



Paul Allen, childhood friend of Bill Gates, and co-founder of Microsoft, was awarded the degree of Doctor of Philosophy (honoris causa) in recognition of his provocative and catalytic contribution to innovations and inventions that have brought the technology of the digital age within reach of millions of people around the world; and for his entrepreneurial capability in the field of computing and informatics.

# HIGHLIGHTS 2013

THE NMMU Business School's MBA programme now ranks among the top 200 in the world. Of those, NMMU, UCT and Stellenbosch were among only seven executive MBA programmes to receive a four-star rating, the highest possible grade. This rating is according to the Eduniversal 2013-2014 global ranking of Executive MBA degrees, a leading resource used by students around the world to compare top business schools.

Bob Wood, 84, received his PhD in Development Studies, making him NMMU's oldest graduate to date. Dr Wood went to university for the first time at the age of 72 after retiring as an accountant and businessman. For his doctoral studies he examined the relationship between business and apartheid in South Africa particularly the Western Cape, from 1960 to 1990.

The voices of the NMMU Choir can now be heard all over the world in the soundtrack of an international video game. The choir recorded five soundtracks in the SABC studios, for the video game, Civilisation V. The choir, which turned 20 this year, recently returned from a successful tour in China.

NMMU hosted the annual launch of First Things First, a national campaign for HIV testing and counselling within higher education, with Health Minister Dr Aaron Motsoaledi as keynote speaker. The campaign targets 23 institutions of higher education and some 50 Technical and Vocational Education and Training colleges (TVETs). Through its pro-active Campus Health Services division, NMMU was the first university in South Africa to become a distribution site for anti-retrovirals (ARVs).



SWEET SUCCESS ... The NMMU Madibaz rugby team had their best ever season in the six-year history of Varsity Cup finishing fourth on the log and playing in the semi-final against Maties, losing by only one point (16-15). The team finished fourth again this season.

BREATHTAKING ... Schoolboy David Spanjaard jumps into Die Watergat at Jeffreys Bay in a scene from NMMU's first TV advertisement which is entirely home-grown. From the production crew and actors through to the locations and voice over, the 30-second advertisement is a proudly Eastern Cape production. The advert also includes the voice of international actor John Kani, who still calls New Brighton home and is an NMMU honorary graduate. The music is by Ethan Rank, a former NMMU student. Unlike traditional university advertisements, NMMU opted to appeal to people's emotions in sharing the "moment" when you turn dreams into reality.



GOLDEN OPPORTUNITY ... Bachelor of Emergency Medical Care student Clifford Hanks, an intermediate life support paramedic (right), accompanied by NMMU's new paramedic degree programme co-ordinator Nico Louw, gets insight into some of the ongoing training that the new degree will offer its students in conjunction with voluntary organisations like the Mountain Club of South Africa. The four-year degree, which started in 2014, will form one of the first building blocks towards a fully-fledged Medical School for NMMU by 2020.

## New infrastructure for all NMMU campuses Building boom continues



MORE ACCOMMODATION ... NMMU now offers a further 312 beds for its on-campus students.

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Did you know? NMMU's new Business School is the first educational building in the country to get four-star accreditation from the Green Building Council of SA

A FURTHER R235m was invested in building and equipment across NMMU's six campuses in Port Elizabeth and George early this year and last.

While the bulk of the funding has come from the Department of Higher Education and Training, NMMU also contributed R50m towards the various projects which include:

- ▶ The new "green" Business School (R116m) which opened its doors in April.
- ▶ Second Avenue Campus Library (R8.8m) upgrade completed in March.
- ▶ Summerstrand Student Residence (R117m) on South Campus is home to 312 students.
- ▶ Revamping and re-purposing of the old Human Movement Science premises for the Education Faculty (R4m) on South Campus.
- ▶ Second Avenue Campus's 200-seater lecture hall (R8.8m) which opened in July 2014.
- ▶ Various improvements for disabled students including lifts, ramps and ablution facilities (R8m).

