

#### UniSANews

Archives Contacts Media Centre

UniSA Home

# University of South Australia UniSA News



### Leading scientist to become Deputy Vice Chancellor: Research and Innovation

Top Australian scientist Professor Tanya Monro is to become Deputy Vice Chancellor: Research and Innovation at UniSA from November. Full story...



# Water scarcity focus for UniSA's Future Fellow

UniSA has a new Future Fellow – Senior Research Fellow Dr Sarah Wheeler has been awarded the prestigious Australian Research Council (ARC) grant for her research into farmer behaviour in waterstressed basins.

> Read more

# Innovative UniSA designers respond to ageing population

Creating a new nurse call handset, specifically designed for aged care residents

August 2014

#### Corporate

- > From the Vice Chancellor
- Achievements and Announcements

#### Research

- Yoga to ease burden of stroke
- Do big stores know more about you than your family does?
- Mining and farming focus



living with arthritis, is the aim of a UniSA project team who have begun work at the Hills Innovation Centre in Adelaide.

> Read more



Can you die from a broken heart?

With symptoms the same as a heart attack, broken heart syndrome is a very real condition. A UniSA researcher has been delving into this puzzling condition.

> Read more

### Achievements and announcements

#### **Commonwealth Games success**

UniSA Bachelor of Human Movement student Matthew Glaetzer has finished the Commonwealth Games with Gold and Bronze medals in cycling.

#### UniSA scores a trio of tall poppies

Three of the University of South Australia's brightest young researchers have been recognised in the state's 2014 Tall Poppy Awards.

#### **UniSA scientist takes out People's Choice Award**

UniSA's Stephanie Reuter Lange has won the People's Choice Award at the SA Science Excellence Awards this month.

#### **Deadly Alumni launched at UniSA**

UniSA has launched South Australia's first Aboriginal and Torres Strait Islander Alumni Chapter, the *Deadly Alumni*.

#### **New Dean of Graduate Studies**

Professor Pat Buckley has been appointed to lead support and engagement for research students across UniSA as the new Dean of Graduate Studies.

#### SciCEd takes baton from Investigator

The development of UniSA's public science studio – SciencelCreativitylEducation Studio (SciCEd) – continues to progress with an iconic Adelaide attraction making a donation to the project.

#### UniSA wins top business award for innovation

UniSA has won an innovation award for last year's unijam event – a 38-hour online crowd-sourced collaboration for staff, students, alumni and friends.

#### UniSA researcher in new documentary

UniSA creativity expert Associate Professor David Cropley, has spread the word about creativity being a skill that can be taught and developed rather than something you're born with, during the popular *The Life Series*.

#### Indigenous perspectives symposium for university staff

UniSA will host a symposium this month to explore the relevance of teaching Indigenous perspectives in science, technology, engineering and maths (STEM).

for Catalyst Research Grant recipients

> A taste of sustainability

#### Community

- UniSA council member appointed SA's Chief Scientist
- UniSA duo compete against best in World Uni Champs
- > Students elect new leaders
- Graduate sets literary scene for kids

#### **New Books**

- Australia's first celebrity
- > Children as Citizens

### Useful links

- > Upcoming events
- Read past editions of UniSA News
- > UniSA job vacancies



#### **UniSA crowned SA Challenge Champions**

UniSA achieved a nail-biting win over rivals Adelaide and Flinders University in the final instalment of this year's annual intervarsity competition, the SA Challenge.

top^

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Home > Directory Results

# Search Results

Search

### All & , - 1 2 A B C D E F G H I J K L M N O P Q R S T U V W X Y

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# Filter search results

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# Schools/Divisions

927

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Business Services
Centre for Business Growth
Centre for Cancer Biology
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Communication, International Studies and Languages
Communications and Marketing
Division Office Research Eas
Education
Education Arts and Social Sciences Divisional Office
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Facilities Management Unit
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3.234

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Academic Staff Professional Staff





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Water scarcity focus for UniSA's Future Fellow



#### UniSANews

Archives

- Contacts
- Media Centre
- UniSA Home

# University of South Australia UniSA News

### August 2014

# Water scarcity focus for UniSA's Future Fellow

Back to story index

by Rachel Broadley



UniSA has a new Future Fellow – Senior Research Fellow Dr Sarah Wheeler (pictured above) has been awarded the prestigious Australian Research Council (ARC) grant for her research into farmer behaviour in water-stressed basins.

Dr Wheeler, who is based at UniSA's Centre for Regulation and Market Analysis, will receive the \$735,000 Future Fellowship funding over four years.

Dr Wheeler has spent the past decade working on agricultural and water issues. With a background in farming, she says she cares deeply about the issues affecting the rural farming community.

"Drought and policy reform have inflicted significant economic, social and personal stress upon Murray-Darling Basin rural communities," she said.

"Irrigators in Australia have faced declining water allocations, increases in water costs and large-scale government policy changes. Given the future risk of water scarcity and ongoing climate change, farmers around the



ARC CEO Professor Aidan Byrne; Minister for Education, the Hon. Christopher Pyne MP; Dr Sarah Wheeler; and UniSA Vice Chancellor Professor David Lloyd.

world, and especially irrigators, will need to plan for greater farm-level adaptation.

