



## TOP STUDENTS TO CAMBRIDGE

Two outstanding University of Auckland students have won two of the three Woolf Fisher Scholarships, worth up to \$100,000 per student, per year, for doctoral study.

Engineering student Alex Kendall and Science student Jane Leung have been awarded scholarships to study for PhDs at the University of Cambridge.

The Woolf Fisher Scholarships are awarded each year to three of New Zealand's top graduates and recognise outstanding academic ability and other qualities such as integrity, leadership, boldness of vision, exceptional zeal, keenness and capacity for work.

Alex (from Christchurch), is finishing a Bachelor of Engineering (honours) degree in mechatronics engineering via the faculty's accelerated pathway programme. Last year he designed and built a quadcopter UAV (unmanned aerial vehicle), and this year he completed his final year research project on "An on-board autonomous object tracking control system for a quadcopter."

At the University of Cambridge he hopes to join the Control Engineering Research Group to continue studying control of autonomous aircraft.

"Mechatronics systems are able to provide tangible benefits to society," says Alex and this fits with his desire to use his technological knowledge to help society. "I hope one day to have the responsibility of technical leadership, to bring control technology, and in particular robotics, to innovate New Zealand's economy."

Jane, who is completing an honours degree in the School of Chemical Sciences, will be based in Dr Erwin Reisner's laboratory in the Department of Chemistry at Cambridge. She will be examining photoelectrochemical cells, devices that use solar power to produce hydrogen as a clean, renewable energy source that may one day replace fossil fuels, for instance in vehicles.

She explains that the challenge facing chemists is to use solar energy to generate the chemical reaction that splits water into its component parts of hydrogen and oxygen, so that the hydrogen can be drawn off as fuel.

The nanoscale characteristics of the material used to capture the solar energy are critical. The material must be capable of being "excited" by the sun to generate the reaction, before switching back to its original state to repeat the

*Continued on page 5*



### Stop press

Professor of English Michele Leggott picked up one of the three 2013 Prime Minister's Awards for Literary Achievement earlier this week.

She was awarded \$60,000 in recognition of her outstanding contribution to New Zealand literature.

Michele MNZM is a professor in the Department of English and the founding director of the NZ Electronic Poetry Centre. An award-winning poet and literary scholar, she has published seven previous collections of poems and edited several influential anthologies and collections of essays. In 2007 she was appointed inaugural New Zealand poet laureate (2007-9) and was made a Member of the New Zealand Order of Merit (MNZM) in 2009 for her services to poetry.

# MP visits LGBTI Network

“It was like winning a World Cup final.”

That’s how Labour MP (Manurewa) and former Silver Fern Louisa Wall has described the passage of the Marriage Amendment Bill into NZ law.

Louisa, who sponsored the highly-publicised Bill, recently spoke at the University’s LGBTI (Lesbian, Gay, Bisexual, Transgender and Intersex) Student and Staff Network meeting.

Louisa praised the University’s LGBTI initiative, noting that the Network plays a vital part in ensuring the University of Auckland is a safe, inclusive place for LGBTI people to study and work.

The Marriage Amendment Bill ensures that all people, regardless of sex, sexual orientation, or gender identity have the opportunity to marry if they choose. The Bill, which was passed into law in April, makes New Zealand the 13th nation to allow same-sex marriage.

In addressing the Network, Louisa shared some of the lessons she learned whilst steering this Bill into law. When asked how she managed to stay resilient in the face of sometimes challenging opposition to the Bill, Louisa highlighted the need to stay focused on the issues and to avoid taking personally any potentially upsetting criticism. Louisa acknowledged that resilience is a necessary attribute of many LGBTI people. She added that in any discussion of significant social and legislative change a variety of views was to be expected and welcomed.

Louisa ended her presentation by saying how pleased she was to have joined the LGBTI meeting and that she looks forward to an ongoing relationship with the University’s LGBTI community.

To join the University’s LGBTI Student and Staff Network visit: [www.equity.auckland.ac.nz/lgbti](http://www.equity.auckland.ac.nz/lgbti)



Dr Terry O'Neill (Director Student Equity), Louisa Wall (Labour MP, Manurewa) and Levi Joule (AUSA Queer Rights Officer).

# All the way to New York

A group of New Zealanders, including the Speaker of the House, the Rt Hon David Carter, are running the New York Marathon on 2 November to raise money for the CatWalk Spinal Cord Injury Trust that supports research at the University’s Centre for Brain Research (CBR).

The New York Marathon fundraiser, ‘Running so others can walk’ is the Trust’s main annual fundraising initiative.

Recently, David Carter visited the spinal cord research facility at the CBR as a guest of the CatWalk Trust. He was given a tour of the research laboratories and met CBR director, Professor Richard Faull and spinal cord researchers, Professor Louise Nicholson and Dr Simon O’Carroll, who updated him on the latest developments in spinal cord injury research.

