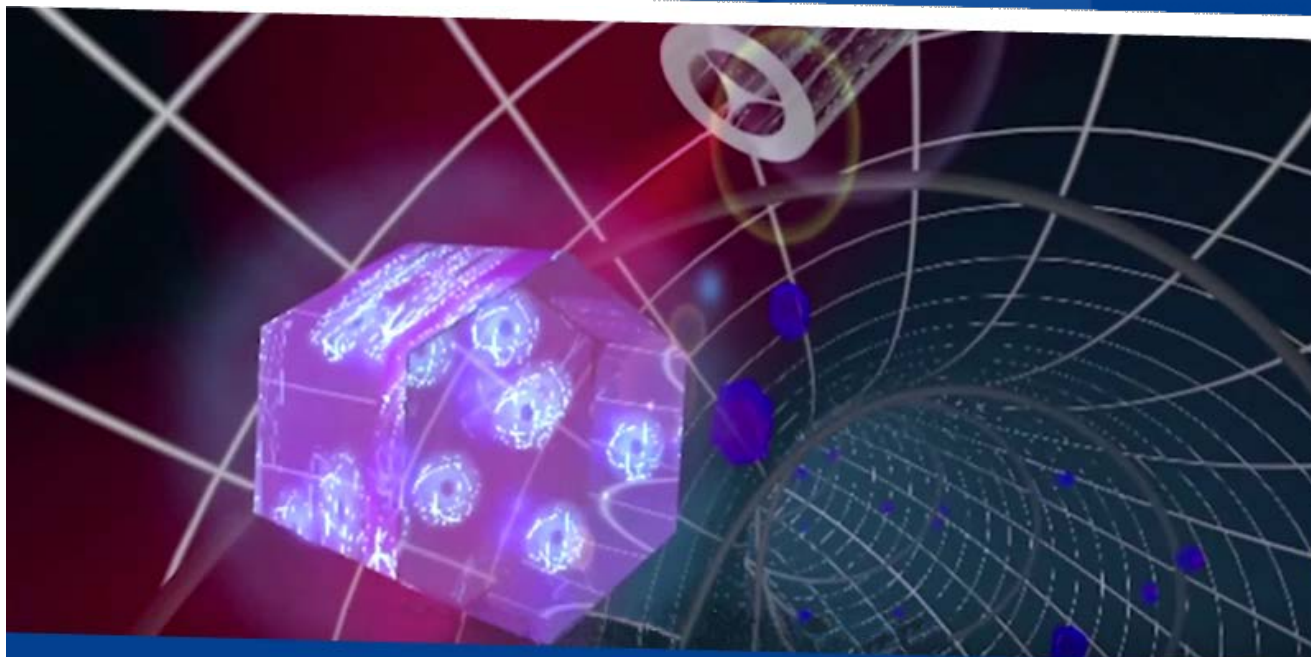


# news

September 2015

&gt; from the University of South Australia



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UniSA research featured prominently at the 'Oscars of Australian science', the Australian Museum Eureka Prizes, last month. [more](#)



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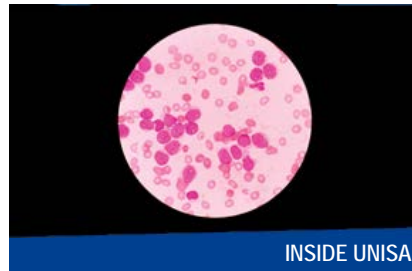
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## UniSA again on the rise in QS world rankings

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by Michèle Nardelli



INSIDE UNISA

UniSA has risen 45 places in the Quacquarelli Symonds (QS) World University Rankings in 2015-2016, leaping into the top 300 universities worldwide.

The rise reflects an increase in the number of citations from researchers across the University and is in-step with a marked improvement for all of the nation's Australian Technology Network (ATN) universities, which now all rank in the QS top 300 worldwide.

UniSA moved to 288 this year, from 333 in 2014.

UniSA Vice Chancellor and Chair of the ATN, Professor David Lloyd says the results reflect UniSA's energy and ambition as an institution.

"I'm really pleased UniSA is continuing to improve and I am especially pleased that as a collaborative network of young and internationally engaged institutions, the universities that make up the ATN are all developing reputations as 'can do' institutions," Prof Lloyd says.

He says UniSA had shown strong improvement in the discipline categories of Engineering and Technology and Social Science and Management, both improving their position in the top 200 globally.

QS also ranked UniSA in the top three percent globally in Arts and Humanities and Life Sciences and Medical Sciences.

"UniSA's improvement in the rankings reflects a commitment by the University to be the best it can be – to offer students the best teaching and learning, to foster the kind of research that has impact and to embrace a spirit of enterprise in all we do," Prof Lloyd says.

"The results this year are an encouragement for everyone at the University to keep innovating and to continue to strive for excellence."

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University of  
South Australia

## From the blackboard to anywhere: the rise of interactive learning

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by Will Venn



SCIENCE AND TECHNOLOGY

If you imagine what learning experiences tomorrow's universities could provide, this type of scenario may spring to mind:

*A student texts an academic during their lecture to ask a question about what is being presented and receives an instant answer – all while that student is sitting in a café, in a different city, live streaming the presentation onto a smart device, without the fear of blowing their data allowance.*

That university of tomorrow is at UniSA today, already existing in the form of TKIEE – a learning innovation that has been developed by UniSA and commercialised by ITEK, UniSA's commercial arm.

The brainchild of researchers Professor Andy Koronios and Dr Jing Gao, TKIEE is an online system set to enhance classroom and lecture hall interaction. Its application could stretch well beyond the university learning environment, enabling presentations to be recorded and streamed live to students, anywhere and anytime on any smart device.

It means students can participate in lectures, viewing and listening to them as well as asking questions or responding to questions or quizzes from instructors, without needing to be physically present in the same environment.

Prof Koronios, who is the Head of School of Information Technology and Mathematical Sciences, explains TKIEE's evolution.

"We wanted to find better ways for students to interact in lectures. Most students have smartphones and were



Dr Jing Gao, Dr Stephen Rodda and Professor Andy Koronios.

probably using them for different purposes, so we thought, wouldn't it be nice to use them to interact," Prof Koronios says.

"The development started 18 months ago when we took Powerpoint slides and uploaded them into the Cloud and used technology to enable students to ask questions through their mobile phones.

"Sometimes students in large lecture theatres may be shy to ask questions, so this is a way a lecturer can see someone has asked a question and can decide whether or not to answer it.

"Conversely a lecturer may wish to ask the class a question, so we implemented a quiz type feature which enables questions to be sent straight to mobile devices, giving students the chance to answer through just one click.

"This helps the lecturer see whether students understand the concepts of what they are being taught."

Starting as a new tool focused on interactivity, it has quickly developed into a system that has the ability to record a lecture and slides, and that encourages interaction between students and lecturers using a smart device.

Through ITEK, the TKIEE system was trialled this year across five courses and disciplines at UniSA, including Engineering, Natural Built Environments, Information Technology and Health.

The response was positive – lecturers reported they wanted to continue using TKIEE and students expressed a desire to see the system extended to other courses.

Dr Gao relays the example of a student in Brisbane who used TKIEE and attended the first half of a lecture on a bus, and the second half in a library, a literal example of mobile, flexible learning.

"The data compression behind it means people on buses, trains and couches aren't worried about blowing their 4GB or Wi-Fi limit download because it only consumes 10MB an hour," Dr Gao says.

"It enables live broadcasting without the requirement to download software."

TKIEE's multi-functional purpose means students who may not understand a particular anatomical term in a health lecture can use the system to click onto that particular term or word, enabling an automatic translation or explanation of it, into whatever language they designate.

The University's Learning and Teaching Unit has begun formal training on the system for interested staff.

Prof Koronios anticipates that by next year everyone who wants to use TKIEE will be able to use it. The question is, why hasn't a system like TKIEE been developed already?

"There are web conference systems around like WebX but you couldn't really use them in the classroom. The difference with TKIEE is that it takes lots of different features and integrates them into one," Prof Koronios says.

"Most lecturers say the beauty of TKIEE is that they don't have to worry about firing up different systems and programs in addition to Powerpoint – TKIEE does it all in one."

ITEK Chief Executive Officer, Dr Stephen Rodda views TKIEE as having wider implications outside of student learning.

"We looked at the dynamic of the student; their wants and needs. Their experience when they come to study at university is changing," he says.

"TKIEE is a platform that helps meet their needs, it provides a difference for student engagement and their learning experiences.

"From the university's perspective this system means you can start to reconsider things such as asset utilisation. Lecture theatres have a big physical footprint and there is a huge amount invested in infrastructure, from chairs to screens to recording equipment.

"The mobility TKIEE offers means anywhere can be a potential classroom, just as long as you BYOD – bring your own device.

"From kindergarten to Year 12, vocational or corporate training, TKIEE has the functionality to be rolled out in those different areas but the first cab off the rank is higher education. It has great traction at UniSA and we can point to the positive experiences of students and staff in this regard already."

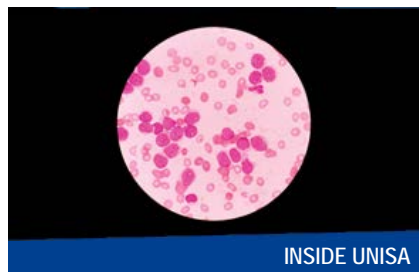
For more information go to [www.tkiee.com](http://www.tkiee.com).

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**University of  
South Australia**



## New Colombo Plan opens doors to the Indo Pacific

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by Rosanna Galvin



COMMUNITY

UniSA students undertaking a taekwondo class.

A group of UniSA education students have found themselves learning outside of the classroom this year through a special excursion that took them halfway across the world to South Korea.

The study tour was supported by the Federal Government's New Colombo Plan, an initiative giving Australian undergraduate students the opportunity to learn, study and intern in the Indo Pacific region. You can read more about UniSA's success in the latest round of New Colombo Plan funding in the breakout below.

The sixteen education students spent three weeks submersed in Korean culture and language, following the signing of a Memorandum of Understanding between UniSA and the Seoul National University of Education (SNUE), South Korea's first national university specialising in elementary school teacher training, earlier this year.

Bachelor of Education (Primary and Middle) student Ellen Trusiewicz says the trip, which was designed to develop intercultural awareness for teaching migrant, refugee and international students in Australian schools, was one of the highlights of her degree.

"The best way of gaining an understanding of a culture is by actually being immersed in it, and that's what we did," she says.

"This experience has enhanced my degree and my future career options, as my minor specialisation is Teaching English as a Second Language (TESOL). I feel more equipped to teach English to students from overseas.

"As well as learning about the Korean culture, I feel that I have a greater understanding of what it might be like for students that come to Australia



Students Jade Mattin and Ellen Trusiewicz.

and are suddenly immersed in the culture without knowing the language.

“We experienced what it was like to be a foreigner. This is important for our teaching practices because as Australia is such a diverse country, there are high chances of us having English as a Second Language (ESL) students in our future classrooms.”

While in South Korea, the students attended a series of lectures at SNUE on topics ranging from traditional dance and taekwondo right through to geography and Korean history. They also had the chance to explore Seoul through a number of cultural activities and were invited to afternoon tea at the Australian embassy to meet the Ambassador, Bill Paterson.

