

## Protecting Petra: UCT team maps ‘wonder of the world’

The Zamani Research Group of UCT’s Geomatics Department is in Jordan, partnering with UNESCO and other international institutions, to digitally survey and map the rock city of Petra, the fabled ‘rose-red city, half as old as time’. Their work will underpin a sustainable stability plan for the geologically fragile World Heritage Site.

It’s listed by the *Smithsonian Magazine* as one of the 28 places to see before you die.

Located halfway between the Dead Sea and the Gulf of Aqaba in Jordan, its lofty tombs and monuments carved into the oxidised sandstone mountains, the prehistoric city of Petra is an architectural and cultural oasis at the foot of the gorge- and tunnel-riddled Mount Hor, or Jabal Haroon, the burial place of Prophet Aaron.

Once a thriving centre of trade, Petra was the capital city of the Nabateans, a nomadic people whose empire rose to its peak between 400 BC and AD 100. But the city was lost to the Western World for seventeen centuries until in 1812, Swiss traveller Ludwig Burckhardt gained entry, disguised as a Bedouin.

In 1985 UNESCO declared Petra a World Heritage Site. Now it attracts up to 5,000 tourists a day in high season. But its sustainability is being threatened by earthquakes and floods – and by its own geological fabric: the increasingly unstable 500 million-year-old iron-red cliffs.

Part of its mystique lies in its inaccessibility. Entrance to Petra is through the Siq (meaning ‘crack’), a narrow slot canyon up to 120m high and 1.2km long that traces the Wadi Musa or Moses River. From between the vertiginous cliffs the Siq deposits you directly in front of the Treasury (Al Khazneh).

If you’re a Harrison Ford fan you’ll remember it well. There’s that scene in *Indiana Jones and the Last Crusade* where Jones junior (Ford) and senior (Sean Connery) rush from the Siq into the labyrinths of the Treasury in search of the Holy Grail.

In fact, the Treasury is only a façade with a small hall, once used as a royal tomb.

But if Hollywood is less interested in detail and authenticity, not so the Zamani Research Group at UCT’s School of Architecture, Planning and Geomatics.

Led by veteran Emeritus Professor Heinz Rüter, the team of Ralph Schroeder, Roshan Bhurtha and Stephen Wessels is partnering with UNESCO, the Jordanian Department of Antiquities, and ISPRA (the Italian Institute for Environmental Protection and Research) on a million-US-dollar, 30-month contract to produce a stability plan using sophisticated surveying and laser-scanning mapping techniques.

It’s something of a coup for the team.

They’re not just consultants on the project; they’re partners, says Rüter. And they come with a reputation, highly respected for their heritage documentation skills. They employ laser scanning, conventional surveys, GPS surveys and photogrammetry to produce Geographic Information Systems (GIS), 3D models and



Emer Prof Heinz Rüter (far right) and his team at work with their scanners in the Siq that is the entrance to the fabled city of Petra, Jordan, the rock-cut city noted also for its water conduit system. Oxidisation of the rock creates marbled colours. Their Jordanian assistants are Tawfik (far left) and Jamal (third from left). The UCT team is Roshan Bhurtha (second from left), and Stephen Wessels and Ralph Schroeder (second and third from right).



Mighty architects: The Nabateans carved their tombs and edifices into the multi-hued rocks of Petra, which once occupied an important position on the spice and incense routes from east Asia and Arabia.

interactive panorama tours of heritage sites.

They’ve covered 40 sites in 13 countries and have digitally mapped many of Africa’s famous heritage landmarks, from Fort San Sebastian on Ilha de Mozambique, and the fabled mud Grand Mosque in Djenné, Mali, to the rock-cut churches of Lalibela in Ethiopia, and the complete Valley of the Queens in Luxor, Egypt. In the past two years Rüter has published five papers, and last month delivered a workshop on their work to the Chinese Academy of Science in Beijing.

Petra offers a different challenge. Here the plan is also to sustain the site by identifying and monitoring unstable slopes and sections at risk in the Siq.

“Much of the city has been destroyed because of natural weathering and earthquakes,” says Rüter. “Using GPS and photogrammetry, we are mapping the walls of the Siq to look for cracks and fissures and anything that could assist to create a risk management plan to maintain slope stability.”

It’s their second visit to Petra following a 2011 Mellon-funded trip to conduct a 3D laser scan of the Siq’s lower section and the Royal Tombs, including the Urn Tomb.

There are a number of components to the current operation. They will contribute to the design of the Siq Monitoring System, develop a GIS for the entire Petra National Park Area, and create 3D computer models of the principal temples and tombs of Wadi Araba and Wadi Farasa, including the Treasury, Royal Tombs, Urn Tomb, Monastery and the Amphitheatre. All this will be combined in an interactive virtual tour of the site. Honours students from the Department of Computer Science are contributing to the virtual tour.

The partnership requires that they share

their skills with their Jordanian counterparts, which they do by including local professionals and students in their field campaigns.