“The contributions from the CatWalk Trust for the last eight years have enabled us to build on our work here and set up this spinal cord research facility,” said Dr O’Carroll. “The aim of our research is to prevent or reverse the effects of inflammation after a spinal cord injury.”

“We need to be able to manage the inflammatory response that has occurred as a result of trauma and create a window of time to try a drug intervention by reducing pressure, swelling and inflammation.”

Dr O’Carroll is leading research into the use of a peptide to reduce inflammation and scarring following spinal cord injury. This peptide prevents cell to cell communication and was developed in a collaboration led by Professor of Ophthalmology Colin Green.

David Carter was impressed by the research taking place within the facility and said, “It’s

great to know about the valuable, cutting edge research that is being done here. It will give me something else to think about when I am running in the marathon.”



# Highlighted Events

## Healthy hearts

Practical ways to improve your heart health will be discussed at a free public lecture in Grafton on 6 November. Professor Rob Doughty, the Heart Foundation Chair of Heart Health at the University will talk about heart disease, how research can improve our understanding of heart disease and practical strategies to improve heart health for all New Zealanders. The lecture is organised by the Auckland Medical Research Foundation and will be held at the AMRF Auditorium in the University’s Faculty of Medical and Health Science building at 85 Park Road, Grafton.

## Law’s Annual Lecture

On Wednesday 6 November 6pm at Old Government House, Justice Lowell Goddard will give the Annual Lecture on The OPCAT (United Nations Convention Against Torture and its Optional Protocol) and its Preventive Role in the Elimination or Reduction of Torture and Ill-treatment of Detainees. Please RSVP to [lawevents@auckland.ac.nz](mailto:lawevents@auckland.ac.nz) [http://www.humanrights.auckland.ac.nz/uoa/home/events/template/event\\_item.jsp?cid=592641](http://www.humanrights.auckland.ac.nz/uoa/home/events/template/event_item.jsp?cid=592641)

## Action

There will be a showcase of selected choreographies created and performed by students from the Dance Studies programme at the National Institute of Creative Arts and Industries, on 1 and 2 November 7pm, Musgrove Studio, Maidment Theatre. Tickets available from the Maidment. Phone 308 2383.



# New microscope game-changer



The School of Biological Sciences has celebrated the launch of a state-of-the-art transmission electron microscope that will open new horizons for researchers.

"The microscope is a game-changer," says one of its delighted new users, Alok Mitra, Associate Professor of structural biology. "It is the first of its kind in New Zealand, and it opens up avenues of research and teaching that were previously unavailable to us."

A transmission electron microscope uses a beam of electrons to form an image of an ultra-thin sample – less than a few microns (a micron is one-millionth of a metre). The magnified image can show details at atomic level – a much higher resolution than an optical microscope can produce.

Alok says that the \$3.5 million microscope, known as a TF20, is extremely versatile and will be used for research in life, material and chemical

sciences. The high operating voltage of the microscope – some 200,000 volts – and its imaging device allow for electron tomography, a technique akin to a CT scan.

"The TF20 is likely to arouse interest throughout the entire biological and biomedical community in New Zealand," he says. "Most research interests in life sciences intersect at a cellular level, and that's where 3-D electron tomograms of entire cells and cell organelles can provide ground-breaking contributions." In addition, researchers in material sciences will be able to combine their images with atomic compositional maps at nanometric scale.

Alok expects that co-located companies in the Institute for Innovation in Biotechnology will be keen to pursue joint research and development ventures that utilise the TF20's powers. The microscope is housed on level one of the Thomas Building.

## Politicisation of affirmative action

Dr Steven Ratuva launched his book *Politics of Preferential Development: Trans-global study of affirmative action and ethnic conflict in Fiji, Malaysia and South Africa*, at the Fale Pasifika recently.

Dr Ratuva – a senior lecturer in the Centre for Pacific Studies – says the book provides an analysis of the complex linkages between ethnic conflict and affirmative action as a tool of equity and a leverage for political stability. But the reality is much more complex as political elites and the economic middle class take advantage of the situation to create patronage networks to enrich themselves.

"One of my research interests is conflict and peace-building. The book provides a critical examination of affirmative action in three countries (Fiji, Malaysia and South Africa) where ethnic conflict had been part of their political history," Dr Ratuva says.

Affirmative action, which refers to policies

framed to address the situation of disadvantaged groups, has been used by different countries to serve particular purposes, either to redress historical inequality, promote social justice or as a conflict resolution mechanism.

"One of the lessons learnt is that politicisation of affirmative action can create tension rather than stability as we saw in the three countries. The book is meant for scholars and also policy makers as well as those interested in issues of ethnic conflict and peace-building."



## From the Vice-Chancellor



### Tuition fees set by Council

At its meeting on Monday, the University Council considered tuition fees for students. The meeting had to be held at a secure site off campus. This arrangement was regrettable, but necessary because of disruptions to fee-setting meetings experienced in the last two years and the harm done by protestors to staff; two of whom were off work for up to three months as a result of being assaulted. However, this year's meeting was relayed by video to the Old Government House lecture theatre on the City Campus, which ensured that the Council met its obligations to make the decisions in a manner that could be observed by the public.