Other projects under the spotlight for 2014 are:

- ▶ A new gym at George Campus (R3m) to be built near the pool area.
- ▶ Alumni House (R10m) close to the lake area on South Campus.
- ▶ A bitumen lab (R8m) for Civil Engineering studies for the courtyard of E block, North Campus.
- ▶ An art gallery (R3.1m) within the historic Eendrag building at Bird Street Campus, which is to become a hub for postgrad arts.
- ▶ Planning stages:
  - ▶ Education Faculty Foundation Phase centre (R56m) for Missionvale Campus.
  - ▶ Life Sciences building (R57m), to be built alongside the present Physics building on South Campus.
  - ▶ A further extension to InnoVenton (R9m), close to the university's South Campus.
  - ▶ An Engineering building for Mechatronics (R46m) on the site of the present hockey astro on North Campus.

## Approval for Medical School

NMMU moved a step closer to having a fully-fledged medical school when its Council agreed to support bold new initiatives by the university to meet an ever-growing national need for qualified healthcare professionals.

With the National Health Insurance (NHI) plan imminent, the university is embarking on a "step-ladder" approach towards its long-term goal of establishing a medical school

by systematically introducing a number of key qualifications in the field of healthcare.

A full meeting of the NMMU Council, chaired by Judge Ronnie Pillay, agreed to plan and "actively support" the establishment of a medical school at NMMU in a bid to meet healthcare skills requirements for the country, and especially the Eastern Cape. It has received vast support among communities for such a medical school.

The university has already revamped its Faculty of Health Sciences into four new schools, introduced a new BSc Dietetics degree and a pharmacy assistant's qualification, and is working closely with key stakeholders, including the Ministry of Health, the Health Professions Council of South Africa, the Council for Higher Education, provincial government and Walter Sisulu University, to ensure that an undergraduate degree for medical doctors is in place by 2018.

## Africa's maritime university

PLANS are afoot for NMMU to establish a Marine and Maritime Faculty – and ultimately position the university as the maritime university of South Africa and the African continent.

Vice-Chancellor Prof Derrick Swartz said the university was ideally situated in Nelson Mandela Bay, with its rich coastline and two major harbours, the Port of Ngqura and Port Elizabeth Harbour.

He said Transnet's R2-billion deepening of Port Elizabeth's harbour would see the city becoming a "trans-shipment hub" (where goods or containers are shipped to an intermediate destination, then transported by sea/land to another destination). Ngqura would become the city's commercial port while Port Elizabeth Harbour would increasingly be used for marine tourism.

Prof Swartz said he hoped to "position the university to create opportunities to not just take advantage of our maritime space but to grow it into a vibrant economy".

"South Africa has 1 200km of coastline, yet we have never developed a maritime consciousness. We are not a maritime nation."

Earlier this year, NMMU signed a Memorandum of Co-operation with the World Maritime University in Sweden.

The university was also awarded South Africa's first Research Chair in the Law of the Sea and Development in Africa, which will also assist the university in positioning itself as a major contributor with regard to training and research in the maritime field.



Did you know? Our Facebook fan base increased by over 1000 "likes" during the graduation period as a result of the photographs posted on the NMMU4U page. This "value-add", along with live streaming, is appreciated by graduates and their families.



## 2013/14 | Annual Review

An award-winning publication

## Looking back, we look forward to ...

LOOKING back at 2013, NMMU has enjoyed a productive year, where staff and students, have continued to fly our flag high, proudly representing the institution.

We also look forward to all the growth and development taking place at NMMU as we've celebrated a number of "firsts", like our first television advert and the start of a paramedic degree, one of the first building blocks towards our fully-fledged medical school.

Our growth includes a 25% increase in the number of rated researchers and a further 5% rise in our alumni since graduation.

We continue to develop as an institution as we experience improvements in our infrastructure and welcome several new Research Chairs.

NMMU continues to live out its six core values of the institution namely: diversity, ubuntu, excellence, integrity, responsibility and respect for the natural environment, which is evident in the articles throughout this publication.