"There is evidence that psychological wellbeing is often adversely affected by the stresses of such circumstances. Rural suicide is up to one-third higher than urban suicide, and increases significantly in periods of drought.

"A detailed understanding of what contributes to farmers' physical and mental adaptive capacity is essential for governments to develop community-based solutions and strategies that address farmer capacity and aid farmer adaptation in the face of increased water scarcity. The project will seek to investigate the relationship between contextual water scarcity variables and rural suicide, using a variety of panel-data and cross-sectional econometric analysis.

"As a quantitative economist, I also want to know to what extent mal-adaptation consequences can be attributed to water scarcity issues, and what else is associated with other influences, for example, a declining terms of trade, reduced health and education services, or other socio-economic factors.

"The topic is concerned with understanding how farmers adapt and transform their behaviours in the face of water stress, so policy makers are positioned to expedite such change in order to minimise the economic and social (including health) costs of ongoing mal-adaptation. The research will allow the development of targeted policies to drive the most effective change in rural communities.

"I want to understand how we can increase adaptive capacity and reduce negative externalities, and make our communities more resilient."

UniSA Vice Chancellor Professor David Lloyd congratulated Dr Wheeler on the fellowship.

"ARC Future Fellowships are designed to support research in areas of critical national importance, and this is certainly the case with Dr Wheeler's work," Prof Lloyd said.

"This research is about identifying key insights and building solutions in partnership with the sector to ensure the future prosperity and growth of this vital part of the Australian story."

top^

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#### UniSANews

- Archives
- Contacts
- .....
- Media Centre
- UniSA Home

# University of South Australia UniSA News

# From the Vice Chancellor

Back to story index

August 2014



While we are all powering ahead and putting in place the actions that we co-created to transform UniSA into Australia's university of enterprise, spare a thought for the students about to enter university for the first time.

Actually you'll get to meet some of them at Open Day on August 17. You'll recognise them immediately: Year 12s about to encounter the uncertainties of young adulthood; or adult entry candidates who've decided to take a bold step to change the course of their lives.

They're facing a new environment and new expectations. On top of that is the uncertainty of not knowing how much their education will cost or how long they will need to pay off student debt. It's a big puzzle to people about to start a new chapter in their lives.

It's rather like heading overseas with just a passport and a new credit card with no spending limit. Exhilarating but with deferred terror at the same time.

We're doing the best we can to help: we're re-shaping UniSA so that the institution is nimble and focused and prepared to respond to local, national and global changes. We've reviewed the curriculum and refreshed our focus on those courses and programs that have the best chance of offering a fulfilling career. We are building industry alliances and relevant programs, infrastructure and amenities so that students get the best of new knowledge and new models of learning.

Professional search firms will tell you that new entrants to the workforce will have between five and seven different careers before they retire. I think that figure seems high, but it is evident that career change is inevitable at some point in a working life.

It is our responsibility to prepare students who are resilient and quick to take advantage of new opportunities so that their careers can give them the rewards they're seeking. That responsibility starts with us giving students all the support they need in their teaching and in their learning. We'll add to that responsibility the need to ensure that the financial burden, which we don't yet have a clear idea of, is not prohibitively high.

The people who choose to study at UniSA have already made a good choice. The education we provide them should give them the ability to continue to make good choices.

Professor David Lloyd Vice Chancellor and President

top^

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#### UniSANews

Archives Contacts Media Centre UniSA Home



# **Achievements and Announcements**

Back to story index

August 2014

#### **Commonwealth Games success**

UniSA Bachelor of Human Movement student Matthew Glaetzer (pictured right) has finished the Commonwealth Games with Gold and Bronze medals in cycling.

The 21-year-old won Gold in the men's keirin event and a Bronze medal with team mates Shane Perkins and Nathan Hart in the Men's Team Sprint.

Matthew says the cycling team is now focusing on the Olympic Games in Rio in 2016. Rio will be Matthew's second Olympic Games after competing in London where the men's cycling sprint team finished fourth.



Matthew Glaetzer before the Commonwealth Games.

Former Team UniSA-Australia cyclist (2009) in the Tour Down Under, Adelaide's Jack Bobridge, also claimed victory for the cycling team, winning two Gold medals – the first in the team pursuit and the second in the 4000 metres individual pursuit.

Bringing another medal home to Adelaide is UniSA alumna and physiotherapist Jessica Trengove who finished with a Bronze medal in the marathon at Glasgow.

Congratulations also goes to Bachelor of Public Relations student Sean Roberts who made the final of the T37 cerebral palsy 100m sprint. Sean, who made his international debut at the Commonwealth Games, finished sixth in the race.

Meanwhile earlier in the month at the Tour de France, Australia's Richie Porte was the top finishing Australian rider coming in at 23rd overall. Porte rode with Team UniSA-Australia in 2008.

#### UniSA scores a trio of tall poppies

Three of the University of South Australia's brightest young researchers have been recognised in the state's 2014 Tall Poppy Awards.