After considerable debate, Council supported management recommendations that tuition fees for domestic students increase by 4% for 2014. This is the maximum allowable under the Annual Maximum Fee Movement regulations set by Government. An increase of 7.3% would have been required to maintain revenue per student at the same level as 2013 in real (purchasing power) terms. This is because Government funding will increase by only 1.1% whereas University costs, mainly staffing costs, will increase by 3.3%. The result of all this will be a shortfall of about \$5.3 million in 2014 – the equivalent of over 50 staff positions. The only alternative, given government constraints on our revenues, would be to retain the number of staffing positions but have no salary increases. That is clearly not acceptable when we are trying to attract and retain a high calibre staff in a very competitive international and domestic market.

Fees for international students are set a year ahead so that programmes can be marketed internationally. For 2015 they will increase by 2.9%, reflecting a combination of cost and market factors.

The net effect of this is that our income per student continues to fall in real terms, as it has done now for many years. But international rankings of universities are closely related to income and expenditure per student, rather than to total income – in short, quality is expensive. It should therefore be no surprise to anyone – least of all Government – that the rankings of New Zealand universities are in decline. And how ironic that the Government sees as a solution reducing the size of university councils – something that is not related to rankings or quality at all!

## Renowned geneticist joins staff

One of the world's foremost human geneticists and leukaemia researchers, Professor Stefan Bohlander, will be researching cures for leukaemia and other blood cancers at the University of Auckland.

Professor Bohlander is the inaugural holder of the new Marijanna Kumerich Chair in Leukaemia and Lymphoma Research at the University of Auckland's Department of Molecular Medicine in the School of Medical Sciences.

The Marijanna Kumerich Chair is generously funded by her family in Auckland and is the focal point of the University's new Leukaemia and Blood Cancer Research Unit, also supported by a \$1.25 million donation from the Leukaemia and Blood

Cancer Society of New Zealand.

Under Professor Bohlander's leadership, the unit will focus on innovative research into the causes and treatment of blood cancers and related disorders. It will become part of an integrated cancer centre at the University together with the Auckland District Health Board.

Stefan has come to New Zealand from Philipps University Marburg in Germany where he was the Director of the Institute of Human Genetics.

After his medical training at Freiburg University, Stefan joined the laboratory of Professor Janet Rowley at the University of Chicago, who pioneered the study of chromosomal changes in leukaemia. He spent the next seven years in research in Chicago, followed by an appointment to the Institute of Human Genetics at the University of Göttingen in his native Germany. In 2001 he was appointed Professor of Molecular Haematology and Oncology at the University of Munich.

The University of Auckland's leading zebrafish research facility was one of the attractions to Stefan in choosing to work at the University. It is one of only a handful of such facilities in the world for molecular medicine research.

"The zebrafish is well suited for establishing leukaemia models. Even though mouse models of leukaemia are widely used in research (because as mammals, mice are closer to humans), they are also quite expensive to keep and it takes

considerable time to establish a mouse model," he says.

"Smaller zebrafish, even though a little further away physically from humans, have the advantage of multiplying rapidly, and leukaemia models can be established much faster in zebrafish than in mice. It is easy to breed thousands of zebrafish for use in cancer drug screenings."

"In the last five or six years there has been a revolution in enabling technologies for the genetic analysis of cancers," he says. "This means much faster reading of the human genome that is faster and cheaper DNA sequencing. The cost of sequencing has come down over a million fold in the last decade."

"Blood cancers often don't show abnormalities using the standard chromosome analysis techniques, so it is only by sequencing the genome that you can find the mutations responsible," he says. "We are now bringing in next generation sequencing machines to read the genomes in a very short time, so we can see what is wrong and apply that to our treatment of patients."

One of the projects that Stefan will work on, will look at drugs already used successfully for patients, and refine their use for particular leukaemia using the zebrafish models.



## Te Hana collaboration



For decades the small rural town of Te Hana faced decline. With high unemployment and few opportunities for the area's young people, economic and social issues were badly affecting the community.

In 2002 local residents formed the Te Hana Community Development Charitable Trust with the aim of reviving the area. Founded on Māori values, knowledge and practice, over time the Trust succeeded in establishing an educational Marae and cultural village.

Jump forward to 2009 and the beginning of a unique collaboration between staff and students from the School of Architecture and Planning, at

Te Whare Wānanga o Tāmaki Makaurau and the Te Hana Trust was formed with support from Pro Vice-Chancellor Jim Peters. Lecturer Lena Henry led the first Immersion Studios at the Te Hana Marae with support from Professor Dory Reeves and former Senior Lecturer Bruce Hucker. Forming part of the four-year undergraduate programme in planning, through the School of Architecture and Planning at the University, the aim of the initiative was to work with the local community in a mutually beneficial way.