There is richness in working with the Petra community, adds Rüter. Over 20,000 photographs on his database show the arid but dramatic landscape they’re working with – as well as some of the personal vignettes. To protect the site the Bdoul Bedouins, inhabitants of the site when Burckhardt visited Petra, were relocated from the Wadi Araba valley to a new village overlooking Petra. The Zamani team works closely with the Bdoul, relying on their knowledge of the rugged and very difficult mountain terrain surrounding the site – as well as on their hospitality.

Rüter talks of the special moments when they’re invited for ‘Bedouin tea’ by Bdoul who still live in tombs and tents in the more remote areas of the Petra Park, or when listening to the stories of camel and donkey guides who show a keen interest in the team’s work during lulls in the flow of tourists.

In one photograph there’s a Bedouin guide who’s a dead-ringer for Johnny Depp in *Pirates of the Caribbean*. But he plies his trade on the ship of the desert – leading camel tours through this ancient city. ■

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## News in pictures • News in pictures • News in pictures • News in pictures • News in pictures

**1** A delegation from the United States Department of Defence (DoD) was recently given an exclusive tour of UCT's engineering labs. Universities and small businesses across Europe and Africa are on its radar, with the US military looking to find cutting-edge science and develop collaborative relationships. The win for UCT is that the units that catch the DoD's eye will be funded by the research arm of the US military that benefits.

**2** UCT was host to two David and Elaine Potter Fellowship Seminars, the first on microfinance initiatives and the other on the role of trade unions in the education sector. These seminars were organised by master's students, and UCT speakers included Professors Pam Christie and Johann Maree. Experienced trade unionists like Jonavon Rustin (pictured) were among the speakers who addressed delegates at the education seminar.

**3** In April next year, London will host five UCT business science students who will join international peers at the Europe, Middle East and Africa round of the Chartered Financial Analyst (CFA) Institute Research Challenge, dubbed the 'investment Olympics' for university students. Pictured (from left) is Philip Knibbs (president of the CFA Society of South Africa) with UCT Commerce students Hannah de Villiers, Sopé Ogunrombi, Josh Gloak, Ziyaad Manie, Mpho Mutloane and their academic mentor, Dr Francois Toerien.

**4** Students of 2012's pioneering first-year course *Images in Conflict*, taught by Annemi Conradie and Andrew Lamprecht, demonstrated key points in Earth's recent history on Jammie Plaza in the final class of the semester. The carving-up of Africa by Europeans, the Black Consciousness Movement, and the fall

of the Berlin wall were all played out in the way only art students can in a lecture dubbed *Young Troublemakers in Public Squares*. Needless to say, the usual 'Jammie 101' crowd loved every minute of it.

**5** The UCT Faculty of Law hosted an informal 30th reunion of the Local Law Class of 1982 to coincide with Zimbabwean minister of education, sport and recreation David Coltart's visit to his alma mater. Coltart was unable to join the formal reunion on 19 December, so the faculty hosted a breakfast for six members of the class. Pictured (from left, back): Alistair Wylie, Barry Jes-sop, David Coltart and Peter Smuts. (From left, front): Brendan Manca, Judge Dennis Davis (lecturer), PJ Schwikkard (Dean), Derrick Fine and Tommy Prins (library assistant).

**6** Despite the collective spending power of the SA mass market constituting 70% of consumers, this segment is inadvertently overlooked by local marketers. This is one of the findings of *The Majority Report*, recently released by the UCT Unilever Institute of Strategic Marketing. "This stems from a marketer's misconception that it is time-consuming, and ultimately not profitable, to engage with the mass market. So over the years most marketers have been removed – both physically and emotionally – from this market," explains Professor John Simpson, Unilever director.

**7** The fourth instalment of the *CrossCurrents: Current research in the humanities* conference, organised by Megan Cawood (pictured left) and Holly McGurk, brought cutting-edge interdisciplinary postgraduate research together under one roof. The conference also saw the launch of the new *CrossCurrents* journal, which will publish interdisciplinary postgraduate research on the website of

the Institute for Humanities in Africa (HUMA). There is only a two-week turnaround time between submission and publication, and thus the journal is perfect for individuals who want to get their ideas out quickly.

**8** At the most recent fun-filled edition of *Phenomenal Physics*, hosted by UCT's Department of Physics, hundreds of grade 11 physics learners from schools across Cape Town savoured an array of hands-on experiments and demonstrations, like the one performed by Dieter Geduld (pictured). The purpose of this annual event is to excite learners about the wonders of physics and to recruit future UCT students from the full spectrum of schools in its surrounding communities.

**9** Dr Mohamed Diagayété, a senior researcher at the Ahmed Baba Institute in Timbuktu, recently visited UCT to deliver a lecture, titled *The Political Crisis in Mali: What fate is reserved for the manuscripts in Timbuktu?* His lecture formed part of the Institute for Humanities in Africa's (HUMA) Continental Connections series, which aims to advance HUMA's programme and UCT's Afropolitan agenda. Photographed with Diagayété (right) is Assoc Prof Shamil Jeppie of HUMA.

**10** UCT's Professor Carolyn Williamson is one of the lead investigators on a ground-breaking study that has discovered an important new approach for developing an AIDS vaccine. The study, published in the latest *Nature Medicine* journal, describes how a unique change in the outer covering of the virus found in two HIV-infected South African women enabled them to make potent antibodies that are able to kill up to 88% of HIV types from around the world. ■



Accounting: Outgoing Dean of the Faculty of Health Sciences Prof Marian Jacobs thanked those who'd shaped her UCT career.