Dr Stephanie Reuter Lange, Dr Michael Short and Dr Margarita Tsiros were among eight researchers in South Australia to be named Tall Poppies, acknowledging not only their world-class research but also the important role they play in promoting science to the wider community.

Deputy Vice Chancellor and Vice President: Research and Innovation, Professor Richard Head says the Tall Poppy Awards celebrate the enterprising research taking place in South Australia and the young researchers driving it.

"The Tall Poppy Awards acknowledge the best young researchers on the rise, who are pushing the limits in the field of science and in doing so, contributing to the well-being and prosperity of our state. We are thrilled that three of these up-and-coming researchers are from UniSA," Prof Head says.

#### UniSA's Tall Poppy recipients are:

**Dr Stephanie Reuter Lange** (pictured right) is developing personalised treatments that ensure patients receive the right medication dosage which allows the drug to work effectively without negative side effects. Personalised treatments are particularly important in treating infectious diseases, as an overdose may produce toxicity while an underdose can lead to the development of drug-resistant 'superbugs'.

**Dr Michael Short** (pictured right) focuses on improving the environmental performance of industrial processes in the urban water industry. Working closely with industry partners, Dr Short has led a number of projects which have enhanced the environmental performance and costeffectiveness of the water industry, in areas such as water recycling operations and domestic hot water systems.

**Dr Margarita Tsiros** (pictured right) is examining whether obesity should be considered a childhood disability. With a background in physiotherapy, her research reveals obese children have lower physical well-being and face difficulties performing everyday tasks such as walking. Dr Tsiros is developing innovative approaches to increase physical activity and improve the well-being of these obese children.







Each year, the Tall Poppy Awards recognise the individual researchers who combine world-class research with a commitment to science communications.

#### UniSA scientist takes out People's Choice Award

UniSA's Stephanie Reuter Lange has won the People's Choice Award at the SA Science Excellence Awards this month.

A Clinical Research Fellow in the School of Pharmacy and Medical Sciences, Dr Reuter Lange's research examines how drugs are processed by the body and whether factors such as weight or age contribute to differences in the treatment response between patients.

Her work focuses on optimising the treatment of malaria and bacterial infections to maximise the therapeutic effect while minimising side effects and drug resistance.

Stephanie won the People's Choice convincingly with 5711 votes.

Fellow UniSA researcher Dr Reza Arablouei from the School of Engineering came in third with 1755 votes.



#### Deadly Alumni launched at UniSA

The Deadly Alumni artwork, designed by Jordan Lovegrove, a Ngarrinjeri young man from the South Australian coast.

UniSA has launched South Australia's first Aboriginal and Torres Strait Islander Alumni Chapter, the *Deadly Alumni*.

Some of Australia's leading community figures joined in the launch celebrations, including Dr Tom Calma AO, a UniSA alumnus and now Chancellor of the University of Canberra, who will be Patron of the Chapter.

Led by UniSA's Dean of Indigenous Scholarship, Engagement and Research, Professor Peter Buckskin, the initiative forms part of the University's commitment to becoming the Aboriginal and Torres Strait Islander

University of Choice.

"Our goal is that the Chapter will serve as a shining example of Aboriginal and Torres Strait Islander success and achievement and at the same time, offer a network of support for Indigenous graduates," Prof Buckskin says.

"The Chapter will build on UniSA's strong social inclusion agenda by engaging with and supporting Aboriginal and Torres Strait Islander students to connect with UniSA.

"We are really proud and pleased to have Dr Calma as our Patron because of his ongoing commitment to encouraging Aboriginal and Torres Strait Islander education and his personal connection to UniSA."

UniSA Vice Chancellor and President Professor David Lloyd endorsed the initiative as an important step in building a rich educational culture for UniSA's Aboriginal and Torres Strait Islander community.

"The UniSA Deadly Alumni Chapter will become a network that by its very nature reflects Aboriginal and Torres Strait Islander achievement," Prof Lloyd says.

"The foundation of the Chapter adds to a raft of initiatives at UniSA designed to celebrate and honour Aboriginal and Torres Strait Islander success and wisdom and encourage empowerment through education.

"I am delighted to see the new Chapter founded and look forward to learning from the experiences of our graduates about how the University can support more participation and high achievement in education in the Aboriginal and Torres Strait Islander community."

The new Chapter builds on the University's Reconciliation Action Plan – a measurable set of actions to bring cultural change to the University. UniSA was the first university in Australia to make a formal commitment to reconciliation and embed it in its core values.

The Deadly Alumni Chapter goals are to provide opportunities for UniSA graduates to:

- network, reconnect and strengthen relationships with other Aboriginal and Torres Strait Islander graduates;
- attend events and meet well-known Aboriginal and Torres Strait Islander community leaders;
- enhance career opportunities;
- apply for graduate intern positions;
- access existing UniSA alumni benefits and services; and
- mentor Aboriginal and Torres Strait Islander secondary students.

The new Chapter is community partnered with the Tauondi Aboriginal Community College.

The formation of the Deadly Alumni Chapter at UniSA will involve Aboriginal and Torres Strait Islander university students in a supportive network and help graduates to develop a strong, professional network.