One of the best experiences of the trip was learning about the Korean education system, according to Bachelor of Education student Jade Mattin.

“In many respects, the Korean education system is very different to ours – they start primary school at a later age and the learning day is generally longer than Australian students,” Jade says.



“Most Korean students undertake private tutoring after school and that, combined with any other extracurricular activities, often means their learning day doesn’t end until the late hours of the night.

“There also tends to be a strong appreciation for education among the general community and I think that unfortunately this is sometimes missing in Australia.

“I believe there is a lot we can learn from their education system and there is a lot that they can learn from ours.”

Jade says the study tour was particularly valuable for her as she hopes to secure a job in a lower socioeconomic school in Adelaide’s northern suburbs, where there are a high number of ESL students.

The third year student is currently participating in the Northern Exceptional Teachers for Disadvantaged Schools project, which prepares high performing pre-service teachers to teach in some of South Australia’s most challenging schools.

“I now know from first-hand experience how challenging it can be communicating in a country where the first language is different to your own,” she says.

“I now understand some of the challenges my future ESL students may be experiencing and will be able to relate to them on a personal level.

“In the end, I think all of us will become better teachers because of our experience in South Korea.”

### **UniSA students mobile in Asia and the Indo-Pacific**

The latest round of Mobility Grant Funding under the New Colombo Plan will open up opportunities for 113 undergraduate students from UniSA to have lived experiences in the Asian and Indo-Pacific region that will broaden their understanding of our “neighbourhood”.

UniSA received support for two important tours in China to partner institutes in Shandong, which will host six pharmaceutical science students, and in Tianjin, where four students in industrial design will complete a product design internship.

Ten nursing students will complete their practicum in the Cook Islands and in Laos 20 UniSA students will undertake a multi-disciplinary volunteering project with International Volunteer HQ.

UniSA Business School will take 20 students to Taiwan and China on a study tour focused on tourism, event management, sport and recreation, and 10 students from the School of Education will be heading to the Philippines on a study tour.

In a special bid from a consortium of Australian universities - the Australian Consortium for ‘In-Country’ Indonesian Studies - 35 students will travel to Indonesia. This will see School of Education students undertake a Teaching English as a Second Language study tour while students in the School of Art, Architecture and Design will explore Indonesian architecture.

Deputy Vice Chancellor: International and Advancement, Nigel Relph says the New Colombo Plan continues to provide unique and important experiences for Australian students that are vital to their understanding of the region.

“This year the mobility grants total almost \$370,000,” Relph says.

“This is a substantial commitment from the Government and one that is lifting the quality of Australian degrees because it is giving our students genuine and invaluable international experience.”

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# news

September 2015

&gt; from the University of South Australia

## From the Chancellery

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“We’re all individuals!”

....

“I’m not!”

That sublime piece of Python-esque comedy from *The Life of Brian* has always put me in mind of education and the university system.

We need different, not same.

There are 1.4 million Australians in higher education. 55,000 are studying for higher degrees by research. The majority of PhD students will have to find work in industry, not in academia. We know this. Yet just last week some in our sector were calling for research training supports to be even more closely aligned to traditional academic measures - instead of enabling and training PhDs in areas that have been identified as vital to delivering future jobs and economic growth.

Government allocation of research block grant funding hugely undervalues the (past) performance of universities when it comes to engagement with industry. This needs to change. Public expenditure accountability demands a return on investment.

An appropriate (sensible?) realignment of funds could create human capital in areas that would strengthen our nation’s economy. It would also increase the mobility of Australia’s research workforce, allowing them to bring their skills and creativity into industry.

Beyond mining and agriculture, Australia has an infinite, renewable resource that will power the economy for the next generation. By focusing on what’s in our heads, rather than what’s under our feet, Australia can fuel a boom that lasts longer than either the mining boom or the prosperity we achieved off the sheep’s back.

By equipping this cohort of research students, this natural resource, with professional transferrable skills, we can



ensure they are not only trained and inspired to conduct great research but are fully capable of taking their talents into real-world settings.

The lucky country now needs to make its own luck, and we need to think about research as an investment for future prosperity. By better linking our universities with the broader Australian economy we can take advantage of our brightest minds and secure ongoing national wealth.

Countries such as the UK and Germany have already adopted doctoral training centres that integrate both discipline-specific and generic components. And they've had some great outcomes.

By any yardstick, we already conduct a huge amount of really great research in Australia. Some of it has translation to astonishing human value and some of it does not. That's the nature of research. Einstein once quipped that if we knew what we were doing it would not be called research.

No-one can predict what the next game-changer will be in research. Yet it would be foolish not to look to the future and think about training our brightest minds in areas of national priority, rather than looking back to what areas of research have previously been rewarded in terms of citations and peer review and only training more of the same.

The ATN group of Universities dare to be different. One of our initiatives is the Industry Doctoral Training Centre (IDTC) - the only national industry doctoral training program in Australia, run across five universities. The IDTC combines a traditional PhD thesis with specific training in professional and broad technical skills required by industry. Our graduates are skilled to seamlessly work in either industry or academia throughout their careers, with the skillset for both. This should be the norm.

Significant barriers exist before programs such as the IDTC can be delivered at scale across the sector. Delivering the industry-readiness and broader skills that make the IDTC such a valuable program requires additional time and resources. To really tackle research training in a meaningful way, dedicated funding will be required to underpin the extra training that is not part of a traditional PhD. But we can point to global competitor nations who have gone down this path and reaped benefit. It is a de-risked investment.

Businesses also need to be encouraged to build a culture of collaboration. This could be achieved through changes to the tax system, motivating businesses to spend the extra dollars to directly support students on industry research focused PhDs and to hire PhD graduates who can make a real and immediate impact. A national internship plan designed to be pro-employer would undoubtedly boost productivity and create new job opportunities.

The Government's current review of the research training system, and a parallel review of research funding and policy, are opportunities to address some of the challenges inherent in the research environment.

We need to ensure Australia's brightest minds continue to be nurtured and inspired. We need to provide the necessary means to connect research students with industry, best equip them for their future careers in industry or academia, and focus on building capacity in national priority areas to deliver future innovation. We need to move past aspiration to action.

**Professor David Lloyd**  
**Vice Chancellor and President**  
**Chair of the Australian Technology Network of Universities**

The ATN comprises University of South Australia, Curtin University, RMIT University, University of Technology Sydney and Queensland University of Technology.

This column was originally published in the [Australian Financial Review](#).

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**University of  
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### UniSA pain researcher named Tall Poppy of the Year

UniSA's Dr Tasha Stanton has been awarded Tall Poppy of the Year at the 2015 South Australian Science Excellence Awards.

A Research Fellow at UniSA's Body in Mind Research Group, Dr Stanton is behind the ground-breaking discovery that if you change how a painful body part looks to an osteoarthritis sufferer using visual illusions, it can significantly reduce the pain they feel.

It is this ability to undertake high quality scientific research and then communicate the findings to the general public that has seen her take out the Tall Poppy of the Year title, an award designed to put the spotlight on world-class South Australian researchers who are actively sharing their passion for science with the community.

UniSA Vice Chancellor Professor David Lloyd congratulated Dr Stanton on her significant achievement, noting the important role researchers can play in inspiring the next generation to pursue a career in science.

"Dr Stanton is a fantastic example of a researcher who is able to conduct cutting-edge research in the laboratory and then take those results out into the wider community through a number of public engagement activities," Prof Lloyd said.

Centre for Cancer Biology researcher and UniSA Adjunct Research Fellow, Dr Simon Conn was also a finalist in the Tall Poppy campaign.

For more information, see the related [media release](#).

### John Hill joins UniSA Council

Former South Australian Government Minister, John Hill, has joined the Council of the University of South Australia.

With more than 20 years' experience in public life and 11 years as a Minister in both the Rann and Weatherill Governments, Mr Hill was instrumental in the development of some of the State's most significant health projects, including the new Royal Adelaide



Hospital and the South Australian Health and Medical Research Institute.

Welcoming him to the University Council, UniSA Chancellor Dr Ian Gould AM said the University would have a great deal to benefit from the experience and wisdom of such an accomplished and experienced public policy professional.

“We are delighted to welcome him to the University and look forward to his insights and ideas and sharing his enthusiasm for UniSA and its future,” Dr Gould said.

Mr Hill said he was excited to be joining what he describes as an energetic, creative and innovative institution.

“As a contemporary institution, UniSA really has a sense of youthful energy,” he said.

“It has a relatively lean governance model and challenger spirit, one of positive risk taking and imagining and engaging with what is possible for the University and the State.

“I’m looking forward to being part of that creativity, energy and enterprise and to making my contribution on Council.”

Mr Hill attended his first UniSA Council meeting last month.

For more information, see the related [media release](#).

### **Professor Simon Beecham to continue as Pro Vice Chancellor at ITEE**

Professor Simon Beecham will continue in the role of Pro Vice Chancellor: Division of Information Technology, Engineering and the Environment (ITTE), following his initial appointment at the start of this year.

UniSA Vice Chancellor Professor David Lloyd congratulated Prof Beecham on his ongoing appointment, where he has already overseen important developments in the Division.

“Simon has been instrumental in leading the Division during a time of significant change as we create the University’s largest single research institute - the Future Industries Institute,” Prof Lloyd says.

“In this period the Division has also managed a number of important professional accreditation review processes, including the most recent visit from Engineers Australia.”

Prof Beecham joined UniSA in 2006 and previously held roles as Head of the School of Natural and Built Environments, and the Director of UniSA’s Centre for Water Management and Reuse.

An accomplished researcher, Prof Beecham currently holds three Australian Research Council grants, and through his research he has been involved with the development of industry tools such as the Syfon and Switch2 software programs.

Prof Beecham is also a Fellow of Engineers Australia and the Australian Institute of Company Directors.

### **Business School named one of world’s best**

The UniSA Business School has been awarded a five-star rating in Quacquarelli Symonds (QS) Stars for Business Schools, placing it firmly in the top one per cent of Business Schools in the world.

In addition to the overall five-star rating, UniSA also received five stars in five sub-categories: teaching and student quality; internationalisation and diversity; facilities; engagement; and program strength in the Master of Business Administration (MBA).

The QS Stars made special mention of the UniSA Business School for showing excellent performance in establishing academic partnerships with other Business







Schools around the world and in having a good proportion of international faculty staff.

Pro Vice Chancellor (Business and Law) UniSA Business School, Professor Marie Wilson, said she was delighted with this five-star rating for what is one of the youngest university Business Schools in Australia.

“Being placed in the top one per cent of Business Schools globally is testimony to the fantastic work being done by our dedicated staff working to make sure our excellence is assured,” Prof Wilson said.

“UniSA Business School’s programs are internationally recognised for their global outlook and relevance to industry, and we collaborate with industry and business in developing the next generation of business leaders and professionals.

“Despite our short history, we are providing exceptional outcomes for our students and graduates.”

For more information, go to the related [media release](#).

### **Putting regional Australia firmly on the policy map**

Senior Research Fellow at UniSA’s School of Commerce, Dr Jen Cleary, has been appointed by Australian Deputy Prime Minister (DPM) Warren Truss to lead a national advisory group for Regional Australia.

It’s a role that aligns perfectly with Dr Cleary’s research interests which are focused on rural geography and agriculture.

