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Monday Paper

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One for the sardine, two for the birds

If, for a life scientist, the rule of thumb is don't bank on getting your name into the journal *Science*, like ever, then in 2011 UCT's Dr Lynne Shannon didn't just break the rule, but tossed the rule book out the window.

In August, Shannon, of the Marine Research Institute (MA-RE) and the Department of Zoology, was among the 12 researchers who toasted the publication of a paper – *Impacts of Fishing Low-Trophic-Level Species on Marine Ecosystems* – in the famed journal, published by the American Association for the Advancement of Science. The ink had barely dried on the paper before, in December, Shannon's name graced the journal's pages once again, this time as one of 14 authors of the paper *Global Seabird Response to Forage Fish Depletion – One-Third for the Birds*.

Science may have one of the shortest names in the world of academic publications, but that's not the reason everyone remembers it. Its impact factor for 2010 was set at over 30 (see graph), making it one of the highest in the world, mentioned only in the same breath as close rival *Nature*. (One scientist sought for comment described the journal's impact factor, by local standards, as "off the charts".)

As the only common denominator among the two papers' 25 authors, Shannon would have good cause to pat herself on the back. Instead, she puts the achievement down to decades of collaboration, and being in the right place at the right time. That being UCT and, also, Marine and Coastal Management, where she was key in the formation of the South African Working Group on Ecosystem Approaches for Fisheries Management.

These days she also co-chairs the international IndiSeas (Indicators for the Seas) Working Group, which looks at the effects of fishing and natural variability on marine ecosystems. It's a tight-knit group of people who work in this area, says Shannon.

"It's a very small environment, and you generally know everyone in the field."

Everyone, in the case of the first *Science* paper, meant researchers in Australia, France, Peru, the US and the UK. The nationality net was cast even wider in the second group, made up of scientists from Canada, France, Namibia (including UCT colleague Jean-Paul Roux of the Animal Demography Unit), Norway, South Africa, Sweden and the US.

But the *Science* editors and referees were probably more impressed by the findings than the panorama of passports.

Despite looking at five far-flung ecosystems – in Peru, the North Sea,



Green Week is coming from 16-20 April. See page 6.



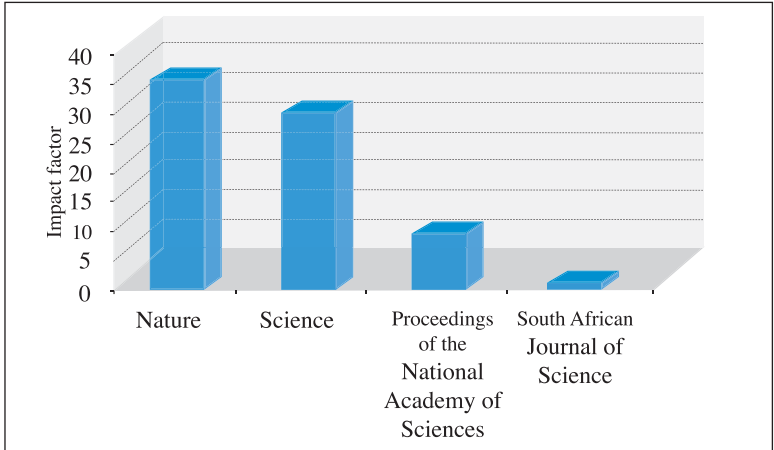
Teamwork: Dr Lynne Shannon (left) with Dr Yunne-Jai Shin of the French Institute of Research for Development, one of her many collaborators in recent years.

South African waters and the Southern Ocean – though there was variability, there was a clear and common pattern across the first study, which covered the impact on those ecosystems of potential over-fishing of low-trophic-level species, aka forage fish, such as anchovy, sand eels, sardines and krill. (These fish are key in the food web as they are the 'middlemen' between plankton and a whole suite of larger, predatory fish, mammals and seabirds.)

Such was the common ground that the authors could even come up with specific numbers in their paper, appli-

cable across the ecosystems. Halving exploitation rates, they concluded, would result in much lower impacts on all the marine ecosystems in question, while still achieving 80% of maximum sustainable yields, thus not crippling the systems' fishing industries.

Similarly, the second band of researchers found mutual features. In that study on the impact that the depletion of forage fish would have on seabirds, they identified a threshold in prey abundance (ie the number of forage fish) below which breeding success – defined as chicks fledged per breeding pair – took a substantial



Data: ISI Web of Knowledge, using multidisciplinary sciences as a subject category, and 2010 statistics. The impact factor of a journal is defined as the average number of citations received per paper published in that journal during the two preceding years.

dive; and at which breeding patterns were more unstable and unpredictable. "This response," the researchers wrote, "was common to all seven ecosystems and 14 bird species examined within the Atlantic, Pacific and Southern Oceans."

(Per the 'one-third' in the paper's title, they advised that, as a general guiding principle, the threshold of one-third of maximum observed fish biomass is an indicator of the minimum level of fish needed in the ocean to sustain long-term seabird productivity, and probably ecosystem sustainability, in the broader sense.)

These findings, more than getting her name into *Science* twice in quick succession, are what Shannon treasures most. She's found that such universal findings across international boundaries and ecosystems come in handy when it comes to shaping local policy.

"Proposals are more respected when they come from such a broad group," she says. "And in the end it's not about getting into *Science*, but about seeing that your work is useful."

For the record, a third paper for the journal may well be on the horizon. ■

Sum up

UCT will host the 2014 International Mathematical Olympiad (IMO), the world championship of mathematics, in July 2014. Launched in Romania in 1959, the IMO is the oldest and biggest of the major international science olympiads for high schools, and today draws participants from more than 100 countries. Cape Town was selected as the host city by the South African Mathematics Foundation (SAMF). It will be the first IMO to be held in Africa.

Prestigious fellowship for doctoral candidate



UCT scientist Peggoty Mutai has won the prestigious UNESCO L'Oréal For Women in Science (FWIS) International Fellowship for 2012. The medicinal-chemistry doctoral candidate is one of four women – three from Africa – to be awarded the research fellowship, worth over R300,000.



4.5

Height, in metres, of *Layers of Mind*, the sculpture by Angus Taylor that was unveiled at the official launch of Obz Square.

Economics gets a shot in the arm



UCT's School of Economics received a cash donation from construction company Indawo Painting and Waterproofing in March. By way of thanks, the school will now add the company's name to its growing donor wall. Dean of the Faculty of Commerce, Professor Don Ross, says the faculty's primary objective with donor funding is quality higher learning. "(Indawo) will – like other donors in this initial phase – be playing a role in identifying our research agenda." In picture are UCT's Chris Briens and John Critien, Indawo's Peter Jäck, and Ross.