To become a member of the Deadly Alumni Chapter, please register/update your details here.

#### **New Dean of Graduate Studies**

Professor Pat Buckley (pictured right) has been appointed to lead support and engagement for research students across UniSA as the new Dean of Graduate Studies.

In her new role she will be responsible for developing a networked, engaged and supportive environment for students completing higher degrees by research.

Prof Buckley has been Director of the Sansom Institute for Health Research and Dean of Research in the Division of Health Sciences at UniSA, and has been a member of the University Council since 2011.

A biochemist-turned-physiologist, Prof Buckley has initiated and led many improvements in research training here and elsewhere. At UniSA, she also has led researcher development across the University, working closely with staff and students to enhance and support their research capacity.

Prof Buckley says she is pleased to be taking on such an important role in research at an exciting phase in the University's development.

"We have talented staff and students doing research at UniSA and ambitious plans for research education at the University," Prof Buckley says.

"I'm delighted to be taking on a leading role in that endeavour. What I want for our students is that they experience their postgraduate time with us as a meaningful, positive and inspiring basis for all their future career contributions."

#### SciCEd takes baton from Investigator

The development of UniSA's public science studio – **Sc**ience|**C**reativity|**Ed**ucation Studio (**SciCEd**) – continues to progress with an iconic Adelaide attraction making a donation to the project.

SciCEd will receive residual assets from the Investigator Science and Technology Centre, which ceased operations in 2006, providing means for UniSA students to act as Investigator Science and Technology interpreters.

SciCEd is being designed to transform public perceptions of science, technology and innovation by providing an interactive space for visitors to explore the wonders of science.



"I'm pleased we have received the support of the

Investigator Science and Technology Centre because of its strong history in promoting science and innovation," UniSA Vice Chancellor Professor David Lloyd says.

"We are eager to preserve the legacy and outreach objectives established by the Centre during its 15 year period as the State's premier science education centre.

"Bringing science and technology out of the labs and into the public realm can also play an important role in helping young people find that spark and drive to pursue careers in science and innovation.

"This is becoming increasingly important as we witness a decline in the number of students interested in studying science, technology, mathematics or engineering across the globe.

"As we move to a technology-based, innovation-dependent economy, the demand for these skills is greater than ever before so it is vital that we do everything we can to excite a passion for science and technology, especially in young people."

SciCEd will be located in a purpose-built facility integrated into UniSA's Health Innovation building as part of the North Terrace Health and Biomedical Precinct. Set to open late in 2017, plans for the facility include exhibition spaces, studios, a science café and science shop, collocated with the Hewlett Packard Innovation Centre.

Key partners involved in the SciCEd initiative include Foundation Technology Partner, Hewlett Packard, the Science Gallery International, RiAus, and Questacon.

#### UniSA wins top business award for innovation

UniSA has won an innovation award for last year's unijam event – a 38-hour online crowd-sourced collaboration for staff, students, alumni and friends.

UniSA Vice Chancellor Professor David Lloyd says he is delighted to see all the work that was put into unijam be recognised by winning the ABA 100 Award for Innovation at the recent Australian Business Awards.

The Australian Business Awards are a national, allencompassing awards program honouring Australia's business, innovation and technology leaders through the recognition of their ground-breaking vision, innovative



products and exemplary execution of projects, technologies, service, programs, systems and other initiatives.

Prof Lloyd says the award acknowledges the enormous amount of work that went into staging the event and the contribution people in the UniSA community made by participating.

"Among the remarkable data surrounding unjam across the 38 hours is that participants spent accumulated time of about 130 million seconds in conversation about education, teaching and research," Prof Lloyd says.

"That's about equal to 20 years work's worth of time focused on improving what we do and how we do it.

"Unijam gave us a comprehensive and instantaneous means to be able to identify and talk about the major issues of our University, then use our insights to co-create our new strategic action plan."

Prof Lloyd says unijam informed the development of the strategic plan, *Crossing the Horizon*, which is being rolled out over the next five years and gave the University a list of "quick wins" that staff and students had raised as high priority.

#### UniSA researcher in new documentary

UniSA creativity expert Associate Professor David Cropley, has spread the word about creativity being a skill that can be taught and developed rather than something you're born with, during the popular *The Life Series*.

In the creativity episode of *Life at 9* which aired on ABC1 this month, Assoc Prof Cropley conducted creativity tests for a group of nine-year-olds, who have been filmed since birth as the public face of a scientific and social study of 10,000 Australian children.



The Life Series poster. Image provided by ABC.

Assoc Prof Cropley says studies have shown there is a noticeable dip in creativity levels when children reach the age of nine, or in Year Four at school.

"There are various theories as to why this Year Four slump occurs and much of it is to do with the fact that around this age, children begin to be more conscious of conforming to expectations and standards at school," he says.

"On screen I gave each child some simple tests of creativity, and a problem requiring some creative thinking.

"Off screen I also tested each child with a more formal creativity test, both before we did any activities together and after I had worked with them. We wanted to see what their creativity was like in general, and whether or not it could improve with a relatively short intervention."