## Dean of health sciences says adieu

Her valedictory lecture, titled *Of Care and the Unconventional: The retiree's oath*, gave retiring Professor Marian Jacobs an opportunity to thank the many people and institutions who'd shaped her career and life.

These include (according to her list) her family, her patients, her students, her academic and clinical teachers, her parents (her mother was one of her teachers, her father the school principal), writer Richard Rive (who was another of her school-teachers), the unsung nurses she studied under at Somerset Hospital, countless community, health and political organisations, and a whole school of "informal teachers".

"All these informal teachers – outside the wall of the academy – taught me life lessons that have been foundational in my understanding of the world, education, and the political economy of health – an understanding that has also supported my own

practice as a teacher and doctor."

It framed her work at UCT, where she had to negotiate the middle ground between the values of the oath taken in the faculty's graduating year, "as a community of colleagues, teachers and students", and the system of direct accounting used in performance management at the university. In establishing the master's programme in maternal and child health, for example, the faculty adopted some very unconventional practices (students became teachers, and teachers became learners), Jacobs recounted.

Similarly, the Children's Institute, which she as director had a key role in setting up, had purposely aimed to produce research accessible not just to fellow academics, but specifically to policymakers and the public.

Jacobs reserved her penultimate farewell for her students. "You are the reason I took the Dean's job," she told them. ■

## Award-winning *Mies Julie* set to take New York by storm

The cast and crew of the Baxter's hit play *Mies Julie* are set to brave the aftermath of New York's devastating 'Frankenstorm' as they embark on their international tour, kicking off with its US premiere at St Ann's Warehouse in Brooklyn on November 8.

After premiering at the National Arts Festival in Grahamstown earlier this year to rave reviews from local critics, the play enjoyed a sell-out run at the Edinburgh Fringe Festival in Scotland, the largest and most prestigious arts festival in the world. The production was met with unanimous critical acclaim and garnered three of the festival's top awards and numerous five-star reviews.

The production beat over 2,600 other fringe festival offerings, earning the Bank of Scotland Herald Angel Award, the Scotsman Fringe First Award and most recently the Carol Tambor Best of the Edinburgh Fringe Award. It was also shortlisted for the Amnesty Freedom of Expression Award and received a nomination for The Stage Best Ensemble Award.

After a month-long run in New York, *Mies Julie* will return to South Africa for a stint at Johannesburg's Market Theatre from 17 January to 24 February 2013, before starting a three-month season at the Riverside Studios in London on 7 March.

Based on August Strindberg's 1888 classic, *Miss Julie*, director Yael Farber's new version is set in the remote, bleak beauty of the Eastern Cape Karoo and tackles the deeper complexities of South African society. The play is produced by Baxter Theatre CEO and artistic director Lara Foot, also a UCT alumna.

The *Guardian's* Lyn Gardner called it "Brilliant" and "definitely the best *Miss Julie* I've ever seen - and I've seen a few".

Director of the National Arts Festival Ismail Mohamed concurs: "From the moment that *Mies Julie* premiered in Grahamstown, we were



*Mies Julie*, Baxter's hit play, embarks on its national tour on 8 November, with its premiere in New York. In picture outside the theatre in New York are (from left) director Yael Farber and cast members Nofirst Lungisa, Thoko Ntshinga, Bongile Mantsai and Hilda Cronje.

all very confident that the outstanding artistic values benchmarked by this Baxter Theatre Centre production and created in association with the State Theatre and the National Arts Festival were going to open new avenues for South African theatre in the international market."

"It has been tremendously exciting to work with Yael again and to be part of bringing to life her incredible vision and interpretation of this classic, aptly transposed to contemporary South Africa," says Foot.

"The journey so far has been nothing short of overwhelming and exhilarating. Yael has brought together an absolutely amazing cast and creative team to present a fresh take on this play, which made theatre history in South Africa in the 1980s. We are truly grateful and

proud of our partnerships with the National Arts Festival, Grahamstown, the Edinburgh Festival and the South African State Theatre, who all share in this phenomenal success."

A 1985 production of *Miss Julie* generated controversy when it was performed at the Baxter and Market Theatres and starred Sandra Prinsloo and John Kani. Their stage kiss sparked a national outcry by right-wing organisations and saw protests, and even death threats, that led to immense pressure on the Censor Board to ban the production.

"This is a *Miss Julie* for a world grappling to redefine itself. It is a disturbing yet mesmerising theatrical experience that reaches to address issues of restitution and the reality of what can and cannot ever be recovered," said Farber. ■

## UCT scholar part of a winning team



The winning team: Prof George Ekama (far left) and colleagues from Hong Kong and the Netherlands have been honoured by the IWA.

UCT's Professor George Ekama was part of an international team that received the 2012 Project Innovation Award from the International Water Association (IWA) at a meeting in South Korea in September.

