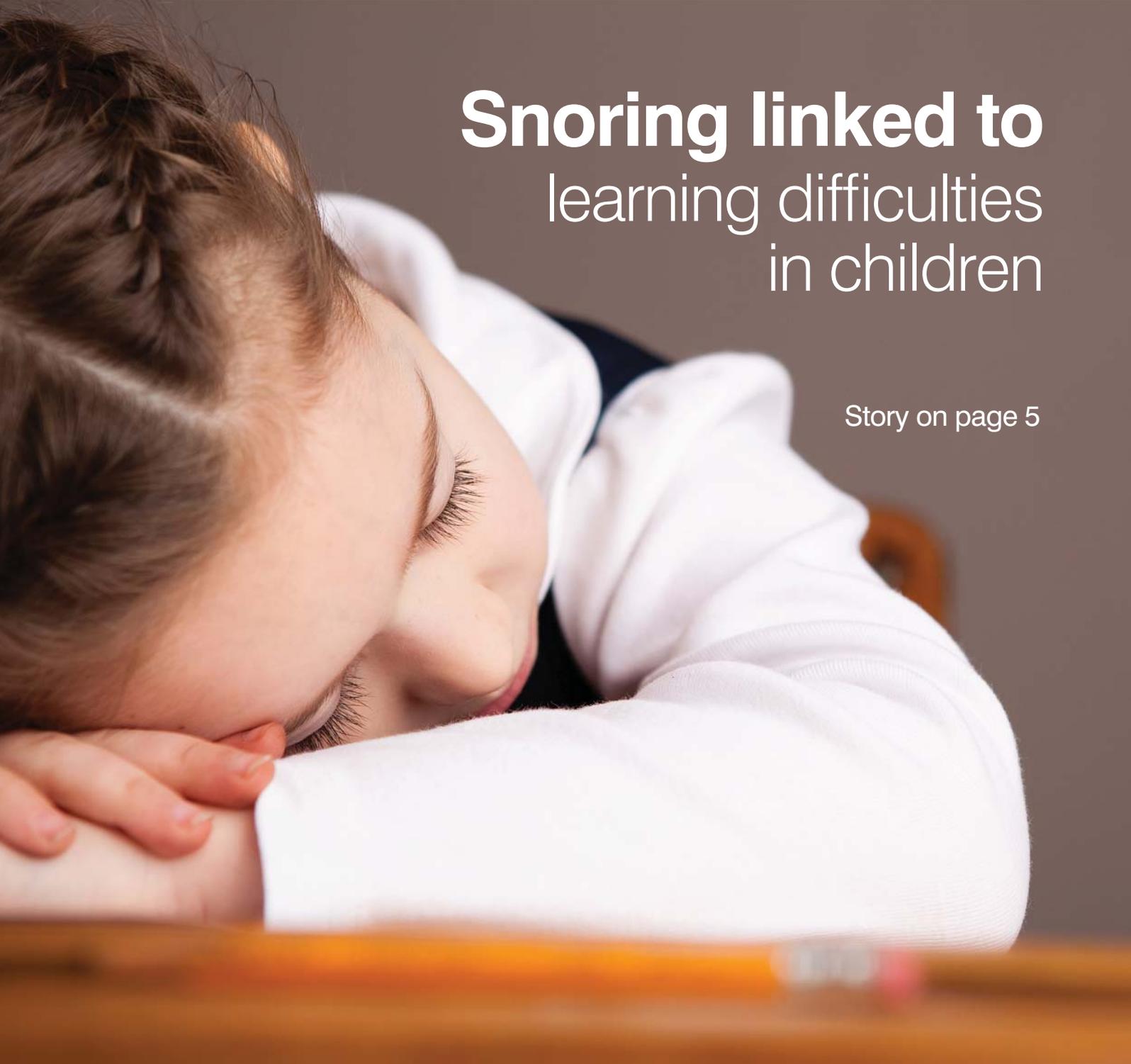


Adelaidean

NEWS FROM THE UNIVERSITY OF ADELAIDE

July 2010 | Volume 19 | Number 5 | Free Publication



Snoring linked to learning difficulties in children

Story on page 5

Making an impact

Universities should be measured by their contribution to society.

Equally, the programs they offer should be measured by student demand and community need.

Designing an undergraduate curriculum that is relevant to the community it serves and is based on meaningful career opportunities is critical.

The University of Adelaide's undergraduate structure offers the diversity that students want with the flexibility that they need to get the most from their studies.

Today's students are making choices earlier, about higher education and future career opportunities. We see this across each of our faculties at the University of Adelaide. In Sciences, we have a number of specialised programs – everything from space science and astrophysics to marine biology, all under the umbrella of a Bachelor of Science degree. Undergraduate students are spoiled for choice and are encouraged to pursue a study program that feeds their aspirations and challenges them intellectually.

Our experience is that they don't want to waste any time. They are hungry to learn and specialisation is appealing from the outset.

There has been a lot of discussion in recent times regarding different approaches to undergraduate study. For a research intensive University such as ours, with ready access to internationally recognised academic staff, students benefit enormously from the integration of teaching and research.

This supports the variety of undergraduate programs on offer and provides a clear progression to postgraduate courses.

In contrast, the Melbourne Model, like the American college system, gives students a foundation-style learning experience. This style of education delivery may be of particular benefit to students who are yet to decide what career pathway they should take.

Regardless of the model, we need to offer our students opportunities to move forward with a genuine sense of intent. We don't want them to step backwards.

Many of our undergraduate degrees already share common areas of study. There is plenty of room for exploration with flexible study loads in each course area. Students can change direction mid-degree, confident that their foundation skills are being firmly instilled along the way.

The value and impact of our curriculum is an area that we take very seriously. We review our undergraduate courses constantly as part of our commitment to staying relevant to both students and employers.

As always, the proof is in the results – the number of students we attract at the start of their university study and, more importantly, their employability and contribution to society following graduation. Each year, we are increasing our student enrolment by around 1000 or the equivalent intake of an average high school. Strategic student growth is keeping the University strong and vibrant and is well supported by a focussed curriculum that prepares our students for great achievement.



JAMES A. McWha
Vice-Chancellor and President

Adelaidean

Adelaidean is the official newspaper of the University of Adelaide. It provides news and information about the University to the general public, with a focus on Life Impact.

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iPad comes to the classroom



Just days after being released in Australia, Apple's new touchscreen device, the iPad, was being used at the University of Adelaide to boost student interaction in lectures.

Computer Science lecturer Dr Nick Falkner is using the iPad with a specially written application, developed in Adelaide, to almost instantly measure and graphically display student responses.

Dr Falkner said the new technology would improve student learning by helping bring lectures to life and raising participation and attention.

"This iPad application lets us quickly find out what students are thinking and display their answers back to them almost immediately within the lecture," he said.

"When students see that their opinions and participation matter, they get more involved and they stay involved for longer."

The application has been developed by software developer TwoLivesLeft, a local company formed by three University of Adelaide Computer Science (Honours) graduates, Simeon Nasilowski, Dylan Sale and John Millard.