We trust that you will enjoy reading this: a publication that captures the year under review. You can continue to keep up-to-date with our latest happenings by connecting with us on Facebook and Twitter.

Editor: Lyndall Sa Joe-Derrock  
Lyndall.Sa.Joe@nmmu.ac.za



TRIPLE TRIUMPH ... Studying for their masters degrees in Labour Law at NMMU brought three brothers (from left) Marius, Charles and Francois Grigor together from as far afield as Kuruman and Kroonstad. They wanted to spend more time together and studying seemed to be a good way of doing this. They started at the NMMU Business School with Labour Law and Labour Relations and the Practical Labour Law course to prepare for the LL.M. Despite personal sacrifices and challenges, such as Charles being diagnosed with Parkinson's disease and his wife Sonja with cancer, they persevered and graduated this year.

## Initiatives to get Vision 2020 buy-in Transforming NMMU

INSTITUTIONAL culture enlivening sessions are among the initiatives underway to positively transform NMMU as part of the university's strategic plan, Vision 2020.

The ongoing sessions at NMMU introduced in 2012 come in the form of gratitude rounds, cafe chats, courageous conversations and much grappling over questions about working at the university.

The sessions are part of a drive to transform NMMU in line with its vision as "a dynamic African university" as a leading higher institution of choice for both staff and students. They are also an intervention in response to findings in an extensive institutional staff survey.

Some of the key questions being asked:

- ▶ What does it mean to be an African university?
- ▶ Are black staff and students still experiencing racism at NMMU?
- ▶ What exactly is a "humanising pedagogy"?
- ▶ What is the role of Professional and Academic Support Staff (PASS) in promoting the "academic heartland"?
- ▶ What does a sustainable future look like?

The collective daily experience of life and work at NMMU is key to the University's future. For institutional culture recognises whether staff are feeling valued and recognised, excited and energised; whether they understand and are actively working toward the values and Vision 2020 daily.

It's whether staff feel they belong, that their voice matters, that they can make a difference, that they can contribute to the "public good" purposes of NMMU and the transformation of society, says Iize Olckers, who is guiding the process.

We believe the spirit of the university's values and Vision 2020 is already within all of us

She says with South Africa now 20 years into its democracy, it is important as a new generation university that NMMU commits – more than ever before - to right the wrongs of the past and create a joint sustainable and prosperous future. "We believe the spirit of the university's values and Vision 2020 is already within all of us. "Sometimes it is simply the need to create the conditions and the environment in which our highest dreams for ourselves, each other, and our university can be 'enlivened', re-energised, activated and set free."



## Our vision, mission & values

**Vision**  
To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future.

**Mission**  
To offer a diverse range of quality educational opportunities that will make a critical and

constructive contribution to regional, national and global sustainability.

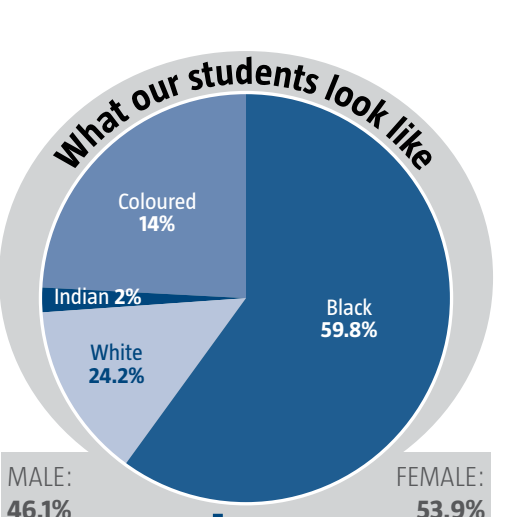
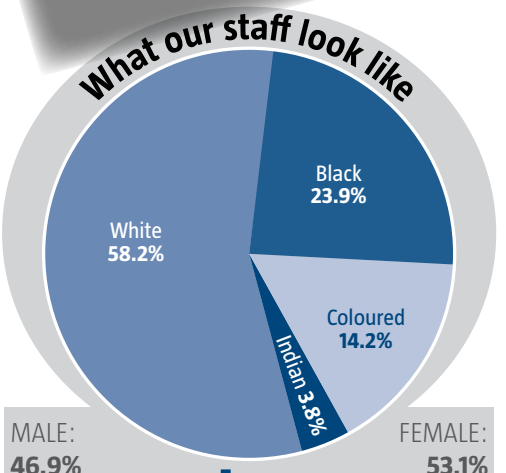
**Values**  
Our six core values serve as a compass for our actions and describe how we should behave in the world.