Through working and undertaking research across regional Australia, Dr Cleary says the issues, challenges and opportunities that manifest in these parts of Australia are familiar to her.

“One of the major challenges for regional Australia is its diversity. There is no ‘one-size-fits-all’ approach that can be taken to regional development or policies to support development,” Dr Cleary says.

“For example, we hear that regional Australia is experiencing somewhat of a population influx. However, that is primarily occurring in communities that are less than 150km from our coasts.

“For other parts of regional Australia, outmigration, especially of young women, is an increasing challenge. It is important to remember that regional Australia accounts for around 67 per cent of the value of Australia’s export earnings – so the well-being of our regions matters a great deal to the nation.

“Other challenges for regional Australia include the increasing lack of access to vocational and higher education opportunities. Around 30 per cent of Australians live outside major cities, yet the number of regional, rural and remote Australians who hold a Bachelor degree is much lower than in urban centres.

“This has meant that regional Australia is increasingly looking at different models of service delivery for tertiary education that are very innovative. I’m currently looking at Community Owned Tertiary Education Campuses (COTECs), for example. It is a complete shift in thinking, and it is important that these ideas are at the forefront when universities and other institutions are planning for the education equity challenges of regional communities.”

As Chair of the DPM’s regional reference group, Dr Cleary will be responsible for advising the DPM on the diversity of issues and opportunities across regional Australia, with the opportunity to make strong policy contribution.

Dr Cleary says she is delighted to have been appointed Chair of the reference group.

“I’m particularly delighted as a South Australian, to have this opportunity in such a high profile leadership role,”



Dr Jen Cleary with the Deputy Prime Minister Warren Truss at the Regional Development Australia Forum in Canberra.

she says.

“So often, regional Australia is defined, spoken and written about from the perspective of more populous regional centres in the eastern states. To be able to bring a perspective that is different to that is exciting.”

On announcing the appointment, DPM Truss commented on Dr Cleary’s commitment to regional communities and their sustainable futures.

“Jen has long been an advocate for regional, rural and remote communities and their social and economic futures,” DPM Truss said.

“She has a high profile across Australia and I am very pleased that she has been appointed to lead this group.”

### **Prioritising Indigenous content**

Some of the world’s leading scholars in cultural policy and the inclusion of Indigenous content in education will attend an important symposium at UniSA on September 21.

The Indigenous Content in Education Symposium will explore ideas of best practice and bring together academics, teachers, community members and students.

Keynote speakers include distinguished Professor Graham Hingangaroa Smith, Chief Executive Officer of Te Whare Wānanga o Awanuiāraangi, New Zealand’s Maori tertiary education provider; Professor Jacinta Elston, Associate Dean Indigenous Health, James Cook University; and Professor Peter Buckskin, Dean of Indigenous Scholarship, Engagement and Research, UniSA.

The symposium will look at the contributions of both Indigenous and non-Indigenous teaching staff, ways in which students can best learn about Indigenous culture, and foster the development of communities of best practice in science, technology, engineering and mathematics (STEM), humanities, social science, education, health, business and Indigenous studies.

With a background in higher education, cultural and policy studies and in forging the foundation of Māori Education Studies in New Zealand universities, Prof Smith says the symposium presents an invaluable opportunity for professionals, policymakers and community leaders to learn from the success of others.

“We need to develop ways for Indigenous people to see themselves and their culture reflected back to them in the curriculum, pedagogy, administration and schooling environment,” Prof Smith says.

Conference co-Chair, UniSA’s Associate Professor Andrew Gunstone says the symposium will address critical issues regarding Indigenous knowledges and the development of Indigenous content in universities.

“At a time when the nation is considering the significant issue of Indigenous recognition in the Constitution, it is appropriate that as educators we are concerned with improving our approaches to teaching Indigenous content,” he says.

For more information on the symposium, go to symposium [website](#).

### **UniSA joins the celebrations at OzAsia festival**

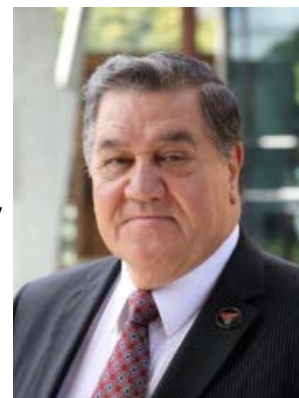
Adelaide will come alive with sights and sounds of Asia this month as the annual OzAsia Festival descends on the city. For the third year running, UniSA will be partnering with the international arts festival, presenting two OzAsia shows – Ryoji Ikeda’s Superposition and Miss Revolutionary Idol Berserker.

And while festival-goers enjoy the variety of theatre, dance, music, film, exhibitions and food on offer, two UniSA students will be working behind the scenes as part of the Adelaide Festival Centre’s Green Room Advocacy Program.

Bachelor of Media Arts student, Jodie Kirkbride and Bachelor of Communication (Media and Culture) student Lee Towton have been undertaking professional work experience as part of the program and have already worked at several festivals this year.

Jodie says the program has been a fantastic stepping stone into a career in live performance.

“After being the Production Manager on UniSA’s performance of Nosferatu last year, I realised that live performance is something that I wanted to pursue, and that it might be a good career pathway for me –



Keynote speaker Professor Graham Hingangaroa Smith.



Miss Revolutionary Idol Berserker.

especially in Adelaide,” she says.

“The Greenroom will definitely be the most valuable pathway into the industry for me.”

UniSA’s role as the Executive Festival Partner of the OzAsia Festival also means UniSA students, staff and alumni have access to discounted tickets.

For full details of the partnership and to access the discounted tickets, go to the [UniSA OzAsia website](#).

### Join team red for UniSA’s blood drive challenge

With the support of the Australian Red Cross Blood Service, UniSA has set a challenge for its staff, students and alumni this year – to make 500 blood donations and in turn save more than 1500 lives.

The initiative, led by Chancellery in conjunction with members of the Learning and Teaching Unit and the Wellness and Wellbeing student club, has already seen blood drives take place at most university campuses with Mobile Blood Donation Units set to attend Mt Gambier, Whyalla and Mawson Lakes in the coming months.

Australian Red Cross Blood Service Community Relations Officer, David McFarlane says the efforts so far by UniSA staff, students and alumni have been impressive.

“UniSA continues to raise the standard with a well-coordinated and communicated focus on corporate social responsibility,” he says.

“It is an absolute pleasure to work alongside such amazing staff and students – the support from staff and students so far has been outstanding.”

While the actual donation process only takes a small portion of time out of your day, McFarlane says it results in a lifetime of difference for someone else.

“Cancer patients, new mothers and trauma victims all rely on life-saving treatments from donated blood – in fact, one in three Australians will need blood in their lifetime but only one in 30 currently donate,” he says.

“Anyone between 16 and 70 years of age who weighs more than 50 kilograms and is in good health can donate, so if you’re considering donating, it’s time to join UniSA’s Red25 team.”

Keep an eye on the Staff and Student announcements for dates of upcoming mobile unit visit dates or contact [Juliet Mazzone](#) for further information.

#### To join the challenge:

1. Take the short Red Cross [quiz](#) to determine if you are eligible to give blood.
2. Call **13 14 95** to register with the Red Cross and obtain your donor ID.
3. Join the ‘UniSA’ Red25 team on the Red Cross [website](#) using your donor ID and once you have joined the group, your donations made will automatically be added to the UniSA tally.

### Student’s bright design wins furniture prize

A UniSA student’s sleek light design that encourages users to think mindfully about their energy consumption has won the prestigious Clarence Prize for Excellence in Furniture Design.

Liam Mugavin, who is studying a Master of Design (Sustainable Design), drew inspiration from both Japanese aesthetic concepts and modern Australia design to create the Koto Light, a product that can be used for reading or readjusted to create ambient lighting.

Liam says he was both surprised and honoured to receive the Clarence Prize, which is awarded by the Clarence City Council in Tasmania to celebrate accessible furniture art.

“Winning this award is the highlight of my career so far,” he says.

“It’s one of the most, if not most, prestigious awards for furniture design makers in Australia. I feel very privileged to have won it so early in my career.



Staff members Frida Svensson and Jimmy Zamani at the blood drive at City East campus.



Liam with his winning design, Koto Light.

"The design process for Koto Light took about two years. The primary goal was to achieve an idiosyncratic design which complemented my existing range of furniture.

"The final design strives to enhance connectivity; how the user connects with the design in assembling it and when using it, as well as the literal electrical connection. The design addresses numerous sustainability issues including user behaviour, design for transport, efficiency of materials and efficiency of production."

After graduating from a Bachelor of Industrial Design degree at UniSA, Liam spent several years living in Japan where he learnt a lot about Japan's traditional culture, aesthetics and approach to materials and design.

Liam returned to Adelaide in 2013 to set up his own studio and complete the acclaimed two-year Jam Factory Associate Training Program in its furniture studio. He says starting a Master's was the logical next step.

"Although my design practice has physical and commercial outcomes, it is primarily researched based," he says.

"The Master's degree will complement my design practice and help in formalising my research processes.

"I currently rent studio space and workshop access at the Jam Factory which just so happens to be next door to the University so I'm in an incredibly advantageous position with the support of many mentors both at the Jam Factory and UniSA."

### **New childcare centre opens**

The City West Childcare Centre has relocated to a new site on the corner of Waymouth and Elizabeth streets in the city.

UniSA relocated the centre from its former Phillips Street location to enable the development of the Great Hall.

Facilities Management Unit project manager Ian Mackenzie says the new childcare centre is a quality modern centre which features state of the art learning and development facilities for both children and staff delivering care.



"The centre features a play kitchen, landscaped play mounds and a large sandpit," he says.

The centre provides care for children up to the age of five, with places for 96 children.

Architects on the project were Grieve Gillett Dimitty Andersen; with specialist childcare consultants Lady Gowrie.

### **Ultrasound excellence award for Nayana**

UniSA's Medical Sonography Program Director Dr Nayana Parange has won an accolade in the Australasian Society for Ultrasound in Medicine (ASUM) 2015 Awards of Excellence.

Dr Parange was presented with the award for Rural and Remote Service to Ultrasound at the ASUM annual scientific meeting and gala dinner held in Sydney this month. ASUM's mission is to advance the clinical practice of medical ultrasound for the highest standards of patient care.



The ASUM Awards of Excellence reward outstanding achievement and provide an opportunity for peers to recognise and celebrate leaders in their field who are striving to advance the quality and standards of their profession.

Dr Parange's award recognises her efforts in developing ultrasound services and upskilling health professionals working in rural, remote and Indigenous communities in Australia to improve perinatal mortality and morbidity through quality basic obstetric and gynaecological ultrasound training.

She has significantly contributed to the development of the Australian ultrasound ASUM outreach initiative as the outreach education volunteer nationally and internationally, and has trained many remote and rural health professionals in India, Ghana, Papua New Guinea and Indonesia.

### **New project to boost Indigenous participation in maths**

UniSA is partnering with the Australian Association of Mathematics Teachers (AAMT) to deliver a new project that fosters excellence in mathematics among Aboriginal and Torres Strait Islander students.

The Excellence and Equity in Mathematics (XE) project was launched last



month by Federal Minister for Education and Training, Christopher Pyne at Rostrevor College in Adelaide.