"As well as their enthusiasm and the skills they acquired during their studies, these three have benefited from the University's membership of the Apple University Consortium, which provides scholarships and assistance with training and networking opportunities," Dr Falkner said.

Dr Falkner said using the iPad in the lecture theatre for presentations and student feedback was just the first step. iPads would also be used to make relevant podcasts available to students.

"Higher education today is increasingly a blend of traditional lectures and making use of online and other digital technology. The next step will be to use iPad in lectures, with a growing body of podcast material available for Computer Science students to support lectures."

Other recent technology being adapted for teaching purposes includes the iPod. Dr Katrina Falkner, also from the School of Computer Science and Associate Dean (Learning and Teaching) in the Faculty of Engineering, Computer and Mathematical Sciences, is leading a project to use iPods to speed up the process for assessment of students' programming skills.

Staff can assess student work with the results instantly recorded, reducing errors and enabling students to get rapid feedback on their progress.

Story by Robyn Mills

Above: Computer Science lecturer Dr Nick Falkner and students with one of the iPads

Photo by Andrea Laube, courtesy of *The Advertiser*

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Glimpse into the future of energy



Two new public seminar series starting this month will offer insight into how developments in clean, cost-effective energy technology will shape our future.

Run by the University of Adelaide's Centre for Energy Technology, the free public seminars will focus on different aspects of energy.

Thinking Critically About Sustainable Energy – organised in conjunction with the Royal Institution of Australia – is a six-part seminar series that will bring together top energy experts to provide information and tools for the public to be able to critically assess future energy sources.

Public participation in this series is strongly encouraged, with time for questions from the audience.

The first seminar in the series, on the future of fossil fuels, will be held on Wednesday 7 July.

The other public seminar series, *Energy Futures* – organised in conjunction with the University's School of Earth and Environmental Sciences – is a 12-part series that will look at a range of clean energy technology options for the future.

The first of these seminars, on climate change, will be held on Wednesday 28 July.

"Our two new seminar series will give the public the opportunity to learn about

the wide variety of new clean energy technology options, including those being developed at the University of Adelaide," said the Director of the Centre for Energy Technology, Professor Gus Nathan.

"Research into clean and efficient energy technologies is needed to deliver a clean energy future that addresses climate change and reduces the cost of energy.

"Both seminar series will feature members of the Centre who are internationally recognised for their research in such fields as the combustion of fossil fuels, bio-fuels, solar, geothermal, wind and wave energy, and energy efficiency. The seminars will also feature speakers from leading companies and organisations in the energy field.

"These public seminars aim to help the community to critically assess how each of these developments in energy technology may address our future energy needs," Professor Nathan said.

The Centre for Energy Technology is part of the Environment Institute and the Institute for Mineral and Energy Resources at the University of Adelaide.

Thinking Critically About Sustainable Energy

When: 6.00pm-7.30pm 7 July-3 November

Where: The Science Exchange, Exchange Place, Adelaide

Cost: free – all welcome.
Registration required at:
www.riaus.org.au

Energy Futures

When: 5.00pm-7.00pm each Wednesday from 28 July-15 September and 6-27 October

Where: Horace Lamb Lecture Theatre, North Terrace Campus, University of Adelaide

Cost: free – all welcome. No registration necessary for this series.

For more information about either series please email: environment@adelaide.edu.au or visit: www.adelaide.edu.au/environment/cet



Snoring linked to learning difficulties in children

University of Adelaide researchers have shown that children who snore frequently have a lower IQ and experience problems with memory loss, language development and general knowledge.

The sleep disorders team at the University's Children's Research Centre has found that even the mildest forms of sleep breathing disorders can cause learning problems in children.

Dr Declan Kennedy and his colleagues have spent the past seven years evaluating treatment outcomes for a large cohort of children aged between three and 12 years who have sleep breathing disorders.

"Our data to date has shown that removing tonsils and adenoids clearly improves sleep and breathing problems, but is not associated with an improvement in general intelligence," he said.

Although 5-10% of children are believed to suffer from sleep breathing problems, less than one in 10 of these children in Australia have their adenoids and tonsils removed.

Sleep breathing disorders range from frequent snoring to sleep apnoea, and are linked to the structure of the child's airways as well as respiratory muscle control. Obesity also increases the risk among older children.

A regular sleep routine and an appropriate amount of sleep dependent on age are important for optimal brain function, researchers said.

"The future focus of our research is on sleep disordered breathing in younger children," Dr Kennedy said. "In particular, we are hoping to determine how common this condition is among children aged 1-4, and if treatment at an earlier age leads to better daytime functioning."

The research is a collaborative effort between the Children's Research Centre at the University of Adelaide and the Women's and Children's Hospital, and has been funded by the National Health and Medical Research Council.

Story by Candy Gibson

Above: Eight-year-old Bethany undergoes an overnight study for sleep apnoea at the Sleep Disorders Unit at the Women's and Children's Hospital

Photo courtesy of the Children's Research Centre

News In Brief



First media scholarship to Adelaide student

South Australian-based publishing company Solstice Media has established the state's first media scholarship with the University of Adelaide.

The Solstice Media Scholarship for Publishing was created this year and awarded to first-year Media Studies student William McRostie through open competition.

Solstice Media is a local media company, publishing digital and print media including *The Independent Weekly* newspaper and *Indaily* digital news.

The \$7500 scholarship was created to benefit students who are undertaking the Bachelor of Media program at the University of Adelaide.

The winner, William, is pictured above (centre) with Paul Hamra, publisher of *The Independent Weekly* and *Indaily*, and Associate Professor Mary Griffiths, Head of Media at the University of Adelaide.

Mr Hamra said the decision to support the scholarship was easy because it goes to the heart of what his company is doing in South Australia – helping to build the local media industry.

"Also, universities are now recognising that new skill sets are required in the media and our company supports any move to improve education in our sector," he said.

Associate Professor Griffiths said: "Students appreciate the University's connections with the sector. It's a privilege for us to partner with such an innovative publishing company."

Photo by Kate Elmes.

2010 Young Investigator Award

The call for applications for the 2010 Young Investigator Award (YIA) is now open.

Now in its 11th year, this Award recognises excellence in South Australia's young researchers in women's and children's health.

The winner receives a \$10,000 prize and the two runners-up receive \$3000.

If you are currently undertaking a higher research degree, or have recently completed one within three years, you are eligible to apply if your research is related to women's and children's health.

For more information, including the eligibility criteria and application information, go to the YIA website: www.cywhs.sa.gov.au/yia

Further queries can be directed to Dr Andrea Averis, Chairperson of the YIA Committee: andrea.averis@health.sa.gov.au

The closing date for applications is Monday 12 July.

Tiny insect brains capable of huge feats

Insects may have tiny brains the size of a pinhead, but the latest research from the University of Adelaide shows just how clever they really are.



For the first time, researchers from the University's Discipline of Physiology have worked out how insects judge the speed of moving objects.

It appears that insect brain cells have additional mechanisms that can calculate how to make a controlled landing on a flower or reach a food source. This ability only works in a natural setting.