Ekama, of the Department of Civil Engineering, had joined six other team members on various projects, partnering with collaborators from the Hong Kong University of Science and Technology, the Hong Kong Airport Authority, the Hong Kong Drainage Services Department, and the Delft University of Technology in The Netherlands.

They were honoured in the applied research category for their project, *Making Use of Seawater as an Alternative Resource*.

Ekama has enjoyed long-running relationships with institutions in Hong Kong. He has taught courses on wastewater treatment to members of the Hong Kong government, presented seminars at the Hong Kong University of Technology, and co-supervised a PhD student from there. ■

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## Sustainability must translate into policy, behaviour



Change is good: Science and Technology Minister Derek Hanekom (middle) was among the panellists at a recent UCT workshop on sustainability. Flickr album shared with us by ICSU (The International Council for Science) on <http://www.flickr.com/photos/ICSU>

It was a full house of speakers at the panel discussion on sustainability at UCT on 1 November, with no fewer than eight panellists from diverse disciplines holding court.

That may just be an answer to the sustainability challenges facing the world – experts from across a broad spectrum of perspectives working together to find solutions, suggested Professor Martin Visbeck of the University of Kiel in Germany.

“We believe co-design and co-production of knowledge is a new way going forward, where we bring together not just academics from UCT, but also the practitioners, people who make decisions on the ground, the civil society, to ask, what are the burning questions, and how do we get information?”

As vice-chancellor Dr Max Price indicated in his welcome address, the purpose of the event was to look at how Future Earth, a new international research initiative of which Visbeck is a member, can tackle global sustainability challenges in partnership with existing international environmental networks.

Future Earth was launched in June 2012 at the Rio+20 Earth Summit, as an innovative 10-year global research programme to act as a sort of clearing house for sustainability solutions for government, business and society. The initiative is embarking on a series of workshops for the world to help set a research agenda for climate change and sustainability, and the Cape Town conference was the first of these events.

Science and Technology Minister Derek Hanekom highlighted problems facing sub-Saharan Africa. Among them is the fact that one-third of people living with HIV/AIDS globally come from the region, the life expectancy in the region is 41 compared to a global average of 67, and in South Africa, 70% of fresh water is used for agriculture, “restraining our planet’s resources”.

“These are huge challenges; we have to rise to these challenges,” Hanekom noted.

“The future of humankind depends on the actions we take now; this is what Future Earth is all about.”

Hanekom said sustainability is the biggest research challenge, and has to translate into policy and behavioural change.

“We really need to look at different, radical ways of doing things. The starting point is knowledge and awareness.”

The event was chaired by Professor Mark New, pro vice-chancellor for climate change at UCT, and panellists were colleagues Professors Harald Winkler and Harro von Blotnitz, as well as Professor Mark Swilling and Dr Camaren Peter of the University of Stellenbosch, Tanya Abrahamse of the South African National Biodiversity Research Institute, and Kobie Brand of ICLEI Africa, the international association for governments and government organisations that have committed themselves to sustainable development. ■



Two into one: Prof Anusuya Chinsamy-Turan heads up the newly-created Department of Biological Sciences.

## Botany and zoology union reflects trend

Fauna and flora go hand in hand. That’s now also the case at UCT, following the merger of the Departments of Botany and Zoology into the new Department of Biological Sciences.

The move is in line with global trends in which the teaching and research of life sciences has moved out of the domain of specialist departments and is increasingly organised under umbrella departments or schools. Similarly, UCT’s undergraduate biological science courses have been restructured to consolidate course content in such a way that it will give graduates a big-picture view of the critical environmental challenges facing Africa

and the rest of the world, explains Professor Anusuya Chinsamy-Turan, who heads up the new department.

The historical organisation of biology into zoology and botany, as distinct and separate disciplines, is now deemed artificial, says Chinsamy-Turan.

“The modern biologist needs to have a multifaceted platform on which to build specialist skills. The merger of the two departments will therefore assist in efforts to equip graduates to develop specialist skills.”

In practice, much of this has been happening already, she explains. Relevant new courses and

majors were already being shared by both departments.

“Biologists around the world are increasingly being expected to confront the challenges that society faces, including climate change, pollution, conservation of biodiversity, overexploitation of natural resources and human-wildlife conflicts. Tackling these issues requires a global and systems approach, rather than a taxon-centred approach.”

The merger will encourage collaboration between academics and researchers with specialist interests and will enable relevant training for the next generation of biologists, Chinsamy-Turan says. ■

The Centre for Conflict Resolution (CCR), Cape Town, invites you and members of your organisation to a public dialogue to launch the book

### REGION-BUILDING IN SOUTHERN AFRICA: PROGRESS, PROBLEMS, PROSPECTS

Edited by Chris Saunders, Gwinyayi A. Dzinesa, and Dawn Nagar

CHAIR

**Dr Simba Makoni**

Former Southern African Development Community (SADC) Executive Secretary, Harare, Zimbabwe

SPEAKER

**Dr Kaire Mbuende**

Former SADC Executive Secretary, Windhoek, Namibia

SPEAKER

**Professor Gilbert Khadiagala**

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## EBE a think tank for future Foreshore development

Next year students from UCT’s Faculty of Engineering & the Built Environment (EBE) will consider, as part of their curricula, various possibilities for the future development of the north Foreshore Precinct.