Under a national initiative, the Australian Maths and Science Partnership Programme, UniSA secured \$783,000 to develop the project.

XE project leader at UniSA, Professor Peter Buckskin says excellence in mathematics is a key driver to career progression and success.



Professor Peter Buckskin with Rostrevor College students.

“This project aims to redress Indigenous under-representation in Science, Technology, Engineering and Mathematics (STEM) based study and careers,” Prof Buckskin says.

“Working with schools, teachers and students, we’ll be developing key strategies to improve teacher capability in maths teaching and strategies to build Indigenous student achievement in school and through to university.”

Teachers Fiona McInnes, Ray Prasad and Milind Salunke, from Paralowie School, welcomed the new project.

“Engaging students in wanting to study higher levels of maths and science is an ongoing problem at Paralowie, as at many other schools,” McInnes says.

“Our school has a large number of Aboriginal and Torres Strait Island students, many of whom are very capable in maths but do not choose to do a high level of maths.

“One way to encourage these students is to try to relate the maths to their own context – for example, Ray Prasad has already developed a unit of work on coordinate geometry that uses sites of local significance to pose problems about distance and location.

“Although it is very early in the project we hope that this and similar units can be used to motivate our Aboriginal and Torres Strait Islander students to want to continue with maths and science in senior secondary, and ultimately choose careers in STEM.”

The XE project will encompass a review of current professional practice in mathematics teaching; of the resources available to support maths education, and of university outreach programs in science and maths.

It will also see UniSA collaborate with the AAMT in 2015 and 2016 to design a series of school learning and teaching pilot projects and university case studies to identify the best strategies for Indigenous student success and participation. Results of the pilot projects and research data will be published to a national web portal.

Excellence and Equity in Maths is funded by the Australian Government through the Australian Maths and Science Partnerships Program.

For more information, go to the related [media release](#).

### Students scoop two out of three business awards

UniSA Business students have scooped two out of three awards on offer at the 2015 Australia Malaysia Business Council of South Australia Merdeka Awards.

Bachelor of Commerce student Jia Ying Lee earned the top award for her academic excellence and community work. The annual award recognises outstanding international students from Malaysia and is open to students of all academic disciplines from South Australia’s universities.

Jia Ying has been studying in Adelaide for the past year-and-a-half, after having completed her pre-university studies at Tunku Abdul Raman University College in Kuala Lumpur.



UniSA student winners Jia Ying Lee and Hazreel bin Mohd Hasmi.

“I feel honoured to win this award,” Jia Ying said. “Coping with all my assignments, work and exams at the same time as volunteering has been a struggle at times. This award has given me assurance that I have good time management and communication skills.”

Jia Ying is passionate about her home country and bridging the relationship between Australia and Malaysia. Since living in Adelaide she has been a regular volunteer for a range of organisations including for Minda (an

organisation at the forefront of the disability sector), Oaktree (a young people movement to end poverty), and during events such as the Colour Run, Open Day, Jeans for Genes Day and Reconciliation Week.

UniSA Business School Director (International), Stan Astachnowicz congratulated Jia Ying on her award.

“Jia Ying is an exceptional student who has maintained her excellent standard here at UniSA Business School after having initially received our High Achiever’s Scholarship last year,” Astachnowicz said.

“The generosity of the Australia Malaysia Business Council in making these awards available is testament to their commitment to promote better understanding and increase trade between the two countries.

“Given our long history of successful engagement with Malaysia, UniSA Business School is especially proud of this recognition of our students’ achievements.”

PhD student Hazreel bin Mohd Hasmi received second prize at the awards ceremony. The award recognised Hazreel’s academic achievements as well as his engagement with organisations in Adelaide including the OzAsia Festival and the Post Graduate Student Association of UniSA.

Hazreel has lived in Adelaide for four years and hopes he can inspire other Malaysian students who live in the city.

“I hope that my achievement can inspire other students – especially Malaysian students in Adelaide – to work their very best and make their stay in Australia not only beneficial to them but to the local communities as well,” Hazreel said.

Hazreel is passionate about this subject and it is the core of his research – how migrants’ leisure participation helps them to survive their new country and develop attachment to the place as well as the community.

### **JSB technology is top of the class**

Engineering consulting company Umow Lai has won the 2015 Audio Visual Industry Award for the *Best Application of AV in Education with a budget exceeding \$500,000* for its outstanding work in UniSA’s Jeffrey Smart Building.

The judges noted in particular that AV innovation spanned both the teaching and architectural aspects of the building.

“Built from the ground up to incorporate innovations in both the architectural and academic environment through the uses of a range of AV technologies in both the teaching spaces and the entire student connection and interaction with the building, we’re not surprised to learn the success of this project is leading to the rollout of these approaches in the refurbishments of existing buildings and to the planning for future projects,” they said.



The Jeffrey Smart Forum.

### **Can fish oil speed up metabolism? We need your help**

UniSA researchers are investigating if fish oil can help women burn fat.

The Alliance for Research in Exercise, Nutrition and Activity (ARENA) is investigating whether taking fish oil capsules can improve metabolic rate in women.

Fish oil contains omega 3 fats which have been linked with various health benefits and are considered essential nutrients.

Associate Professor Alison Coates from ARENA says omega 3 polyunsaturated fatty acids are known to promote fat burning, which means less fat is stored in the body.

“We’re looking for female volunteers who are overweight to take part in a six week fish oil capsule supplementation study,” Assoc Prof Coates says.

“They must be non-smokers aged between 18 and 60 years old, who are currently not taking fish oil. Volunteers will need to visit City East campus on two occasions, and all eligible participants receive information about their body composition as well as dietary analysis.”

The study was recently publicised on [Channel 9](#). To register interest in participating in the study, phone 8302 2892 or email [Sansom.researchvolunteers@unisa.edu.au](mailto:Sansom.researchvolunteers@unisa.edu.au).



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University of  
South Australia

## New partnership to boost female MBAs

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by Katrina Phelps



BUSINESS

Nadine Wessel is Retail Manager at Westfield Marion.

UniSA has joined forces with four of Australia's leading business schools in a landmark partnership agreement designed to tackle the gender imbalance in MBA study.

The network of top schools has committed to raising almost \$20 million (in university and industry funds) to attract 320 new women into MBA programs over the next three years.

UniSA Business School, Curtin University, Monash Business School and Sydney Business School have combined with the Macquarie Graduate School of Management (MGSM) to deliver its Women in MBA program (WiMBA).

The program, which partners with business to identify top female employees and support them financially and logistically, and by offering support and guidance to complete their MBA studies, will be available to women in South Australia, Wollongong, Melbourne, Sydney and Western Australia.

Current UniSA MBA student and Retail Manager at Scentre Group SCM Marion, Nadine Wessel, has welcomed the initiative.

"I think it's really important to give women more encouragement to take on the MBA program," Nadine says.

"The MBA program can certainly assist career development. If this new initiative means that more women are given opportunities to develop their skill set, it means that more women will have the chance to be considered for a role or get into the boardroom.



Prof Marie Wilson signing the Women in MBA agreement with colleagues from the Curtin, Monash and Sydney Business Schools and the Macquarie Graduate School of Management.



“I think at the senior levels in many organisations in Australia, there’s been a recognition that female participation is lacking.”

Nadine is into her third and final year of her MBA. After her first year of study, she won a leadership role, and says the MBA played a part in providing her with a different level of experience and a different way of thinking about problems in business. Her employer has been supportive of her study, allowing study days off when needed.

Director of Human Resources for Scentre Group, Janine Frew, says the organisation is committed to a diverse workforce.

“At Executive Team and Board level, there’s no question in our minds that ensuring we have a diverse and inclusive workforce at all levels is not optional – it’s the only way we’ll deliver sustainable business success,” Frew says.

“Importantly, diversity is a core pillar in our operating strategy; not something that sits outside normal operations.

“Our philosophy is about enabling our people to succeed in work and life, leading to happier, higher-performing individuals. We’ve worked hard to foster a culture reflective of this inherent belief.

“We are absolutely committed to increasing the percentage of women in our leadership ranks, and supporting the personal and professional development of our key female talent – our future leaders like Nadine - is critical.”

MGSM's Director of Gender Inclusion, Professor Kristina Keneally says studies show that a MBA has a significant impact on career pathways.

“The research shows that MBA graduates report more promotion, increased responsibilities and an increase in their salary packages,” Prof Keneally says.

The new agreement is designed to offer vital support to women in the WiMBA scheme, by waiving part of or all tuition fees and encouraging flexible time management.

UniSA Pro Vice Chancellor, Business and Law, Professor Marie Wilson says the partnership is important in generating national opportunities for women to grow their influence and leadership.

For more information, see the related [media release](#).

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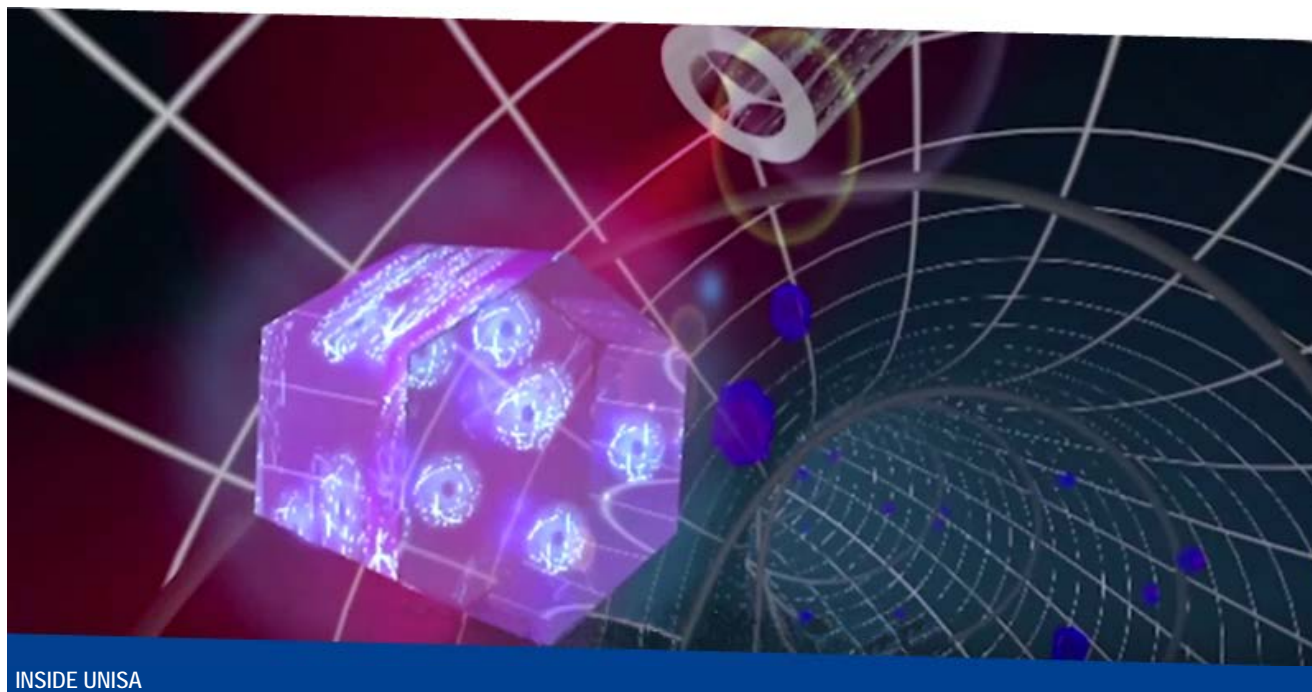
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## Eureka Prizes for our top scientists

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by Kelly Stone



INSIDE UNISA

The Super Dots research in action.

