie. Haar navorsing oor die epidemiologie en patogenisiteit van hondsdolheid- en hondsdolheidverwante lyssa virusse uniek aan Afrika is welbekend en het bygedra tot die ontwikkeling van nuwe diagnostiese instrumente om die diagnose van hondsdolheid in ontwikkelende lande meer doeltreffend te maak.

Prof Namrita Lall: SARChI Leerstoel in Inheemse Kennisstelsels

Prof Lall is 'n medeprofessor in UP se Departement Plantkunde. Sy is 'n kenner van Medisinal Plantkunde en die ontvanger van die hoogste eerbewys in Suid-Afrika, die Orde van Mapungubwe (Bron), vir haar uitstaande bydrae tot die mediese wetenskap. Sy het ook verskeie ander hoog aangeskrewe toekennings ontvang vir haar uitstaande wetenskaplike bydrae tot die uitbouing van die wetenskap, asook die uitbreiding van die kennisbasis oor inheemse kennisstelsels. ■

NSTF awards for UP researchers

Hul navorsingsbelangstellings strek van die genetiese verbetering van plantasies tot die tandmol-koninginne van die Kalahari en die lewe onder 'n klip in Antarktika, maar proff Zander Myburg, Nigel Bennett en dr Thulani Makhalanyaane was al drie weners van Nasionale Wetenskap-en-Tegnologieforum (NSTF)-BHP Billiton-toekennings in 2015.

A total of six UP researchers from a wide range of study fields were nominated for the 2014/2015 awards that annually honour and celebrate outstanding contributions to Science, Engineering, Technology and Innovation (SETI) in South Africa. The awards have been held in high esteem since their inception 17 years ago. Being selected as a finalist is an honour in itself.

The three 2015 UP winners all are from the Faculty of Natural and Agricultural Sciences (NAS).

Prof Nigel Bennett, UP Austin Roberts Chair of African Mammology



Prof Bennett holds the joint Department of Science and Technology (DST)/National Research Foundation (NRF) Research Chair in the field of Mammalian Behavioural Ecology and Physiology, as well as the UP Austin Roberts Chair of African Mammology. His research focus is ecology, animal physiology and behaviour using the African mole-rat as a model animal. He and his co-workers have investigated the ecological and physiological factors that affect the control of reproduction and the evolution of sociality in mole-rats, by adopting a multifaceted approach.

Among other things, Prof Bennett's research has shown that Damaraland mole-rat queens of the Kalahari are able to physiologically suppress the hormones that trigger ovulation and reproduction in so-called 'worker females' in the colony, and he is currently trying to find out how this might occur. His research has set a benchmark for our understanding of reproductive success and social evolution in mammalian species, and his research record ranks him among the best researchers studying social regulation of reproduction in any group of mammals in the world.

Prof Bennett received a Research Capacity Development Award in recognition of his individual work over five to ten years.

Prof Myburg beklee die leerstoel in Bosbou-genomika en -biotegnologie en is aan die stuur van die hoogs suksesvolle Forest Molecular Genetics (FMG)-program, 'n navorsingsprojek wat in 2003 deur UP, Sappi en Mondi van stapel gestuur is.

Prof Myburg en sy navorsingspan se werk fokus op die genomika en molekulêre genetica van houtontwikkeling in plantasiebome met 'n spesifieke fokus op die genetiese regulering van die biosintese van sellulose in Eucalyptus-bome.

Die FMG-navorsingspan het die weg gebaan vir die gebruik van populasiegenomika- en

Prof Zander Myburg, Direkteur: Molekulêre Genetiese Program vir Bosbou, Departement Genetika



sisteemgenetika-benaderings om die genetiese beheer van houtvorming in Eucalyptus-bome te ontsyfer. Prof Myburg is die koördineerder van die internasionale Eucalyptus-genoomnetwerk (EUCAGEN) en was die hoofnavorsers van die VSA se Departement Energie (DOE) se Eucalyptus-genoomprojek. Dit het gelei tot die publikasie van die volledige bloekomgenoom in die gerekende vaktydskrif *Nature*.

Tans fokus hy op die genetiese verbetering en ontwikkeling van plantasiebome vir 'n verhoogde biomassa en groeitempo, sowel as die verbetering van bio-polimeereienskappe vir bio-gebaseerde produkte.

Prof Myburg het 'n TW Kambule-toekenning ontvang ter erkenning van sy navorsing die afgelope vyf tot tien jaar as individu.

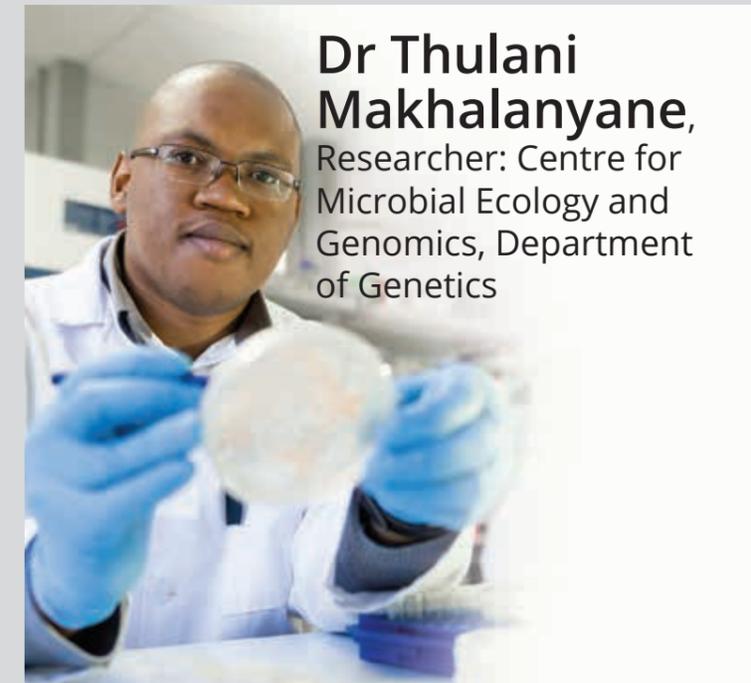
Dr Makhalanyaane, who serves as a Young Ambassador for the International Society for Microbial Ecology (ISME), is one of UP's top young scientists who has helped the University become a research leader in the study of extremophile organisms.

Before taking up a postdoctoral fellowship at UP, he completed a BSc (Hons) degree in Microbiology at North West University and then moved to the

University of the Western Cape where he earned both an MSc degree (obtained cum laude, 2010) and a PhD (2013) at the Institute for Microbial Ecology and Genomics in the Department of Biotechnology in record time.

His research focused on understanding the ecology of soil microbial communities in extreme environments, including hyper arid deserts like the Antarctic Dry Valleys and the Namib Desert. His work on unique organisms called *Hypoliths*, which create thriving communities below quartz rocks sheltered from extreme desert environments, aims to understand how they interact and take part in biological cycles such as carbon and nitrogen fixation.

Dr Thulani Makhalanyaane, Researcher: Centre for Microbial Ecology and Genomics, Department of Genetics



Dr Makhalanyaane applies highly sophisticated techniques in his studies, including metagenomics and, more recently, metaproteomics and metabolomics. A number of publications in respected international journals (e.g. *FEMS Microbiology Reviews*, *The ISME Journal*, *Molecular Ecology*) resulted from his research. Dr Makhalanyaane has presented his work at numerous international conferences and has also participated in various sampling expeditions.

Dr Makhalanyaane won a TW Kambule Award to an emerging researcher, recognising his post-doctoral research in the period of up to six years after obtaining a PhD. ■

GIBS still number one

The University of Pretoria's Gordon Institute of Business Science (GIBS) has once again come out tops as the only African business school to be ranked as one of the top providers of executive education programmes, according to the prestigious annual *UK Financial Times (FT) Executive Education* rankings.

Ranked at number 44, GIBS is placed in the esteemed company of some of the world's most prominent business schools, such as Harvard Business School, the University of Oxford: Saïd and MIT: Sloan.

As a global benchmark for executive education, the rankings rate the top 50 business schools globally by combining delegates' and companies' views of open and customised programmes. Business schools provide the details of a number of top clients who are then asked to complete an online survey. GIBS clients that participated in the survey included not only leading South African corporates, but also top multinationals operating across Africa and abroad.