The inclusion of this part of the Cape Town central business district is the basis for a partnership between the faculty and the City of Cape Town, which approached EBE with the request to help develop exciting and creative ways to think about the future of this rather problematic part of the city.

Final-year undergraduates and postgraduate students from the School of Architecture, Planning and Geomatics, and the Departments of Construction Economics and Management, Civil Engineering, and Chemical Engineering will have the option of doing projects centred on the Foreshore Precinct.

“These projects will be embedded in their curricula and normal course assessment processes will be followed,” says Professor Vanessa Watson, deputy dean of EBE. “They will work in project groups and the different classes will continually use work and information from each other to inform what they are doing. Questions these students will grapple with include, but will not be restricted to:



- How can we reconnect the CBD with the sea?
- How can we create vibrant public spaces that will attract residents and tourists?
- Could the unfinished highway sections be used as markets or viewing platforms?
- How do we consider the effects of climate change and rising sea-level?

The best proposals will be brought together in a public exhibition, which will tie in with 2014 World Design Capital events. ■

# H3-D symposium locks onto diseases affecting Africa



Critical mass: Prof Kelly Chibale hopes that the first H3-D Symposium will ensure that diseases that primarily affect Africans will receive worldwide attention.

The very first H3-D Symposium was a meeting of scientific minds from Africa and other parts of the world, with the aim to find solutions to African health problems.

The theme of the symposium – hosted by UCT’s Drug Discovery & Development Centre – was *New*

*Paradigms in Drug Discovery*.

Discussions and lectures at the symposium centred on malaria, tuberculosis and cardiovascular disease, which are prevalent in Africa.

Proceedings were opened by the minister of science and technology, Derek Hanekom.

“Modern pharmaceutical indus-

try-integrated drug discovery is not well established on the African continent, so this symposium provides a unique opportunity to inspire researchers to realise the potential for collaboration in integrated drug discovery,” commented Professor Kelly Chibale, H3-D director and chair of the symposium

“It also aimed to show delegates how to harness modern pharmaceutical industry skills and expertise in the drug-discovery value chain – integrating medicinal chemistry, biology and pharmacology, as well as drug metabolism and pharmacokinetics studies. Together, this will create a critical mass of African scientists with the capabili-

ties of developing pre-clinical drug candidates, with a unique focus on the diseases afflicting sub-Saharan Africa.”

A highlight was an appearance by Yvonne Chaka Chaka, popular entertainer and UNICEF Special Ambassador on Malaria in Eastern and Southern Africa, who spoke and performed at the symposium dinner. ■

## By the Book



*Mineral Law: Principles and policies in perspective* by Prof Hanri Mostert (Department of Private Law) provides a unique look at the context of current mineral law, juxtaposing it with preceding generations of mineral law. This book meets the needs of scholars and practitioners for an accessible text that provides a broader view of the origins, roles and functions of current legislation on mineral resources.



The world of corporate finance, particularly the accounting profession, has been affected by the financial crisis over the past few years. In writing the seventh edition of *Financial Management*, the authors, UCT’s Prof

Carlos Correia, David Flynn, Enrico Uliana and Michael Wormald focus on, among other subjects, developments in capital markets, tax legislation, ethics and professionalism, strategy, risk management and governance, as well as the integration of information technology (with specific reference to the SA Competency Framework).



Liver cancer is the sixth-most common cancer in the world. *Hepatocellular Carcinoma in Sub-Saharan Africa*, by Michael Kew, an honorary research professor at UCT, comprehensively covers all aspects of hepatocellular carcinoma (the most common type of liver cancer) as it occurs in sub-Saharan black Africans. The book also explores how this cancer differs from examples in other parts of the world, where mostly it occurs infrequently.



*Southern African Liberation Struggles* is a collection of essays, edited by Emer Prof Chris Saunders and Hilary Sapire. It illustrates the intertwined histories of Southern African liberation struggles and those of regional and international solidarity movements from the 1960s to the establishment of a non-racial democracy in South Africa in 1994. The book’s uniqueness lies in drawing together internal and external struggles in exile.\*

\*Published by UCT Press

## McIntyre elected to IOM

UCT’s Professor Di McIntyre has been named as a foreign associate to the Institute of Medicine (IOM), the health arm of the US’s National Academy of Sciences.

McIntyre was one of 10 foreign associates and 70 new members elected to the IOM – considered a national resource for independent, scientifically-informed analysis and recommendations on health issues – at its 42nd annual meeting, held in October. Election to the IOM is considered one of the highest honours in the fields of health and medicine, and recognises individuals who have demonstrated outstanding professional achievement and commitment to service.

On their election to the IOM, members make a commitment to volunteer their service on IOM committees, boards, and other activities.

McIntyre, based at UCT’s Health Economics Unit

(HEU) in the School of Public Health and Family Medicine, holds the national research chair in health and wealth under the South African Research Chairs Initiative, aka SARChI. She founded the HEU in 1990, and led the unit as director for 13 years.

She has served and continues to serve on numerous ministerial and policy committees, including the Ministerial Advisory Committee on National Health Insurance. She has been hailed for her work in healthcare financing.