In a paper published recently in the international journal *Current Biology*, lead author David O'Carroll said insects have brain cells dedicated to analysing visual motion, which are very similar to humans.

"It was previously not understood how a tiny insect brain could use multiple brain pathways to judge motion," Associate Professor O'Carroll said.

"We have known for many years that they can estimate the direction of moving

objects but until now we have not known how they judge speed like other animals, including humans.

"It appears they take into account different light patterns in nature, such as a foggy morning or a sunny day, and their brain cells adapt accordingly.

"This mechanism in their brain enables them to distinguish moving objects in a wide variety of natural settings. It also highlights the fact that single neurons can exhibit extremely complex behaviour."

Associate Professor O'Carroll co-authored the paper with Paul Barnett, a Physiology PhD student at the University of Adelaide, and Dr Karin Nördstrom, a former Physiology Postdoctoral Fellow at Adelaide who is now based at Uppsala University in Sweden.

Their specific research is focused on how

the brain makes sense of the world viewed by the eye, using the insect visual system as an important model.

"Insects are ideal for our research because their visual system accounts for as much as 30% of their mass, far more than most other animals," Associate Professor O'Carroll said.

His team is collaborating with industry to develop artificial eyes in robots, mimicking human and insect vision.

Story by Candy Gibson

Above: A male hoverfly, *Eristalis*, attempting to woo a female (feeding from the flower) with his impressively controlled hovering flight. The flies use visual motion to stabilise and control their flight and to maintain their distance from nearby objects.

Photo by Doekele Stavenga



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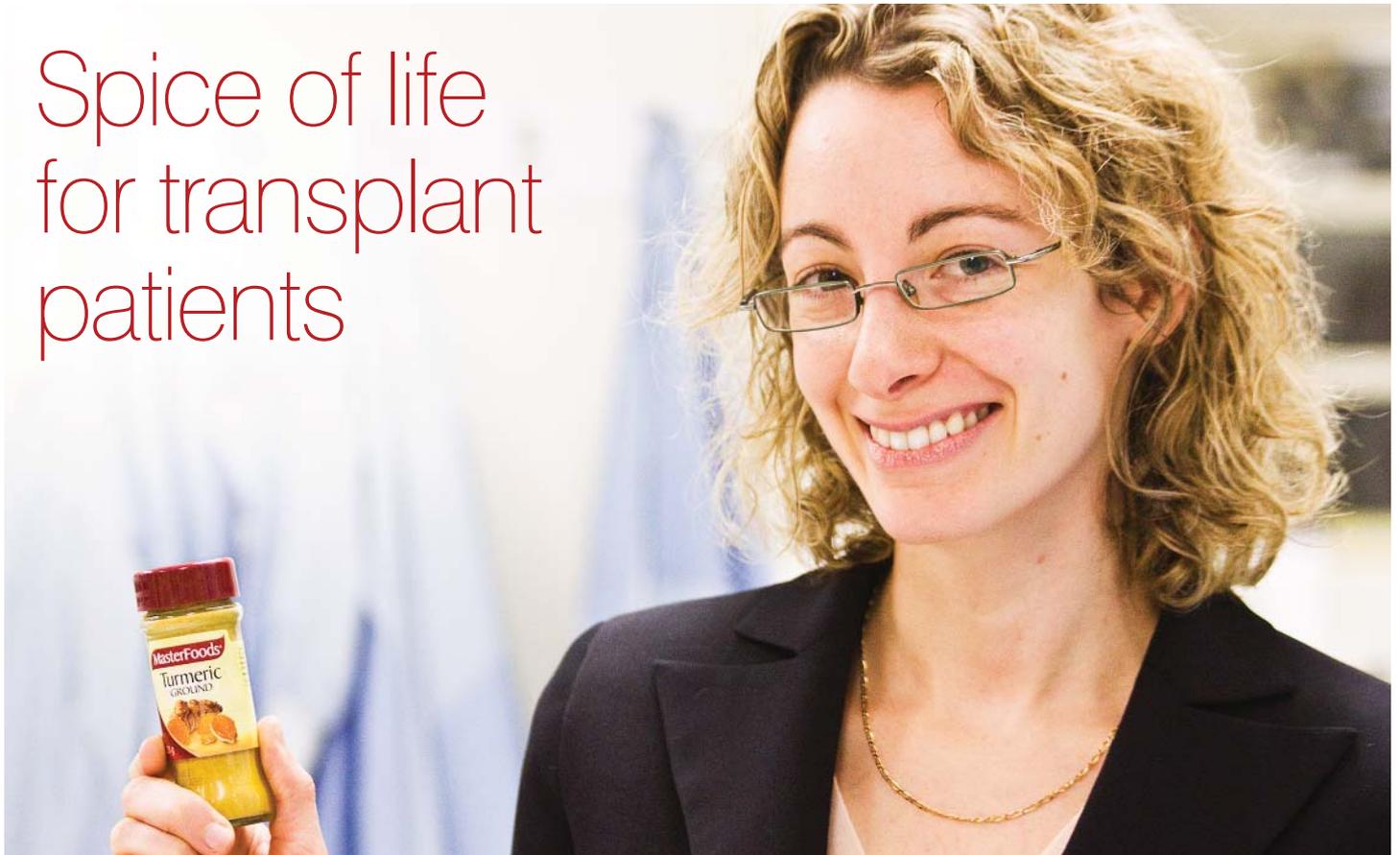
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Spice of life for transplant patients



A University of Adelaide PhD student working to improve organ transplant success rates has been named the best young medical researcher in South Australia.

Dr Natasha Rogers has won the prestigious Ross Wishart Memorial Award, presented by the South Australian branch of the Australian Society for Medical Research.

The transplantation immunology researcher and her Queen Elizabeth Hospital colleagues are trialling an extract from the spice turmeric to counter damage caused by organ rejection.

The turmeric extract, called curcumin, has both anti-oxidant and anti-inflammatory properties which limit the damage caused by an interruption to blood flow.

"The current problem with transplants is that when an organ, such as the kidney, is taken from an organ donor, the blood flow is stopped," Dr Rogers said.

"Once transplanted into a patient, blood starts flowing through it again and this blood flow can cause further damage."

This is called ischaemia-reperfusion injury, where the sudden return of blood flow, and the immune cells and oxygen that come with it, actually damage the newly transplanted organ.

"This is a significant problem in transplantation and affects the function of a transplant so that people might have more complications, such as rejection," Dr Rogers said.

However, curcumin is not well absorbed by the body when swallowed and Dr

Rogers is establishing a new technique to deliver curcumin throughout the body, using microscopic fat particles called liposomes.

They found that curcumin contained within liposomes was taken up by immune cells in the body, successfully limiting the damage caused by an interruption to blood flow.

"We certainly hope that it could be used in humans in the future, but not just for transplantation. Curcumin could potentially be applied to treat other causes of ischaemia-reperfusion injury, such as heart attacks and strokes," Dr Rogers said.

"Curcumin in this form is a safe treatment with no known side effects."