Executive MBA ranking

Among South African and African business schools, GIBS also took top honours in the *UK Financial Times Executive MBA Ranking 2015*.

This annual ranking measures the top 100 Executive MBA programmes globally. The latest ranking sees the GIBS modular and part-time MBA formats feature in 87th place worldwide.

GIBS occupies joint first place in terms of the number of women represented on its board, and is ranked 13th for its percentage of female students. Once again, this recognises GIBS's efforts to ensure gender diversity, both internally and in its programmes.

GIBS MBA alumni continue to receive internationally competitive salaries according to the ranking (35th out of 100 in the world for present day US\$-denominated salary) and receive above average salary increases compared to the alumni of the other 99 top ranked schools. ■

UP expert on the podium in Expert Lecture Series

Prof Bob Millar, Director of the Mammal Research Institute at UP delivered the 18th lecture in the University's Expert Lecture Series.

The title of Prof Millar's lecture was 'A hitchhiker's guide to the galaxy of brain/body dialogues'. He spoke about peptide hormones that regulate all aspects of body functions, including growth, energy metabolism and appetite, water and salt balance, stress and reproduction. These hormones are the target for a vast array of drugs that have found application in treating a wide



Prof Bob Millar

range of diseases such as prostate cancer and many health conditions, including infertility and endometriosis.

Prof Millar is also Director of the Centre for Neuroendocrinology in the Faculty of Natural and Agricultural Sciences. He is an NRF A rated researcher and as a clinical chemist he has 30 years' experience in basic and clinical neuroendocrinology. ■

THE ranks UP among the top global universities

The University of Pretoria has been included in the *Times Higher Education (THE) World University Rankings*. This was announced on 1 October at the University of Melbourne in Australia at the *THE World Academic Summit*. This places UP firmly into two global ranking systems, the other being the Quacquarelli Symonds (QS) World University Rankings. The *THE* rankings are widely regarded as one of the most influential global university measures, and arguably the most widely referenced.

Vice-Chancellor and Principal, Prof Cheryl de la Rey, was in Melbourne for the announcement. She participated in a panel discussion on international universities and their engagement with local communities at the summit.

A delighted Prof De la Rey said UP's achievement in the rankings was a reflection of the progress that the University was making in actualising its vision of becoming a leading research-intensive university in Africa, and the world at large.

"The *Times Higher Education* World University Rankings, now in their 12th year, apply rigorous standards, using tough global benchmarks across all of a global research university's key missions – teaching, research, knowledge transfer and international outlook. The results are trusted by students and their families, academics, university leaders and governments. For the University of Pretoria to make it into the world rankings is an outstanding achievement to be celebrated," said Phil Baty, editor of the *THE* World University Rankings. ■

Assupol TuksKrieket weer wêreldkampioene

Die Assupol TuksKrieketspan (Span Suid-Afrika) het hul kampioenskapstiel as weners van die Red Bull Kampuswêreldbeker suksesvol verdedig toe hulle vir die tweede agtereenvolgende jaar as oorwinnaars uit die stryd getree het toe hulle Engeland op 24 Oktober in die eindstryd in Dehradun, Indië, geklop het. Tuks het eerste geboul en Engeland beperk tot 120 vir 9 in hul 20 boulbeurt en het met agt paaltjies gewen. In die finaal was Tuks se Aiden Makram man van die wedstryd en Murray Coetzee is as die speler van die reeks aangewys. ■



Tuks Alumni Club 60+ connects the generations

By Cheryl Benadie

What does a student at Tuks today have in common with students who graduated decades ago? Judging from the interaction between Tuks Alumni Club 60+ members and recent recipients of funding from the Tuks Scholarship Fund, the answer is: *everything!*

The Club donated to the Tuks Scholarship Fund (TSF) in 2014 and a meeting with some of the recipients was arranged with the theme 'Van Toeka Tot Nou'. The alumni enjoyed the decor, which consisted of old campus scenes supplemented by more current images.

"Some campus challenges, like the lack of sufficient parking spaces, still exist," remarked the Vice-Chancellor, Prof Cheryl de la Rey. "Yet there are other positives, like our commitment to excellence, that remain unchanged. In fact, we are more committed than ever before to bolster the research output and retain the academic

standard of excellence associated with the UP brand."

One of the recipients, Nicholaas van Schalkwyk, a second-year BCom accounting student, shared how the Tuks Scholarship Fund helped him to take the next important step on his academic journey: "I made a wise decision to choose the University of Pretoria to further my studies. This decision led to me realising that Tuks is by far the best university in South Africa. I am continually amazed by the teaching quality, as well as our diversity on campus and in our residences. This helps me to believe in a better future, not only for our youth but for our country."

The Tuks Alumni Club 60+ presented another donation to the Tuks Scholarship Fund for 2015 and the Fund recipients also surprised the Vice-Chancellor with a gift of their own.

The event was a great reminder that, regardless of when you graduated, you will be a Tukkier for life! And giving back to your alma mater becomes second nature when you can share in generations of Tukkier pride. ■

Nicholaas van Schalkwyk, TSF Champion and second year BCom accounting student, shares his story.



1. Prof Susan Adendorff, Director of the Department of Facilities Management with André de Villiers at the GIBS MBA alumni event 2. The Vice-Chancellor and Principal of the University, Prof Cheryl de la Rey, left, with Prof Nicola Kleyn, Dean of the Gordon Institute of Business Science (GIBS) 3. Prof Nicola Kleyn addresses guests at the annual GIBS MBA alumni event on the Hatfield Campus of the University.

GIBS hosts MBA alumni in Pretoria

The Gordon Institute of Business Science (GIBS) was established in 2000 and in the 15 years of its existence GIBS has graduated 1 892 MBAs. This group is growing by an average of 280 graduates per annum. Included in this alumni group are 1 000 alumni who graduated from the University of Pretoria's original business school, the Graduate School of Management (GSM).

GIBS intends to use its alumni office as a vehicle through which it reconnects, refreshes, re-energises and inspires its alumni community to build lifelong, mutually beneficial relationships with and between them. It further aspires to build upon its shared values with its alumni community to make a positive impact at an individual, organisational and country level.

There are two GSM/GIBS alumni events in a year. The one is a breakfast session at GIBS at the beginning of the year and the other the formal cocktail at the University's Hatfield Campus in the second half of the year. The Vice-Chancellor and Principal of the University, Prof Cheryl de la Rey,

opened the function and the Dean of GIBS, Prof Nicola Kleyn, addressed the alumni.

Some of GIBS' successful MBA alumni include a number of chief executive officers such as Ms Yolisa Phahle of M-Net; Ms Stacey Brewer of Sparks Schools; Ms Linda Makuleni of WeatherSA, Mr Kennedy Bungane of Pembani Group and Ms Chantel Reddiar, Director: Corporate Services and Legal of Sun International.

This cocktail was the second hosted at the University since the GSM has joined the GIBS alumni database. Due to the success of last year's event and as proposed by Prof Antonie de Klerk, former director of the GSM, the event will now take place annually. ■



TB DIAGNOSTIC START-UP could be a game changer

By ScienceLink (sciencelink.co.za)

MARTI TB Diagnostics envisions a cheap, point-of-care, finger prick test that uses disposable consumables, such as this 'test strip'. In some respects the technology is similar to current blood-based tests for cholesterol and diabetes.

In a country where more than nine million tests for tuberculosis (TB) are performed each year, a cheap, point-of-care, finger prick test that avoids the complexities of patients having to cough up sputum, would literally be a life saver.

Such a test could be available within three years, and could overcome the challenge of diagnosing TB in children and patients infected with HIV.

This is according to Prof Jan Verschoor, who initiated TB diagnosis research at the University of Pretoria's Department of Biochemistry in 1994.

Prof Verschoor has since supervised many students whose work led to several inventions. A modest but growing portfolio of patent applications is pending in several countries, while some of the earlier work was successfully patented in a number of countries. UP recently founded a company, MARTI TB Diagnostics (Pty) Ltd, which is destined to become the vehicle through which the diagnostic technology will be introduced into the market.

The research began by examining how the waxy coating surrounding the TB-causing micro-organism, *Mycobacterium tuberculosis*, affects the body's immune response. Part of the waxy coating is made up of molecules called mycolic acids.

"We had to prove that those molecules were not just a 'raincoat' for the bacteria," explains

Prof Verschoor. "We had to show that they can manipulate immunity in the body so that a TB infection can take hold, and that the body would produce antibodies against them." In other words, they had to prove that those wax molecules were 'intelligent', or key in stimulating the body to fight back by means of an immune response.