Hail to Obz Square, say residents



Obz Square has been a project of many milestones, each celebrated with due pomp and ceremony. The latest celebration, on 3 April, was to mark the residence's official opening, which of course happened earlier this year. Now settled in, the students and staff are reaping the rewards of this labour of love, and they love it.

"The people who designed this building had the chief aim in mind to make students' lives easier," says resident and arts student Nina Lewis. "This allows us to focus on our priorities, such as academics."

Speaking on the night, both the chair of Council, Archbishop Njongonkulu Ndungane, and acting vice-chancellor Professor Thandabantu Nhlapo (middle and left in photo) agreed that providing accommodation for all UCT students who need it remains an ongoing challenge. The opening of Obz Square is, however, a step in the right direction.

"The answer, in part, is in this residence," said Nhlapo.



Six of the best decades

Surprise: Warden of Kopano Residence, Professor Evance Kalula, received a present of a different kind when the student leadership, sub-wardens, head student and the house committee in the residence lured him away from his family to celebrate his 60th birthday recently. The group, known as "Prof Kalula's Boys", sang him a song and presented him with a large card with messages of appreciation from students he has mentored and guided during the year.



Then and Now



"A motion proposing a faculty tie was adopted in 1956. The right to wear the tie was to be confined to clinical-year medical students and graduates. Hercules Michael du Preez, then an MBChB student at the school, submitted the design which was finally accepted. The tie brings out the association of the City of Cape Town and Medicine. It consists of a shield embodying gold annulets on a red background and a blue caduceus on a silver ground. The caduceus is a stylised representation of the surgical staff entwined by two serpents carried by Hermes. Originally considered to be an enchanter's wand and the symbol of power over life and death, it has, together with the staff of Aesculapius, become a recognised symbol of the medical profession."

- from "Inyanga", 1957

Coaching standards

The Centre for Coaching at the UCT Graduate School of Business has received further accreditation through the Health Professions Council of South Africa. This complements their existing accreditation through the International Coach Federation, making it one of the few coaching bodies in South Africa to have both local and international accreditation.

Dragon festivities hit the city

In March, hundreds of Cape Town revellers flocked to the Baxter Theatre Centre for the Spring Festival Gala, an annual event hosted by UCT's Confucius Institute. This year's festivities – song, dance and traditional music – celebrated the 'Year of the Dragon', a revered Chinese symbol of power, superiority and rule.

Delegates don't just phone it in

Telephone-system professionals from the country's higher education sector called in at UCT recently to catch up on the latest developments in their field. About 45 delegates attended the National Telephone User Group (NTUG) conference in March, hosted by UCT's Information and Communication Technology Services (ICTS). The theme for the gathering was internet protocol (IP) telephony. At the meeting, UCT's Pierre Neethling was elected as chairperson of the new NTUG exco.

TRC is unfinished business

Truth of the matter: Award-winning struggle stalwart Dr Mary Burton delivered a talk in March, *How Much Truth, How Much Reconciliation*, hosted by the Centre for African Studies in conjunction with the Centre for Curating the Archive. She's given up hope that the state will implement all the recommendations of the Truth and Reconciliation Commission (TRC), she said.

Second lifetime achievement award for Cooper

Retired UCT ornithologist John Cooper, now a research associate at the DST-NRF Centre of Excellence for Invasion Biology at Stellenbosch University, was awarded the Gill Memorial Medal of BirdLife South Africa, making him the first-ever local seabird expert to receive the prestigious award. In February Cooper also received a Lifetime Achievement Award from the Pacific Seabird Group in Hawaii.



Life's journey immortalised in doccic

His work and life's legacy is widely celebrated, but who's the man behind UCT's Professor Neville Alexander? The launch in March of *Glimpses of a Life: Neville Alexander*, a half-hour documentary film by local filmmaker Nicki Westcott, lifted the veil from this acclaimed linguist and anti-apartheid struggle veteran. The event was hosted by the Centre for African Studies, the Centre for Curating the Archive, and the Project for the Study of Alternative Education in South Africa.

Whiz, bang, pop: UCT takes science to the community

The Faculty of Science hosted its sixth annual Science Day on 17 March. This year's event took place at Trafalgar High School and was hosted in conjunction with iThimba LABS, Kirstenbosch Botanical Gardens, the South African Astronomical Observatory, Cape Town Science Centre, Career Planet and the South African Weather Service. The aim is to get learners excited – with a little help from 'fizzle-and-pop' chemical reactions – about mathematics and science.

A-fares of the art



UCT's Prof Gavin Younge has a full schedule these days. Firstly he's been called on to curate a new showcase, *art-a-fares*. A venture by non-profit initiative Youngblood Arts and Culture Development, *art-a-fares* will give new talent a platform to exhibit their work to the public and gallerists. Every second Saturday, since 24 March, the artists – from the fresh-out-of-art-school to the older but not yet established – will display and sell their works in the part-gallery, part-restaurant Beautiful Life building in Bree Street, Cape Town. Apart from assisting with *art-a-fares*, Younge will be curating exhibitions of artwork drawn from Mozambique and Angola. That project involves the Mozambican musician Neo Muyanga and the co-operation of Mozambican cultural authorities. Seen as a "dialogue", the exhibition of Mozambican work will be followed by an exhibition of South African art in Maputo.



Clockwise from top: The Karendra Devroop Quartet, led by saxophonist Prof Karendra Devroop of North-West University, kick-started the performances at the SAJE conference; presenters included pianist Roland Moses and Italian jazz vocalist Antonia de Angellis.

Conference leaves delegates all jazzed up

UCT's Lower Campus was, pardon the expression, rocking, as the 11th South African Association for Jazz Education (SAJE) Conference descended on the university at the end of March.

The three-day international conference, held from 25 until 27 March at the South African College of Music and the Baxter Theatre Centre, was crammed with presentations, film screenings and, of course, concerts. It is the only official gathering of its kind in Africa.

With delegates from no fewer than four continents attending, SAJE treasurer and confer-

ence organiser Diane Rossi says the conference provides a platform for learning and networking.

"That's what music does," says Rossi, "and especially jazz. It's a universal language."

Cape Town has hosted the past three editions of the conference, held every two years. Which leaves one wondering what makes the Mother City so attractive.