The next step will be trialling the curcumin liposomes in a mouse model of transplantation to see if it can reduce transplant organ rejection and improve transplant survival.

Dr Rogers is completing her PhD in transplantation immunology under the supervision of Dr Toby Coates from the Centre for Stem Cell Research at the University of Adelaide.

The three other finalists for the Ross Wishart Award were also either PhD students or have an undergraduate degree from the University of Adelaide.

They include surgeon Dr Rowan Valentine, who is working with his colleagues in the University's Discipline of Surgery to develop a new gel that treats the two most common

complications of surgery – bleeding and scarring.

The low-cost gel, made from crab shell extracts known as chitosan, has wound healing properties and has already been successfully trialled on people who have undergone nasal surgery for sinus problems.

"Benefits of the gel include its low cost and the fact that it dissolves away in the body and does not have to be removed," Dr Valentine said.

The gel is in early trials in patients following abdominal surgery at the Queen Elizabeth Hospital.

Dr Valentine is doing his PhD in haemostasis and wound healing following sinus surgery.

University of Adelaide Physiology PhD student Kimberley Botting is researching the link between underweight babies and an increased risk of cardiovascular disease in adulthood.

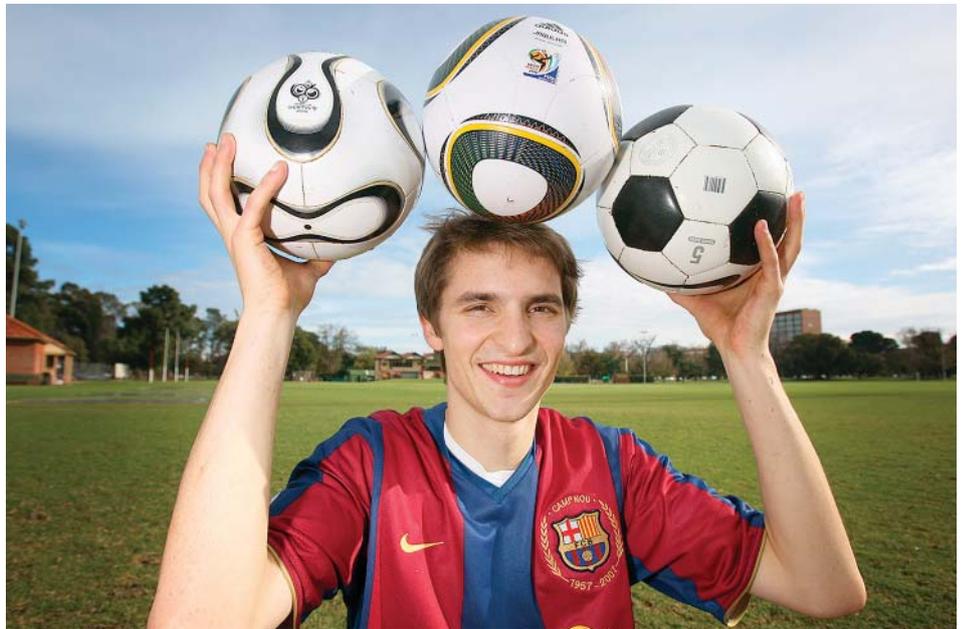
The fourth finalist, Zhi Yi Ong, who has a Bachelor of Science (Honours) degree from the University of Adelaide, is looking at how junk food causes behavioural and chemical changes in the brain, similar to a drug addict.

Above: Dr Natasha Rogers, winner of the 2010 Ross Wishart Memorial Award

Photo by Candy Gibson

World Cup ball proves unpredictable

Physics experts at the University of Adelaide have weighed into the debate about the controversial new soccer ball being used in the 2010 World Cup.



Called the *Jabulani*, the ball generated a lot of negative attention from players – especially goalkeepers – in the lead-up to the start of the World Cup.

Professor Derek Leinweber, Head of the School of Chemistry & Physics at the University of Adelaide, said the aerodynamics of the ball meant that it would play “harder and faster”, bending more unpredictably than its predecessor.

Professor Leinweber has previously written about and lectured on the aerodynamics of cricket balls, golf balls and the 2006 World Cup soccer ball, the *Teamgeist*.

Along with student Adrian Kiratidis, who is studying for his Master of Philosophy (MPhil) in Physics, Professor Leinweber has been investigating the physics behind soccer balls and what that means for the *Jabulani*. Adrian is also a soccer enthusiast.

“The *Jabulani* is textured with small ridges and ‘aero grooves’ and represents a radical

departure from the ultra-smooth *Teamgeist* ball, which was used in the last World Cup,” said Professor Leinweber.

“While the governing body FIFA has strict regulations on the size and weight of the balls, they have no regulations about the outside surface of the balls.

“The *Teamgeist* was a big departure at the last World Cup. Because it was very smooth – much smoother than a regular soccer ball – it had a tendency to bend more than the conventional ball and drop more suddenly at the end of its trajectory.

“By comparison, the aerodynamic ridges on the *Jabulani* can create enough turbulence around the ball to sustain its flight longer, and be a faster, harder ball in play.”

Professor Leinweber said the *Jabulani* would ‘bend’ more for the players than any ball previously encountered.

“Players are also discovering new opportunities to move the ball in erratic ways, alarming the world’s best goalkeepers. By

the time the ball reaches the goalkeeper, the *Jabulani* will have swerved and dipped, arriving with more power and energy than the *Teamgeist*.”

University of Adelaide students have also put the new World Cup soccer ball to the test on the soccer field. Based on Professor Leinweber’s theories, they have attempted to “bend” the *Jabulani* and have also kicked the *Teamgeist* and a regular soccer ball for comparison.

“The ease with which the spinning *Jabulani* bends is opening up new scoring opportunities. Already, bends around the goalkeeper and dips under the crossbar have figured prominently in the World Cup, with many goals scored from surprising places,” Professor Leinweber said.

Story by David Ellis

Above: Physics Masters student Adrian Kiratidis with three different soccer balls – the *Teamgeist*, the *Jabulani* and a regular soccer ball

Photo by Matt Carty, courtesy of *The Advertiser*



Celebrating
75
Years

1936 – 2011

THE UNIVERSITY OF ADELAIDE

Soccer Club 75th Anniversary Gala Dinner

In 2011 the Adelaide University Soccer Club (AUSC) marks its 75th Anniversary and as part of the festivities will hold a Gala Dinner on the 75th Anniversary day of its acceptance as a club by the Adelaide University Sports Association.

All past players and supporters are invited to the event to be held on Saturday the 26th of March 2011 at the Adelaide Entertainment Centre. Ticket price is \$90 per head with a three course meal, all drinks and entertainment included.

Guest Speakers include Sir Eric Neal (AUSC Patron), Ron Roberts, Dr William Hill and Moya Dodd (FFA Board Member, Vice Captain Matildas 1986-1995) with entertainment on the night and the opportunity to catch up with old team mates.