"We were the first in the world to isolate these mycolic acids in high purity on a large scale, and we were the first to venture into doing 'IQ tests' on them to see how intelligent they were in eliciting antibodies and manipulating an immune response," says Prof Verschoor.

They found the molecules to be very clever indeed, and applied their new-found knowledge to create an accurate, sensitive and specific test that could detect TB in a blood sample.

A blood-based TB test is hardly a new concept – many such tests have been developed around the world to detect the antibodies produced against the proteins in the TB bacterium. However, in 2011 the World Health Organisation (WHO) advised that the blood-based tests commercially

available at the time were simply not accurate enough.

The problem, particularly in South Africa and its neighbours, is that TB patients are often also infected with HIV. Because of the patient's compromised immune system, the TB pathogen spreads to areas beyond the lungs and can no longer be detected in sputum. But perhaps more importantly, HIV specifically attacks the body's ability to produce antibodies against TB proteins and therefore a blood-based TB test that is reliant on anti-protein antibodies will not be effective in detecting the disease.

Mycolic acids are not proteins; these waxy molecules are lipids, and the antibodies produced against these lipids are not affected at all by HIV.

"This was one of our biggest discoveries, that anti-lipid antibody production is not affected by HIV," says Prof Verschoor. One of his students, Simon Thanyani, later found that, unlike other antibodies which stay in the body forever whether or not a disease is cured, the anti-lipid antibodies have no 'memory'. Once the disease has been cured, they disappear. This means that the new technology could not only revolutionise TB diagnosis, but will also enable health practitioners to monitor the success of and patients' adherence to treatment, which will make it possible to identify patients with drug-resistant TB.

It was up to another one of Prof Verschoor's students, Carl Baumeister, to invent a method that would potentially reduce the cost of the new technology to more or less the current market price of the available TB diagnosis tests.

Carl went on to win first place in the biosciences section of the 2013 Gauteng Accelerator Programme business plan competition, administrated by the Innovation Hub. It was on the basis of this business plan that UP founded MARTI TB Diagnostics (Pty) Ltd. Carl Baumeister's innovations include changing the platform of the technology from lasers to electrical current and the design of cheaper, disposable consumables.

In June 2015, Carl took part in the Swiss-South African Venture Leaders Programme, where he obtained advice and support from the international public health community, including the Foundation for Innovative New Diagnostics (FIND) in Geneva.

The next step will be to validate the technology further through a combination of ongoing laboratory work and clinical trials. At present, the company has limited funding from the Innovation Hub's internal support fund, but it requires additional investment to proceed with clinical trials.

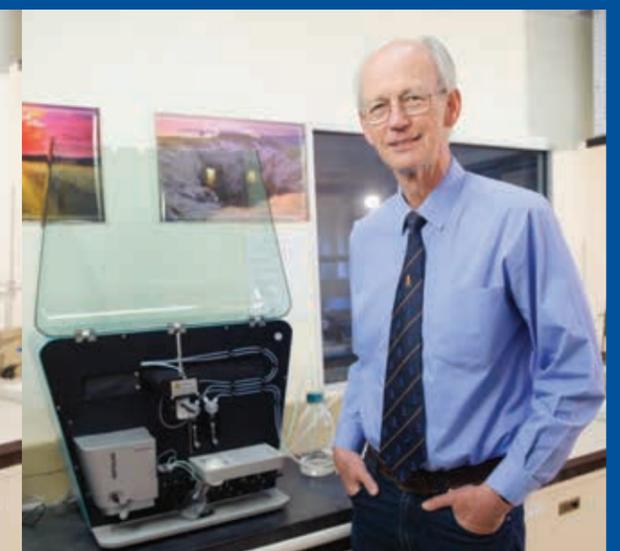
"Within three years it will either be in the market or out of the market," says Prof Verschoor, "but I think it has a very good chance."

Prof Verschoor, now 62, says he is incredibly proud of what his students, including Thanyani, Baumeister and many others, have achieved. "Without my students I would have no dignity," says this humble professor, who enrolled at UP as a first year in 1972 and is still serving in what he describes as his 'first job'.

The technology behind MARTI TB Diagnostics is known as the mycolic acid antibody real-time inhibition (MARTI)-assay. ■

Carl Baumeister won first place in the biosciences section of the 2013 Gauteng Accelerator Programme business plan competition, which led to the founding of MARTI TB Diagnostics (Pty) Ltd by UP.

Prof Jan Verschoor has supervised a line of commercially minded students who have helped develop the MARTI technology.





Ingenieurswese word 60 jaar oud

Die Mynwese Studietoer wat in die versonke ruimte onder die Ingenieurswese 1-gebou opgerig is en in 2013 in gebruik geneem is.

Deur Gert Pienaar

Die Skool vir Ingenieurswese vier sy 60ste bestaansjaar in 2016.

Van 'n beskeie ontstaan in 1956 met slegs 64 ingeskrewe studente, het die destydse Fakulteit Ingenieurswese en die huidige Skool vir Ingenieurswese merkwaardige groei en ontwikkeling beleef. In 1971 was dit reeds die grootste ingenieurswese fakulteit in die land. Tans, met ongeveer 5 700 voorgraadse en 1 500 nagraadse studente, word dit deur die International Science Index onder die top 1% van ingenieurskole ter wêreld gelys. Dié merkwaardige prestasie gaan met groot trots in 2016 gevier word.

In 2016 gaan 'n program aangebied word om hulde aan die stigters van die Fakulteit te bring, uitnemende prestasies en mylpale te beklemtoon, erkenning te gee aan alumni en ondersteuners en die toekomstige uitbreiding van die Skool te inspireer.

Die program begin reeds in die eerste semester met 'n herdenkingsdinee op 12 Maart in die Rautenbachsaal. Op 20 Mei vind 'n herdenkingskonsert in die Aula plaas wat die jaarlikse EBIT-konsert sal vervang.

Aan die begin van die tweede semester word 'n besoekersdag vir hoërskole aangebied wanneer uitgesoekte graad 11 leerders en skoolhoofde van 50 geselekteerde skole uit die noordelike provinsies genooi sal word om die Skool vir Ingenieurswese te besoek. Die program sal bestaan uit 'n toer van die Skool se fasiliteite, 'n inligtingsessie en 'n onthaal in die Rautenbachsaal. Later in die semester sal die jaarlikse prestige Hendrik van der Bijl Gedenklesing aangebied word. Die keuse van die spreker en die program sal weer eens op die herdenkingsjaar fokus.

Deur die loop van die jaar sal elke akademiese departement 'n spesiale geleentheid vir uitgenooide alumni, ondersteuners en verteenwoordigers van borge aanbied. Die verrigtinge sal onder meer 'n besoek aan fasiliteite, 'n inligtingsessie en 'n onthaal insluit.

In Februarie 2016 sal 'n spesiale gedenkpublikasie verskyn wat tydens bogenoemde verrigtinge in gedrukte formaat versprei sal word, asook in elektroniese formaat na alumni, borge, skole en ander belanghebbendes versend sal word. ■

First-in-Africa virtual reality centre opened

The construction and operation of the University of Pretoria's Virtual Reality Centre (VRC) for mine design was made possible by a generous sponsorship from Kumba Iron Ore, a business unit of Anglo American.

Mr Norman Mbazima, CEO of Kumba Iron Ore, officially opened the Centre, as well as the new offices of the Department of Mining Engineering and the Mining Resilience Research Institute (MRRI).

This new infrastructure development, an R18,8 million investment, took three years to complete and is set to save the South African mining industry a lot of time and money. It could save lives by helping to improve health and safety, according to Prof Ronny Webber-Youngman, Head of the Department of Mining Engineering.

At the launch, invited guests experienced the VRC's 3-D stereoscopic theatre and its 3-D, 360° cylinder theatre first-hand during a live demonstration. A tour of the new offices and the mine design lecture room formed part of the programme because these facilities also form part of the set-up that will revolutionise education, research and mine design at UP.

"Our students are the first in Africa to experience real-life incidents in a 3-D virtual mine while sitting in a lecture room," says Prof Webber-Youngman, citing the example of an underground rock fall in which miners may be injured. He explains that using virtual reality (VR) to supplement actual mine visits is much cheaper and mistakes are painless, yet the immersive nature of the simulations means that the emotional effects are tangible.