“This nomination acknowledges the impact that Professor McIntyre’s academic achievements and leadership in health economics have had in the pursuit of health equity in South Africa, on the African continent, and throughout the global South,” commented Professor Marian Jacobs, outgoing dean of the Faculty of Health Sciences. ■



International acclaim: Prof Di McIntyre has been named as a foreign associate to the US’s IOM.

## Father of gastroenterology dies



Yet another luminary, this time in the medical field, is being mourned by the UCT community.

Emeritus Professor Israel Nathan 'Solly' Marks, 85, died on 19 October. He was considered the 'Father of gastroenterology in South Africa', having established the Gastroenterology Clinic at Groote Schuur Hospital in 1959.

He was the head of this clinic from 1959 to 1970, and then again from 1978 to 1992.

Born on 23 October 1926 in Cape Town, Marks, one of five children, qualified as a doctor at UCT in 1949. His life-long dedication to his field was recognised in 1986 when he was appointed to the new Chair in Gastroenterology, a position he held until his retirement in 1992.

He authored or co-authored more than 400 publications, including over 30 invited chapters in various textbooks; he gave 47 named and postgraduate lectures and attended innumerable national and international congresses as invited lecturer or chairman.

In 1993 the Department of Health awarded him the Salus Gold Medal in recognition of his contribution to gastroenterology in South Africa.

Marks is also a founding member of the South African Gastroenterology Society (SAGES), which he established in 1962, together with Simmy Bank and Mike Moshal. He was president of SAGES from 1962 to 1977, and remained life president of the society.

He is survived by his wife, Inge, three children, and grandchildren. ■

## Mathews takes the helm at Children's Institute

Associate Professor Shanaaz Mathews is the new director of UCT's Children's Institute following the retirement of Professor Shirley Pendlebury. She spoke with *Monday Paper*.

**MP: Can you describe your areas of research, and some recent studies?**

**SM:** My initial research focused on the Domestic Violence Act and the budget allocation for its implementation; and subsequently, an evaluation of its impact. While at the Medical Research Council I led a national epidemiological study on intimate femicide that provided us with a statistic which is commonly cited; "a woman is killed every six hours by an intimate partner". This was followed by a qualitative study of men in prison who had killed an intimate partner, which gave us an understanding of pathways to violent masculinities. I have also explored the psychological adjustment of children after sexual assault, and most recently I conducted a national study on child homicide and its link to child abuse.

**MP: How did your career path prepare you for the position as Children's Institute (CI) director?**

**SM:** I started my career as a clinical social worker at the Red Cross Children's Hospital, with a focus on child abuse. This allowed me to develop insight into the needs of children and their families. I have combined this with working on policy development and advocacy in civil society. Having been active in leadership positions within structures such as the Network on Violence Against Women has developed my strategic leadership skills. This, combined with my solid training as a scientific researcher, gave me the ideal background to lead an organisation such as the CI.



**MP: How will your research add value and complement the CI's work?**

**SM:** My research on children and violence will strengthen the child-protection focus of the CI. The child-homicide study has quantified the problem of fatal child abuse, and will provide a platform for the CI to advocate for the strengthening of child protection services. My experience of combining scientific methods and socially responsive research will strengthen the research evidence of the CI.

**MP: What is your vision for the CI?**

**SM:** My vision is for the CI to be posi-

tioned as the leading research and advocacy institute on child rights in South Africa, and to broaden its influence beyond our borders through supporting collaborative work within the region.

**MP: Why is socially responsive research so important for the CI?**

**SM:** UCT has a strategic goal to respond to the developmental challenges facing South Africa. The CI's research resonates with this, as our research has a direct focus on influencing and improve the daily experiences of children through shifts in policy and practice. ■

## Measure success by what you do, says alumnus

Alumnus and businessman Martin Moshal is a living example of what UCT seeks to achieve – producing graduates who are successful and committed to ploughing back.

In 2009 the Durban-born internet entrepreneur and venture capitalist established the Moshal Scholarship Programme to support promising students financially. The programme has funded full scholarships for over 250 students at universities across South Africa and Israel. The first cohort of students will graduate at the end of this year.

Recently, Moshal returned to his alma



matter to attend the first South African Moshal Scholars event, which gave scholarship beneficiaries a chance to interact with one another.

At the event, also attended by Vice-Chancellor Dr Max Price, Moshal enthralled the audience with the story

of his rise to success, emphasising the importance of education and urging his scholars to "soak up knowledge like a sponge".

Although success is often measured in financial terms, Moshal believes that "all we can ever own are the good deeds we have done".