UniSA research featured prominently at the 'Oscars of Australian science', the Australian Museum Eureka Prizes, last month.

UniSA's Deputy Vice Chancellor: Research and Innovation, Professor Tanya Monro, was part of a national team which won the 2015 University of New South Wales Eureka Prize for Excellence in Interdisciplinary Scientific Research, and Associate Professor Frank Bruno led a UniSA team which won the ANSTO Eureka Prize for Innovative Use of Technology.

Vice Chancellor Professor David Lloyd congratulated Prof Monro and Assoc Prof Bruno on being represented in the nation's top science awards.

"Both Tanya and Frank have been recognised for research which is critical in solving many of the world's current and future challenges," Prof Lloyd said.

"The University is proud of their research achievements and their being honoured in the nation's most comprehensive science awards."

Prof Monro's team, comprising Prof Dayong Jin from the University of Technology Sydney and Macquarie University and Prof Bradley Walsh from Minomic International and Macquarie University, were awarded for their Super Dots research into the 'world's smallest, brightest nano-flashlights finding a diseased needle in a haystack'. The work was done within the Australian Research Council Centre for Nanoscale Biophotonics.

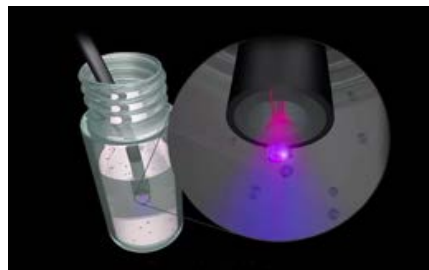
The world's smallest flashlights may be able to light up diseased cells in our bodies. These infected or cancerous cells may be hiding among



UniSA's Deputy Vice Chancellor: Research and Innovation, Professor Tanya Monro.

millions of healthy cells. The Super Dots team has created tiny crystals that can be implanted in the body to reveal the dangerous needle in a haystack.

The team has developed fluorescing nanocrystals that switch on at different times, shining an intense, short burst of light – just tens of millionths of a second – that will ultimately be able to reveal, within the body, diseased cells that previously would have had to be taken out of the body for analysis.



The Super Dots research in action.

This research will ultimately allow real-time diagnosis of disease, as well as having potential for creating invisible, lifetime-coded inks that could add uncrackable security to banknotes and passports.

Assoc Prof Bruno and his UniSA colleagues Dr Martin Belusko and Dr Steven Tay were awarded for their work in ‘freezing salt to store solar power’.

The team developed a new phase-change system that provides energy storage at up to a tenth of the cost of batteries. By solidifying and melting an inexpensive liquid salt solution, energy can be stored and released quickly and cheaply.

As well as extending the potential reach of renewable energy, the system also allows Australian produce companies to reduce multibillion-dollar refrigeration electricity costs by ‘charging’ the system (freezing the solution) during inexpensive off-peak hours and ‘discharging’ (melting) during expensive peak hours.



Dr Stephen Tay, Associate Professor Frank Bruno and Dr Martin Belusko at the awards ceremony.

The phase-change system resolves the mismatch between generation hours and electricity use, so that solar and wind power can form an even larger slice of the national generation grid.

In addition to Prof Monro and Assoc Prof Bruno’s wins, UniSA had a third finalist in the Eureka Prizes, which Prof Lloyd described as a “fantastic achievement”.

Associate Professor David Beattie was a finalist in the New South Wales Office of Environment and Heritage Eureka Prize for Environmental Research. His work focuses on finding benign chemicals that can substitute for currently used harmful chemicals in mineral flotation, a common form of mineral processing in Australia.

“Two separate Eureka wins and a third finalist is a great achievement for any university on a national scale,” Prof Lloyd said.

Both prizes came with \$10,000 prize money, but Assoc Prof Bruno said winning a Eureka was not about the money.

“It means we are finally recognised for the great research we have done over the years in the energy area at UniSA,” he said.

“It recognises us as leading researchers nationally, who can compete with top ranked universities in Australia.

“It will help us to spread the word about this technique for cheap energy storage, which will result in more installations of our commercialised product for refrigeration as well as further funding to extend this technology to other applications.

“Winning the Eureka Prize should also assist us to attract substantially more funding for developing other exciting technologies which we have been waiting to initiate.”

Prof Monro said she was particularly thrilled to be part of the team that won the prize for Interdisciplinary Science, as this is a real area of focus for research at UniSA.

“At UniSA we take particular pride in working in problems inspired by the end-users of our research, and this typically results in research that straddles discipline boundaries,” Prof Monro said.

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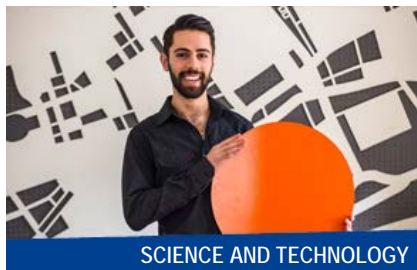
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**University of  
South Australia**

## Is overtime detrimental to your health?

[Back to story index](#)

by Kelly Stone



BUSINESS

Government and organisational policies should be strengthened to ensure employees are able to avoid working long hours, other than in case of emergency or exceptional circumstances, according to UniSA research.

Published in the *Asia Pacific Journal of Human Resources*, the research by UniSA's Dr Natalie Skinner and the University of Southern Queensland's Dr Erich Fein suggests industrial relations legislation should be strengthened to better protect workers, as long hours can have a detrimental effect on their health.

The researchers say a legislative loophole in Australia's National Employment Standards enables employers to circumvent the limit with 'reasonable' requests for longer hours beyond the 38 hour maximum hours set in the National Employment Standards.

"We need stronger provisions so that employees can only be requested to work more than 38 hours if there is an emergency or extraordinary situation," says Dr Skinner, a Senior Research Fellow at the Centre for Human Resource Management.

"In the absence of such legislation currently, human resource managers need to protect employees against the harmful health outcomes that might result from long work hours.

"Supervisors and managers should be trained to provide support for employees' work-life balance.

"This latest research adds further weight to evidence that long work hours are a risk to health and well-being."

Dr Skinner and Dr Fein's research paper, *Clarifying the effect of work hours on health through work-life conflict*, states long hours exert additional pressure on an employee without any financial benefits.

"One of the most common critiques of modern-day work is that it is overbearing, taking up too much time and energy, and negatively impacting on the well-being of individuals, families and communities," Dr Skinner says.

“Australian full-time workers put in some of the longest hours in the OECD, ranking sixth out of 28 OECD countries, and these extra hours are commonly contributed in unpaid overtime.”

Key points from the research paper are:

- Work-life conflict functions as a pathway through which work hours affect health.
- The relationship between work hours and work-life conflict is strongest for women.
- Regardless of parenting status, high work hours were associated with higher work-life conflict.
- The relationship between work-life conflict and overall health is strongest for women.

The study found that all workers – regardless of whether they were parents or not – experienced high work-life conflict from long working hours, and this in turn was associated with poor health outcomes.

“At present in Australia a statutory right to request a change in working arrangements, including a reduction in work hours, is only available to certain groups such as parents, carers and older workers or those with a disability,” Dr Skinner says.

“Our findings indicate a universal right to request a flexible work arrangement, such as reduced work hours, would be of benefit to the health and well-being of all working Australians, regardless of their personal circumstances, and that the current *Fair Work Act (2009)* should be revised accordingly.

“Not only would this be of significant benefit to employed Australians’ well-being, it would further encourage labour force participation, particularly for individuals with caring responsibilities.”

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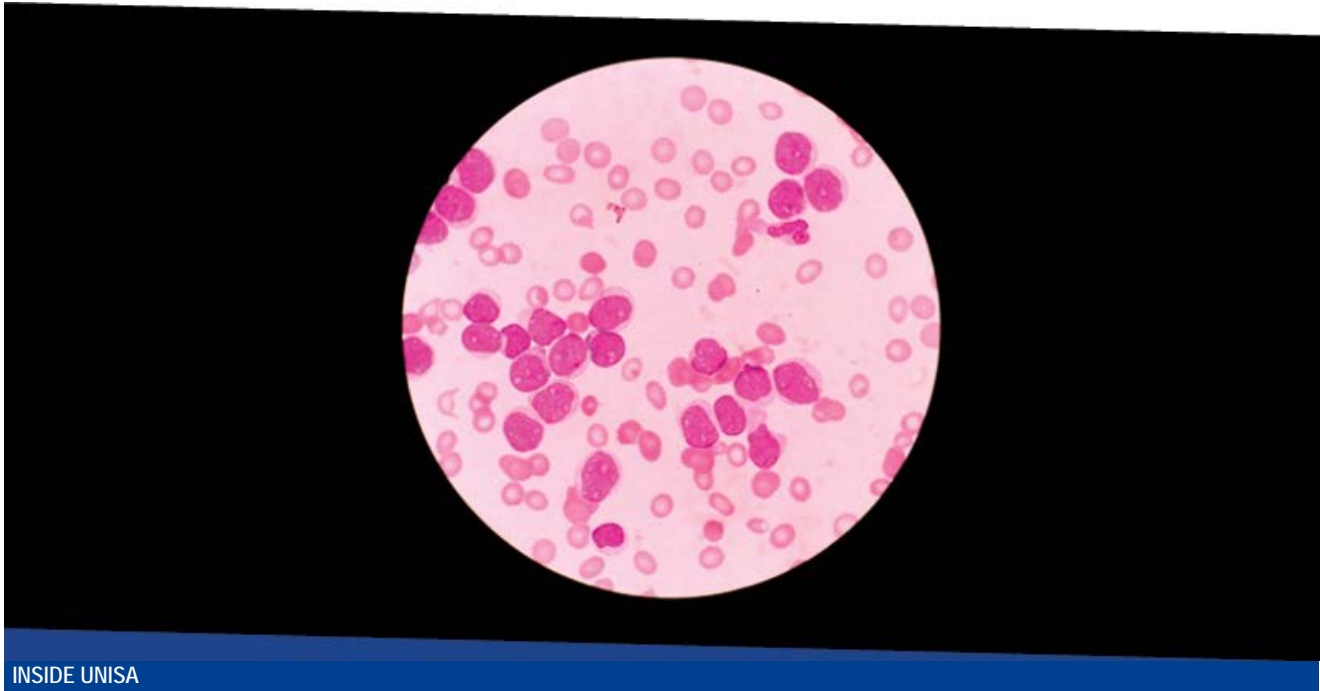
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## Stopwatch and spotlight on cancer research

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by Will Venn



Describing research into cancer biology and the energy production in cells would be a challenge for a PhD student to explain to their peers in a lecture hall over the course of an hour.

But to present that research in captivating fashion, to the wider public, in just 180 seconds demonstrates a level of skill that has led to PhD student Mahmoud Bassal becoming both the People's Choice and overall first prize winner in this year's UniSA Three Minute Thesis competition.