Despite a widely held belief that people are born creative, Assoc Prof Cropley says this is not always the case.

"It's important to remember that creativity isn't necessarily something that you're born with. It's something that can be taught and developed," he says.

"A theme of my involvement on the show was also to show that parents, for example, can do things at home to boost their children's creativity."

Life at 9 is available to view on ABC's iView.

#### Indigenous perspectives symposium for university staff

UniSA will host a symposium this month to explore the relevance of teaching Indigenous perspectives in science, technology, engineering and maths (STEM).

The Indigenous Content in STEM Symposium will be held at Mawson Lakes campus on August 26.

Indigenous Content and Service Learning Advisor from the Division of Information Technology, Engineering and the Environment Andrea Duff, says the symposium is for university staff who teach across STEM disciplines.

"Not only is the symposium aimed at the content specialists in these areas, but also at those who have an interest both in teaching, and teaching in the higher education sector," Duff says.

The symposium includes invited guests Dr Chris Matthews from Griffith University and Dr Jason Sharples from the University of New South Wales, along with UniSA panellists Professor Peter Buckskin, Professor Esther May, Professor Stanley Nangala, and Uncle Lewis O'Brien.

Earlier this year, the head of the Prime Minister's Indigenous Council, Warren Mundine criticised the embedding of Indigenous culture in all subjects, arguing that science, maths and physics should be taught without cultural perspectives.

The symposium will consider how the higher education sector positions itself to this statement in the context

of higher education.

To register go to the website and for all enquiries email here.

#### UniSA crowned SA Challenge Champions

UniSA achieved a nail-biting win over rivals Adelaide and Flinders University in the final instalment of this year's annual intervarsity competition, the SA Challenge.

Heading into the winter half of the SA Challenge, UniSA were sitting just two points behind Adelaide University but cinched victory in a tight finish, ending up just 1.67 points ahead of Adelaide University to claim the trophy for the first time in four years.

In its 11th year and the biggest ever SA Challenge, UniSA claimed first places in six of the 12 sports, including lawn bowls, beach and indoor volleyball, tennis, badminton and table tennis.

UniSA took its biggest ever squad into this year's summer and winter events with 120 students, including state and national experienced athletes.

UniSA Sport Manager, Brad Breeding was thrilled with the win.

"It's a fantastic achievement from all of the students," Breeding said.

"No doubt having our biggest squad and competing in 11 of the 12 sports on offer this year was a key to success and a great sign of the growing pride and desire for students to represent UniSA."

top^

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#### UniSANews

- Archives
- Contacts
- Media Centre
- UniSA Home



# Yoga to ease burden of stroke

by Katrina Phelps

Back to story index



Dr Maarten Immink with study participant Nadia Moffatt. Reproduced with kind permission from the National Stroke Foundation.

Practising yoga could improve the emotional well-being and quality of life of people who are living with side effects from a stroke, according to UniSA research.

The study, which involved participants attending one yoga class a week for 10 weeks as well as practising daily at home, has particularly highlighted that yoga can have a positive impact on the mental health of stroke recovery patients.

UniSA Senior Lecturer in Human Movement, Dr Maarten Immink, who led the study, says while a common result of stroke is limited movement and sensation on one side of the body, there is also a high incidence of mood disorders.

"A person's state of mind, especially when recovering from a significant event like a stroke, can have a big impact on their overall well-being," Dr Immink says.

"It is very promising to have found that our study participants who practised yoga had improved physical function and memory-related quality of life and decreased anxiety."

Participants reported an increase in energy, confidence, concentration and reduced stress, along with feeling

more relaxed and calmer. Many cited that their sleep had improved, often because of the breathing and meditation techniques that they had learnt and could apply at bedtime.

The participants also reported degrees of greater sensations and of also being more aware of their bodies.

One participant reported that the yoga helped her to not let her 'able' side take over action in daily activities just because the 'able' side could do the action faster.

Dr Immink says this is an important finding as it is common in stroke survivors to allow the unaffected side to compensate in daily activity which leads to further loss of function in the affected side.

And while there were no measurable significant improvements in objective motor functions, the participants had a perceived improvement in the quality of their life associated with motor function.

"The fact that these participants felt markedly better after 10 weeks of yoga practice is very positive, and certainly deserves further investigation through a larger study," Dr Immink says.

This study was funded by a Small Project Grant from the National Stroke Foundation and undertaken by Dr Immink along with UniSA School of Health Sciences colleagues Associate Professor Susan Hillier and the late Dr John Petkov.

top^

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#### **UniSANews**

Archives

- Contacts
- Media Centre
- UniSA Home

# University of South Australia UniSA News August 2014

# Do big stores know more about you than Back to story index your family does?

by Will Venn



Technology has begun to play such a big role in retailing that sometimes big stores may know more about you than your own family does.

Take this case study. A father who walked into a Target store in America, demanding to see the manager, asked why the store was encouraging his teenage daughter to get pregnant by sending her coupons for baby items to the family home. He then later found out that his daughter was pregnant already but he didn't know about it.