In the past we ran teams in the South Australian Soccer Federation in the Metro and Division 3 and 4 Leagues, with the following names, AGUA (Adelaide Greek University Association), Grads Blue, Grads Grey, Grads Red, Graduates, Italian Students, Uni Aqua, Uni Black, Uni Blue, Uni Dodgers, Uni Demons, Uni Gray, Uni Green, Uni White, Uni Wanderers, Uni Barnesworth, Uni Red and Unison. As well as Women teams Dinamo-Uni in the South Australian Women’s Soccer Association.

For more information or to donate photos and/or memorabilia to the event, email: info@ausclubblacks.com or call: Kevin Holohan AUSC Vice-President on 0425 238 477



SEVENHILL
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Sharjah's first dental graduates

A \$5 million University of Adelaide project to deliver an online dental curriculum to the United Arab Emirates has culminated in a spectacular graduation ceremony for the first cohort of students.

Forty-two students from the University of Sharjah graduated with a Bachelor of Dental Surgery on May 29 after completing the Adelaide curriculum, which has been licensed to Sharjah's new College of Dentistry.

The highly successful project is the first of its kind for the University of Adelaide, involving the provision of a comprehensive five-year, online dental curriculum, intellectual property and associated expertise.

Vice-Chancellor and President Professor James McWha, along with key project staff from the University's Dental School, travelled to Sharjah for the graduation ceremony.

The graduation ceremony was hosted by the Ruler of Sharjah and Supreme President of the University of Sharjah, His Highness Sheikh Dr Sultan Bin Mohammed Al Qassimi.

Along with Emirati royalty and university staff from both Adelaide and Sharjah, distinguished guests from the UAE, Australia, the United Kingdom, France, Germany, Canada and Japan also participated.

"The event was significant for a number of reasons," Professor McWha said.

"It illustrates an emerging trend in higher education – the development of electronic interactive curricula for international markets and the commercialisation of intellectual property.

"It also reflects the outstanding reputation that our Dental School enjoys around the world. We have a long history of educating and producing first-class dental graduates and this was recognised in Sharjah's international search for a partner to provide its dental curriculum."

Since 2005, the University has provided a range of support and material to Sharjah's new Dental College, including: the online curriculum, teaching expertise and resources, the development of academic policies, documentation for accreditation, assistance with recruitment of senior staff, the development of facilities and other ongoing advice.

The project has been managed through daily electronic communication and regular visits to Sharjah by Adelaide staff, according to Professor Viv Burgess, the project director for the collaboration.

"In doing so, we have created an international standard Dental College to meet the training, research and oral health care needs of the United Arab Emirates," Professor Burgess said.

"This approach demonstrates how institutions can fund and sustain the introduction of cutting edge research and learning formats that would otherwise be out of financial reach. It has knock-on benefits in freeing up staff from heavy teaching loads and recapturing time for research."



The success of the project has resulted in the American Dental Education Association citing the Sharjah-Adelaide collaboration as "an important example of the globalisation of dental education".

The project team has also been cited in a leading international publication (*Dental Products Report Europe*) as "pioneers in the development of online education".

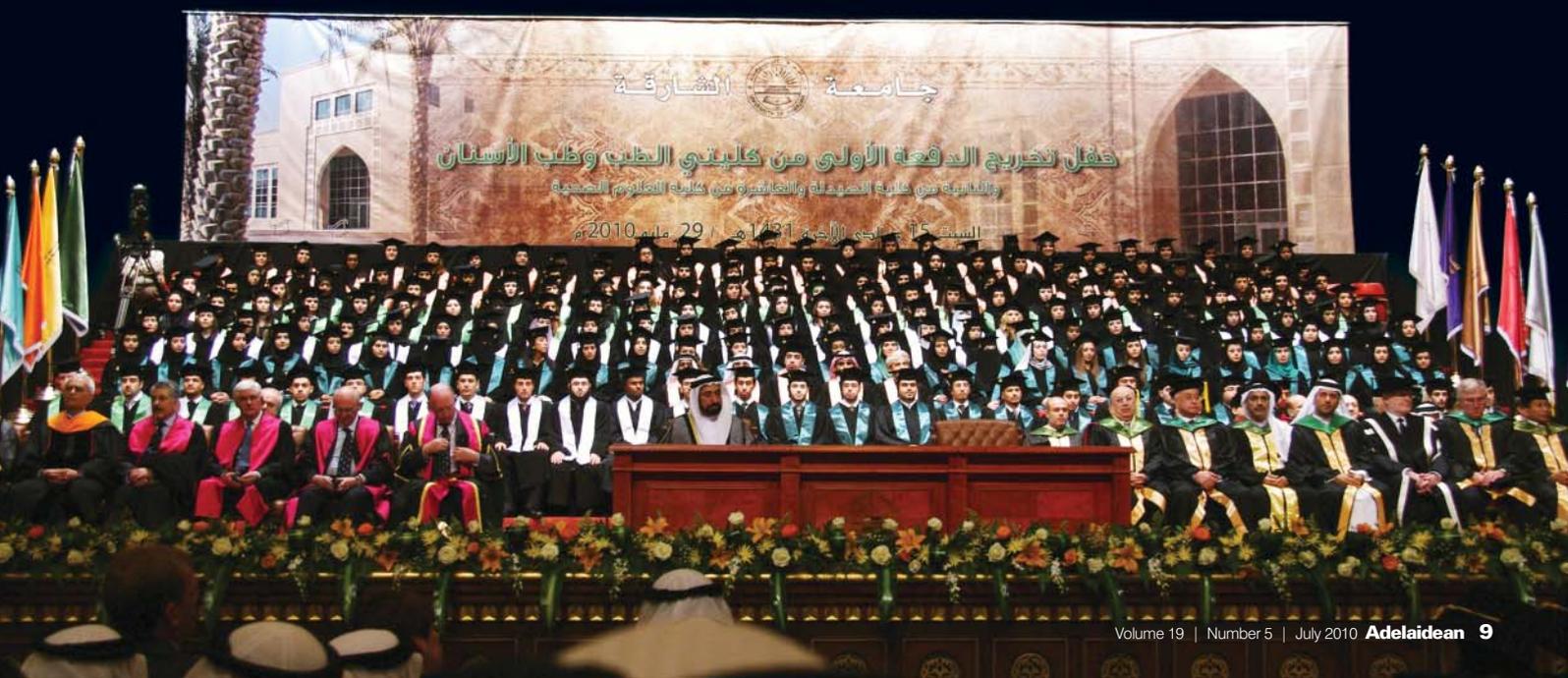
The University is now working with other dental schools in the Middle East, Asia and the UK on requests for similar collaborations. There is also the scope to adopt the same approach to other health sciences curricula – including nursing, medicine and psychology – and develop online curriculum for international universities.

Story by Candy Gibson

Above: His Highness Sheikh Dr Sultan Bin Mohammed Al Qassimi accepts a gift from the Vice-Chancellor and President, Professor James McWha

Below: The spectacular graduation ceremony at the University of Sharjah's City Hall

Photos by Dr Christine Swann



Feast of fine music at lunchtime

Lunchtimes at ELDERHALL returns on 30 July with one of Beethoven's most successful and popular works, *Septet for Winds and Strings*.