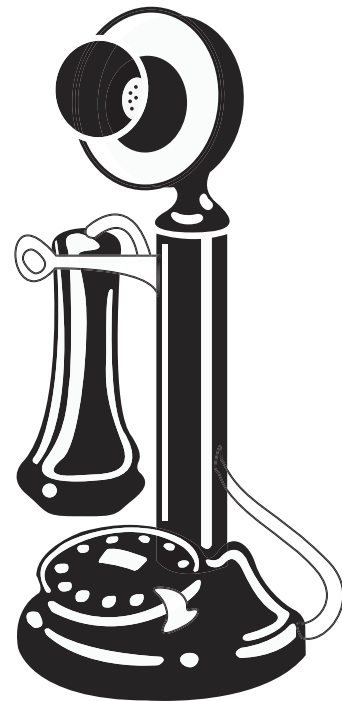
"I think in terms of the music department here, the jazz department, it's the most prolific in the country," Rossi explains. "The students here win most of the national awards. Also, we have good organisers."

Rossi can't quite put her finger on it, but says that besides the allure of musical excellence, Cape Town just has that something special as a jazz mecca.

"I don't know what it is! Cape Town is just... We have a very rich and diverse jazz and cultural heritage here, and people like that."

Among the headline acts were three sons of jazz legend Dave Brubeck – performers in their own rights – in town to answer questions after the local premiere of *In His Own Sweet Way*, a documentary on their father executive-produced by long-time jazz aficionado Clint Eastwood. ■

Significant changes to telephony at UCT



In 2011, Information and Communication Technology Services (ICTS) started a multi-year Telecommunications Renewal Project to move UCT off its existing PABX and onto an Internet Protocol or IP telephony system, which will use the UCT network to route telephone calls. The project will reduce UCT's reliance on Telkom lines, address issues of ageing technology, and help the university to get more out of its existing network infrastructure. IP telephones will eventually replace all current handsets, but don't worry if you're not a gadget junkie – you'll still be able to use your IP phone like any other regular phone. The new system includes software that offers some great new functionality such as integrated instant messaging, file sharing and video conferencing.

Traditional fax machines won't work in the new IP telephony environment, so ICTS encourages people to ditch those dinosaurs and use the existing RightFax solution instead. Likewise, traditional burglar alarm lines will not work, but Properties and Services are working alongside ICTS to provide an alternative solution before any implementation of IP phones takes place.

At the moment, ICTS is piloting the new IP telephones. Once the pilot is completed, a phased rollout will begin to the rest of campus. You'll hear more about this soon, but in the meantime ICTS advises you not to invest in any new telephone lines. ■



Literary imprint: Lecturer Sonja Loots has won this year's Eugene Marais award for her historical novel, *Sirkusboere*.

Loots wins coveted author's award

Sonja Loots is treading deep tracks in the Afrikaans literary world – she recently joined an elite list of novelists recognised for their early work.

Loots, a lecturer in the Afrikaans and Netherlandic Studies Department of the School of Languages and Literatures, has won this year's Eugene Marais prize from the South African Academy for Science and Art, for her book *Sirkusboere*.

The award, first introduced in 1961, recognises up-and-coming Afrikaans writers. Previous

UCT recipients include literary legends André P Brink (1963), Etienne van Heerden (1984) and Joan Hambidge (1987).

"I am proud to follow in the footsteps of many of my favourite writers who won it before me," Loots says.

Her debut book, *Spoor*, was published in 1995. The 'break' between the two books, she says, was used to do extensive research for *Sirkusboere* – a historical novel about former Anglo-Boer War generals who were recruited to the US to form

the so-called 'Boer War Circus', where they enacted scenes from the war.

Despite her initial fears of how the book would be received – there's lots of humour, some risqué scenes and serious politics – *Sirkusboere* is flying off the shelves.

Can we expect a next book? She's writing a play, she says, and working on her PhD at Stellenbosch University. ■



Nominations for Council are now open

With the term of office of the current Council drawing to a close on 30 June this year, nominations for the new Council are now open and must be submitted in writing.

Once again, the Council will consist of 30 members (12 internal members, including the five ex officio executive offices – the deputy vice-chancellors and the vice-chancellor) and 18 external members, ie members who are not staff or students.

People elected from various constituencies:

- Appointed by the Minister of Higher Education and Training: 3
- Appointed by the Premier of the Western Cape Province: 1
- Appointed by the City of Cape Town: 1

- Elected by the Convocation: 6 external people
- Elected by donors: 2 external people
- Elected by the Senate: 3 members of Senate
- Elected by the academic staff: 1
- Elected by the Professional Administrative Support and Service staff: 1
- Appointed by the Students' Representative Council (SRC): 2 students
- Appointed by Council's Appointments Committee: 5 external people
- Further details of the process and nomination forms are available at www.uct.ac.za/about/governance/council/elections/. ■

New portfolios at the top

UCT's senior executive recently finalised its portfolio allotments. Here, in an easy-to-follow format, is what the roles and responsibilities for the vice-chancellor and the four deputy vice-chancellors will look like for the foreseeable future.

Dr Max Price Vice-chancellor

The vice-chancellor is accountable to Council for the leadership of the university as a whole, and for determining the university's strategic goals and ensuring their implementation. This includes accountability for the university's overall financial health, academic standing, transformation and social justice interventions. He has executive oversight for Council accountability, fundraising and alumni initiatives, external relations, financial oversight, risk management and ceremonial functions.

UCT Portfolio

Portfolio responsibilities relating to UCT strategic goals

Overall strategy and executive oversight,
Transformation, social justice policy intervention

Additional responsibilities and executive oversight

Council accountability, fundraising & alumni initiatives, external relations, financial oversight, risk management, ceremonial functions

Departments and individual reporting lines to VC

Deputy vice-chancellors (4), Registrar, Executive Director - Finance, Executive Director – Communication & Marketing, Executive Director – Development & Alumni, Director – Office of the Vice-Chancellor, Director – Internal Audit

Committee membership ('Ch' indicates chair responsibilities)

Council Executive, VC's Transformation Advisory Committee (Ch), University Finance Committee, Risk Management Committee (Ch), University Audit Committee, University Development Committee (Ch), Alumni Association Management Committee, Remuneration Committee, Joint Investment Committee,

College of Fellows (Ch), Admissions & Progression Committee, Appointments Committee, Honorary Degrees Committee, Baxter Theatre Centre Board

Committees outside UCT

Higher Education SA (HESA), HESA Exco, Southern African Regional Universities Association (SARUA), Association of African Universities (AAU), Association of Commonwealth Universities (ACU), University Foundation, Ukukhula Trust, Worldwide Universities Network (WUN), World Economic Forum (WEF), Global Universities Leaders Forum, UCT Fund: USA (Board of Trustees), UCT Fund: UK (Board of Trustees), Cape Higher Education Consortium (CHEC), Mauerberger Foundation - director



Professor Thandabantu Nhlapo Deputy vice-chancellor

Professor Thandabantu Nhlapo is the senior deputy vice-chancellor. He acts for the vice-chancellor during periods of absence and he provides direct support to the vice-chancellor in the management and co-ordination of the university's special projects. Professor Nhlapo's main portfolio is to address the strategic goal of internationalisation, and more specifically making UCT an Afropolitan university.