"Success should be measured by what you do in the world," he said. ■



### December graduation story call

In just a few weeks the campus will be wall-to-wall proud graduands and their relieved families, braving the Jammie steps and the summer torpor of Jammie Hall for a festival of graduation from 12 to 18 December. For a moment, forget how you're going to spend your bonus and put on your thinking cap: *Monday Paper* needs leads for the December graduation edition. We need to hear about those special grad stories in your department – tales to crisp the cockles of the heart; moms or dads hooding their kids, kids hooding their moms or dads, octogenarians claiming their first degrees, graduands who've grappled with life's trials to nail that qualification. And then there's jaw-dropping research, captured in scores of final theses. We want to hear about it. The *world* wants to hear about it. Send your lead to [monday-paper@uct.ac.za](mailto:monday-paper@uct.ac.za), with the gist of the story and contact details. But hurry. The deadline is 23 November. ■



## Improvements for Jammie Shuttle

The Jammie Shuttle buses, a shuttle bus service for UCT staff and students provided by Sibanye Bus Services, have been fitted with seatbelts on certain seats to make them safer for passengers. These seat belts can be found where there are no barriers in the seats in front of passengers.

In addition, as from next year there will be no more standing passengers on the Hiddingh route.

These are two of the steps the university has taken to make travelling on the shuttles more enjoyable, and following recommendations by Aurecon, the university's transport consultants.

Aurecon was tasked to investigate concerns that there were no seatbelts in the shuttles travelling to and from Hiddingh campus, and that passengers often have to stand during this trip. They also investigated reports of speeding on the freeway.

They found that although the shuttles were meeting legal requirements, there was room for improvement.

According to the Aurecon report, any of the buses with seat-

ing for fewer than 35 passengers first registered after 1 July 2006 must be fitted with seatbelts on seats where there are no barriers to stop a passenger falling forward in the event of sudden braking.

As the Jammie fleet was registered in 2005, there is no legal requirement for seatbelts. Also, the operating licences make provision for standing passengers.

However, Aurecon recommended that seat belts be installed on all seats without a solid barrier immediately in front of them, and that no standing passengers should be permitted on the Hiddingh route.

As for reports of speeding, all shuttles are fitted with a sophisticated tracking system, which records the driver's actions and monitors speed, acceleration and the use of brakes and clutch. Where vehicles exceed the set speed limits, the system generates a violation report, recording the 'penalties', in terms of Sibanye's contract. The penalties are offset against Sibanye's monthly invoices. ■



# Wamundiya crusading for equal access

‘Liberation before education’, read the oft-debated slogan of some anti-apartheid organisations. UCT master’s student Alice Wamundiya demonstrates how, in a best-case scenario, the two – liberation and education – can dovetail to great effect.

Wamundiya, a Rwandan national whose family sought refuge in South Africa from the political violence in her home country when she was nine years old, has been using her hard-won opportunity for tertiary studies to advocate for those who find themselves in a similar boat to hers.

“We found that when we wanted to study [at tertiary level], refugee students in particular – so, students who were not from South Africa, and students who were not here on bursaries from their countries – were not being allowed to access tertiary education,” she explains. “The law said, ‘yes, people can study’, but institutions weren’t sure.”

The absence of a clear policy on the status of such refugee and asylum-seeking students drove Wamundiya and her colleagues to begin lobbying on their behalf in 2004. Their activism eventually led to the formation of the non-profit organisation Unity for

Tertiary Refugee Students (UTRS).

The fight for equal access, Wamundiya says, is particularly crucial for refugees and asylum seekers, who often arrive in South Africa entirely disenfranchised. “You are stranded, since you don’t have any connections, most of the time you don’t know the language; you’re not sure how you’re going to survive.”

As an NPO, UTRS is not only able to lobby for entrance into tertiary institutions, but also to raise funds for tuition fees and accommodation, and to address the “traumatic experiences” that students often suffer. Wamundiya emphasises that UTRS does not strive for “special” treatment for a particular group.

“What we want is for this group to be fully able to access the resources that exist,” she says.

Having proven her academic mettle at the University of the Western Cape, where she did her undergraduate studies, Wamundiya was rewarded with a Mandela Rhodes Scholarship in 2010, which allowed her to pursue postgraduate research in development studies at UCT. She took the opportunity to explore ways in which the different docu-



Long walk: Alice Wamundiya has earned respect and attention for her work on behalf of refugee and asylum-seeking students hoping to study in South Africa.

ments the South African government issues to refugees and asylum seekers – and which sometimes have contradictory implications – affect those groups’ integration into South African society.

For her efforts, Wamundiya

received the 2012 Inyathelo Award for Social Justice Philanthropy, presented by the South African Institute for Advancement, and recently featured in a documentary film about herself and the UTRS. Given her plans to register

for doctoral studies at UCT next year, her displaced African brethren can breathe a sigh of relief knowing that the queues outside the Department of Home Affairs might soon appear less unwelcoming. ■



The general: WP flyhalf Demetri Catrakilis, scorer of the winning points in the Currie Cup final, represented UCT before making the jump to inter-provincial rugby.

## Ikey old boys shine in Currie Cup final

With fans of Western Province rugby having enjoyed the team’s victory parade through Cape Town on 30 October after WP’s first Currie Cup trophy in 11 years, UCT can proudly point to a strong Ikey connection to the thrilling final in Durban on 27 October.

Five former UCT rugby players started for WP in the against-the-odds victory against the Sharks: Don Armand (flank), Demetri Catrakilis (flyhalf), Damian de Allende (centre), Eben Etzebeth (lock) and Nic Groom (scrumhalf), while star centre Marcel Brache was named on the WP bench. Ikey fans would also have recognised Sharks No. 12 Tim Whitehead, another finalist who represented UCT in the recent past.