The seven-member Ensemble le Monde – made up of musicians from the Adelaide Symphony Orchestra – opens the second semester of lunchtime concerts.

"This season promises a range of international guest artists as well as distinguished alumni making their mark in the world of music," said Elder Hall Manager Claire Oremland.

Performances by successful Elder Conservatorium graduates this semester include:

- Sally Dean, principal oboist with the London Metropolitan Orchestra in Portugal;
- Pianist Michael Ierace, visiting from London;
- Luke Dollman, special guest conductor for the Elder Conservatorium Symphony Orchestra's Performance of Beethoven's *5th Symphony*;
- Alexander Tsiboulski, Australia's latest guitar sensation, who will be joined by Jacob Cordover for a stunning duo concert.



The Dutch-based early music ensemble, Satyrs Band, promise something special for their October concert when they perform music from the 16th and 17th Century, using original instruments such as the shawm and dulcian.

Other highlights include the renowned Australian String Quartet performing Schubert and the return of the Adelaide Chamber Players in November, directed by ASO Concertmaster Natsuko Yoshimoto, performing Mendelssohn's *Octet*.

Jazz, choral, vocal and chamber music concerts will all be featured throughout the second season, which finishes on 12 November with the Beta Sigma Phi Awards concert, when Elder Conservatorium graduates vie for \$2400 in prizes.

Lunchtimes at ELDERHALL

When: 1.10pm every Friday from 31 July to 12 November

Where: Elder Hall, North Terrace Campus, University of Adelaide

Tickets: \$7, available at the door from 12.30pm on the day of the concert. Special subscription passes are also available.

For a free brochure and further details contact: +61 8 8303 5925. For a full program, visit: www.elderhall.adelaide.edu.au

Story by Candy Gibson

Above (from left): Classical guitarists Aleksandr Tsiboulski and Jacob Cordover will perform as part of the Lunchtimes at ELDERHALL concert series

Art & Heritage Collections

Mirna Heruc
Manager, Art & Heritage Collections

Right: Bronze sculpture of Sir Walter Watson Hughes in front of the Mitchell Building. Sculpture by Francis John Williamson (1833-1920)



One hundred and fifty years ago, the discovery of copper on the Yorke Peninsula accelerated the mining boom and increased the

wealth of the University of Adelaide's first benefactor, Sir Walter Watson Hughes (see story on page 11).

Today, Sir Walter Watson Hughes's contribution is marked by the Hughes Building, the Hughes Plaza and two sculptures of Hughes – a marble bust in the Bonython Hall foyer and, most notably, a classical bronze sculpture in front of the Mitchell Building by Francis John Williamson (1833-1920). Williamson received commissions throughout of the British Empire and he is best known for

his sculptures of Queen Victoria; he was her favourite sculptor.

Our sculpture of Hughes was donated to the University by the descendants of Sir Walter Watson Hughes in 1906 who felt that he should be commemorated on the grounds of the University. Descendants of Sir Walter attended the re-enactment of the statue's unveiling in 2006, and last month attended the re-enactment of the lodgement of Hughes's copper mining claim – a significant event in the history of our University.

Epic ride celebrates key event in uni's history

Twenty-five horse riders have paraded up North Terrace to the University of Adelaide in a symbolic re-enactment of the epic ride from Moonta to Adelaide which helped establish both Yorke Peninsula's copper industry and the University.

As part of the Copper Coast's 150th anniversary celebrations, the riders followed in the path of William Horn who rode through the night – covering 264kms in 22 hours – to register a copper claim ahead of rivals on behalf of Sir Walter Watson Hughes, the University's founding benefactor.

The riders from Yorke Peninsula's Central Zone Pony Club set out from Moonta and rode in stages over the long weekend in June, riding past the statue of Sir Walter Watson Hughes in front of the University's Mitchell Building and finishing at Bonython Hall.

At Bonython Hall, a formal framed greeting in recognition of the event was presented by Copper Coast Mayor Paul Thomas to Lord Mayor of Adelaide Michael Harbison and Professor Peter Dowd, Executive Dean of the University's Faculty of Engineering, Computer and Mathematical Sciences.

Presentations to the riders were followed by a morning tea featuring Cornish pasties from the renowned Prices Bakery and a display in the foyer of Bonython Hall of copper ore specimens from the area, including specimens on loan from the South Australian Museum.

William Horn went on to become a mining magnate, pastoralist and politician.

Sir Walter Watson Hughes became the largest shareholder in the Wallaroo and Moonta Mining and Smelting Company. His gift of £20,000 in 1872 led to the foundation of the University of Adelaide in 1874, giving South Australia the nation's third university.

Story by Robyn Mills

Below (from left): Lord Mayor of Adelaide Michael Harbison with two of the riders who made the 264km trek, Renee Smith, 12, and Charlie Penna, 8, both from Moonta, with their ponies Wattle Brae Princess (who is almost 25 years old) and Rudi

Photo by Candy Gibson



Celebrating past and future of sport

One hundred years ago, the Governor of South Australia opened the University's first sporting grounds and facilities.

The University Oval, the pavilion (known today as the grandstand) and boat shed are icons of the past century of sporting achievement, with many of the University's greatest sportsmen and women having used these facilities.

"Sport is an important part of campus life at the University," said Mike Daws, Executive Officer of the Adelaide University Sports Association.

"While the University has acquired other sporting grounds and facilities over the years, these original facilities continue to play a major role in the physical health of students, staff and graduates, and in creating a sense of collegiality," he said.

The University Oval, the pavilion and boat shed were officially opened on 11 July 1910 by the then Governor, Sir Day Bosanquet.

The opening was followed by a game of lacrosse on the Uni Oval between teams from the universities of Adelaide and Melbourne.

Thirteen benefactors, including some of the great names in the University's history, donated £100 each to pay for the new pavilion, while a generous contribution of £750 from Mr Robert Barr Smith led to the construction of the boat shed. The Adelaide City Council leases the grounds to the University.

The University Oval now features state-of-the-art watering systems aimed at reducing water use, while the pavilion has undergone a major \$750,000 renovation over the past year.

"As with the original facilities, the renovation of the grandstand has been made possible thanks to many individual benefactors, as well as significant funding from the University," Mr Daws said.

The boat shed is also undergoing renovation.

The Sports Association will this month host an event to celebrate the 100th anniversary of the opening of these facilities.