Prof Webber-Youngman says students are more engaged with their lectures than ever before. Engineering subjects are highly scientific and often difficult for students to visualise, which is why the VRC will create a new generation of engineers capable of imagining better solutions to real-world problems.

Besides this teaching and learning drive, the MRRI will have a strong focus on research, and will generate sustainable income by offering consulting services and contract research to the mining industry.

In terms of health and safety, for example, incidents involving loss of life or injury can be reconstructed using VR in order to research preventive measures. It is also possible to simulate scenarios for mine rescue teams, helping to identify risk-takers or better leaders in a virtual rather than a real mining environment. ■

Psychiatry at the frontier of mental health research

By Marissa Greeff

The University of Pretoria's Faculty of Health Sciences has been making a valuable contribution to the mental health care of its extended community through the Department of Psychiatry that has been using the Weskoppies Psychiatric Hospital as a teaching hospital since 1973. The Department is housed at Weskoppies Hospital.

Weskoppies Hospital is a specialised psychiatric hospital serving the greater Tshwane, Metsweding, Tembisa Hospital and Mpumalanga. It receives forensic patients from both the North-West and Mpumalanga provinces. The hospital is managed by the Gauteng Department of Health.

The UP Department trains undergraduate medical and occupational therapy students in psychiatry. At the postgraduate level specialist psychiatrists are trained over a four-year period. Sub-specialisation includes child and forensic psychiatry, with Prof Debbie van der Westhuizen and Prof Paul de Wet heading the respective units.

The Department of Psychiatry delivers specialist in-patient and out-patient services. There are 16 specialists and 22 registrars and medical officers who hold joint appointments at the University of Pretoria and the Gauteng Department of Health. Prof Louw Roos has been Head of



The main building at Weskoppies Hospital that was inaugurated in 1892

Weskoppies Hospitaal is in 1891 op die huidige terrein, wes van Pretoria se middestad, gebou en in 1892 ingewy. In 1893 was daar nege personeellede en 14 pasiënte. In 1904, 111 jaar gelede, is nog drie Edwardiaanse geboue opgerig wat vandag nog in gebruik is. Die hospitaal is gebou volgens die planne en voorkoms van die Menston Hospital in Yorkshire, Engeland. Vier geboue, twee aan elke kant van die oorspronklike drie, het later verrys en is met dieselfde rooi bakstene gebou. Die fasades van hierdie sewe geboue is in 1981 tot nasionale gedenkwaardigheid verklaar.

the Department of Psychiatry at UP and Chief Specialist in psychiatry at the hospital since 2000. His hospital work is focused on service delivery while his academic work is focused on research on schizophrenia, a serious and chronic mental health disorder that affects about 1% of people worldwide.

Prof Roos obtained the degrees MBChB and MMed (Psych) (the latter with distinction) from the University of Pretoria in 1975 and 1983 respectively. In 1989 he received an MD (Psychiatry) from UP with a thesis on suicide in schizophrenia. He holds a fellowship from the College of Psychiatrists (CMSA) by peer review.

Since 1997 he has been involved in a collaborative study on the genetics of schizophrenia in an Afrikaner founder population.

The principal investigator in this study is Prof Maria Karayiorgou who was Head of the Human Neurogenetics Laboratory, initially at Rockefeller University, and now holds the same position at Columbia University in New York. Prof Karayiorgou was appointed as an extraordinary professor at UP in 2014 and in this capacity she will promote research in the Department. The Department of Psychiatry is one of the clinical departments with the highest research output in the Faculty of Health Sciences.

The Department has a strong research orientation. Prof Roos is one of two NRF-rated researchers in the Department, nine consultants have doctoral degrees and six are enrolled for PhDs. The Division of Philosophy in Psychiatry, established in the Department in 2009, is headed by Prof Werdie van Staden and has two postdoctoral fellows.

On the topic of his research, Prof Roos explains that founder populations hold tremendous promise for mapping genes for complex traits because they have less genetic and environmental heterogeneity and greater potential for genealogical research. The Afrikaner population

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meets several criteria, which makes it an ideal population for mapping complex traits. The criteria include founding by a small number of people that would allow for a relatively restricted set of mutations, and a large current population size that allows identification of a sufficient number of cases.



Prof Louw Roos, Head of Department of Psychiatry (left) with Prof Maria Karayiorgou from Columbia University, New York, who is an extraordinary professor at UP and Prof Herman Pretorius.

The UP component of the research team comprises Prof Roos as the principal clinical investigator in the study of Afrikaner schizophrenia patients, with Prof Herman Pretorius as co-investigator, and nursing sister Ria van Wyk. The database consists of 877 patients with a diagnosis of schizophrenia or schizoaffective disorder. Information has been gathered over the past 18 years and the study is continuing.

Prof Roos assumed a leading role in the international research team that embarked on the study in 1997. In the seven years between 2007 and 2014 articles co-authored by him have been cited 1 621 times. A number of the master's students that he supervised between 2005 and 2014 were awarded Sanofi-Aventis Neuroscience Educational grants for published research findings, as well as prizes for MMed publications from UP's Faculty of Health Sciences.

The research has contributed significantly to the current global knowledge of the genetics of schizophrenia. The research group was one of the first to examine the role of rare mutations in schizophrenia and it was found that such mutations contribute to vulnerability to schizophrenia, especially in sporadic cases. This supports the idea that rare genetic variants at

many different loci can, at least in part, account for the genetic heterogeneity of this disease and that these variants contribute to a significant proportion of cases.

As a result of his ongoing research Prof Roos completed a DSc entitled 'Genetic variation and clinical variables contributing to schizophrenia in a founder population from South Africa' in 2014. Other broad research themes in the Department include: forensic enquiry into homicide-suicide cases (Dr Carla Kotze), philosophy and the ethics of mental health (Prof Werdie van Staden) and dissociative disorders (Prof Christa Krüger).

Community outreach

Prof Debbie van der Westhuizen is head of the Child and Adolescent Unit at Weskoppies Hospital. The Unit instituted a community outreach and professional development project in 2008. The

Parent-Child Programme (PCP) aims to benefit children and adolescents with mental health difficulties by developing the skills of lay and professional persons involved in child mental healthcare.

Dr Junaid Hassim and Ms Lanél Mare, clinical psychologists in the Department, are responsible for the programme that is presented once a year. It is offered in two simultaneous streams, namely a lay workshop for community members and a CPD workshop for professionals.

Focus areas include topics such as developing sensitive and effective caregiver-child relationships and attending to the special needs of youth with mental illnesses. Training for professionals includes advanced caregiver skills to improve South Africa's mental health treatment potential.

The programme draws some 400 attendees, including sub-disciplinary healthcare professionals, primary caregivers, foster parents, community organisations, social workers, postgraduate students in mental health sub-disciplines and occupational therapists.

This year the PCP ran over two days at the end of June in the Auditorium on the Prinshof Campus. ■



By Shakira Hoosain

A quest for justice

A chance meeting in a lecture hall in their first week on campus resulted in Venda-born Ndalama Maliseha and Buhle Lekokotla (from KwaZulu-Natal) becoming best friends. It also set in motion events that would change the way South African law is applied and ensure that the rights of South Africa's children are upheld.

The High Court recently set a precedent when it ruled that fathers who have been denied visitation rights and access to their children by the children's mothers, may have the right to custody and, in addition, that mothers who deny fathers access to their children can be fined or even be jailed.

In this landmark case, Ndalama (a practising attorney) approached Buhle (an advocate) to take on the case of a friend who had been denied access to his child for over a year despite religiously paying maintenance and attending to any extraneous costs incurred by the mother for the child. He even went so far as to have his mother move in with him to be an additional help with childcare over holiday periods.

The case was hailed as a breakthrough for fathers who have petitioned courts unsuccessfully to recognise their rights to see their children. In most cases mothers are granted custody of children but the practice of mothers not upholding fathers' visitation rights has long been overlooked. Ndalama and Buhle saw an injustice: Children were being robbed of a chance to have a relationship with their fathers and that had to be put right.

Ndalama, who has a toddler and owns her own legal practice, says: "We mothers are really failing our children when we deny them a relationship with their fathers, it is wrong. When I see injustice, I want to fight it and stop it. In this case, I saw a man who was being deprived of a relationship with his own son. I also saw a son who would

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grow up not knowing who his father is and I found that unsettling. Fathers are important in our society as kids look up to them as leaders, protectors, providers, etc. We all need a father figure who is present in our lives, especially while we are young."