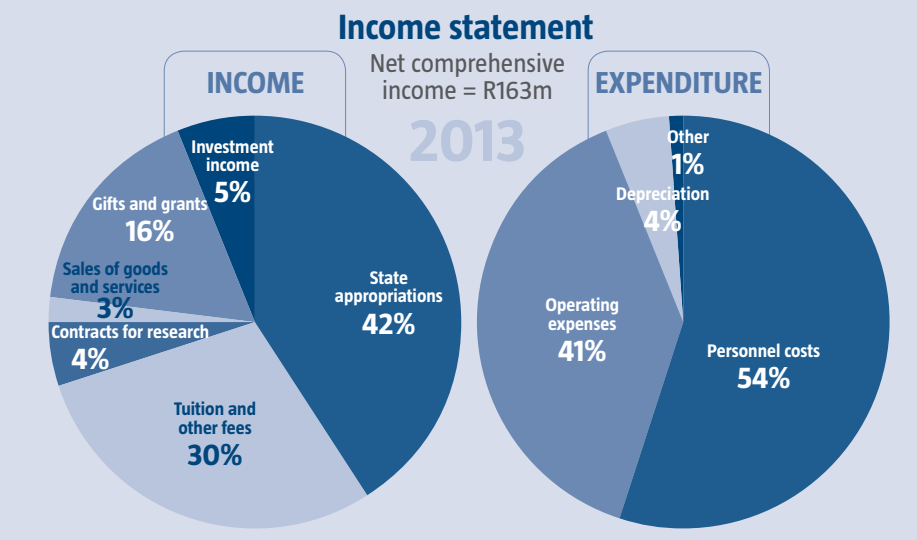
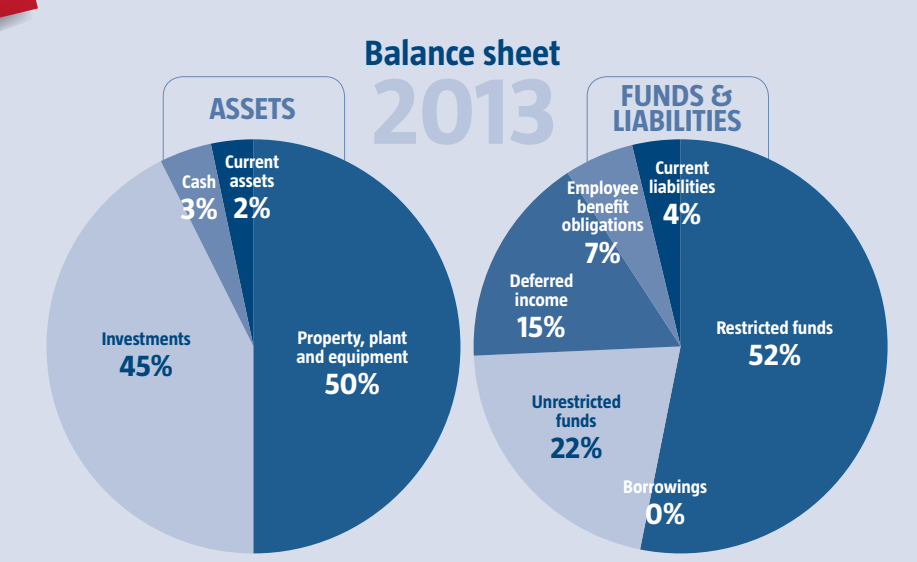
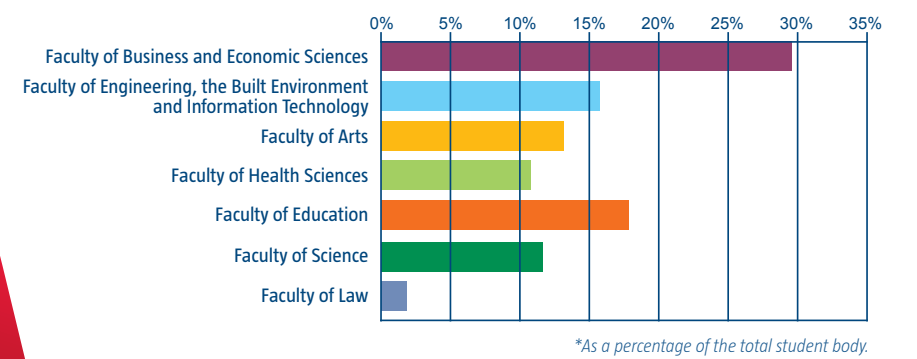