It sounds like an urban myth - but it's a story that made news headlines in 2012, and it's one that Bill Page (pictured right), Senior Research Associate at the Ehrenberg-Bass Institute for Marketing Science, highlights. The assignment of a customer ID and the creation of data linked to that ID, amassed through customer survey responses, loyalty card data, credit card transactions and refunds, can build such a detailed picture of a store customer's life and behavior that marketing analytics can now predict and – perhaps a little more creepily - respond to major life changing events in their customers' lives.

Page says this is just the beginning though; the use of technology to capture a customer's data will revolutionise the way products are marketed and the way purchases are made.



"If you have an Apple store app on your iPhone, through the use of GPS and wi-fi it can determine when you are in an Apple store. You can then

purchase items by scanning them using your phone – and it will charge those items back to your iTunes account. It's a quick and easy transaction – convenience sells," Page says.

The philosophy of the Ehrenberg–Bass Institute is that marketing is a science, one that can be measured, predicted and explained, with research undertaken by the Institute creating new knowledge about how brands grow and buyers behave.

"Finding out what it is that people do in stores is a big deal: where they go, what they stop to look at, what they pick up and buy," Page says.

"Examples of technology being used in this area to collect that information, includes radio-frequency identification tracking – transponders on shopping trolleys that communicate to antennae around a store to determine how people navigate their way around the store. Bluetooth technology also does the same thing and it's there on mobile phones.

"It means that marketers know where people are going and how long they usually spend in a store. That information can be used to tailor the environment within stores, so that items people want to buy are in the places they go."

It can also alter the way people buy products; hence the success of banana vending machines.

"Combining big data and looking at transaction logs, the most commonly purchased items are milk and bananas," Page says.

Bananas are a big thing – people walk in, buy just one and walk out. So having bananas at the front of the shop or in a vending machine just makes it easy again for people to buy."

This rings true considering the recent success of Mackays Bananas' Banana Bar vending machines in Brisbane. The franchise, launched in 2013, is expanding - the most recent vending machines being placed in the Royal Brisbane and Women's Hospital – a 24 hour workplace with more than 7000 staff.

From banana vending machines, to paywave soft drink vending machines to Penfold's quality wine-by-the glass vending machines, Page says technology can be used to both identify consumer habits and deliver products in new ways, in sync with 24 hour lifestyles.

Convenience sells but does it come at the cost of privacy?

The use of cameras and sensors in shopping displays which reveal how many times shoppers actually stop and look at those displays is a practice still in its infancy, Page says. But in the online world it's already commonplace, not least through the use of cookies and the creation of tailored ads in response to online browsing habits.

Biometric measurements which track people's heart rate and emotional states and which in turn can tailor adverts using that profiling were once the domain of sci-fi blockbusters such as *Minority Report*, a film set in the year 2050. Yet Xbox technology in 2014 is not so far wide of that mark.

"The new Xbox consumer technology can detect minute changes in skin tone and facial expression to work out emotion and arousal," Page says.

"It knows what you are watching as you plug it into your TV and potentially it can send data back to advertisers – including how many people are in the room – using facial recognition."

Page makes the point that a lot of the information companies have about us, we have actually provided ourselves, for example through the use of Facebook, Google, the apps we download, or the store cards we hold. The question as to how much consent we provide for the use of our personal data and what happens to that data, outside of creating tailored marketing opportunities, is one that will no doubt intensify as technology advances and the privacy debate continues.

top^

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#### UniSANews

- Archives
- Contacts
- Media Centre
- UniSA Home



# Mining and farming focus for Catalyst Research Grant recipients

Back to story index

by Katrina Phelps



Drs Wing-Yin Tong, James Ward and Lorena Del Castillo.

Mineral processing, the fertility of cows and reusing water and nutrients from the aquaculture industry for use in the horticultural industry will be the research focus for three UniSA researchers who have won State Government Catalyst Research Grants, worth \$30,000 each.

The three UniSA researchers are among six recent South Australian PhD recipients to share in \$172,500 from the program.

South Australia's former Chief Scientist, Professor Don Bursill, says the grants boost collaboration between researchers, government, local businesses and industry.

"Through these grants, we are supporting greater alliances with industry and local businesses to find

solutions for complex problems that are relevant to our State's strategic priorities," Prof Bursill says.

UniSA's three recipients are Dr Lorena Del Castillo from the Ian Wark Research Institute, Dr Wing-Yin Tong from the Mawson Institute and Dr James Ward from the School of Natural and Built Environments.

Research Associate Dr Del Castillo will use her \$30,000 for a smarter, more economical way of extracting minerals from the ground, to minimise the need for fine grinding and reducing energy consumption, water usage and pollution.

"Winning this grant means a lot to a recent PhD graduate like me," Dr Del Castillo says. "As it was my first grant application, winning it has definitely increased my self-confidence and has given me the additional boost I needed to continue pursuing one of my passions - doing scientific research.

"My PhD research was quite fundamental. It thrills me now to be able to have support for an applied research topic that is of direct benefit to the State.

"My current research is in the area of mineral processing, in close collaboration with the State's biggest mining company, BHP Billiton.