Since the ruling she has received more enquiries from fathers who find themselves in similar predicaments as the first client.

Buhle agrees with her: "We were confident that we were going to win the case because, even though there was no precedent at the time, we had done our research thoroughly and knew that the courts were ready to decide on this issue."

Having grown up in quiet, country towns in South Africa, they both firmly regard Tuks as their home. "I think UP chose me. When I saw the UP prospectus in Grade 12 with its picture of jacaranda trees, it looked like home. I instantly knew that I would belong. I still get the same feeling when I am on campus. I really loved the culture; UP is in the capital city but it somehow feels like a small town. UP is so diverse and multicultural. It embraces everyone," says Ndalama.

Buhle knew she wanted to be a lawyer from the moment she first set foot in a court. "My primary school was situated next to the magistrate's court and the Grade 6 teacher took us there for a visit. It was the first place of work that I ever visited because both my parents were entrepreneurs. I decided there and then that I wanted to become a lawyer."

Buhle remembers that at Tuks she "learnt a lot about diversity, particularly because it was the first time that I was exposed to people from different cultures, races, nationalities and backgrounds. UP enabled me to dream bigger and when I realised that I was excelling academically, I gained the confidence to tackle a lot of other things, including sport, social activities and debates. Because I lived in Klaradyn, I was always close to varsity. I enjoyed the opportunities I got to play soccer at the highest level for the University throughout my time at UP. I also liked how administratively well-organised UP is. I participated in student politics to try to understand how the whole system works and possibly make a change. In my last two years I became a judge at the Student Court and that also helped me make a positive contribution to the lives of many students at UP."

Ndalama was inspired by Buhle's academic achievements. "In the first semester in my first year, my marks were not so good, but I realised, through friends like Buhle, who were scoring A's, that I was capable of the same, so I worked harder and in the second semester I aced all my majors. Professionally, my network is made up of people with whom I studied at UP. Personally, I feel that my degree from UP will always mean that I have my foot in the door, because corporate SA reveres UP qualifications."

They still love learning and excelling at whatever they do. Ndalama is currently enrolled at UP for an LLM in International Law. Buhle is in the process of completing a BA in Philosophy, Politics and Economics and already holds a BCom degree in Economics in addition to her law qualifications. ■

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Lawyers Ndalama Maliseha (left) and Buhle Lekokotla who won a landmark case, on the Hatfield Campus of their alma mater.



As Night Falls, choreographed by Nicky Haskins, received a Standard Bank Ovation Award at the National Arts Festival in Grahamstown (2011).

Drama celebrates 50 years

By Liesel Swart

Established in 1965 under the direction of the first Head of the Department, Prof Geoff Cronjé, assisted by the renowned Prof Anna Neethling-Pohl, the UP Drama Department set out to train theatre practitioners who could contribute to the rapidly developing performing arts sector at the time. For the Class of '65 the highpoints were undoubtedly a successful production of Sophocles's *Elektra*, as well as a dance drama, *Dans van die dood*.

After achieving these milestones, the Department set the stage for half a century of excellence and groundbreaking achievements in the dramatic arts during which it conferred degrees on hundreds of students who would become

"The calibre of students we attract, our past and present staff, the excellence in disciplinary training we offer and the expanded learning opportunities we create for our students form the core of our highly regarded UP Drama Department."

– Prof Marié-Heleen Coetzee,
(Head of Department of Drama)

leaders in all branches of the performing arts, theatre performance and production.

Today the Department's commitment to excellence is still unwavering and the outstanding work performed in theatre and theatre-related professions by the Department's alumni, as well as the contributions of staff and students to the academic arena, constitute a proud tradition for UP Drama.

Through the years many famous radio, television, film and theatre artists learnt their trade in the lecture halls of the Drama Department. Artists include Katinka Heyns, Tobie Cronjé, Sandra Prinsloo, Zak du Plessis, Brümilda van Rensburg, Amanda Strydom, Daphne Kuhn, Anina Peens, Anlie Hattingh, André Stolz, Gert van Niekerk, Wessel Pretorius, Annette Engelbrecht,

Ilse Klink, Anél Alexander, Reynard Retief, Reynard Hugo, Desiree Gardner, Donna-Lee Roberts, Elma Postma, Lika and Jana Celliers, Brinsley Motsepa, Melt Sieberhagen, Zenande Mfenyana, Thapelo Aphiri, Jannes Eiselen, Lizz Meiring, Erik Holm, Juanita de Villiers, Eloise Cupido, Putla Sethlapelo, Bertha le Roux, Jeanie Swiegelaar, Luan Jacobs and Mdu Nhlapo.

Prof Marié-Heleen Coetzee, Head of the Drama Department, says it flourished through the years because it managed to keep in touch with both the demands of the profession and those of a changing society. "From where the Department historically modelled itself as an acting academy that focused on training actors and directors, the focus shifted through the years to give students exposure to a range of professions in the performing arts sector, while acknowledging the transferability of drama-related skills and the possibilities of multi-disciplinary work. In our training we embrace the contemporary notion of the artist-scholar and our students explore theatre, film and related fields, such as new media, conceptually, creatively, practically and analytically. Today the Department boasts a multi-cultural environment where South Africa's rich and culturally diverse artistic heritage is acknowledged and celebrated."

A number of events were hosted in celebration of the Department's 50th anniversary, the biggest of which was part of the opening of the Krêkvars-Kopanong Student Arts Festival held in July. Birthday wishes from, and interviews with, alumni are posted on the departmental website.

An exciting future awaits UP Drama. The Department is currently the only institution endorsed by international bodies for presenting Laban/Bartenieff Movement and Lessac Kinesensic training in Africa, and aims to

become the first centre on the continent to qualify for offering instructor training for these programmes. The Department is also developing its postgraduate programmes around selected themes and is introducing a new undergraduate curriculum in 2016. The new curriculum will be aligned with the changing environment in the professional performing arts sector.

"Much has changed during the past five decades, but what has not changed is the pride in being a product of UP Drama. There was and is no better place to shape a future in the performing arts. We look forward to entralling and entertaining audiences old and young with our creative work for another 50 years," says Prof Coetzee. ■

Lank sal sy lewe!

Deur Mari Weber

Ja gewis, ek beleef die Dramadepartement as 'n stylvolle dame met die silwer skynsel van 'n halfeeu agter die blad – enersyds ter ere van die nagedagtenis van die doyenette, tant Anna Neethling-Pohl. (Ons groepie eerstejaars kon in 1972 vlugtig haar enigmatiese dampkring ervaar voor haar finale uittrede uit die akademie.) Andersyds vroulik omdat die inspraak, onderwysing, teregwysing, koersaanduiding en grondleggende kennis slegs met die geduldige hart van 'n moeder onderneem kon word.

Die unieke dramakampus met sy Masker, Bok en Lier was 'n opwindende nuwe wêreld. Hier was almal so 'n bietjie luider, gemakliker, meer kreatief en toegewyd as die ander Tukkie. In besonder klein jaargroepe het ons prakties gehad lank voor die hoofkampus enige teken van lewe kon toon, en blymoedig aangehou tot ounag. Daardie dae kon meisies nog die sowat drie straatblokke siel-



Well-known actor and playwright Wim Vorster crafted his skills at UP Drama. This photo shows Wim and the cast of *Ek onthou vir Mamma* (1971).



Train to Kanana was performed at the 2015 Krêkvars-Kopanong Student Arts Festival.

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Mari Weber het in 1974 haar graad in drama aan UP behaal en na 35 jaar bestuur sy steeds 'n drama-ateljee.

salig alleen terugstap koshuis toe, getroos met die wete dat as jy hard sou gil, een van die laataand Landboudepartement se sterk manne hopelik tot jou redding sou snel. Die byvakke vir graaddoeleindes soos Afrikaans, Engels, Bybelkunde en Kunsgeskiedenis wat ons op die hoofkampus moes bywoon was ligjare verwyder van die intieme ervaring in ons hoekie daarvan.

Hier in Duxburylaan het ons dramastudente oor drie jaar letterlik mekaar se hartklop ervaar. Hoe goed herinner ek my nie die volgepropte geel Mini van 'n medestudent op pad na die SAUK of die filmargief nie? Saamryers het sente saamgeskraap en 'n skamele 50c kon genoeg brandstof koop om 'n week mee rond te rits.