**Nelson Mandela Metropolitan University**  
for tomorrow

27 000 students, studying across 450 programmes in 120 different career fields, across six different campuses, in two different cities and ONE dynamic African university – NELSON MANDELA METROPOLITAN UNIVERSITY



**What we're studying\***



**Briefs**

**Best student**

BTECH Electrical Engineering graduate Keenan Coverly (right) was awarded the "Best B'Tech student" from all universities of technology and comprehensive universities in the country in any engineering discipline by the Institute of Professional Engineering Technologists.

His average mark was 88%.

**Water baby**

BCom Law second-year student Jessica Roux (left) – a top South African open water swimmer – won the 2013 Spar River Mile.

Jessica, who competed in the 10km Open Water Swim at the 2012 Olympics, led the race at Sundays River from start to finish. Competitors come from throughout South Africa and overseas for the event.

**Singing talent**

SECOND-YEAR Music student Amanda Antony (right) was selected as one of only four singers from Port Elizabeth for the Top 100 in the 2013 Idols competition.

**Chewing success**

THIRD-YEAR Graphic Design student Rhett Mullins (left) won the chewing gum category at the 2013 IPSA (Institute of Packaging South Africa) Student Gold Pack Awards at the Wanderers Club in Johannesburg.

The annual competition gives students the opportunity to showcase their skills and creativity in developing packaging solutions and concepts. Rhett created a chewing gum concept, termed GUM, targeted at young males.

**Alumni success**

ALMOST half of the 2014 Nelson Mandela Bay Business Chamber's Top 40 Under 40 stars are NMMU alumni, including award-winning Xhosa knitwear designer Laduma Ngxokolo.



**PIONEERS** ... NMMU's first-ever fencing team to represent the university at the annual University Sports South Africa (USSA) fencing tournament in Bloemfontein late in 2014 included (from left) Yabiso Nyati, Chumani Nyezi, alumnus Jan-Paul Raper (manager/coach at USSA), Masixole Xilinxha and Ambesa Mqijima. Photograph Werner Hills (Die Burger).

**Beyond the Classroom**

ANOTHER 217 students have benefitted from NMMU's Beyond the Classroom (BTC) voluntary leadership programme, now into its fifth year.

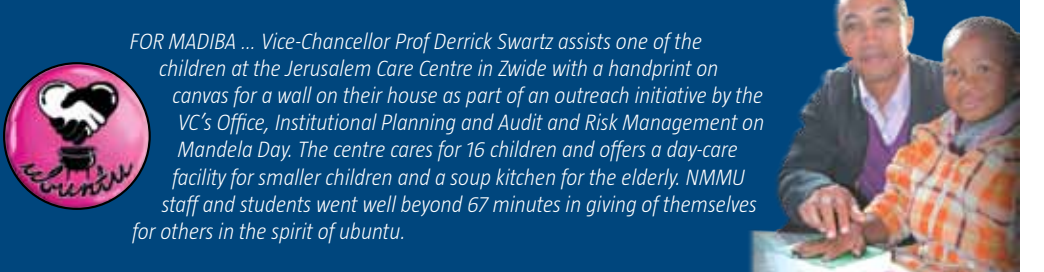
The programme introduces students to the requirements of leadership in a practical and creative manner, assisting them to develop skills needed for effective, ethical leadership. It also explores and addresses the importance of diversity in daily interactions, encourages teamwork with others from diverse backgrounds, enhances skills in conflict resolution and communication, and encourages intellectual growth over a year-long period.