His portfolio includes being the Chair of the Management Committee of the Universities Science, Humanities, Law and Engineering Partnerships in Africa (USHEPiA). He has executive oversight for: human

resources, properties and services, staff development, the code of conduct for third-party service providers, PASS staff, and union matters.

Portfolio responsibilities relating to UCT strategic goals

Internationalisation, Afropolitan niche

Additional responsibilities and executive oversight

Senior support and fulfilling the role of acting vice-chancellor as required, human resources, Properties & Services, staff development, code of conduct for service providers, PASS staff and union matters

Departments and individual reporting lines

Executive Director – Human Resources, Executive Director – Properties & Services, Director – International Academic Programmes Office (IAPO), Project Manager in the Office of the Vice-Chancellor

Committee membership ('Ch' indicates chair responsibilities)

responsibilities)

University Human Resources Committee, Honorary Professors Standing Committee (Ch), EU Consultative Forum (Co-Ch), Staff Development (Ch), PASS Forum (Ch), Senior (PASS) Staff Management Advisory Group (SSMAG) (Ch), Operations Management Advisory Group (Opsmag) (Ch), Senate Nominations Committee (Ch), Employee Relations Management Committee., USHEPiA Management Committee (Ch), Internationalisation Management Advisory Group (Ch), University Development Committee

Committees outside UCT

USHEPiA Advisory Board, USHEPiA International Steering Committee (Ch), Board of the Groote Schuur Community Improvement District (GSCID)

Professor Sandra Klopper Deputy vice-chancellor

Professor Sandra Klopper's portfolio focuses on strategic issues, including teaching and learning, institutional size and shape, physical and academic planning, and graduate attributes.

Portfolio responsibilities relating to UCT strategic goals

Teaching and learning and graduate attributes, institutional size and shape

Professor Klopper's portfolio includes executive oversight for:

Teaching and Learning, including graduate attributes,

planning, space planning and physical infrastructure, Information & Communication Technology Services, UCT Libraries

Departments and individual reporting lines

Executive Director – Information Communication Technology Services, Executive Director – UCT Libraries, Director – Institutional Planning Department, Executive Director – Properties and Services (There is a dotted line to Professor Klopper for space planning and timetabling, classroom facilities)

Committee membership ('Ch' indicates chair responsibilities)

University Building & Development Committee, Space

Allocation Committee (Ch), Teaching Awards Sub-Committee (Ch), Distinguished Teachers' Award Sub-Committee (Ch), Timetable Sub-Committee (Teaching and Examinations), University Finance Committee, Quality Assurance Committee (Ch), University Information and Communication Technology Committee (Ch), Academic Staff Development Committee (Ch), Adult Learning Sub-Committee (Ch), Programme Accreditation and Approval Sub-Committee (Ch), University Development Committee



Professor Crain Soudien Deputy vice-chancellor

Professor Crain Soudien's portfolio is to support the vice-chancellor in the area of transformation and social responsiveness. His portfolio responsibilities related to the university strategic goals are transformation, and leading the university's attempt to address the major social challenges of the schools crisis; safety and violence; and poverty and inequality. He has executive oversight in the areas of social responsiveness; student affairs; the staff experience; and government and external relations.

Portfolio responsibilities relating to UCT

strategic goals

Transformation, addressing the crisis in public schools, the Safety and Violence Initiative, the Poverty and Inequality Initiative, the first-year student experience

Additional responsibilities and executive oversight

Social responsiveness, student affairs, government and external relations

Departments and individual reporting lines

Executive Director – Student Affairs, Director – Transformation Services, Director – Institutional Planning Department (There is a dotted line to Professor Soudien for social responsiveness)

Committee membership ('Ch' indicates chair responsibilities)

Institutional Forum (Co-Ch), Admissions Committee (Ch), Admissions Policy Review Task Team (Ch), University Transformation Committee, Residences Committee (Ch), Sports Council, Undergraduate Studies Funding Committee (Ch), University Social Responsiveness Committee (Ch), University Student Affairs Committee (Ch), College of Wardens, Undergraduate Student Funding Committee (Ch), SHAWCO Board (Ch), Children's Institute Board, University Development Committee

Committees outside UCT

Cape Higher Education Consortium – Director, Independent Examinations Board (Ch), Maths and Science Education Project Board (Ch)

Professor Danie Visser Deputy vice-chancellor

Professor Danie Visser's portfolio is to advance research and graduate studies, and to oversee the academic affairs of the faculties.

Portfolio responsibilities relating to UCT strategic goals

Research: profile, impact and engagement, advancing postgraduate studies, climate change and sustainable development initiative

Additional responsibilities and executive oversight

Faculty affairs, academic staff and policy matters (UCT Academics' Union negotiations)

Departments and individual reporting lines

Deans (7), Director of GSB, Director Research Office,

Director Research Contracts & Intellectual Property Services, Director Postgraduate Funding Office

Committee membership ('Ch' indicates chair responsibilities)

University Research Committee (Ch), Postgraduate Studies Funding Committee (Ch), Doctoral Degrees Board (Ch), Deans Forum (Ch), Consultative Forum on Academic Staff Matters (Ch), Board for Graduate Studies (Ch), Joint Staff (clinical) Advisory Committee (Co-Ch), Ad hom promotions (all faculties), College of Fellows, College of Fellows Young Researcher Award Committee (Ch), University Development Committee, URC Committee on Research Reviews

(Ch), IIDMM Management Board (Ch), Boards of Centres of Excellence:

1. UCT/NRF/DST CoE in Catalysis (Ch)
2. UCT/NRF/DST CoE in Birds as Keys to Biodiversity Conservation (Ch), Research Development Awards Committee (Ch), Academic Freedom Committee, University ICT Committee, Vera Davie Study & Research Bursary (Ch)

Committees outside UCT

CAPRISA Advisory Board, Children's Institute Advisory Board, UCT/CSIR Steering Committee, Iziko Museums Advisory Committee (Co-Ch), UCT Press Editorial Board





Constructing a future: The housing sector, one of the most productive in the country, holds many advantages, says Prof Francois Viruly.

Build a house, build a community

A new study reveals that the housing sector offers hope for tenants and the unemployed alike

It's not just tenants who benefit from new houses. Sure, housing units provide growth, sustainable communities, and safety and security. But a new study shows that the housing sector also boasts one of the highest employment multipliers, a measure of job creation based on direct and indirect benefits.