Formidabele mense het vorm gegee aan wie ek vandag is, my geïnspireer en die kennis wat ek steeds met my saamdra en oordra, vasgelê. Lektore soos Neels Hansen, wat sy passie vir karakterontleding, subteks, opera, gastronomie en samesyn vrygewig gedeel het. Flambojante Hannes Horne met sy perfekte artikulasie en 'statement'-klerekas; dramatiese Fred Steyn wie se vertolking van Orestes in ons tweede jaar my nou nog bybly. Die vaderfiguur van Carel Trichardt wat by vriend en vyand respek afgedwing het. Dierbare Milla Louw – opvoeder sonder weerga met 'n hart vir mense. Tekstiel- en ontwerpouenaar Hans du Plessis wat uit amper niks nie 'n kostuum en dekorstel kon skep. Iemand soos Sunette Hugo vir wie Spraakkunde veel meer as net asemhalingstegniek en repeterende stemklanke was. Sy het een oggend as bonus vir ons eerstejaars Eugene Marais se 'Die dans van die reën' vertolk. In my geestesoog sien ek haar lang, lenige liggaam nog 'aftrap van die hoogte'. Ons het die aftrede van die karaktervolle prof Geoff Cronjé beleef. Sy opvolger, prof Louw Odendaal, was self 'n kranige akteur en het by geleentheid kostelike komiese prosa voorgedra.

Die meeste van ons dramastudente was nat agter die ore met sterre in ons oë. Die streeksrade se verhoë was toentertyd al hoop op sterstatus, met

hier en daar dalk 'n rol in 'n fliek, sou jy die blonde, blou-oog voorkoms hê.

Hoe bring mens hulde aan 'n Departement wie se onderwysing jy vandag, 43 jaar later, steeds elke dag

toepas? As drama-juffrou bedryf ek reeds vir 35 jaar 'n ateljee op die platteland, en dank ek steeds my sterre vir die uitgebreide dramagrondslag wat ek by UP ontvang het. Ek verlustig my in kreatiewe groepklasse, Eisteddfod-afrigting, die skryf en regie van sketse, revues en tonele. Het selfs al gewaag met eenvrou-vertonings. My modus operandi is dit wat ek lank gelede geleer het, 'professionaliteit ten alle koste en bloed, sweet en tranes slegs agter die skerms'. As lid van die Raad van Afrikaanse Beoordelaars (RAB) loop ek soms mede-oudstudee by kunswedstryde raak, en die passie vir dit wat ons geleer het, is steeds teenwoordig. Ek het ook al 'n paar volwassenes suksesvol vergesel deur die driejaarkursus om deur middel van afstandsonderrig 'n Dramaliseniaat aan die Spraak en Dramakollege (SA) te verwerf.

Nee, die kursus wat UP my 43 jaar gelede gebied het, was beslis toe nie net die moeite werd sou jou naam êrens in ligte geskryf word nie. Daar is vir al die 'gewones' ook 'n lewe te make. Gelukkig het tye verander. Die televisie en magdom Afrikaanse flieks bied veel meer geleenthede aan afgestudeerdes, om van kunstefeeste nie te praat nie. Feit bly staan, ek blom waar ek geplant is. Dit wat ek aan UP geleer het, het beslis nie verouder of waarde verloor nie. As drama-onderwyser by 'n hoërskool ervaar ek dikwels die waarde van drama in ons holderstebolder moderne wêreld. Ek sien hoe afvlerk-kinders die wonder van toneel ervaar en daarna met arendstatus hul leefwêreld bekyk.

Liewe Dramadepartement, ek salueer jou. Mag die vlam van teater-etiek wat jy by elke student aansteek, steeds helder bly brand.

Tjoekoes! ■

Mari Weber saam met graad 12-leerders van Hoërskool Merensky op Tzaneen waar sy steeds drama onderrig.



Photo: Zenande Mfenyana

Zenande Mfenyana, Tuks drama alumna, remembers

Zenande, YOU Spectacular award winner for 'Favourite Actress 2014' recalls the highlights of her years as a drama student at Tuks.

"The aspects of my drama studies that I enjoyed the most were the performances we staged at the Masker and Lier theatres and the public coming to watch. It gave us a taste of life ahead as professional actors. I also enjoyed the radio and singing practical sessions. Early mornings of movement classes at Skuros were tough, but I really liked them. That's the one thing that kept me fit during my varsity journey!

"The voice lessons and the acting techniques we learnt have been immensely valuable. Now and again before I step onto set I find myself doing the y-buzz while doing the heel rock on the floor – this helps me to focus.

"After graduating from Tuks in 2007, my life became that of hopping from one audition to the next. I landed my first acting gig six months after graduating when I was cast as Rapunzel in the

children's theatre production at the Promusica Theatre in Roodepoort. Theatre productions are short-lived and I was soon out of work and looking for my next acting gig, which meant more and more auditions. It gets tiring because you start doubting yourself, but I kept going, and landed my second children's theatre gig in a play called *Madiba's Magic*. In 2010 I was cast as Thami in the movie *Liefeling*. My days at Tuks speaking Afrikaans paid off, because I was able to pull off that role with ease.

"In 2011, my life changed dramatically when I landed the role of Noluntu Memela in *Generations*. I was over the moon with excitement, and I had an amazing three-year journey on the soap. I learnt so much! Although we had a viewership of eight million people a day, I never let the fame get to my head. I remained grounded and focused on bettering my craft. In 2015, I got cast in the telenovella *Ashes to Ashes* where I play the role of Rebabedi Namane. In just three months of being on air, the show accumulated 4,5 million viewers and the numbers are still growing. I'm honoured and blessed to be part of this amazing production." ■



Die dag as jy by Kollege uitstap, stap jy die samelewing in as 'n ware man met egte beginsels en 'n Kollegehart. "Kollege is nie 'n blyplek nie, dis 'n leefwyse."

– Danie Stoltz (1973)

Oudste koshuis vier eeufees

Deur Liesel Swart

Burgers en oudburgers van die Republiek van Kollegehuis (Kollege) kan vanjaar met reg breëbors staan. Nie net het hierdie oudste UP koshuis vanjaar sy eeufees gevier nie, maar die impak wat Kollege oor die afgelope 100 jaar op die kultuur van die Universiteit gemaak het, is onmeetbaar. Dink maar aan die Universiteitslied, die Universiteitswapen, die Tuks rugbytrui, die Universiteit se gelukbringer, Oom Gert, die begin van Jool en Serrie en selfs die studentekoerant, *Perdeby*.

Kollege se diep wortels is in 1914 geplant met die bou van 'n manskoshuis op die kampus van die destydse Transvaalse Universiteitskollege (soos UP toe bekend gestaan het). 'n Jaar later het die eerste studente hul intrek in die koshuis geneem waarna verwys is as 'the hostel at the College' – vandaar Kollege se naam. In 1959 is met die konstruksie van 'n nuwe manskoshuis langs die Universiteit se proefplaas begin en het Kollege na sy huidige perseel verhuis. Kollege se eerste tuiste, so te sê reg teenoor die Aula aan die anderkant van die grasperk, staan vandag bekend as Ou Kollegehuis en huisves die Sentrum vir die Bevordering van Vakgeleerdheid.

Die Sarges

Greg Lavagna, Staatspresident van Kollege in 2015, sê die koshuis is in 1982 tot 'n Republiek verklaar. "Sekere revolusionêre groepe wou veranderinge aanbring wat die unieke gees en kultuur van die koshuis sou bedreig, en om 'n 'staatsgreep' te verhoed is daar besluit om Kollege tot 'n Republiek te verklaar. Sedertdien staan die koshuis bekend as die Republiek van Kollegehuis met 'n Uitvoerende Raad wat die koshuis se ryk geskiedenis en kultuur bewaar en voortbou op die unieke Kollegebroederskap."

Baie bekendes was deel van die Kollegeleefstyl, onder andere digter en Hertzogprys-wenner Toon van den Heever, skrywer en digter prof WJ du P



Ontgroening voor Ou Kollegehuis in 1926



Koning Zog van Albanië was 11 jaar lank 'n inwoner van Kollege en is persoonlik deur die Rektor gegroet toe hy uiteindelik van die koshuis afskeid neem.