Students are also required to complete 20 hours of community service and this, like every module of the course, ensures that participants are encouraged "to get off your umtarara!"

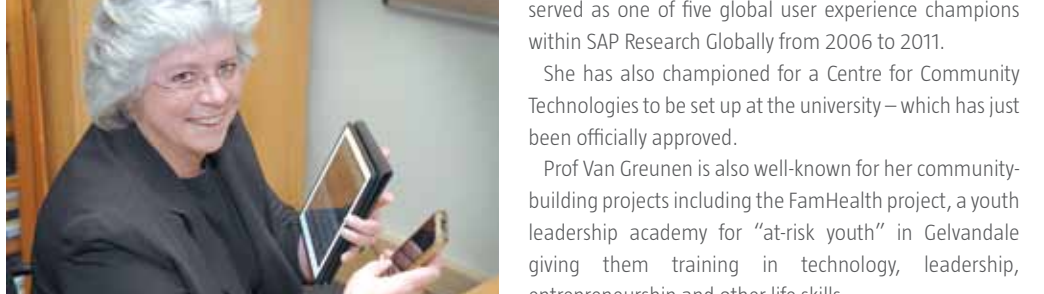


**SOLAR WHEELS** ... Students from the Advanced Mechatronic Technology Centre (AMTC) are not only in the game for competitions and research. Together with the rest of the School of Engineering, they are also changing the lives of people with disabilities at Cheshire Home near South and North campuses. The solar car team took their solar car Photon to the residents where they also upgraded their wheelchair workshop and worked on wheelchair designs.

**GREEN CAMPUS** ... Second-year Game Ranch Management student Pieter du Plessis, who is also a falconer, shows off a Jackal Buzzard, as part of Green Week on George Campus. Nature Conservation students shared and interacted with some 300 learners from schools in the area. Green Week included an opening rag procession, clearing of alien vegetation by third-year Wood Technology students together with their lecturers, snake displays, talks on rhinos, frogs, bones and leopards, fish species, great white shark biology and conservation, and permaculture. An ethical hunting stand introduced learners to ethical hunting and firearm handling. Campus students also showcased their creativity with a recycled materials fashion show. The initiative received extensive media coverage.



**FOR MADIBA** ... Vice-Chancellor Prof Derrick Swartz assists one of the children at the Jerusalem Care Centre in Zwide with a handprint on canvas for a wall on their house as part of an outreach initiative by the VC's Office, Institutional Planning and Audit and Risk Management on Mandela Day. The centre cares for 16 children and offers a day-care facility for smaller children and a soup kitchen for the elderly. NMMU staff and students went well beyond 67 minutes in giving of themselves for others in the spirit of ubuntu.



**BLUE tooth scales that instantly transmit data to a PC and stethoscopes, designed to measure heart murmurs in children that connect to mobile devices are just some of the ways primary health care is going high-tech.**

It's called e-health or m-health – short for electronic and mobile health – and School of ICT's Prof Darelle van Greunen who has spent three years driving research in this area, hopes it will improve school and community healthcare throughout South Africa, right up to its most remote corners.