Students and staff stayed at the Marae, working with the Te Hana Trust to identify issues facing the community and find solutions. This allowed planning students to learn through experience and gain a greater awareness of the needs of marginalised communities.

To date over 150 students have taken part in Immersion Studios, which involve an innovative combination of activities and assessments designed to help students develop their skills as reflective practitioners. The studios have also contributed to the creation of the Te Hana Community Outcome Plan - with research on urban design of the streetscape as well as the re-establishment of the local wharf. They also

developed a funding toolkit for Te Hana's reference.

More recently, Immersion Studios have focused on empowering the Te Hana community to engage with the Auckland Council's strategic plans and to understand the extent to which the plans will impact on their community vision and goals.

Professor Reeves believes that taking studios out into the community is crucial, not just for fostering relationships, but also to raise the profile of both the profession and the University, and to teach future planners the importance of Māori values and practices.

In December 2012 the relationship was formalised, strengthening it further, with the signing of a Memorandum of Understanding between the Te Hana Trust and the University. This provides ongoing opportunities for student engagement, cultural immersion, promoting tikanga Māori and to work collaboratively on joint research projects through Te Whare Kura also involving Kepa Morgan from Engineering. Next time you are on your way north make sure to stop at Te Hana and take the opportunity to go on a tour.

# Don't leave your language at the gate

A teacher aide project, encouraging student learning in "first languages", is making an impact on Pasifika students.

The Pasifika Teacher Aide Project (PTAP), designed and delivered through Auckland UniServices Ltd to up-skill and support teacher aides who use Pacific languages for learning, arose after research commissioned by the Ministry of Education in 2005. It has now reached more than 250 schools, 250 coordinating teachers and 660 teacher aides.

Project director and facilitator Rae Si'ilata explains that the initial research examined how Pasifika teacher aides were using languages in class. "It became apparent very quickly that educators with Pacific heritage did not readily associate their own first language with learning itself. They tended to use their language mainly for social communication and discipline. Many felt that they would be more effective in class if they were encouraged to use their first language and saw a need for systemic change," she says.

A modifiable programme was developed which could be tailored for different cultural mixes around the country. The programme works by forming regional cluster groups of teachers and teacher aides who participate in four day-long workshops. Regional facilitators also conduct school visits to observe teacher aide practice and provide feedback.

"For many," says Rae, "this is the first time that they have been asked to engage in a co-constructed learning conversation about their practice, with a facilitator."

The introduction of more material to trial and a check on the sustainability of the new practices are carried out during a follow-up workshop within the same cluster. A condensed two-day programme option is also available in areas with growing Pasifika communities that lie outside the main centres (such as Pukekohe, Gisborne, Blenheim and Oamaru).

The programme results are seen in the classroom. Rochelle Atherton, a Year One and Two teacher of Samoan heritage who works in Christchurch says the programme did wonders for her understanding of issues around first languages. "When I made the conscious decision to actually ask students, 'How do I say that in your language' or 'what do you do in your culture in this scenario', I found that they would just shrug as a default response. But after a while, the kids were bringing words and stories to school from home.

"It's great that we can involve parents in this way, who I think had previously assumed that an English-medium school was just that and that alone. There is no longer the impression, among the kids and parents, that school is not the place for their heritage."



Christchurch schools cluster group celebrates Pasifika Teacher Aid Programme graduation.

"Top students to Cambridge" continued from page 1

process renewably. Should a material prove successful in the laboratory, the next challenge will be incorporating it into a fully-functional device and scaling it up for economically viable industrial production.

Jane is interested in materials research, and will be examining semiconductors and catalysts that may be used in such photoelectrochemical cells.

"One of the reasons I'm drawn to this field is that it's a fledgling area. There aren't many experts anywhere in the world, and no-one has laid down the fundamental groundwork yet," she says. "It's a new and exciting area that could go in lots of different directions."

### The Royal Society of New Zealand – Marsden Fund Roadshows

The Marsden Fund supports excellent fundamental research and provides researchers with the opportunity to investigate novel ideas. The Research Office invites prospective 2014 applicants to attend one of the roadshows, which will be presented by Peter Gilbert, Marsden Fund Deputy Manager. The roadshow theme includes advice, hints, Q&A, tips, what's new and "ask Marsden". No registration required, dates and venues as follows:

#### CITY CAMPUS

Tuesday 19 November, 10.30-11.30am, Old Government House (102-G36 lecture theatre)

#### TĀMAKI INNOVATION CAMPUS

Tuesday 19 November, 2-3pm, School of Population Health, (730-266 Seminar Room)

#### GRAFTON CAMPUS

Wednesday 20 November, 1-2pm, FMHS (101-110 Lecture Theatre)

Please email enquiries to

[ro-submissions@auckland.ac.nz](mailto:ro-submissions@auckland.ac.nz)