"All the financial and in-kind support I am receiving from this grant will enable me to conduct my research into the background of so-called mineral leaching, attend professional development courses, and go to conferences to share my research with fellow researchers - all this will further my scientific career."

Research Associate Dr Tong will use his \$30,000 grant to develop a sensor for dairy cows, alerting dairy farmers to the cows' fertility cycle and thereby improving the timing and success of breeding.

Dr Tong says he is honoured to be awarded one of the grants.

"I am happy to know that the research I am conducting receives recognition from the industry and the community, and it is addressing a need of society," Dr Tong says.

"Translational research always challenges us to overcome technical barriers, to deal with areas that are not yet answered by basic research, and to make breakthroughs, all in a short period of time.

"This Catalyst grant really helps by giving us more flexibility in resources, such that we could test out more ideas, and make a breakthrough in a shorter time.

"As an early career researcher, there is also a pressure for me to sharpen my research skills and to build up my track record. This grant will provide me with more resources to do more in-depth experiments."

Dr Tong says the project is a team effort and thanks his research team-mate Dr Martin Sweetman and his supervisor Professor Nico Voelcker for their considerable input into the project.

Meanwhile, Water and Environmental Engineering Lecturer Dr Ward, will use his \$30,000 grant to investigate a cost-effective way of reusing water and nutrients from the aquaculture industry for use in the horticultural industry.

"The Catalyst Research Grant will fundamentally transform my research from theory into application," Dr Ward says.

"With the grant, we will develop a state-of-the-art field site for testing integrated aquaculture and horticulture systems.

"The grant will be spent building lasting infrastructure to test water-and nutrient-efficient food production techniques, suitable for a variety of scales of operation.

"I am thrilled to receive this grant; it is a fantastic opportunity and I am extremely grateful for the financial support from both the University and the Premier's Research and Industry Fund, as well as in-kind support from our amazing industry partners (City of Salisbury and Aquaponic Solutions)."

top^

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MEDIA RELEASE	
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#### **UniSANews**

Archives

Contacts

Media Centre

**UniSA Home** 

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#### 2016

July June May April March February January

#### **Older issues**

#### 2015

December November October September August July June May April March February

2011

December

November

September

October

August

July

June

May

April

March

February

#### 2014 December November October

September

August

July

June

May

March

February

January

2010

December

November

September

October

August

July

June

May

April

March

February

#### 2013

December November October AugustSeptember July June May April FebMarch Summer Edition

# 2009

Summer October September August June May April February-March

### 2012

December November October Jeffrey Smart August/September July June May April March February

#### 2008

Summer October September August June May April February-March

#### 2007

Summer Edition November September August 2006 Nov/Dec October September August

#### 2005

November October September August

#### 2004

Nov/Dec October September August

http://w3.unisa.edu.au/unisanews/archives.asp[2/09/2016, 10:46:40 AM]

June May April February	July June May April February	July June May April February	July June May April February
2003 Nov/Dec October September August July May April March February	2002 Nov/Dec October September August July May April March February	2001 Nov/Dec October September August July June May April March February	2000 December

#### top^

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#### **UniSANews**

Archives

Contacts

Media Centre

**UniSA Home** 

### **Contacts**

Editor Rosanna Galvin , ph (08) 8302 0578

Web author Edmund Boey

**Graphic designer** Alison Albanese, ph (08) 8302 0028

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top^

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#### > View mo



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# Media Contacts

Michèle Nardelli Manager News and Media Ph: (08) 8302 0966 Mobile: 0418 823 673 Email: michele.nardelli@unisa.edu.au

Katrina McLachlan Media Liaison Coordinator Ph: (08) 8302 0961 Mobile: 0414 972 537 Email: katrina.mclachlan@unisa.edu.au

Will Venn Media Liaison Officer Ph: (08) 8302 0096 Mobile: 0401 366 054 Email: will.venn@unisa.edu.au

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Top Australian scientist to lead research at UniSA



#### UniSANews

Archives

- Contacts
- Media Centre
- UniSA Home

# University of South Australia UniSA News



## Leading scientist to become Deputy Vice Back to story index Chancellor: Research and Innovation

by Michèle Nardelli



Top Australian scientist Professor Tanya Monro is to become Deputy Vice Chancellor: Research and Innovation at UniSA from November.

As one of the country's leading physicists, Prof Monro will join the University from her position as Director of the Australian Research Council (ARC) Centre of Excellence in Nanoscale BioPhotonics and of the Institute for Photonics and Advanced Sensing at the University of Adelaide.

As well as authoring more than 500 journal and research articles, Prof Monro also holds an ARC Georgina Sweet Laureate Fellowship. In 2011 Prof Monro was named Australian of the Year, South Australia and a year later she became a Pawsey Medal recipient for outstanding research in physics, awarded to researchers under the age of 40.

The National Youth Science Forum also announced this month that Prof Monro will take up the position of Chair of its governing Council.

Prof Monro's work in optical physics has led to the development of new forms of optical fibres for use in telecommunications, biology, health, food and wine production and the environmental monitoring and

defence industries.

Prof Monro says that building on the University's research strengths will be a key aim of her new role.