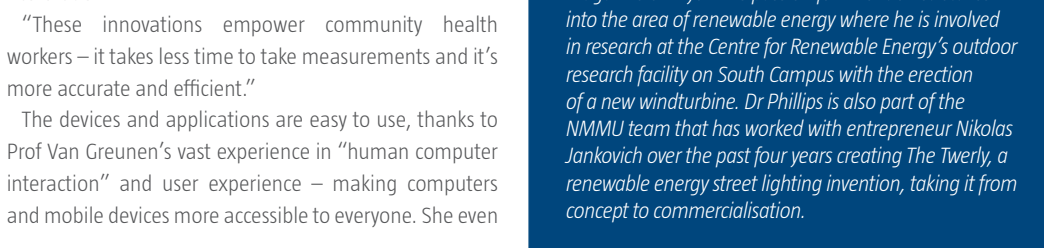
"The technology is cutting-edge, everything is linked to a tablet," said Prof Van Greunen.

The data is filed away in cyber space, effectively creating a health profile for patients, that is nonreliant on old-fashioned clinic cards.

"Working with clinic nurses who go out to the schools, we're busy creating health profiles of children, from Grade 1 to Grade 12.

"These innovations empower community health workers – it takes less time to take measurements and it's more accurate and efficient."

The devices and applications are easy to use, thanks to Prof Van Greunen's vast experience in "human computer interaction" and user experience – making computers and mobile devices more accessible to everyone. She even



**SAYING NO...** NMMU's Faculty of Engineering, the Built Environment and IT female staff members including (from left) Madelein Brown, Sam Gqomo, Colleen Hopgood, Darren Foutie, Nosipho Sam, Lenique Bossr, Keziah Tommy, Charlene Dale, Gwen Kleinhans, Zandra Kolesky and Margaret Brittain made a visible show of their support for the worldwide No Violence Against Women and Children campaign by wearing black on 15 February.

**Briefs**

**Academic Trustee**

BUSINESS School Director Professor Steve Burgess (right) was elected as one of 12 academic trustees for AiMark, a non-profit partnership of international fast-moving consumer goods companies and leading marketing research firms, such as Unilever and Procter & Gamble. AiMark collects continuous data from more than 200 000 households in 53 countries.

**Forum member**

TOURISM Department head Hugh Bartis (right) was appointed by then Minister of Tourism Martinus van Schalkwyk to serve as a member of the Research Policy Expert Forum.

The Forum was established to respond to challenges highlighted in the National Tourism Sector Strategy (NTSS) which includes a lack of clear tourism research in South Africa as well as policy gaps regarding the development of the sector.

**Special bursary**

INDUSTRIAL and Organisational Psychology's Michelle Renard (left) has been awarded the South African Reward Association (SARA) annual bursary to complete her PhD studies through NMMU.

This bursary is awarded to a masters or doctorate that will "significantly contribute to the discipline of Reward Management within South Africa". Michelle's PhD focuses on how intrinsic rewards provided to non-profit employees in South Africa and Belgium will influence their levels of intrinsic motivation, work engagement and intention to quit.

**National award**

MARKETING and Corporate Relations' Louise Solomons (right), the club coach for NMMU's Toastmasters Club, is the winner of the John Whiffen Award.

The award recognises a mentor who has helped fellow-Toastmasters during the year.

**Key appointments**

NMMU's new Registrar: Dr Farooq Goolam



**TOP AWARDS** ... Joining Botany's Prof Janine Adams (far right) as NMMU's 2013 Researcher of the Year was Economics lecturer Badroen Ismail (second from left) as Excellent Teacher of the Year. Art lecturer and artist Andrieta Wentzel (left) won the Performing and Creative Arts Awards together with jazz guru, Music's John Edwards; Engineering's Dr Russell Phillips (centre) won an award for Outstanding Innovation Achievement and the Engagement Excellence Award went to Education's Prof Paul Webb (second from right).

**Honouring top academics**

ONE of the country's leading experts on estuary conservation and management, Botany's Prof Janine Adams, was recognised at the Research and Teaching Awards ceremony which also celebrates the achievements of top academics in the creative and performing arts, innovation and engagement.

Joining Prof Adams as Researcher of the Year on the podium at the Boardwalk Convention Centre was Economics lecturer Badroen Ismail.

In total, 42 staff members were recognised for excellence in their particular fields.