The 10-month study commissioned by International Housing Solutions, a global private equity investor, was conducted by a team led by Professor Francois Viruly of UCT's Department of Construction Economics and Management. The purpose of the study was to audit the social and economic impacts of integrated, affordable housing developments, and to determine the indirect benefits derived from living in such communities.

Interviewing tenants and developers, Viruly and his team found that it takes between 1,200 and 1,500 man-hours to build a 40m² house. This comprises 541 hours of

skilled and 748.8 hours of unskilled work, which translates to 2.45 people employed continuously to complete a typical house in 13 weeks.

Regarding the social impact of such developments, Viruly noted that tenants reported an improvement in the quality of life for children, health and housing.

More than 50% of households have also seen an improvement in access to education and employment from the property that they occupy.

"The overall conclusion is that the developments surveyed provide benefits that go well beyond the mere provision of housing; rather, they are playing an important role in creating sustainable human settlements," said Viruly.

The study comes after reports that South Africa's approach to addressing the housing backlog will move – from a focus on the provision of free housing, to the development of affordable housing. This, it is hoped, will allow families to get onto and move up the housing ladder. ■

From an employment point of view, the building of homes is a relatively good performer, with a direct multiplier of 4.74, a measure of the number of jobs created per R1 million of capital expenditure.

Housing sector	– 4.74	👤👤👤👤👤
Wood products	– 3.94	👤👤👤👤
Trade sector	– 2.98	👤👤👤
Accommodation	– 2.8	👤👤👤
Coal mining	– 2.43	👤👤

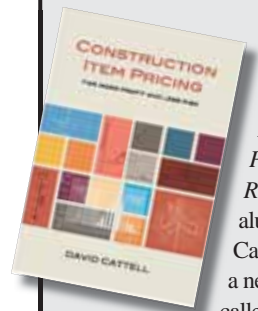
Data source: National Department of Human Settlements document on the Economic Impact of the Government Housing Programme

By the BOOK



South African Criminal Law and Procedure Volume I: General Principles of Criminal Law by Prof Jonathan

Burchell of UCT's Department of Public Law. This fourth edition of the title contains a substantially revised text and commentary on the general principles of the South African criminal law, including an audit of the first 16 years of Constitutional Court jurisprudence in this field.



Construction Item Pricing: For More Profit and Less Risk by UCT alumnus David Cattell outlines a new approach, called Construction Unit Pricing Theory, which is intended to lay a new foundation for a scientifically-based approach to item pricing. It shows that contractors could increase their profit by as much as 150% without much change to their risk.*

UCT's Prof Carlos Correia, Prof Enrico Uliana and Assoc Prof Michael Wormald are three of the four authors of *Financial Management 7E*. Now in its 7th edition, *Financial Management* is the leading text on the theory and application of corporate finance in southern Africa.



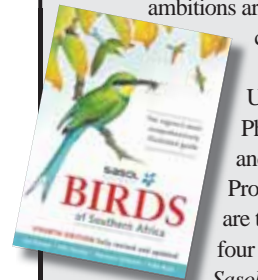
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Year of the Gherkin is the hilarious debut novel of UCT MA graduate, award-winning journalist and erstwhile Ikey rugby coach John Dobson. Set in Cape Town, this is a witty account of the trials and tribulations of Jason Brydon, who dreams of a better life but whose ambitions are marred by constant strife.



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*Published by UCT Press

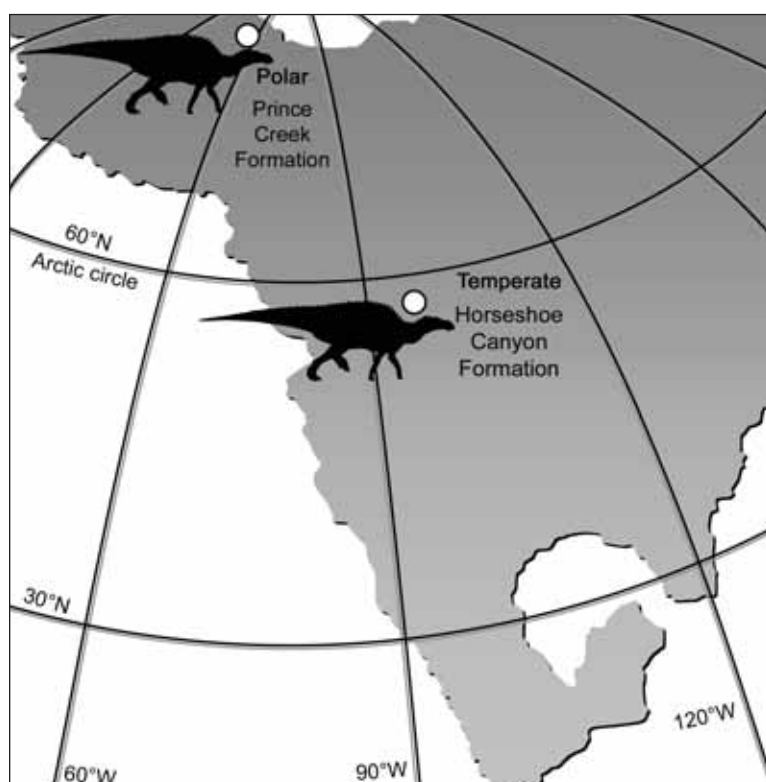
Dinosaur bones debunk migratory myth

Once dubbed the 'happy wanderers' of the North Pole, a new study suggests that duck-billed dinosaurs weren't migratory at all. They preferred to stay closer to home, it appears – the evidence, as a UCT and American team has found, is in their bones.

A team of dinosaur palaeontologists from South Africa and the US have extracted these insights from the bones of *Edmontosaurus*, or duck-billed dinosaurs, which lived in the Arctic about 70 million years ago.

Bone histologist and head of UCT's Department of Zoology, Professor Anusuya Chinsamy-Turan, and colleague Dr Anthony Fiorillo, of the Museum of Nature and Science in Dallas, Texas, reasoned that perhaps clues showing how these dinosaurs lived at such high latitudes might be recorded in the microscopic structure of their bones. With this in mind, the team – which included postdoctoral researcher Dr Daniel Thomas, then at UCT, and Dr Allison Tumarkin-Deratzian of Temple University in Philadelphia, US – began a study of the microscopic structure of the bones of the *Edmontosaurus*, aka the Alaskan polar dinosaur.

The bones, the researchers found, had an odd structure. Similar to tree rings, they showed periodic changes in texture, suggesting a summer and winter bone deposit pattern – most likely



A long, long time ago: The bones of duck-billed dinosaurs that lived at higher latitudes of the Arctic reveal a winter and summer growth pattern, unlike the bone structure of similar dinosaurs found at lower latitudes.

related to the availability of food.