### The Royal Society of New Zealand

The International Mobility Fund for the USA supports new international science and technology linkages between New Zealand and the USA and funds New Zealand and US researchers to travel and stay in either country to facilitate work on joint research projects. Guidelines and application forms are available at [www.royalsociety.org.nz](http://www.royalsociety.org.nz). Deadline in the University's Research Funding Module is 19 November, please email enquiries to [ro-submissions@auckland.ac.nz](mailto:ro-submissions@auckland.ac.nz)

### NZ Society for the Study of Diabetes – Eli Lilly Awards

The Specialist Research Award supports diabetes research in New Zealand by providing funding of \$40,000 to health professionals wishing to commence or continue a career of research in Diabetes Mellitus. The Nurse Specialists Research Award provides funding of \$10,000 to enable nurses who are society members to undertake research in this field. Information and application forms can be found at [www.nzssd.org.nz](http://www.nzssd.org.nz). Deadline in the University's Research Funding Module is 25 November, please email enquiries to [ro-submissions@auckland.ac.nz](mailto:ro-submissions@auckland.ac.nz)

### New Zealand Optometric Vision Research Foundation

Research Grants providing funding for research and vision care projects in Optometry and Visual Science. Information and application forms can be found at [www.nzovrf.org.nz](http://www.nzovrf.org.nz). Deadline in the University's Research Funding Module is 25 November, please email enquiries to [ro-submissions@auckland.ac.nz](mailto:ro-submissions@auckland.ac.nz)

# From the art collection

As a child, Julian Hooper spent nine months living on Fakaofu, the main atoll of the three that make up the tiny country of Tokelau. His parents, anthropologist Antony Hooper, and linguist Robin Hooper, took Julian and his brother Matthew with them while they worked on a study of Tokelauan health for Ian Prior, Director of Epidemiology at Wellington Hospital.

This watercolour, completed almost 20 years later, shows how indelibly the visual memory of the Tokelauan experience was imprinted. Working quickly in watercolour to build up an image which is both a record of a specifically male activity and an evocation of unrelenting sun, azure sea, tension and dynamic movement, Hooper has blurred the outlines of his figures by saturating the paper with water before laying on his pigments.

The atolls of Atafu, Nukunonu and Fakaofu are separated from each other by sixty to ninety kilometres of open sea, and fishing is an important but often dangerous activity for Tokelauan men. Julian and his brother were taken out with their Tokelauan friend Uili in outrigger canoes to catch pála or wahoo (*Acanthocybium solandri*). This predatory ocean fish belongs to the same family as the tuna and skipjack, but is longer in the body and more ferocious in defence of its freedom. One of the fastest fish in the ocean, it can swim at speeds up to 80 kilometres an hour. It was reputed to be the favourite quarry of legendary author and big game fisherman, Ernest Hemingway when he lived in Havana.

Unlike Hemingway with his diesel outboard motor and heavy duty fishing rods and reels, Tokelauans catch the pála by using a traditional Tokelauan fishing technique called taki ulu. This involves trolling (taki) a bait (ulu) on a light line off the canoe as it is paddled through the water,



tempting the pála to rise to the surface and follow. A test of the skill of the fisherman is whether he can manage to then seed the waves with free bait to lure a fish into his wide noose made from fishing twine. As soon as the fast-swimming fish puts its nose in, the fisherman's reflexes have to be quick, pulling the loop tight, hopefully catching the fish by its tail. As Julian Hooper remembers, "Great precision and split-second timing are required. No one talks."

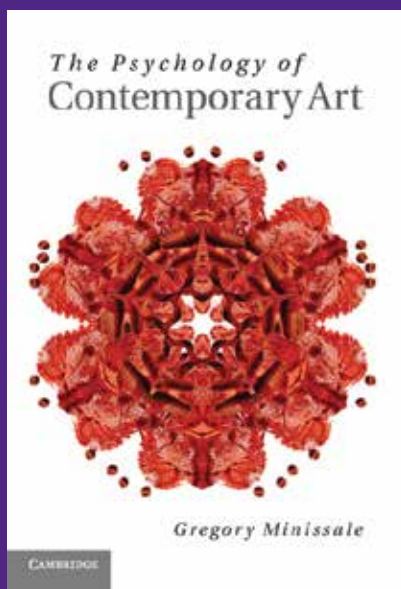
In conjunction with the launch of Marti Friedlander's memoir, *Self-Portrait*, published by Auckland University Press, a digital exhibition of 212 photographs of her six-week visit with the

Hoopers on Tokelau in 1971 is on show at Gus Fisher Gallery. These photographs have been digitized by the University Library and form part of the online Anthropology Archive.