As one of nine PhD students taking part in the final, Mahmoud, of the School of Pharmacy and Medical Sciences, spoke easily on a research project that is anything but – studying genetic and metabolic changes in those with Acute Myeloid Leukaemia.

Adhering to the strict rules of the competition, Mahmoud conveyed his project within a three minute time frame with the aid of just one slide. His was one of a variety of PhD projects outlined in the competition, showcasing a range of topics, all aimed at finding solutions to real world issues.

Over the course of 30 minutes, those attending and voting in the competition could learn, among other subjects, how imaging techniques are enhancing robotic function, how blood vessel development relates to melanoma, what measures are being taken to solve the problem of fingerprint residue on touch screens and how acoustic tomography is adding to our understanding of the climate.

Mahmoud's talk demonstrated a clear passion for his research, and when prompted, he's happy to offer a one minute thesis of his topic.

"The current theory in the scientific community is that cells become cancerous as they gain random mutations in their DNA," Mahmoud says.

"We can see different mutations across different cancers and even within the same patients, while they have the



same disease.

“My research is looking at a trait that’s common across cancers, a change in how the cells produce their energy, but studying it specifically in Acute Myeloid Leukaemia.

“I’m characterising the different characteristics of patients’ samples to see how the energy production circuitry and machinery in the patients has changed. This will help us understand what came first – was it the mutations or the change in energy production in cells?

“By discerning whether it is mutations or change in energy production, it will change our understanding of how we perceive cancer, as to whether it’s a genetic disease or a metabolic disease.”

As to the importance of communicating research within such a blink-and-you’ll-miss-it format, Mahmoud is unequivocal.

“It’s essential,” he says.

“There’s so much incredible research at this University which is brilliant but because some of it is just so complicated it can be difficult to explain it to other people. When that happens it’s a missed opportunity and that is something which the Three Minute Thesis tackles.

“It’s an opportunity to translate back to more people the research you are involved in so they can understand what it is you are doing and the significance of it.

“I’m constantly having to change what I do at work to speak about it in manner that people understand, so to do it competitively is good fun, although a little nerve-wracking.

“In my younger days I was shy and told many times I couldn’t present well, so to win is a thumbs-up.”

UniSA’s Dean of Graduate Studies, Professor Pat Buckley, who hosted the event, says the Three Minute Thesis is one of the hardest talks PhD students can give.

“Communicating complex research in everyday language is a valuable skill and it’s a challenge to do that succinctly and compellingly, within three minutes,” Prof Buckley says.

“There isn’t the luxury of time, or a proliferation of slides and visual cues – just one slide. And the audience, whilst intelligent, is not directly involved with their research interests.”

Rising to the challenge, and with little evidence of any nerves, each candidate spoke fluidly on their topic, leaving the audience eager to learn more while offering a carousel of some of the most impressive and diverse research that is taking place within the University right now.

Bastian Stoehr’s talk about his PhD project which focuses on the next generation of easy-to-clean coatings for touch screens, resulted in him achieving second place in the competition whilst Daniel Griffith’s robotic-related research saw him take out the third prize.

Mahmoud will compete in the Trans-Tasman Three Minute Thesis at the University of Queensland next month.

This year’s Three Minute Thesis finalists were: Mahmoud Bassal from the School of Pharmacy and Medical Sciences; Ming Sum (Andy) Chan (School of Management); Daniel Griffiths (School of Engineering); Simone Marino (School of Communication, International Studies and Languages); Kevin Rogers (School of Engineering); Bastian Stoehr (Mawson Institute); Sarah Quinn (School of Education); Lih Yin Tan (School of Pharmacy and Medical Sciences); and Minhua Yang (School of Commerce).



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## Washington calling for winners of inaugural Innovation Challenge

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by Rosanna Galvin



COMMUNITY

High school students from Adelaide's northern and western suburbs have been battling it out on a journey of scientific discovery, all vying for the chance to win the ultimate trip – a fully paid study tour to Washington, DC. in the United States.

While all seven teams of high school students put in a great performance in UniSA's inaugural Innovation Challenge – a competition designed to encourage students to explore the subjects of Science, Technology, Engineering and Mathematics (STEM) – it was the team from Roma Mitchell Secondary College who won the coveted prize in an action-packed finale held last month.

Stammy Overall, mathematics teacher at Roma Mitchell Secondary College said the school was very excited to be involved in the first Innovation Challenge.

"The Innovation Challenge is a fantastic collaboration with the University, for students and their teachers alike," she said.

"Students can experience how higher order mathematics can be used in everyday life, with practical, real life project examples. Our students have been totally engaged with each challenge, it's really motivating for all."

Ryan Westell, STEM Leader at Ocean View College said that students grew enormously in confidence, problem solving, teamwork and cooperation, and developed much better communication skills through their



The winning team from Roma Mitchell Secondary College.

involvement in the challenge.

"I believe our involvement in the challenge has helped kick start the conversation about where we take STEM at Ocean View College," he said.

The Innovation Challenge, which kicked off in January this year, saw each team participate in a series of challenges conducted at their respective school, which included flying drones, urban planning, water sampling and using Arduino technology.

The high-pressure finale took place at Mawson Lakes campus, where teams – made up of six students from years 10 and 11, competed in four 'unseen' challenges in each STEM area under tight timeframes.

UniSA Connect worked with the 7 schools across 7 months and assisted teachers to develop curriculum links, provide technical support and work in the classrooms alongside teachers to support students' learning.

UniSA Connect Program Manager, Deb Turley said the Innovation Challenge had been a huge success and feedback from high school students and teachers alike had been overwhelmingly positive.

"Current trends indicate a significant increase in the number of jobs that will require STEM skills in South Australia by 2020," she said.

"When we designed the Innovation Challenge, we wanted to create something that would inspire students to explore the world of STEM and the opportunities that exist in the real world if they decide to pursue these fields in their future careers.

"What we hope the Innovation Challenge achieved is to encourage more students to consider higher order mathematics at secondary school level, and go on to obtain undergraduate qualifications in STEM related fields.

"We are really pleased with the outcome of the inaugural challenge – the students really embraced STEM and teachers are already asking whether the challenge will be happening again next year."

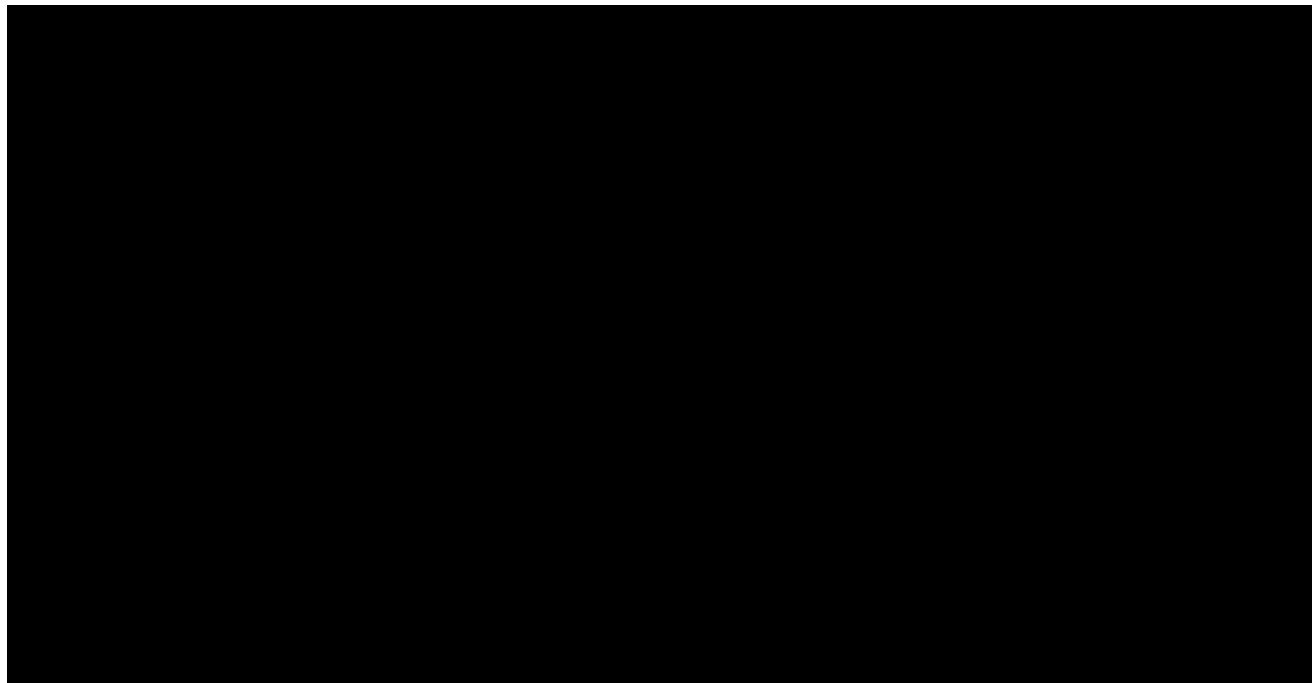
The schools involved in the challenge included Fremont-Elizabeth City High School, Gawler and District College, Mount Carmel College, Ocean View College, Para Hills High School, Roma Mitchell Secondary College and Valley View Secondary School.

The Innovation Challenge was funded by a grant from the Australian Government Department of Education and Training.

The Innovation Challenge is one of many UniSA Connect programs, which have engaged 5,500 secondary students so far this year. The programs give secondary school students the opportunity to connect with STEM subjects and career information.

For more information go to the UniSA Connect [website](#).

A video of the Innovation Challenge can be viewed below.





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University of  
South Australia

## Young leaders step onto the global stage

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by Rosanna Galvin and Yonna Taylor



COMMUNITY

Three of UniSA's aspiring frontrunners have travelled overseas this year to develop their leadership skills and network at a global level after being selected to attend two international student conferences.

Law and journalism double degree student Tom Edwards travelled to Prague for the 30th International Youth Leadership Conference in July while international relations student Vivian Rivera and law student Jordan Moulds spent the first week of August participating in the 6th University Scholars Leadership Symposium in Hong Kong.

For second year student, Tom, the conference in Prague was the first step in what he hopes will be an international career.

"As a law student, the conference taught me a lot about new proceedings, conventions and laws in relation to international law and how the United Nations and International Criminal Court operate," he says.

"The experience has driven me to consider international law as a possible career path. It has also inspired me to further my interests in international relations.

"In the future, I hope I might be able to apply for a position as an international correspondent, particularly in areas of conflict such as the Middle East."

The conference involved three main activities that replicated international governing bodies' proceedings, including a United Nations Security Council simulation, an International Criminal Court simulation and a European Parliament simulation.



Student Tom Edwards presenting at the 30th International Youth Leadership Conference in Prague.

During his time in Prague, Tom was one of only four delegates – out of pool of more than 50 students attending from around the world – selected to represent his country and talk to fellow delegates about Australia’s experiences as a developed nation.

On the other side of the world, students Vivian and Jordan were immersed in a unique out-of-the-classroom learning experience at the University Scholars Leadership Symposium in Hong Kong, where discussions focused on global humanitarian needs.

The students heard from a diverse range of speakers, including CEOs of some notable non-government organisations, on topics such as setting and achieving goals, facing fears, identifying the needs of disadvantaged communities and humanitarian work that is in progress.