"Since there would not have been green foliage [during the polar night], they probably fed on alternative food such as underground tubers," Chinsamy-Turan says.

In one of the largest individuals (approximately 65% of adult size),

at least eight cycles of faster bone deposition were counted, suggesting that this individual had lived through eight summers. Bones of *Edmontosaurus* that lived at lower latitudes (in Southern Alberta, Canada) did not have the regular, alternating bone pattern, implying that these duck-billed



The bones don't lie: Prof Anusuya Chinsamy-Turan and Dr Daniel Thomas collaborated on a project that investigated the bone structure of the Alaskan polar dinosaur.

dinosaurs were spared the stress of long, dark winters.

The unique pattern of bone deposition in the polar dinosaurs also suggests that they overwintered well within the Cretaceous Arctic circle. So out goes the assumption of nomadic dinosaurs.

But another question has cropped up, after the researchers found bones mainly belonging to younger animals.

The fact that many of them seem to have died at the beginning of spring, and that their fossilised bones are found in melt deposits, has led researchers to believe that seasonal flooding may have led to their death, says Chinsamy-Turan.

"Perhaps the adults were better able to cope with seasonal flooding than the young." ■

Green Week

(From front page.)

2012 An average movie, and, according to some interpretations of an ancient Maya calendar, Mother Earth's final year.

With this in mind, UCT's Green Campus Initiative (GCI) has decided to bring its annual Green Week – suitably themed *Because the World Ends This Year* – forward to the first semester.

The event, a collaboration between the GCI and UCT, will run from 16 to 20 April. The GCI's Keketso Motjuwadi explains that 2012's Green Week theme was born of a desire to highlight a very serious subject – the deteriorating condition of our planet – in a light-hearted way.

"If we keep going the way we are, then things could actually start changing to the point where one day the world could actually end because of environmental changes," says Motjuwadi.

Adds GCI chairperson Kate Pallett: "A lot of events this year are about 'greening' lifestyle changes, and how students can get involved on an individual level."

In addition to the traditional 'greening' of the official UCT website, Green Week will include a 'veglicious' bake sale and a talk on green economies hosted with the UCT Black Management Forum, among other events.



Welcome home: Vice-chancellor Dr Max Price hosted a cocktail function on 22 March to welcome new staff members who joined UCT between October 2011 and February this year. The event, initiated by Price shortly after he took the reins at UCT in 2008, is designed to make new members feel at home on campus, and to encourage them to contribute to the life of the institution. Clockwise from top left: Siona O'Connell and Dr Amaal Abrahams; Price (left) with Alistair Price, Prof Salvatore Macuso and Faiza Mohamed; with Dr Zarina Patel; and with Ray Du Toit, Amon Stanley and Craig Daniel.

A DAY IN THE LIFE

Charmaine van der Merwe, training co-ordinator in the Training and Communication team of UCT's Information and Communication Technology Services Department.

What's the job all about?

In a nutshell, Van der Merwe manages the end-user software training function for ICTS. She analyses the training requirements expressed by the UCT community and makes sure that suitable courses are designed, scheduled and delivered. Working with a team of six staffers, who rotate between their roles as trainers and helpdesk consultants, she makes sure that members of the UCT community are able to use software effectively to enhance their productivity. To make sure that the course offerings keep up with the latest technology, Van der Merwe designs new courses, such as the popular social media course, and the new course on iPads and other tablets that is currently in the works. She manages the internal training function for ICTS

staff members to ensure that they are ready to support all the new technologies and services provided by ICTS. In addition to delivering customised workshops to departments at UCT, Van der Merwe is also responsible for the marketing of all ICTS courses.

What are the challenges of the job?

Van der Merwe believes that, in this techno-cluttered day and age, IT training is vital for making people more productive. However, she worries that this isn't always top of mind, which sometimes leads to delegates pulling out of training, at the last moment because they can't get the time away from the office. Budget constraints also impact on training, as this tends to be the first place that managers look to make savings.



Trained on IT: Charmaine van der Merwe (front, left) and her training team in the ICTS training room in Kramer Building: (from left, clockwise) Tracey Buchelt, Chris Mtshengu, Shaheed Clark, Fahlem Jattiem, Gavin Joe and Megan Abrahams.

What are the highs?

There are two things that really inspire Van der Merwe and keep her motivated in her job. "One is when participants have that 'Aha' moment when they really understand and can apply their newly-acquired skill to their job," she says. "The second is to

see how enthusiastic the trainers are about training – their passion for their subject matter and their willingness to assist participants in their quest for knowledge."

And the lows?

Van der Merwe's team has had

to deal with some physical challenges over the last while. Like the roof in the training room collapsing, and the flooding of the training room – twice! Not to mention the general noise and dust as a result of the building works on middle campus. ■

It's sobering to note how often individuals turn a blind eye to health and safety risks and hazards in the office, teaching and research environments, sometimes risking their wellbeing and that of others.

"The sense of caring for each other has disappeared," lamented Michael Langley, UCT health & safety manager.

The biggest "culprits", he said, are contractors and university members who take 'shortcuts' with the health and safety aspects of their work. These include staff who don't use the university's waste management systems developed for hazardous substances, those who keep hazardous materials in improper storage

cupboards rather than in proper purpose-built storage facilities, and those who obstruct legally required emergency evacuation routes.

Every individual, staff and student must bear the responsibility for health and safety, Langley noted.

"It is a concern when a student or staff member gets injured in the office, teaching or research space, and management in the area don't know what steps to follow.

"If we can start following the rules again and avoid shortcuts, then we can revive the health and safety culture in the university envi-

Think, and take care

that the department is doing in this regard, Langley explains.

Collaborating with vendors and service providers, the department will, for instance, explain and illustrate the measures that are followed to ensure that the food sold at UCT is safe, how people should behave on construction sites, and how to react in emergencies.

"It's all about understanding that health and safety is a legal requirement, and people have a responsibility to themselves and others."

Langley's department is also taking up its awareness programme with managers, staff and student bodies.

For a full programme of events, see page 7. ■

ronment," suggests Langley.

In an attempt to revive that health and safety mindset, Langley's department will host the inaugural UCT Safety Week from 23 to 26 April, ahead of the World Day for Health and Safety at Work on 28 April. Previously the UCT campaign was a one-day affair, but the university has decided that the topic needs more exposure.