Linda Tyler

*Julian Hooper, Fishing for Pála, 1990, watercolour on paper, 500 x 640mm.*

## Book



## The Psychology of Contemporary Art

While recent studies in neuroscience and psychology have shed light on our sensory and perceptual experiences of art, they have yet to explain how contemporary art downplays perceptual responses and, instead, encourages conceptual thought. This book by Gregory Minissale, a Senior Lecturer in the Department of Art History, brings together the most important developments in recent scientific research on visual perception and cognition and applies the results of empirical experiments to analyses of contemporary artworks not normally addressed by psychological studies. The author explains, in simple terms, how neuroaesthetics,

embodiment, metaphor, conceptual blending, situated cognition and extended mind offer fresh perspectives on specific contemporary artworks - including those of Marina Abramović, Francis Alÿs, Martin Creed, Tracey Emin, Felix Gonzales-Torres, Marcus Harvey, Mona Hatoum, Thomas Hirschhorn, Gabriel Orozco, Marc Quinn and Cindy Sherman. This book will appeal to psychologists, cognitive scientists, artists and art historians, as well as those interested in a deeper understanding of contemporary art.

# What's on

## THURSDAY 31 OCTOBER

### NiHI Symposium

*Big Data in Healthcare.* 8.30am-5.30pm, Auckland War Memorial Museum.

An exploration of how big data can empower healthcare transformation, while addressing issues like privacy concerns and the potential misuse of public data. Speakers include Dr Tony Blakely, University of Otago; Dr Brett Cowan, Centre for Advanced Magnetic Resonance Imaging; Richard Hamblin, Health Quality and Safety Commission; and Privacy Commissioner Marie Shroff. Visit [www.nihi.auckland.ac.nz/bigdata](http://www.nihi.auckland.ac.nz/bigdata)

### Centre for Brain Research seminars

10-11.30am, Clinical Education Centre, Level 5, Auckland City Hospital.  
1) Dr Ari Bok, Neurosurgeon, ADHB: *Surgical management of movement disorders: past, present and future.*  
2) Dr Mark Simpson, Neurologist, ADHB: *Deep brain stimulation for Parkinson's Disease.*

### Child and family research seminar

Dr Irene de Haanz: *A good start; support for families in transition to parenthood.* 4pm, N404 Lecture Theatre, Epsom Campus, 74 Epsom Ave. Register at <https://strengtheningpracticeseminars.eventbrite.co.nz>

### Inaugural Lecture

Prof Simon Malpa, Physiology: *Medical devices development in NZ; people, potential and pitfalls.* 5.30pm, Lecture Theatre 505.007, Grafton Campus.

### 2013 Keith Sinclair Lecture

Assoc Prof Kim Phillips, UoA: *Strange encounters: Europeans in Asia before the modern era.* 6.30pm, Lecture Theatre B10, General Library Bldg.

## FRIDAY 1 NOVEMBER

### Department of Sport and Exercise Science research seminar

Prof David Cameron-Smith, Chair in Nutrition, Liggins Institute: *The role of diet in post-exercise muscular adaptations.* 12.30-1.30pm, Rm 731-203, Tāmaki Innovation Campus. Queries to [k.sukhia@auckland.ac.nz](mailto:k.sukhia@auckland.ac.nz)

### Auckland Cancer Society Research Centre seminar

Prof Scott M. Welford, PhD, Assistant Professor of Radiation Oncology, Case Western Reserve University: *The macrophage migration inhibitory factors: microenvironmental drivers of tumorigenesis.* 1-2pm, Seminar Rm 501-505, Bldg 501, 85 Park Rd, Grafton. Queries to [e.leung@auckland.ac.nz](mailto:e.leung@auckland.ac.nz)

### Head of Tāmaki Innovation Campus seminar

Assoc Prof Bryony James, Dept of Chemical and Materials Engineering and Research Centre for Surface and Materials Science: *Do play with your food!* 3-4pm, Room 201, Bldg 731, Tāmaki Innovation Campus.

### Philosophy seminar

Martin Davies, University of Oxford: *Cognitive theories of delusion.* 3-5pm, Pat Hanan Rm 501, Arts 2.

### Action

7pm, Musgrove Studio, Maidment Theatre, 8 Alfred St. Also 2 November. A showcase of the choreographic works and performances of both undergraduate and postgraduate Dance Studies Programme students. Tickets: adults \$15, student/child/senior citizen, \$10; Families \$40. Book at the Maidment on 308 2383. Queries to [sarah.knox@auckland.ac.nz](mailto:sarah.knox@auckland.ac.nz)

## SATURDAY 2 NOVEMBER

### Studio 13

10am-3pm, Geyser, 105/100 Parnell Rd, Parnell. Also 3 November. An exhibition of Master of Architecture (Professional) degree students. The show is the culmination of five years of study by 84 students, and a chance for the public to see the architectural design explored by these young, enthusiastic practitioners. Free. Queries to [events-archplan@auckland.ac.nz](mailto:events-archplan@auckland.ac.nz)

### Exhibition event

1pm, Gus Fisher Gallery, 74 Shortland St. Jon Bywater, Elam: *You see them clearly: A mix-tape for Saskia Leek.* A sequence of songs, described rather than played, with an a-side and a b-side, as a way of saying something general at the same time as noting details in the works of Saskia Leek's in *Desk Collection*. Queries to [gusfishergallery@auckland.ac.nz](mailto:gusfishergallery@auckland.ac.nz)