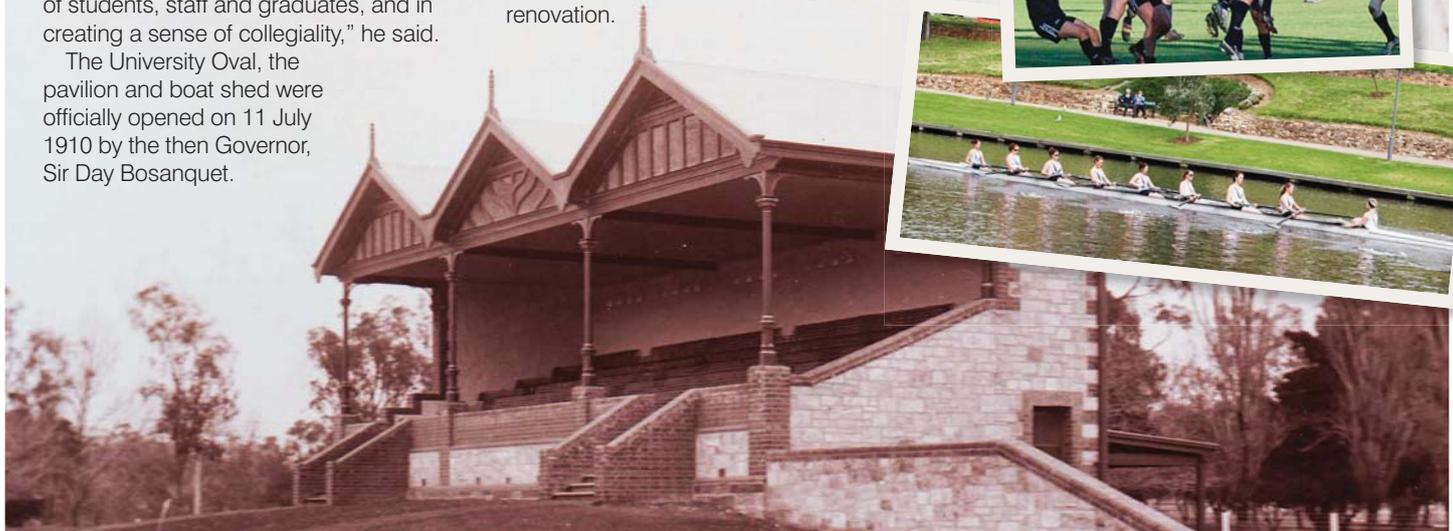
"While celebrating the past, the Sports Association will also use this event as an opportunity to look towards the future. We will launch our Sports Facility Plan, which is our blueprint for the future of University sports grounds and facilities for the next 10 years."

www.adelaide.edu.au/sports

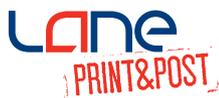
Main image: The original pavilion as it was in 1910

Below: The Adelaide University Football Club is one of the most decorated clubs in the University's history

Bottom: University of Adelaide rowers on the River Torrens



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Queen's Birthday Honours

University of Adelaide Chancellor the Hon. John von Doussa QC leads a distinguished group of University alumni recognised in the Queen's Birthday Honours list.

A 1962 Law graduate of the University, Mr von Doussa received the Officer of the Order of Australia (AO) in recognition of his distinguished service to the law, for his work as President of the Australian Human Rights Commission, as a judge in federal and international courts, and for his outstanding service to higher education.

"I was thrilled to receive the award, and of course my family was very excited about it," Mr von Doussa said.

"I have been lucky in my career to be offered very interesting positions. I have found them all challenging and have been fortunate throughout to work with marvellous colleagues and staff whose support has been invaluable."

Mr von Doussa said the University of Adelaide had played an important role both in the formative and latter stages of his career.

"My first big stroke of good luck was to come to the University of Adelaide when enrolment was simply a matter of choosing which course to enrol in – there were no entry quotas and cost was really no barrier to undertaking a course," he said.

"Student life was easy then and there was ample time for the social aspects of a memorable university experience.

"Looking back, I am sure that the solid grounding I received at the University

of Adelaide Law School made my advancement through the ranks of the legal profession possible."

Mr von Doussa became the 14th Chancellor of the University of Adelaide in 2004. From 2003-2008 he served as President of the Australian Human Rights Commission, having been a Judge of the Federal Court of Australia since 1988 and holding numerous other prominent legal positions in Australia, Vanuatu and Fiji.

He will retire from the position of University of Adelaide Chancellor later this month, and will be succeeded in the position by former Federal Senator and Representative of Australia to the United Nations, the Hon. Robert Hill.

"It has been a great honour and privilege to be associated with the governance of one of Australia's leading universities, and one which has an international reputation for its excellence in research and teaching," Mr von Doussa said.

For a full list of University of Adelaide alumni to receive Queen's Birthday Honours, please visit: www.alumni.adelaide.edu.au/queensbday_honours

Story by Ben Osborne

Above: The Chancellor, the Hon. John von Doussa AO QC, with his wife, Julie

Photo by Calum Robertson, courtesy of *The Advertiser*

Alumni

PRIVILEGES

Adelaide alumni have access to a range of exclusive benefits, services and discounts – and each month we bring you the pick of the bunch for a featured special.



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Travel with peace of mind with the comprehensive and exclusive Alumni Private Travel Insurance (through Willis Australia Ltd).

This policy's highly competitive rate is available to Australian resident alumni of the University of Adelaide.

To find out more about the policy and the full range of alumni privileges, go to: www.alumni.adelaide.edu.au/privileges





Schoolgirls take up challenge

The University of Adelaide and professional organisations are working to change the male domination of engineering and technology fields.

Like technology-based programs everywhere, the male students in the University of Adelaide's engineering, maths and computer science courses easily outnumber the females – but that's something many people are determined to shift.

The percentage of women studying engineering typically has been around 15-18%, with numbers lower in information and computer technology.

Dr Katrina Falkner, a Senior Lecturer in the School of Computer Science and Associate Dean (Learning and Teaching) within the Faculty of Engineering, Computer and Mathematical Sciences, said the industry recognised the importance of increasing female representation in its workforce.

Gender and skill diversity was valued in engineering and technology professions for the benefits it brought to both team and leadership positions.

"Industry and universities are putting a lot of effort into increasing the participation of women in engineering and technology-related fields," Dr Falkner said.

At the University of Adelaide, the Faculty of Engineering, Computer and Mathematical Sciences is working to support and encourage female students, with the aim of increasing enrolments.

One strategy is targeting high school girls from across the state to encourage their interest in engineering, maths and

information technology. As an example, last month the Faculty held its Young Women in Technology Challenge.

A group of 140 Year 9 and 10 girls came from as far as Waikerie and Naracoorte to participate in a day of fun, hands-on activities designed to introduce the girls to a variety of technology-related study and career paths.

The girls heard inspirational talks from female role models – academic Dr Laura Brooks (School of Mechanical Engineering); industry representative Kylie Sproston (General Manager of pharmaceutical company BTG Australasia Pty Ltd); and Rona Sakko (CSIRO).

Then it was into the labs for some technology tasks, including building DC motors; designing and testing straw structures to see how they would stand up to an earthquake; fixing a broken arm using a computer program; producing some computer animation; building Lego robots; investigating the 'mud' used in drilling; and looking at cell disruption for pharmaceutical engineering purposes.

Among the student ambassadors helping during the day was Kate McKenzie, a third-year student doing a combined degree in Petroleum Engineering and Mechanical Engineering.

Kate decided to study engineering after attending a Technology Challenge at the University of Adelaide when she was in

Year 12 at Victor Harbor High School.

"I'd never even considered studying engineering before I came to the Technology Challenge in my school holidays," said Kate.