Themed *Setting the Standard for a Safer and Healthier Environment*, the campaign aims to create awareness about health and safety issues on campus, and to showcase the work

EVENTS

Seminars and Lectures and Meeting



When: Wednesday, 11 April 2012 at 17h30. Speaker: Professor Mark New. Title: 'Squaring the Circle? Climate Change, Development, Sustainability'. Venue: Lecture Theatre 1, Kramer Law Building, Middle Campus, University of Cape Town

Philosophy Society Meeting

When: Tuesday 17 April @ 20h00. Speaker: Dr Kenneth Hughes. Title: The Career of Philosophy. Venue: Lecture Theatre 2, Humanities Building

HEALTH AND SAFETY

23 – 26 April 2012

Presented by: Safety, Health & Environment Department

"Setting the standard for a safer & healthier environment"

MONDAY - 23 APRIL 2012

09:00 - 11:00: Food Safety - Practical Solutions - James L, RW James Building • 12:00 - 14:00: Case Studies of Serious Fires @ UCT - Hoeri LT1, Hoerikwaggo Building

TUESDAY - 24 APRIL 2012

09:00 - 11:00: Construction Safety: Baxter Hall Residence, Chapel Road, Lower Campus • 12:00 - 13:00: Categorizing Hazardous Chemical Waste - M202 Maths Building • 13:00 - 14:00: Hazardous Biological Waste Management - M202 Maths Building
WEDNESDAY—25 APRIL 2012
10:00 - 11:00: Occupational Health - B106 Beattie Building • 12:00 - 12:40: Safely evacuating an unconscious person (demo) - B106 Beattie Building • 12:40 - 14:00: Practical Health & Safety - B106 Beattie Building

SPECIAL EVENT: By invitation only

ATTENDED BY: UCT SHE Representatives & Safety Delegates
DATE: Thursday - 26 April 2012. TIME: 09.30 - 12.30. VENUE: Smuts Hall, Upper Campus

For more details follow us on:

Twitter: @SHEDeptUCT **Facebook:** <http://www.facebook.com/pages/UCT-Safety-Health-Environment-Dept/160568077359899> **UCT Safety Blog:** <http://blogs.uct.ac.za/blog/health-amp-safety> **28 April:** "World Day for Health & Safety at work"

VACANT POSTS

RESEARCH, PROFESSIONAL, ADMINISTRATIVE AND SUPPORT

POSTS (PASS)

Clinical or Counselling Psychologist: (Part-time Position), Student Wellness Service, Department of Student Affairs, Closing date: 13 April 2012

IT – Technical Consultant, UCT Libraries, Closing date: 16 April 2012

Senior Research Officer: Gender, Health & Justice Research Unit, Department of Forensic Medicine & Toxicology, Faculty of Health Sciences, Closing date: 13 April 2012

Research Officer / Project Manager, Department of Psychiatry and Mental Health, Faculty of Health Sciences, Closing date: 30 April 2012

Research Officer, iComms, Department of Civil Engineering, Faculty of Engineering and The Built Environment, Closing date: 13 April 2012

POSTS FOR UCT STAFF ONLY:

To view the full advertisements and application requirements for each post, please visit www.uct.ac.za and click on "Vacancies"

PROPERTY/ACCOMMODATION

Faculty Cottage Rental: Tastefully Furnished secure cottage, 2BR,2BA, secluded garden, gated, garage, Rondebosch, near UCT, Suitable for professional couple, R8,500 . May1 to December 15.072-097-6060 or 021-6856976. kmoodley@mail.ubc.ca

Ivydene Apartments: offers long-term rentals in an old cape farmhouse. On Jamie Shuttle route, off- street parking, peaceful setting, close to shops & restaurants. Visit www.ivydenearmshouse.com for pictures & information

Newlands, Fernwood. Close to UCT and Kirstenbosch. Furnished Garden Flatlet with 2 large rooms, kitchenette and bathroom available for mature, responsible student or couple from June until September. R5000.00pm inclusive of water and electricity. email jeanne.rousseau@uct.ac.za

B&B: Tranquil B&B set in 2 acres of garden, situated 300m from Kirstenbosch Botanical Gardens upper gate. 11 Km from UCT Campus – ideal for visiting academics. Self-catering available. Call 0027 (0)217622323, visit www.kleinbosheuwel.co.za

Strand: Beachfront Flat to let. Stunning views. Fully equipped. Garage. Sleeps 3/4 People. R450 p/n for 2 people - low season. Phone Brenda 0828820607

Duplex in Woodstock: 2 bedroom townhouse for sale. Open plan lounge, dining room and kitchen, this ideal for a young professional or couple. 24 hour manned security gates, secure parking, communal pool, garden area, and close to N2. R1.1 million neg.Contact: shanaaz.sunday@gmail.com

Newlands Village: Garden Cottage for Rental, R3000 p/m May to August 2012. Suitable for Visiting Academic - Lock Up Garage + Wi-Fi. Phone : 0216834325

FOR SALE

Car: City Golf 1.3 181000kms. Central locking. Alarm. Smash & grab tints R 34000 neg Contact 0723035203

Ray-Bans: Brand New Raybans in case and box . Never been worn. Valued at over R1600 selling for 1200 neg. Contact 0823453865

Car: 2009 Renault Sandero United 1.6 L, white, R85,500. Excellent condition and bodywork. Full inspection by DEKRA. Available July 1, 2012. Estimated odometer: 50,000-60,000 km. Contact: cb@ideo.columbia.edu

Axe: 1.8kg Poly Handle Lasher axe R200 new tel: ext: 4739 or 0727802784

Books: Title: BACK TO WORK Author: Bill Clinton (ex usa president) Price: R120 new still wrapped; Title: MY JOURNEY Author: Victor Matfield (ex rugby springbok) Price: R150 new still wrapped unwanted gift; Title: LAND MARKED (Land Claims & Land Restitution in South Africa) Author: Cheryl Walker Price: R150 new still wrapped tel: ext. 4739 or 0727802784

Lawn Mower: Lawn Star Electric Lawn Mower (as new) - Catcher Mower Quadblade - Model: LSQ 2246E 2200W 50HZ 240V. R650. Contact: X 4885/083-4634853

GENERAL

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Domestic: My young char Avela is available Mondays to Thursdays. An excellent worker, honest and reliable. Her family has worked for mine for over 40 years. She has successfully completed Child Care & Development, Infant and Child CPR and Basic First Aid courses. References available.

Contact merle.futter@uct.ac.za 0217943858 or 0832060962

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Domestic worker: Domestic worker and child carer recommended. Contact Dr Mark Sonderup on mark.sonderup@uct.ac.za for details and information.