Jordan says a highlight of the symposium was learning from the 900 delegates who were from 57 countries.

“Meeting people from such a variety of cultural backgrounds allowed us to learn about their daily lives and the struggles faced by people all around the world,” he says.

“The symposium also drew our attention to the increasing need for humanitarian action, and gave us the tools by which to effect such change in a meaningful and tangible way. It had a profound effect to motivate me to be the change in the world.”

Vivian agrees that the symposium has inspired her to take action in her own community.

“It has helped me envision my future in a more definitive way and I feel it will have a positive impact in my life as a student. I hope to translate the theories I have learnt into actions that can make a difference in my community,” she says.

UniSA International – Student Mobility supported Jordan and Vivian with full travel grants to attend the University Scholars Leadership Symposium while Tom’s trip was supported by the Business School.



Students Jordan Moulds and Vivian Rivera in Hong Kong.

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## Grand designs: students set sights on Chicago skyline

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by Kelly Stone



ART AND DESIGN

Photo courtesy of Daniel Perrone.

An impromptu question at the end of an architecture lecture has morphed into an amazing experience for 40 Art, Architecture and Design (AAD) students.

Associate Professor of Architecture, Thomas Mical, finished a lecture about Chicago – which is famed for its bold architecture and renowned museums such as the Art Institute – by asking the students who wanted to go to the city and see these buildings up close and personal, and everyone raised their hands.

Nine months later, 40 undergraduate and postgraduate students from across the School of AAD boarded a plane for a two-week study tour starting in Chicago and finishing in the Big Apple. They used experiential learning, site visits, and media documentation of their experiences.

“I said to the students you’ve only got two weeks in the United States, so you’re going to have to pack in as much as you can, and they did, both in their urban experiences, and in true US-style, even their eating,” Assoc Prof Mical says.

“It’s often stated that travel is the best education and this study tour was an incredibly dense saturation of stimuli. I’m really pleased that an almost joke question at the end of class turned out to be something pretty fantastic.”

So what’s so special about Chicago?

“Frank Sinatra famously said, ‘if it wasn’t for the weather, everyone would live in Chicago’, and he was right,” Assoc Prof Mical says.

“Chicago was the first American city to develop the skyscraper. It was one of the first cities to incorporate the principles of the 19th century beautiful city movement in its layout of beachfront, park space and the public realm.



“It’s a city based on a lot of urban pride in the quality of the built environment and the lifestyle. On top of that, it’s an incredibly handsome and photogenic city.”

Assoc Prof Mical says the study tour provided an “overwhelming experience” of seeing public art, public architecture and public spaces in both cities.

“Looking at public spaces was particularly interesting in New York City, where there are pressures around housing so a lot of people use the parks as their living rooms,” Assoc Prof Mical says.

“The students were amazed at how people would spend the day outside, in public spaces, in parks, in the city, and how people working in the skyscrapers would come down and eat their lunches in the park and then go back ... there was this really energised public realm with people accessing all the available amenities.

“The students spent a lot of time on foot and they made some accidental discoveries ducking down alleyways that made them rethink how cities could work or should work. We had a lot of discussions about how this could translate to Adelaide and how you get people to engage in the public realm more.”

Master of Architecture student Daniel Perrone completed his study tour research project on the design and use of public spaces.

“I was interested in documenting different spaces that encourage people to behave or use a space in a particular way,” Daniel says.

“The highlight for me was definitely visiting the High Line project in New York. The project is an old elevated railway that has been converted into a public urban park. It’s such a renowned project, especially among architecture and design students, so it was great to not only see it in the flesh, but to actually see how well it works and that so many people use it.”

Daniel says the study tour was an amazing experience that complimented what he had learned in class.

“When you experience a project in person, you automatically think back to what you studied, and really investigate how it works in practice,” he says.

“It also allows you to take a much closer look at different elements of a building, like the detailed craftsmanship of some of Frank Lloyd Wright’s buildings, or the level of design detailing in Mies van der Rohe’s Farnsworth House.

“You just can’t get that experience from pictures.”



Students explore public art and public space in the United States.

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**University of  
South Australia**

## Scholar brings scents of memory to Samstag

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by Vanessa Dingle



### ART AND DESIGN

Archie Moore *Les Eaux d'Amoore*, 2014, The Commercial Gallery, Sydney. Photo credit: Jessica Maurer. Image courtesy the artist and The Commercial Gallery, Sydney.

The Samstag Museum's latest exhibition is calling for visitors to bring their sense of smell for a truly interactive, sensory experience.

As part of the inaugural Festival of Contemporary Aboriginal and Torres Strait Islander Art, TARNANTHI, happening next month, Archie Moore's *Les Eaux d'Amoore* will take visitors on a journey through his memory, while at the same time encouraging people to consider their own.

Working with a master perfumer, the Queensland-based artist created a selection of beautifully presented 'perfume portraits' for *Les Eaux d'Amoore*. The exhibition is completed with an interactive perfume counter where visitors can spray and take away scent cards.

Moore, who was a 2001 Samstag Scholar, says the exhibition is a recollection of the diverse smells and experiences of his childhood in South East Queensland.

"For as long as I can remember I've wanted to do a show with smell and memory," he says.

"Several of my previous shows deal with memory, the fallibility of it, and how can we really be sure of anything when every bit of information is mediated."

Director of the Samstag Museum, Erica Green, says she is looking forward to welcoming Moore's work to the Samstag for the first time.

"It's exciting to host an exhibition from one of our Samstag Scholars and I have been fascinated to see Archie's intriguing work develop," she says.

"Fifteen years after receiving his Samstag scholarship, Archie remains an artist who combines an original and

quirky humour with wonderful experimental seriousness.

"He's a bit of a rebel. We were amazed, for example, back in 2001 when Archie chose to go to Prague to study for his Samstag year. It was totally out of left field and he showed with that choice a remarkable independence of mind.

"We'd not had anybody go to Prague before that, nor have we since; most Samstag Scholars head for the big art centres. But not Archie.

"I think that is Archie's great virtue – his originality; that he makes things that are both unexpected and different. Who would have thought perfume for a visual artist, but they are so elegant and compelling.

"Archie thinks very deeply about what he's doing, and invests something both magical and educational in his work. I love his obvious intelligence."

Running in conjunction with *Les Eaux d'Amoore* is the exhibition *Daniel Boyd: A Darker Shade of Dark #1-4*, an immersive video installation which explores the subjects of dark matter and our nation's history, by taking visitors on a cosmic journey.

Green says the Samstag is proud to be presenting two exhibitions as part of the inaugural TARNANTHI Festival, giving festival-goers a powerful and layered experience of sound, sight and aromas.

TARNANTHI Festival is being presented by the Art Gallery of South Australia in partnership with BHP Billiton supported by the Government of South Australia.

For more information on the two exhibitions, go to [unisa.edu.au/samstagmuseum](http://unisa.edu.au/samstagmuseum).

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## Synchronicity in UniSA partnership with UCL

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SCIENCE AND TECHNOLOGY

A partnership agreement that UniSA signed with University College London (UCL) earlier this year has brought a special synchronicity to the educational life of UniSA graduate, Peter Palmato.

With a double degree in Business (International Business, Finance and Trade) and International Relations from UniSA already under his belt, Palmato headed to UCL (Adelaide) to take on a specialist Master's degree in Energy and Resources Management.

The partnership, committing the two institutions to work together to develop teaching and research in South Australia, is something Palmato believes is great news for students.

"I'm absolutely thrilled – I loved my time at UniSA and it gave me a great foundation to study my Master's at UCL," Palmato says.

"The fact that the partnership has been signed makes me very happy and excited for what the Future Industries Institute (FII) will bring to South Australia."

FII is UniSA's new multi-million dollar research institute, focused on building knowledge and capacity in fields including minerals processing, advanced manufacturing, sustainable future energy production and protection, and care of the environment. The UCL partnership will play an important role in developing the institute into a global research powerhouse in the industries of tomorrow.

While the collaboration between UniSA and UCL is expected to include an industry-focused PhD program, joint curriculum development, student and staff exchange programs, public engagement and joint academic appointments, it was simply serendipitous that Palmato decided to pursue his Master's at UCL last year with hopes of igniting a career in consulting or the energy and resources industry.

"The Master's degree at UCL is multi-disciplinary which means you study a range of areas from economics, law, and geopolitics to social licensing and water resources management," he says.

"I've even studied an Energy Technology Perspectives course which gave me an insight into engineering; it was tough but I've learned a great deal.

"Having one of the world's best universities on our doorstep in Adelaide is fantastic, the fact that UniSA is now in partnership with them is even better."

Professor Magnus Nyden, former Director of UniSA's Ian Wark Research Institute who was seconded to the role of Head of the Department at UCL Australia, says Palmato is an example of the exciting developments that will come from the partnership.

"The world is in rapid change with renewable energy and resources growing and innovative solutions for low-carbon energy solutions emerging," he says.

"I believe the interface between all these solutions and challenges is an important and intellectually stimulating area and it will become even more important in the future.

"How are we best going to manage our mineral resources such as iron, copper and uranium? How are we best going to manage our energy resources like wind, oil, gas, solar and nuclear? What is the best balance for increasing jobs, business opportunities and our health in a sustainable South Australia, Australia and a sustainable world?

"Through this partnership, we are bringing world-class, dual hemisphere education and research opportunities to South Australia which means students from both London, Adelaide and beyond will benefit from truly innovative and unique degree programmes.

"Peter is pushing himself and applying his knowledge to a real-world, industry context. I am confident that this will put him head and shoulders above the competition in his chosen career path; whether he chooses to work in Adelaide or internationally.

"We are looking forward to welcoming future high performing UniSA graduates, like Peter, into our February 2016 cohort at UCL Australia."

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## Danger in the Past: An Evening with Robert Forster of The Go-Betweens

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by Will Venn



COMMUNITY

Robert Forster in action at the Hawke Research Institute event.

Musician, writer, and founding member of one of Australia's most endearing bands, Robert Forster is also one of pop's most eloquent players.

As the latest interviewee in the UniSA Hawke Celebrity Studies Series, Forster's most recent gig saw him appear on stage, in conversation with Director of the Hawke Research Institute, Professor Anthony Elliott, recalling a career of musical highlights while treating a 250-member strong audience to some acoustic gems from it.

Alongside Grant McLennan, Forster was a leading light of The Go-Betweens, a band whose nine album odyssey charted a course through the choppy post punk/new wave waters of the early 1980s to 2005's melodic swansong *Oceans Apart*.

Fresh and inventive, this was a band whose trail blazed far beyond the confines of Aussie pub rock and synth pop which characterised the musical landscape when they formed, in Brisbane, in the late 1970s.

By the time they relocated to the UK in the 1980s, romanticism, wit and literary nous had become the hallmarks of the McLennan/Forster song writing partnership which found musical echoes (most notably *Head Full of Steam*) in The Smiths, a band they once shared the same record label with.

Prof Elliott's forensic analysis of Forster's career provides a cultural barometer of The Go-Betweens' impact in place and time, while Forster's personal recollections add a poignant insight into a band which had the musical smarts to reach the big time – but sadly lacked the promotional budget to do so.