She is loving the course and looking forward with confidence to bright career prospects.

The Faculty is also offering mentoring programs for final-year female students, in conjunction with the Women in Innovation and Technology Group.

Highly skilled and experienced professionals mentor female students and offer support through the final stages of their studies, helping the students to get their careers started.

Dr Falkner said: "Demand for engineering and technology graduates continues to grow and exceeds the number of graduates available.

"Engineers and technology professionals will be critical in developing solutions to current and future problems on a global scale. There are great opportunities for female students to enter these creative and exciting fields."

Story by Robyn Mills

Above: Taking up the technology challenge with student ambassador Kate McKenzie (centre) are Naracoorte High School students Nicole Baty (left) and Megan Johnson
Photo by Robyn Mills

The Adelaide Review in association with the Creative Writing Program at the University of Adelaide is proud to announce the second **Annual Short Fiction Competition.**

2010

Following last year's success and in response to strong international participation, in 2010 the short fiction competition is broadening its reach both nationally and through our region.

We welcome Black Inc. Publishing and the National Arts Council of Singapore as new sponsors of the competition.

The competition aims to encourage the art of short story writing across our region and to set new standards in contemporary short fiction.

The competition once again features an outstanding judging panel consisting of prize-winning Australian authors **Brian Castro** and **Gail Jones**, along with Nobel Laureate **J.M.Coetzee**.

Together with publication in The Adelaide Review, this year's winning author will receive a cash prize of \$1,000, a selection of books from Black Inc. Publishing and a dozen of the finest South Australian wines selected from The Adelaide Review's *Hot 100 South Australian Wines*.

Up to five finalists will also have their work published throughout the coming year in The Adelaide Review.

This is an extraordinary opportunity for writers to have their work recognised by a world-class panel of judges and to be read by The Adelaide Review's monthly audience of approximately 100,000.

Submissions are open from Monday May 31 to Friday July 23, 2010.

Entry forms, along with full terms and conditions of entry, are available at adelaidereview.com.au



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Research Tuesdays

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We're born like that

New research shows males and females approach risk-taking differently even in utero

An incredible new chapter has been revealed in the still unfolding story of human in-utero development. Research at the University of Adelaide's Robinson Institute has shown the human fetus is able to deliberately slow and modify its development in response to a sub-optimal maternal environment, such as if the mother has a pre-existing disease or suffers extreme stress.

This increases its chances of survival. But remarkably, only female fetuses use the ability. Males instead "roll the dice" and attempt to continue growing at their normal rate, placing them at greater risk should further complications arise.

Associate Professor Vicki Clifton discusses this fascinating growth mechanism and its possible implications for managing pregnancy.

Don't miss this special event.

WHEN: Tuesday 13th July, 5.30pm–6.30pm

WHERE: Lecture Theatre 102, Napier Building, North Terrace Campus

ADMISSION FREE, BOOKINGS ESSENTIAL

Register online:

www.adelaide.edu.au/researchtuesdays

or call: + 61 8 8303 3692

Fridays Uncorked 2010

The National Wine Centre of Australia invites you to celebrate the end of the week with a series of Fridays Uncorked. Sponsored by Charles Melton Wines.

www.wineaustralia.com.au

When: 4.30pm Friday 2 July

Where: National Wine Centre of Australia, corner of Hackney and Botanic Roads, Adelaide

Cost: FREE including cocktail food

MBA Alumni Association (MBAAA) – Networking Breakfast

When: After 7.30am Wednesday 7 July (first Wednesday of every month)

Where: East Terrace Continental Café (between North Terrace and Rundle Street, Adelaide)

Confucius Institute
at The University of Adelaide




Free Public Lecture

The Tibetan Question: Between East and West by Professor Wang Hui (Professor of Chinese literature and history, Qinghua University).

A leading member of China's "New Left" movement, Wang Hui is acknowledged as one of the top 100 public intellectuals in the world.

Presented by the Confucius Institute of the University of Adelaide in conjunction with the 18th Biennial Conference of the Asian Studies Association of Australia.

www.confucius.adelaide.edu.au

When: 1.00pm–2.00pm Wednesday 7 July

Where: Elder Hall, North Terrace Campus

Cost: Free, but registration is essential

RSVP: Call +61 8 8303 4798 or email: confucius.institute@adelaide.edu.au

Thinking Critically About Sustainable Energy

Sustainable Energy: Fossil Fuel Future – interactive discussions about the future of fossil fuels.

Part of a new public seminar series organised by the Centre for Energy Technology in conjunction with the Royal Institution of Australia.

For more information email: environment@adelaide.edu.au or visit: www.adelaide.edu.au/environment/cet

When: 6.00pm–7.30pm Wednesday 7 July

Where: The Science Exchange, Exchange Place, Adelaide

Cost: Free, but bookings essential

RSVP: www.riau.org.au

Inaugural A.R. Hickinbotham Lecture

Winemaking – A Continuum between Art and Science? by Louisa Rose (Yalumba).

This lecture is named in honour of Alan Robb Hickinbotham, the former Roseworthy lecturer who is regarded as the father of Australian oenology (winemaking) education. This lecture recognises individuals that are world leaders in the field of oenology.

When: 4.00pm Monday 12 July

Where: Auditorium, Plant Research Centre, Waite Campus

Cost: Free

Centre for Automotive Safety Research seminar series

Speeds of Vehicles in South Australia by Craig Kloeden

The Centre for Automotive Safety Research invites you to a series of seminars addressing major topics in the fight to reduce road trauma and highlighting the latest research.

The seminar will examine how vehicle speeds on different road types in South Australia have changed between 2002 and 2009.

<http://casr.adelaide.edu.au>

When: 4.00pm Wednesday 21 July

Where: Art Gallery Auditorium, Art Gallery of South Australia, North Terrace, Adelaide

Cost: Free

RSVP: Please register your attendance with Leonie Witter on +61 8 8303 4114 or email: leonie.witter@adelaide.edu.au

Energy Futures – Climate Change

Part of a new public seminar series organised by the Centre for Energy Technology in conjunction with the University's School of Earth and Environmental Sciences.

For more information email: environment@adelaide.edu.au or visit: www.adelaide.edu.au/environment/cet

When: 5.00pm–7.00pm Wednesday 28 July

Where: Horace Lamb Lecture Theatre, North Terrace Campus

Cost: Free – all welcome. No registration necessary for this series.

John Bray Law Network

Chief Justice's Shield Quiz Night with Quiz Master Peter Goers

When: 7.00pm–11.00pm Saturday 7 August

Where: Bonython Hall, North Terrace Campus

Cost: \$25 per person; \$250 per table (tables of 10 preferred)

Bookings: Call Astrid Macleod on +61 8 8431 2487 or email: astridmacleod@internode.on.net

John Bray Law Network

John Bray Oration with speaker Mr Graham Leung

When: Monday 13 September

Where: Elder Hall, North Terrace Campus

Cost: Free

Bookings: Call Astrid Macleod on +61 8 8431 2487 or email: astridmacleod@internode.on.net