Mej Wêreld 1965, Lesley Langley, word deur die manne van Kollege op die hande gedra.

Erlank (Eitemal), digter JRL van Bruggen, Springbok rugbyspelers Ewoud Malan, Nic Bezuidenhout en Jaco Barnard, en die vader van die Bonsmara beesras, prof Jan Bonsma.

Volgens Lavagna was daar 'n ander baie bekende inwoner van Kollege, Koning Zog van Albanië. "Koning Zog was 11 jaar lank 'n inwoner van Kollege. Blykbaar het die rektor persoonlik sy tasse gehelp dra toe hy uiteindelik van Kollege afskeid geneem het."

Die Kollegemanne is trots op hul reputasie as 'n rebelse koshuis wat dinge anders doen. "In al ons besluite stel ons die Republiek eerste," sê Lavagna. "Ons reputasie as 'n rebelse koshuis is reeds in 1919 gevestig toe Duke Erlank die vlagpaal voor die Aula geklim het om die Union Jack af te skeur. Daarna het baie insidente gevolg soos in 1940 toe die destydse rektor verklaar het dat dames eers die dag as die kloktoring pienk geverf is, in manskoshuise toegelaat sal word. Daardie aand is die kloktoring pienk geverf en van toe af is dames in manskoshuise toegelaat. En dan is daar die 1965-storie van die Kollegemanne wat ontevrede was met die keuse van Joolkoningin en besluit het om die destydse Mej Wêreld, Lesley Langley, te 'ontvoer' en vir die dag rond te dra. Volgens haar was dit die eerste keer wat sy soos 'n ware dame behandel is."

"Ook met Jool doen ons dinge anders. Ons Joolpakke is swart en wit, want die Universiteit het begin om Kollege se oorspronklike kleure

van blou, rooi en goud te dra. Ons verf ons Joolpakke in ons tweede jaar sodat elke inwoner sy persoonlikheid kan uitbeeld en om ons Kollegebroers op 'n unieke manier aan mekaar te bind. Die Joolpakke word nie jaarliks vervang nie en is 'n weerspieëling van ons Kollege-gees en -styl," sê Lavagna.

Kollege se eeufeesvieringe het hoogty gevier tydens 'n Feesweek in September. Die hoogtepunt van die Feesweek was 'n galafunksie vir meer as 300 gaste wat op die gras voor die Aula gehou is. As deel van die vieringe is Kollege se Togadagtradisie voortgesit. Hierdie tradisie het jare gelede begin in protes teen 'n reël wat die Universiteit ingestel het dat alle manstudente pakke moes dra. In reaksie hierop het die Kollegemanne hul lakens geneem, togas gemaak en so rondgeloop. Togadag het daarna 'n tradisie geword wat jaarliks deur Kollegemanne gevier word wanneer hulle, geklee in togas, die Kollegehuislied op die Aula-grasperk voor Ou Kollegehuis sing.

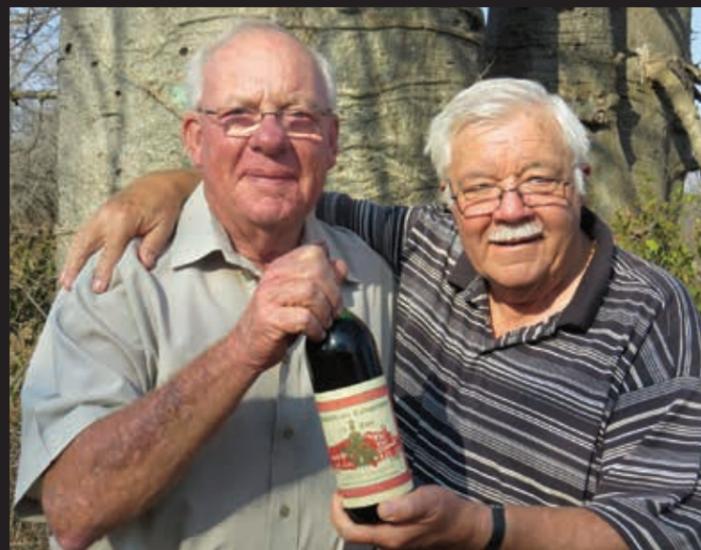
Kollege glo in tradisies, maar verwelkom ook veranderinge en het 'n baie diverse inwonersamestelling. Hier kan enige iemand 'n ware Kollegeman word, ongeag van waar hy kom en of hy rugby, sokker of viool speel. "By Kollege poog ons om unieke mans te ontwikkel wat bereid is om te belê in hul gemeenskap, tradisies respekteer en wat alle aspekte van die universiteitslewe geniet," sê Lavagna.

Tien unieke 'Sarges' hou 'n ogie oor die burgers van Kollege. Hulle is Sarge Bourke, Sarge Social, Sarge Nel, Sarge 68, Sarge Piet April, Sarge Hauptfleisch, Sarge Speedy, Sarge P, Sarge Oddjob en Sarge Rofiti.

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'n Paar oumanne trek saam



Die twee oudste lewende huisvoorsitters van Kollegetehuis is dr Vos Grey, links en Hennie van Deventer, regs.

Aan die vooraand van Kollegetehuis se eeufees, het 'n paar oud-Kollegemanne saam met hul gades oudergewoonte in die Baluleboskampie in die Nasionale Krugerwildtuin saamgetrek. Die twee oudste lewende huisvoorsitters van Kollegetehuis is dr Vos (JH) Grey en Hennie (JH) van Deventer.

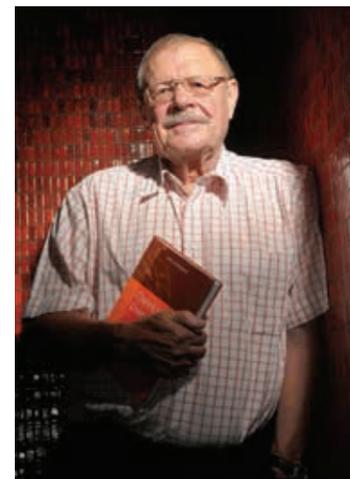
In die vroeë 1960s was eers Vos Grey, toe Hennie van Deventer en toe weer Vos Grey huisvoorsitters van Tuks se Kollegetehuis. Nou 50 jaar later het hulle weer, soos in hul koshuisdae, saam onder die stort gestaan.

Op die foto staan Vos Grey en Hennie van Deventer met 'n bottel Kollegewyn wat 25 jaar gelede vir die driekwart-eeufees gebottel is. Proppie Goosen van George het dit aangestuur. Daarmee is 'n heildronk op Kollege se 100 bestaansjare gedrink. Natuurlik is die Kollegelied uit volle bors aangehef. Selfs die seekoelie het eerbiedig geluister. Vos Grey, 'n boer van Ermelo, was onder meer voorsitter van Clover. Hennie van Deventer was redakteur van *Die Volksblad* en Uitvoerende Hoof: Koerante van Naspers. ■

In memoriam

Prof Jan Boeyens

Professor Jan Boeyens, 'n voormalige hoof van die Departement Chemie by die Universiteit van Pretoria, was buitengewone professor en senior navorsingsgenoot by die Sentrum vir die Bevordering van Vakgeleerdheid toe hy op 26 Augustus aan 'n hartaanval beswyk het.



Prof Boeyens het sy baccalaureus- en meestersgrade aan die destydse Universiteit van die Vrystaat (UOVS), en sy doktorsgraad aan UP verwerf. Van 1981 af was

hy vir 18 jaar lank werksaam by die Universiteit van die Witwatersrand en in 2000 is hy vir een termyn by UP as professor en Hoof van die Departement Chemie aangestel, waarna hy as 'n senior navorsingsgenoot in die Sentrum vir die Bevordering van Vakgeleerdheid gedien en sy aandag op sy navorsingsbelangstellings toegespits het.

Hy is as 'n internasionale leier op die gebied van kristallografie beskou en was die skrywer van 270 artikels in vaktydskrifte, asook van talle hoofstukke in boeke en konferensieaanbiedings. Hy het verskeie toekennings ontvang, onder andere die goue medalje van die Suid-Afrikaanse Chemiese Instituut vir sy monografie *The Chemistry of Matter Waves*, die Ernst Oppenheimer-Fellowship, die Havenga-prys vir Chemie van die SA Akademie vir Wetenskap en Kuns, die Claude Leon Harris-toekenning en die Alexander von Humboldt-navorsingsprys. Hy was vanjaar die eerste ontvanger van die Visekanselier se boektoekenning vir Natuurlike en Toegepaste Wetenskappe vir die monografie *The Chemistry of Matter Waves*.