## MONDAY 4 NOVEMBER

### School of Biological Sciences seminar

Dr Wim Soppe: *The control of seed germination by dormancy.* 1-2pm, Mac 1 Seminar Rm, Biology Bldg, 5 Symonds St. Queries to [j.putterill@auckland.ac.nz](mailto:j.putterill@auckland.ac.nz)

## WEDNESDAY 6 NOVEMBER

### Management and International Business seminars

Rm 325, Level 3, Owen G Glenn Bldg, 12 Grafton Rd.  
1) Hee Sun Kim: *Laughing in the workplace: Cross-cultural humour and social processes. A multiple case study in NZ and South Korea.* 10.30-11am.  
2) Torsten Schmidts: *Intergenerational development of social capital and effects on continuity of family businesses.* 11.30am-12noon. Queries to [s.sum@auckland.ac.nz](mailto:s.sum@auckland.ac.nz)

### NZ Asia Institute seminar

Prof Nicholas Tarling: *Status and security in early Southeast Asian state systems and their implications.* 3-4pm, Room 260-325, Level 3, Owen G Glenn Bldg, 12 Grafton Rd. Visit [www.nzai.auckland.ac.nz](http://www.nzai.auckland.ac.nz)

### NZ Centre for Human Rights Law, Policy and Practice public lecture

The Honourable Justice Goddard: *The OPCAT and its preventive role in the elimination or reduction of torture and ill-treatment of detainees.* 6pm, Lecture Theatre 102-G36, OGH. RSVP to [lowevents@auckland.ac.nz](mailto:lowevents@auckland.ac.nz)  
**Auckland Medical Research Foundation public lecture**  
Prof Rob Doughty, Heart Foundation Chair of Heart Health: *Healthy hearts for all New Zealanders.* 7-8pm, Lecture Theatre 505-011, AMRF Auditorium, Bldg 505, 85 Park Rd, Grafton. Queries to [amrf@medicalresearch.org.nz](mailto:amrf@medicalresearch.org.nz)

## THURSDAY 7 NOVEMBER

### Energy Matters 2013 seminar

Peter Bryant, Senior Fellow, Kellogg Innovation Network: *Resource companies: From isolated actor to regional development partner.* 6-8pm, Decima Glenn Rm, Level 3, Owen G Glenn Bldg, 12 Grafton Rd. RSVP to <https://secure.business.auckland.ac.nz/EnergyMattersPeterBryant071113>

## SATURDAY 9 NOVEMBER

### Exhibition event

1pm, Gus Fisher Gallery, 74 Shortland St. Associate Professor Judith Weber Huntsman, author of the AUP book *Tokelau: A Historical Ethnography and The Future of Tokelau: Decolonising Agendas, 1975-2006*, will discuss the demography, linguistic affiliation, socio-political organisation, history and cultural relations of Tokelau in the exhibition where she features as one of the subjects for Marti Friedlander in 1971. Queries to [gusfishergallery@auckland.ac.nz](mailto:gusfishergallery@auckland.ac.nz)

## MONDAY 11 NOVEMBER

### Liggins Institute Inaugural Lecture

Prof Caroline Crowther: *Best evidence, best care for mothers and babies.* 5.30-7pm, Lecture Theatre 505-007, Bldg 505, University Grafton Campus, 85 Park Road, Grafton. Queries to [ligginscommunications@auckland.ac.nz](mailto:ligginscommunications@auckland.ac.nz)

## WEDNESDAY 13 NOVEMBER

### Popular Music Student Performance Concerts

7pm, Studio One, Kenneth Myers Centre, 74 Shortland St. Also 14 November. Popular Music students completing their final-year of undergraduate study at the School of Music perform original works. Featuring Stevii Hill. Free. Queries to [concerts@auckland.ac.nz](mailto:concerts@auckland.ac.nz)

# Classifieds

## ACCOMMODATION AVAILABLE

### Accommodation suitable for visiting academic/postdoc with family.

Lovely fully-furnished family home in Te Atatu Peninsula. Available February 2014 - January 2015. Three bedrooms, one bathroom, gourmet kitchen, heat pump, solar water heating, fully-fenced private section, huge decks, large sunny garden and fruit trees galore. Easy bus/motorway access to city. Rent negotiable. Email [s.lott@auckland.ac.nz](mailto:s.lott@auckland.ac.nz)

**Apartments for rent.** Call us for your rental requirements; we offer city apartments furnished/unfurnished, all sizes and prices; great rental deals for long-term leases; call David Feng (09) 303 0601 or (021) 246 6710 at City Sales or rentals@citysales.co.nz or log on to [www.citysales.co.nz/rentals](http://www.citysales.co.nz/rentals)