Prof Adams, who was also named the Science Faculty's Researcher of the Year, is passionate about her field of expertise. She is a water and estuary authority, president of the Southern African Society of Aquatic Scientists and a fellow of the Royal Society of South Africa.

She has just completed her four year term as chair of South Africa's Water Research Commission.

"My passion is working with others, linking science, policy and management to ensure the conservation and sustainable use of South Africa's estuaries," said Prof Adams.

An equally delighted Mr Ismail said he was thrilled to be able to "contribute towards developing the human capital of tomorrow's leaders".

- Researchers of the Year**  
Dr Wendy Isaacs-Martin, Profs John Smallwood, Mark Watson and Avinash Govindjee
- Emerging Researchers of the Year**  
Drs Enaleen Draai, Janine Kruger, Nokhanyo Mayaba and Gill Deatly and Prof Essie Ricks.
- Excellent Teacher awards**  
Drs Hilda Thomas, Kathija Adam, Mariana Gerber and Susan Burton, Adv Razaana Denson and Willie Louw.
- Commendations to Teaching Excellence**  
Janelle Vermaak, Dr Mariana Gerber and Adv Razaana Denson

**Growing number of NRF researchers**

OVER the past three years, NMMU has seen a 25% increase in the number of researchers rated by the National Research Foundation (NRF) – an important benchmark of research excellence in South Africa.

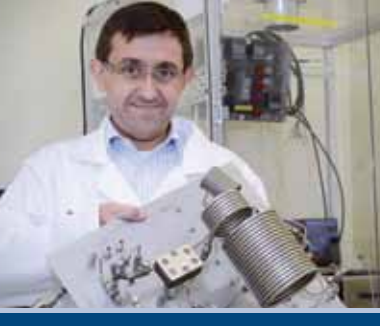
With 73 NRF-rated researchers, the university prides itself on being among the top 10 South African universities in terms of NRF-ratings.

Among these are two A1-rated researchers – the highest accolade for researchers who meet NRF's criteria for international scholars in their respective fields for the high quality and impact of their recent research outputs".

They are distinguished professor of botany Richard Cowling and geology professor Prof Maarten de Wit, who occupies NMMU's Chair of Earth Stewardship Science.

**SMARTER CHEMISTRY**

NMMU newcomer Prof Paul Watts (right) heads a new research chair in microfluidic or flow chemistry, a discipline that uses more effective methods for chemistry research and is particularly apt for helping industry.



**Four new research chairs**

NELSON Mandela Metropolitan University's research profile continues to improve with news that the institution has received four new research chairs.

**They are:**

- Shallow Water Ecosystems led by Prof Renzo Perissimotto
- Law of the Sea and Development in Africa led by Prof Patrick Vrancken
- Microfluidic Bio/Chemical Processing headed by Prof Paul Watts
- Earth Systems Science headed by Prof David Bell

**Briefs**

**Top appointment**

PROFESSOR Heather Nel, Senior Director: Institutional Planning (right), has been appointed to a ministerial committee to develop a national articulation policy for the post-school education and training sector. The appointment was made by the Minister of Higher Education and Training, Blade Nzimande.

**Country shaper**

LAW's Prof Avinash Govindjee (left) was chosen as one of the Mail & Guardian's 200 Young South Africans in 2013.

Prof Govindjee was also included in the second Nelson Mandela Bay Business Chamber's Top 40 under 40, published late in 2012.

**Teaching award**

PHARMACY'S Prof Ise Truter (right) was awarded the Academy of Pharmaceutical Sciences Johnson & Johnson Distinguished Teacher of the Year Award at the 2013 Academy of Pharmaceutical Sciences Annual Conference in Cape Town.

It's the second time that Prof Truter has received this award.

**Teaching award**

WAYNE Muller, Deputy Director: Financial Aid (left) has been elected as the new President of the Board of Financial Aid Practitioners of South Africa. This body represents all universities and FETS in South Africa and is also an advisory body for the NSFAS board on Financial Aid issues.