Prof Ernst Krüger

Prof Ernst Krüger, Hoof van die Afdeling Sportwetenskappe en Direkteur van die Instituut vir Sportnavorsing, is onverwags op 3 Augustus oorlede. Prof Krüger, wat 31 jaar lank in diens van UP was, was betrokke by die ontwikkeling van die vakgebiede sportwetenskap en biokinetika aan UP. Hy het 'n belangrike rol gespeel in die korrekte kondisionering en dus in die sukses van die Universiteit se topatlete.



Prof Papa Maithufi

Prof Maithufi wat vir jare aan UP se Regsfakulteit verbonde was, is op 15 Mei, 'n dag na sy afskeidsgeselligheid by die Fakulteit, oorlede. Prof Maithufi was 'n professor in Privaatreg by UP vanaf 1999 tot in April vanjaar toe hy 'n professoraat by Unisa aanvaar het.

Prof Herbert Willi Kunert

Prof Herbert Willi Kunert of the Department of Physics passed away on 14 June. Prof Kunert was born in 1943 in Poland, and was appointed as a senior research fellow at UP in 1986



and as senior lecturer in 1989.

In 2008 he retired as associate professor in the Department and was thereafter employed as a part-time researcher and supervisor to postgraduate students. He held a C rating from the NRF.

Unique to Kollege

- Kollege's 'Heilige Klippe', where only citizens of the Republic are allowed to sit.
- The Arch of Trajanus, underneath which only citizens of the Republic are allowed to walk.
- The 'Orgbad', a small splash pool for socialising and swapping stories.
- Spiesang, the pig that squealed so loud at a meeting about the beer gardens that the meeting had to be adjourned and no major decisions could be made. Spiesang became an honorary knight of Kollege. (Kollege men have the opportunity to be knighted in their second year.)
- Ten unique and highly respected 'sarges' borrowed from various sources. Most of these sarges are 'policemen' who keep an eye on Kollege residents. They are Sarge Bourke, Sarge Social, Sarge Nel, Sarge 68, Sarge Piet April (a statue of a retired Kollege worker), Sarge Hauptfleisch (stolen from Sonop by Piet April), Sarge Speedy, Sarge P (a cannon), Sarge Oddjob and Sarge Rofiti (a horse). In 2006 a new Sarge was 'created', but was voted too ugly to become a Sarge. He was subsequently demoted to corporal and donated to a women's residence.





Prof Amanda Minnaar

Prof Amanda Minnaar van die Departement Voedselwetenskap, Fakulteit Natuur- en Landbouwetenskappe is op 26 September oorlede.

Prof Minnaar het in 1986 by UP aangesluit. Sy was vir baie jare Hoof van die Departement Voedselwetenskap en permanente lid van die Fakulteit se Werwing- en Keuringskomitee.

Prof Minnaar het nasionale en internasionale erkenning ontvang vir haar rol op die gebiede van voedselprosessering en -preservering; sensoriese evaluasie; en die prosessering van vrugte en peulgroentes. Sy was President van die Suid-Afrikaanse Vereniging vir Voedselwetenskap en -tegnologie.

Mr Hugo Olivier

Mr Hugo Olivier, born in 1935, was the first Director of Sport at the University of Pretoria. He passed away on 23 August. He was a lecturer at both the former Normaalkollege Pretoria and Goudstad Teachers Training College before assuming the position as Director of Sport at UP in 1974. He resigned from UP in 1990 to take up a full time position in the former national sport structures where he made a significant contribution to the normalisation of sport in South Africa.



Prof Jan van der Merwe

Prof Jan van der Merwe, former Dean of the Faculty of Medicine, passed away on 30 September after a long illness. He joined UP in 1981 as Head of the Department of Obstetrics

and Gynaecology. He was appointed as Dean of the Faculty of Medicine in 1987, a position he occupied with distinction until his retirement in 1995. During his deanship he was instrumental in many improvements, including initiating the development of an innovative medical curriculum.



Prof Van der Merwe

Prof Van der Merwe was well-respected in South Africa and internationally for his pioneering research on in vitro fertilisation. He served on a number of statutory councils and did his profession proud. After retiring from UP, Prof Van der Merwe played a significant role in the medical scheme industry, particularly in advancing managed health care.

Me Bokkie van Staden

Me Van Staden het vir 41 jaar by die Universiteit van Pretoria gewerk voordat sy op 21 Oktober oorlede is. Me van Staden het in 1974 in die Rekordafdeling begin werk en het vervolgens ook by Menslike Hulpbronne en Akademiese Administrasie gewerk. Sy het die laaste 28 jaar by die Buro vir Institusionele Navorsing en Beplanning (BINEB) gewerk en het in Junie vanjaar, as gevolg van siekte, met vervroegde aftrede gegaan.



Sy het 'n waardevolle bydrae gelewer om die staatsubsidie aan UP in die era voor 2004 te optimeer en om deur haar spesialiskennis die HEMIS studente-voorskrifte suksesvol te implementeer. Sy het 'n leidende rol gespeel in die loodsing van die HEQSF projek. ■

Errata

Daar het twee foute ingesluit in die artikel oor die 2014 Laureaat-toekennings in die eerste 2015-uitgawe van *Tukkie*.

Daar is verkeerdlik in die onderskrifte by twee foto's na dr Derize Boshoff as dr Derize Botha verwys en na prof Roelf van den Heever as prof Roelf van Heerden.

Die Universiteit vra om verskoning vir hierdie oorsig en vir enige ongerief wat daardeur veroorsaak is.

In an article on the 2014 Laureate awards which appeared in the first edition of *Tukkie* in 2015 two unfortunate errors crept in.

The captions to two photographs erroneously referred to Dr Derize Boshoff as Dr Derize Botha and to Prof Roelf van den Heever as Prof Roelf van Heerden.

The University apologises for this oversight and for any inconvenience it may have caused.

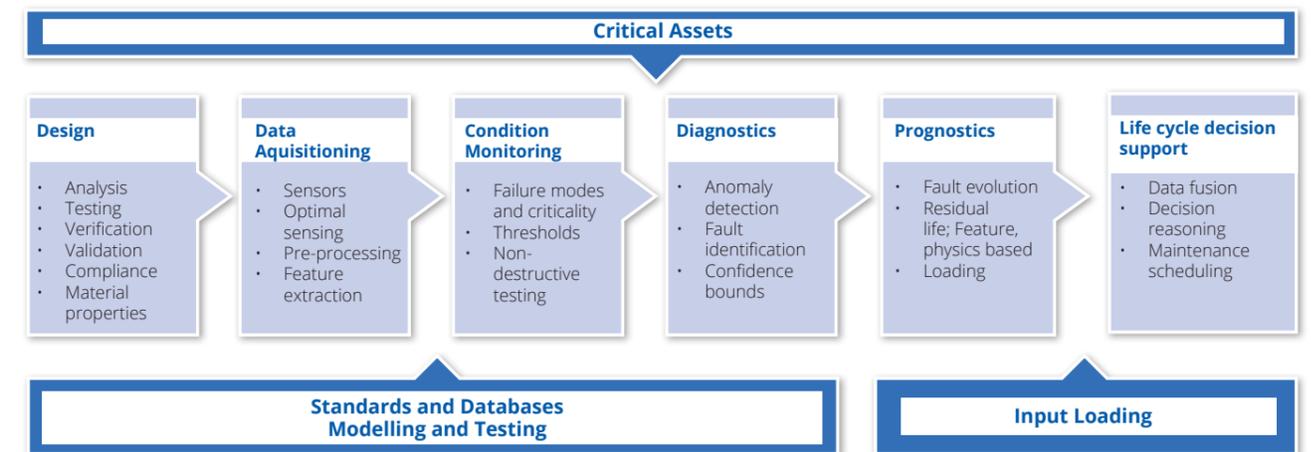


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The Centre for Asset Integrity Management (C-AIM) at the Department of Mechanical and Aeronautical Engineering, is unique in that it integrates its analysis and testing capability in assessing the structural integrity and performance of physical assets, with sound scientific research to inform asset management decisions within the context of asset life cycles.

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