All seven players made their name for UCT in the FNB Varsity Cup, and all but De Allende were part of the Ikey class of 2011 that lifted the FNB Varsity Cup. The 2013 edition of the FNB Varsity Cup kicks off on 4 February next year. ■

## Student leaders’ selfless efforts hailed

For a full-time student, combining academic work with anything else is not easy; especially if your extracurricular activity requires that you lead a UCT society, club or team. Some manage the juggling act with true aplomb. Outstanding student leaders were recognised for their contributions to the UCT community at the Student Leadership Awards held on 25 October.

The winners were:

- The Vice-Chancellor’s Student Leader Award – Vice-Chancellor Dr Max Price presented this to **Lorne Hallendorff**, outgoing SRC sports co-ordinator, who is responsible for reviving intervarsity sports between UCT and its traditional rival, Stellenbosch University. He was also the driving force behind the orientation week sports showcase and tournament.
- The Deputy Vice-Chancellor’s Student Leader Award – **Insaaf Isaacs**, outgoing Students’ Representative Council (SRC) president: under her leadership the SRC has implemented a mid-term performance review and a 24-hour library service, and has brought a Student Wellness Clinic to upper campus; and **Michael Marchant**, who is the director of the Township Debating League and chairman of the UCT choir: under severe financial constraints he has managed to maintain the full operations of the Township Debating League, while simultaneously propelling the UCT Choir to national recognition. The award was presented by Deputy Vice-Chancellor Professor Crain Soudien.
- The award for the Most Outstanding Leader in a Community Development Organisation – **Rudo Pswarayi** is the president of SHAWCO Health and is credited with planning and implementing basic mental health services at SHAWCO clinics, including the development of screening tools, the appropriate training of volunteers, and the creation of support groups such as an antenatal support group at the Noordhoek clinic.
- The award for the Most Outstanding Leader in Student Media – **Jessica Dewhurst** has been involved with UCT Radio for two years, and will serve as its marketing manager next year. She initiated several new outreach projects,



Excellence acknowledged: Vice-Chancellor Dr Max Price with Lorne Hallendorff, this year’s winner of the Vice-Chancellor’s Student Leader Award.



Team spirit: The United Nations Association of South Africa, UCT Chapter received acknowledgment for its investments in the next generation of South African leaders. Registrar Hugh Amoore (fourth from right) presented the award to (from left) Maletsabisa Molapo, Darren Brookbanks, Jean Smuts, Kimeshan Naidoo, Kgomoiso Malele, Tafadzwa Mautsa, Karusha Naidoo, Josh Platky Miller and Helen Matienga.

one of which involves a partnership with the Edmund Rice Camps in a programme called Sponsor-A-Child, in which individuals can make a donation towards sending a child to a camp that focuses on life skills and creating opportunities for vulnerable youths.

- The award for the Most Outstanding Student Leader in a Postgraduate Faculty Council – **Luke Kannemeyer**, chair of the Health Science Students’ Council, has worked tirelessly to improve career development for postgraduate students in his faculty, and managed to secure sponsorship to refurbish the beloved Medical Alumni Club.
- The award for the Most Outstanding Student Leader in a Society – **Sean Tromp**, chairperson of the UCT Surgical Society, is the leader

of a large organisation that is managed with enviable efficiency.

- The awards for the Most Outstanding Student Leader in an Undergraduate Faculty Council – **Vusumuzi Baleni**, who leads the Engineering and the Built Environment Students’ Council, urged his council to focus not only on academics, but also to ensure that well-rounded individuals are graduating from UCT. The council hosted talks and workshops that promoted awareness in the fields of career development and student health and well-being.
- The Executive Director: Student Affairs’ Student Leader Awards – **Baveena Nathoo**, who was unanimously elected as SHAWCO education president, in recognition of her consistent and selfless contribution to the organisation; and **Michael Moss**, SRC Societies co-ordinator. He is a founding member of the Students Against Secrecy movement, which actively campaigns against the so-called ‘Secrecy Bill’ currently being considered in Parliament.
- Team of the Year – **EBE Undergraduate Faculty Council**, which despite lacking the legitimacy of an election, made tangible changes in EBE that positively impacted the lives of students; and the **UCT Chapter of the United Nations Association of South Africa**, which saw its membership double in 2012.
- The award for the Most Outstanding Leader in a Residence – **Miguel Rodo**, head of Glen-dower residence, earned the respect of his peers by articulating a comprehensive proposal for the improvement of the infrastructure of the residence, which contributed to creating an enabling living and learning environment.
- The award for the Most Outstanding Leader in Sport – **Zinzi Madonsela** is the chairperson of UCT Netball and pioneered the Student Sports Union’s *We are Aware* campaign, with the aim of fostering social responsibility among the sports clubs and their participants, and also to encourage community involvement in reaching out to the disadvantaged.
- In addition, **Jeremy Rose** received the Kerry Capstick-Dale Student Leader Award, while **Sean Darge** was the recipient of the Ackerman Family Foundation Award. ■