Housesitter: Responsible Lady is available to housesit for a long term very good with animals and plants good refs please ph 0732814908 or 0848187147 S/Suburbs

Yoga: EGS Dept - Upper Campus Fridays 12h45 - 13h45 R60 per class. All Welcome Ph Sharon x2873

House sitters: available Dec - early Jan. Responsible Cambridge academic family can care for pets, keep house secure and maintain garden to professional standard. sch30@cam.ac.uk.

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Taking sabbatical? Careful UK couple (husband lectures at UCT) could house, cat and dog sit for a year. Phone 0765635500 or 0215317839

DATABASE: I design and write databases, to your specification; on a "No cure - No pay" basis. Call Roger on 021 715 4027 or email rehh@telkomsa.net for free quote

House Sitting: Visiting professor is looking for housing for the months of June and July - I'll be in town from Johns Hopkins University with husband and daughter. Prefer 2+ bedrooms and proximity to campus or City Bowl. I have a budget to pay for accommodation, and am also willing to housesit. Please email lfolda@jhu.edu

Wanted: Division of Neuropsychiatry seeking Android programmer with experience in application development to work on clinical apps. We are prepared to pay competitive rates for coding. Please contact Prof John Joska at John.Joska@uct.ac.za

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Imagine there's no console

How many UCT students get to play Xbox on campus and call it academic studies?

A group of lucky second-years in the Computer Game Development Course of UCT's Department of Computer Science, it appears.

While it's very hands-on stuff, it's not all fun and games, though, cautions Dr Patrick Marais, course convenor. The programme has very practical scholarly value.

"The intention is to try to make computer science interesting for students by teaching elements of gaming," Marais says.

Marais explains that overseas institutions have been successfully demonstrating certain computer science principles through the teaching and development of gaming.

"Games these days involve computer graphics, networking, databases. Many computer science principles need to be mastered to write your typical game."

At the same time, the department aims to lend a helping hand to the fledgling local games-development industry, competing in a global industry estimated, according to one study, to be worth over R190 billion in 2011. Without a viable local sector, the danger is that South Africa will lose good designers to overseas companies, says Marais.

Those could include the likes of Richard Pieterse, who was in no doubt about why he signed up for the course.

"I want to build games," Pieterse says. "I want to make people happy with games."

Marais and his students also have reason to be happy with their progress.

In December last year, trio Ryan Mazzolini, Matthew Miller and Pieterse – or Team Rom, as they called themselves – won an Xbox360 for the Department when they finished second in the South African rounds of the international Imagine Cup, funded by Microsoft. This, in the game design category, for their work on a first-person shooter game – *Radix Omnium Malorum*, Latin for 'root of all evil', also described as an "arena style death FPS".

Not a bad achievement considering that the team entered at the eleventh hour with a game that didn't have the Imagine Cup in mind and so didn't quite meet the specs of the competition.

It was a timely victory, nonetheless, as one of the course Xboxes had just recently given up the ghost – the result of extensive wear and tear, no doubt.

Classmate Henk van Jaarsveld was confident that this year's crop of undergraduate gamers would do even better in the Imagine Cup.

"Some of those guys are really, really good," he enthused. "Since we have a specialised games course – I don't think the other universities actually have it – we'll be more prepared." ■



Game on: From top – (back) Henk van Jaarsveld, Bilo Lwabona and (front) Richard Pieterse, Kevin Shaun Brenkel and Ryan Mazzolini working on their course notes; course convenor Dr Patrick Marais, Van Jaarsveld and Mazzolini put their winning game through its paces; the prize; and (back) Pieterse, Kaitlyn Crawford, Mazzolini, Marais and (front) Simba Nyatsanga and Van Jaarsveld get caught up in the action.

Clinical performances in medical rugby derby

At least there would be ample help around if things got bloody. Fortunately, rugby was the winner when the UCT pre-clinical years beat their clinical-year counterparts 28-26 in a closely contested health sciences derby (held twice a year) in March. The medics join forces for the second – and final – match against the University of Stellenbosch's medical rugby team in the Centenary Series on 1 June at the Green Mile. ■

Social commerce the focus for young entrepreneur

In this the age of Gumtree and Ibidorbuy, does the world really need another site on which to sell or buy stuff? UCT electrical and computer engineering student Ivan Cadri Togboa thinks so.

The young entrepreneur launched his exclusive-to-UCT classifieds website, www.ripplesale.com, in January this year. What sets ripplesale apart is that it has the needs and pockets and time constraints of students in mind.

The site, explains Cadri Togboa, caters for students looking for bargains and who find scouring endless notice boards around campus rather tiresome. It is designed to facilitate organised online interaction between students so that trading occurs much more efficiently, he says.

"It should make it much quicker and easier for the person who's selling."

Cadri Togboa explains that ripplesale's social commerce aspect stems from the idea that trade would take place within an online social network. So it sort of aims to roll Facebook and eBay into one – hence the site's sales pitch that it's not just about social networking and classifieds; it's "more like social commerce".

It is this feature that the creator believes will make www.ripplesale.com stand out from the crowd.

"The main catch was to have social interaction," he says. "You have people messaging, suggesting and trading with each other based on events in their community, and so on."

While traffic to the site is not as heavy as he had hoped, Cadri is convinced that ripplesale will catch on and become a staple for student life at UCT and beyond. ■

Setlaba: We've just got to improve



UCT Ikeys rugby captain Ntsolo Setlaba endured a baptism of fire as his debut season at the helm ended with just one victory in the 2012 FNB Varsity Cup. *Monday Paper* caught up with Setlaba as he and the team prepared for the crucial promotion/relegation playoff clash against Central University of Technology (CUT) on 9 April, which will decide if the Ikeys stay in the Cup competition or drop down to the Shield event. (The match is a curtain-raiser for the final between the Universities of Stellenbosch and Pretoria.)

MP: This Varsity Cup campaign didn't quite go according to plan. What went wrong?

NS: It was those little things that didn't go right for us. Our big concern was that we always played well in patches, but we never really put in 80 minutes of good rugby, and that's going to cost you.

MP: How are you going to improve for the Super League and for the playoff match?

NS: From here on it's just a case of each player improving, getting better. In terms of quality, the guys that we've got are good enough to come back and win the thing. We've still got the Super League, which we won last year. So it's disappointing to have lost the Varsity Cup, but also, there's a lot more until the end of the season.

MP: What's the mood in the camp like ahead of the Varsity Cup match?

NS: Obviously disappointment. It's not where we saw ourselves playing. But there's a job to be done, and we understand how important this game is to the club for the next two years.

MP: What will you say to the team before they run out against CUT?

NS: Just that we need to go out and play at a much higher intensity than they are used to, and just to have fun. Whenever we've played well in those patches, it's been when we were having fun. ■