Living in London as the new romantic era and early alternative pop was taking off, The Go-Betweens are often mentioned in the same Spotify-ed breath as other 1980s indie stalwarts including Aztec Camera, Orange Juice,

The Birthday Party and previous Hawke Celebrity Studies' guest, Lloyd Cole.

Their cultural sway was probably at its most seismic during this period, loosely bookended by two great singles – the astounding *Cattle and Cane* of 1983's *Before Hollywood* and the breezy *Streets of Your Town* of *16 Lovers Lane* (1988).

The 12-year hiatus between their sixth and seventh album *The Friends of Rachel Worth* in 2000, was a period in which indie went mainstream, Britpop blossomed and Forster's wry observational vignettes helped shape a lyrical template for UK bands such as Pulp and Blur to go and run up the charts with.

McLennan's untimely death in 2006 signalled the end of the band, half way through a decade in which the critical plaudits flowed, despite commercial gain remaining elusive. A lack of top 10 success was never a bar though to stopping a band of The Go-Betweens' calibre from having a bridge named after them, as it was in their home city of Brisbane, in 2009.

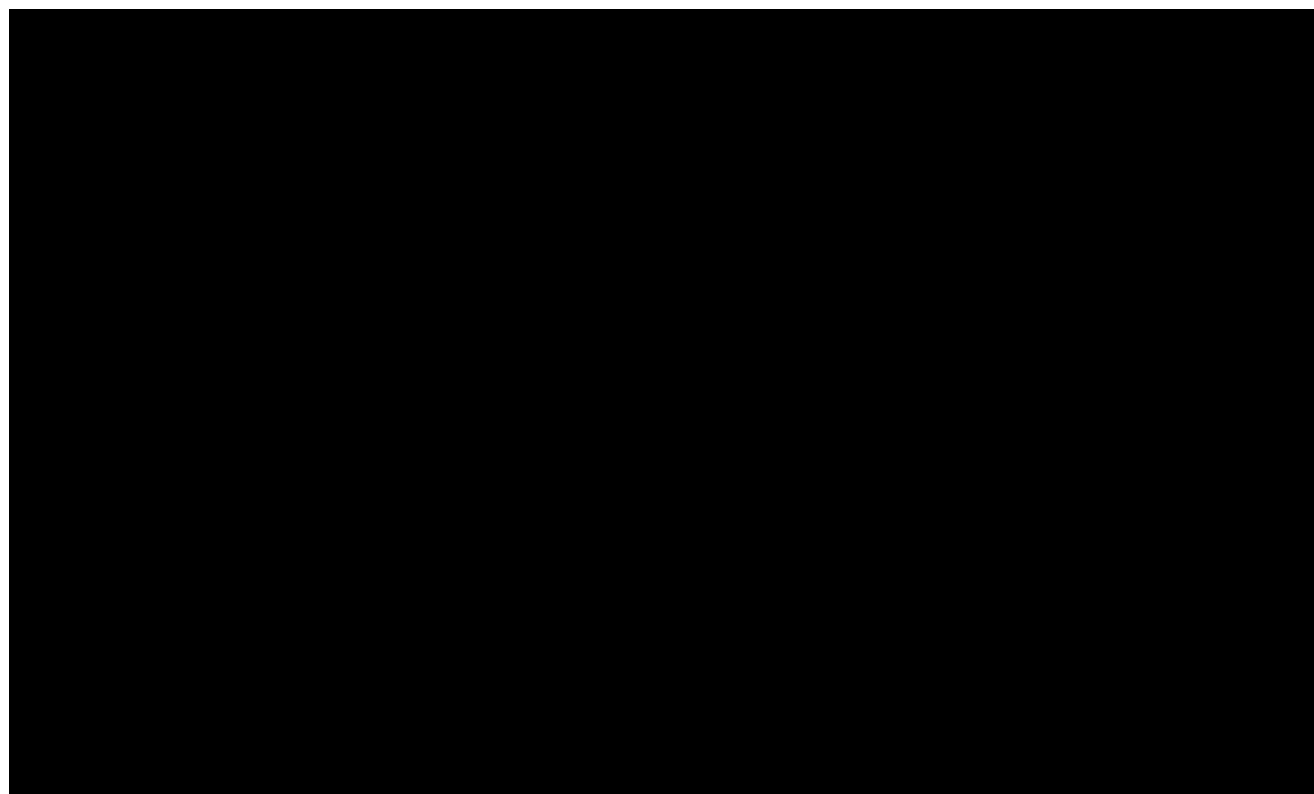
Why should The Go-Betweens and Forster still demand our attention though? Prof Elliott's description of Forster as: "Cool, charismatic, formidably intelligent and probably one of the most eccentric songwriters this country has ever produced", may be reason enough.

Musical legacy aside, Forster's Bowie-esque style career-reinvention which saw him become a celebrated and award winning writer, having started to pen articles for *The Monthly* at the tender age of 48, is alluded to by Prof Elliott as a source of hope for all those studying at university or in a career lull. In the new economy, resilience, motivation and adaptability – being able to develop new skills and branch out into new areas – are key to employability and continual relevance.

Such versatility is a hallmark of Forster's life; the last time he was in Adelaide was during festival season to perform in a new adaptation of rock opera *Tommy*.

This time he reveals that coming back to South Australia gives him the chance to seek out his favourite seat at a stall within one of the city's markets and indulge in a nice bowl of bircher muesli: a simple act and moment in a life marked by extraordinary moments and creative achievements.

You can watch the full event on the video below.



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**University of  
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## New Books

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### Re-enchanting Nationalisms: Rituals and Remembrances in a Postmodern Age

The way people engage with and remember national history may be changing shape but it remains an important element of society, according to a new book by UniSA researcher Dr Brad West.

While cultural attachment to founding moments and historical events in Western countries has declined in recent decades, the book *Re-Enchanting Nationalisms: Rituals and Remembrances in a Postmodern Age* argues that the demise might not continue as new rituals and rites arise, indicating the nation still has significance in a globalised world.



The book illustrates that these new rituals and rites are being developed through contemporary consumption, leisure and tourism – cornerstones of capitalist societies – with the potential to rejuvenate and strengthen national identity.

Dr West, Associate Head of UniSA's School of Communication, International Studies and Languages, points to the pilgrimage to Gallipoli, undertaken by thousands of Australian travellers, as an example of national identity being re-enchanted.

"Globalisation has actually led to new, transnational forms of commemoration such as the pilgrimage to Gallipoli," he says.

"This pilgrimage rite involves the act of visiting a site sacred within the history of the traveller's nation but which is located outside its sovereign territory. It's a new form of ritual based in tourism but it doesn't mean that it isn't culturally significant.

"Another example is the re-enacting of the American Civil War – one of the fastest growing leisure activities in the United States with an estimated 50,000 participants.

"While the cultural and political significance of this activity has so far been downplayed, I argue that this re-enactment is actually a new type of engagement with the nation that is quite influential, playing a role in motivating activism within new right-wing politics."

The book concludes that nationalism is not dead, and that the possibilities and limitations of contemporary nationalism demand serious consideration by academics, policy makers and the general public alike.

Published by Springer, *Re-enchanting Nationalism* is available for purchase from the publisher's [website](#).

### Applied Choice Analysis

Almost everything we do involves making a choice – whether it's what to eat for dinner, where to send our children to school or even the choice to not choose at all.

Choice modelling and analysis makes a fascinating field of research, which has developed significantly over the past 40 years, yet for the novice choice analyst much of the existing literature is too complex to understand.

That's where the book *Applied Choice Analysis* steps in. This year has seen a second edition of the title published – the first was in 2005 – giving beginners the chance to learn about the intriguing world of choice.



Written by UniSA's Professor John Rose and co-authors Professor William Greene from New York University

and Professor David Hensher from the University of Sydney and dedicated to beginners, the second edition of *Applied Choice Analysis* provides a comprehensive yet accessible overview of the latest methods and techniques in choice analysis.

“The first edition of the book was written to address a gap in choice analysis literature. This second edition has been revised to include the many new developments in the field since 2004, such as ordered choice, statistical tests and group decision making,” Prof Rose says.

“In addition, we have also listened to feedback and discussion prompted by the first edition and have rewritten most of the previous chapters to clarify points brought up by readers.

“This new edition also benefits from a range of case studies, which use an example of data that best illustrates the application of the choice models.”

Prof Rose is Co-Director: Research at UniSA’s Institute for Choice, a world-leading research facility that focuses on understanding and modelling human decision-making and choice behaviour.

Published by Cambridge University Press, *Applied Choice Analysis* is available for purchase at the publisher’s [website](#).

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August 31 to September 4 saw Multicultural Week being celebrated across UniSA's campuses. There were a variety of interactive activities and events including music and dance performances and language and art workshops to celebrate unity in diversity and cultures from around the world.

To view all the highlights from Multicultural Week on campus, go to the [Facebook album](#).

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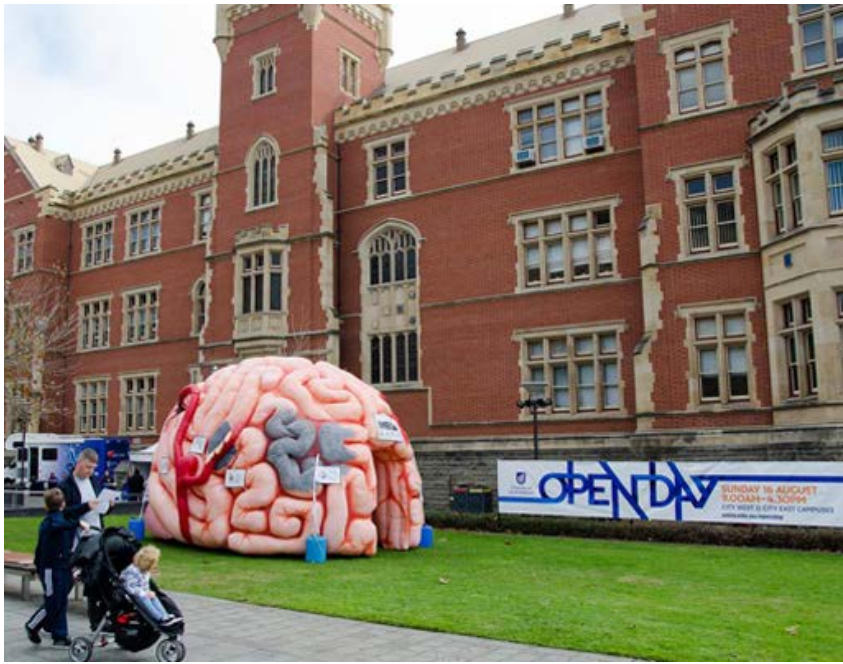


Congratulations to all our students who graduated in August.

To see more snaps of UniSA's latest graduates, go to the [Facebook album](#).

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UniSA opened up its City West and City East campuses on August 16 for its annual Open Day. At City East campus, the focus was on health with tours available of facilities such as the nutrition and dietetics hub, exercise environmental chamber and the High Performance and Exercise Physiology Clinic. Presentation overview videos are available on the Open Day [website](#).



UniSA Vice Chancellor, Professor David Lloyd, took part in the Ice Bucket Challenge last year for the Motor Neurone Disease Association of South Australia. He did it again this year and was joined by leaders from SA's other major research institutions.

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