**Large, furnished, executive home Waiheke Island,** above beautiful beach. Stunning sea views. Available 1 July 2014 to 31 October 2014. Close to village, ferry and all amenities. Primary schools and excellent high school. 35 minute ferry ride to Downtown Auckland, walk to University. \$NZ 700 pw. Email [b.barton@auckland.ac.nz](mailto:b.barton@auckland.ac.nz)

**Two bedroom fully furnished townhouse** with linen and kitchen equipment, ideal for visitors without furniture. Carport, sunny terrace and two small courtyards. Would suit professional couple with baby and/or young child. Safe neighbourhood. Available until 26 December 2013. \$490 pw. Contact E. Jenner at [solopacustj@yahoo.co.nz](mailto:solopacustj@yahoo.co.nz) or (021) 0246 7152. See also [www.sabbaticalhomes.com/Home\\_Rent\\_House\\_Rental\\_Auckland\\_New\\_Zealand\\_48270.htm](http://www.sabbaticalhomes.com/Home_Rent_House_Rental_Auckland_New_Zealand_48270.htm)

**Wanted, independent flatmate,** preferably female, to share with two other females in sunny modern house. Room is fully-furnished with queen-sized bed, book shelves and built-in wardrobe. In Royal Oak area, close to two bus routes. \$150 pw + expenses. Please contact Gemma on (027) 505 2443 to arrange to view.

## MISCELLANEOUS

**City Legal Services.** Rainey Collins Wright is a small law firm centrally located at L1 Princes Court, 2 Princes Street. We are near the University, with good parking. We can assist with property transactions, trusts, wills, administration of estates, enduring powers of attorney and relationship property matters. Please phone our senior solicitor Nichola Christie on 379 5828 to discuss your needs, or email [nchristie@rainey.co.nz](mailto:nchristie@rainey.co.nz) Visit [www.rainey.co.nz](http://www.rainey.co.nz)

**Travel.** I have 12 years experience in booking all aspects of personal travel for university staff and lecturers. I pride myself in ensuring that your travel plans are sourced at the lowest possible costs and are tailor-made to your requirements. Contact Karen on [Karen.embleton@mondotravel.co.nz](mailto:Karen.embleton@mondotravel.co.nz) or 940 0064 (wk) or (021) 188 7781.



# BIG DATA FOR PERSONALISED HEALTHCARE

A drastic transformation in healthcare delivery could be heralded by the emergence of a new form of treatment, tailored to meet the unique needs, conditions, history and environment of each patient.

Such personalised medicine, empowered by new technologies that enable instant and intelligent analysis of vast quantities of data – so-called big data, has the potential to create a more effective and efficient healthcare system.

Being able to make decisions based on intelligence gathered from analysing vast sets of data to identify matches in respect to patients and their presentations, may enable medical practitioners and clinicians to provide more specific and more personal healthcare to individual patients. We believe the impact of this so-called big data could be hugely significant.

New Zealand, along with other developed countries, is facing a sustainability issue in healthcare as demand and costs are rising, but our ability to deal with that rising demand and invest more into healthcare system is limited.

We need to find new ways. Providing the best treatment, based on the analysis of vast quantities of data beyond the scope of any individual clinician, offers an opportunity for healthcare systems to engage with patients more effectively and to provide more effective and efficient service to patients.

New Zealand has the opportunity to lead the debate on the role of big data in healthcare since it started collecting information on interactions in the healthcare system from the early-1990s.

We have massive sets of tremendously valuable data collected over the past 20 years on the way patients interact with the healthcare system, as well as on what diagnoses and treatments have been in that time, and what their impacts have been.

To generate a discussion about how this data can be applied to improve delivery of healthcare, the University's National Institute for Health Innovation (NIHI) is holding a symposium on Big Data in Healthcare at the Auckland War Memorial Museum on Thursday 31 October.

What we're seeking to do with this symposium is to engage with a wider audience to start to understand how these so-called big data technologies and the new approaches they enable can be applied in the health system.

There are real concerns about the ability of organisations and individuals to trawl very large quantities of health data and the symposium will address the potential pitfalls and concerns about the possible misuse of data, with New Zealand Privacy Commissioner Marie Shroff among the speakers.

"We believe the dialogue on this issue will grow and more people will come to understand the importance that these approaches have. Our goal is for this symposium to kick-off this conversation in New Zealand."

The symposium will involve a broad range of groups including practitioners, district health boards, policy makers, technologists and consumers. These include Rod Oram, business and innovation commentator and journalist; Dr Shahram Ebadollahi, director of IBM's Health Informatics Research in the US; Professor Tony Blakely of the Department of Public Health at the University of Otago, Wellington; Graeme Osborne, Director of the National Health IT Board; and Dr Brett Cowan, Clinical Director of the Centre for Advanced Magnetic Resonance Imaging (CAMRI).

**Malcolm Pollock, director of business development for the NIHI.**

For more information:  
[www.nihi.auckland.ac.nz/bigdata](http://www.nihi.auckland.ac.nz/bigdata)