"UniSA clearly prioritises research focused on economic outcomes and supporting the needs of industry, and this aligns well with my passion for research that makes a difference," Prof Monro says.

"I understand the ingredients required to create and nurture excellence in research and I really look forward to working with researchers at UniSA to strengthen the University's capacity to deliver high quality research outcomes for the benefit of the community and the local and national economies.

"My vision is to build on and extend the University's research strengths that will increase our capacity to attract a diverse range of high-calibre students and seed job creation in South Australia."

Vice Chancellor Professor David Lloyd says he is delighted to welcome a scientist and leader of her standing to UniSA.

"Tanya is one of Australia's most highly recognised scientists and a model of the drive and vigour that characterises the next generation of Australian research," Prof Lloyd says.

"The quality of her work is internationally recognised and her proven capacity to work with industry and to form partnerships and collaborations to bring forward new knowledge and solutions will be an asset to our institution as we build Australia's university of enterprise."

top^

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#### UniSANews

Archives

- Contacts
- Media Centre
- UniSA Home



# Innovative UniSA designers respond to Back to story index ageing population

by Will Venn



Robert White (left) and Daniel Weiss.

Creating a new nurse call handset, specifically designed for aged care residents living with arthritis, is the aim of a UniSA project team who have begun work at the Hills Innovation Centre in Adelaide.

The prototype handset is set to be the first fruit of UniSA's new partnership with Hills Limited which has led to the creation of two new innovation centres, where new technological products are due to be designed for use across aged care, health and safety industries.

UniSA industrial design graduates, Robert White and Daniel Weiss (pictured above), together with industrial design lecturers Dr Peter Schumacher and Sandy Walker, are heading up the design team and are currently in the research stage of the 12-week project.

"A nurse call - or 'pendant' button, is often not suitable in aged care facilities for people who have arthritic

conditions and may not have the dexterity or ability to use their thumb to push that button," says Robert.

"So we are now researching and learning everything we can learn about arthritis and hand-held devices for people with arthritis. We are talking to specialists, as well as learning about nurse call systems and how they are used, to gain knowledge which will be essential for developing an appropriate design."

Using technologically advanced design equipment, including a 3D printer, the team have begun by creating hand grips which provide physical and visual feedback of how people intuitively use their hands in picking up and holding items.

"We are following a new product development process, from the detailed brief to the research phase to product



The hand grips that have been created as a first step in the project.

development, and we hope to have a prototype created within a few months," says Robert.

For Daniel Weiss, the opportunity to create the product reflected a wider consideration that as more people live longer lives, they will require products relevant to their physical condition.

"We are an ageing population so there is going to be an increasing need for products to be more useable as we get older," Daniel says.

"The world today is more designed for younger generations but as these generations age the technology and the way we build things around us is going to have to adapt enormously – within that there's a huge opportunity for new products."

Dr Schumacher, Program Director of Industrial Design at UniSA, says the project is a golden opportunity to have the team working out of the new innovation centre.

"This innovation centre has the tools to enable the team to go through the design process to validation," Dr Schumacher says.

"The technology enables people to create a design and have something built by the printer machine – which can simulate different material properties – within two hours, ready for testing. This turbocharges the process enabling more adventurous thinking and better validation of design.

Hills CEO Ted Pretty outlined the market value of the new product.

"The UniSA proposal brings together clever design and simple functionality to improve the quality of care and make it easier for those Australians living with arthritis to connect with the support and help they need," he says.

"The arthritis handset is the first project to go into our innovation centre with several more planned over the coming months. All of these projects have been identified as commercially and operationally viable with strong potential to go from the drawing board to the marketplace."

Sandy Walker, of UniSA's School of Art, Architecture and Design, says the collaboration between UniSA and Hills provides students with a bridge to gaining relevant employment.

"We have a long tradition of doing real projects with research partners but it is usually restricted by the academic year so we needed to develop a new model, one without timing restrictions," Walker says.

"Currently we have a three year undergraduate degree in project design, a one year graduate diploma or a two year Master's, on top of that this is an industrial design incubator – it can hopefully be a transition for recent graduates, such as Robert and Daniel, into employment to give them real life design experience in conjunction with organisations such as Hills."

Aspiring innovators and entrepreneurs interested in turning their ideas or projects into reality can apply to take part in the next Hills Pitch Day. Applications open on September 8. For more information, go to the Hills website.

top^

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#### UniSANews

Archives

- Contacts
- .....
- Media Centre
- UniSA Home



## Can you die from a broken heart?

by Rosanna Galvin

Back to story index



An elderly woman arrives home from the supermarket to find her husband dead on the kitchen floor. In shock, she drops her shopping bags and develops severe chest pain. By the time she arrives at the hospital, she is showing all the signs of a very large heart attack. Yet over the next few days, tests reveal there are no blockages in her arteries and within a couple of weeks, a scan shows her heart has fully recovered.

For UniSA researcher and clinical nurse Dr Angela Kucia (pictured right), this case – which happened nearly 25 years ago – was the first time she believes she came across Takotsubo cardiomyopathy, commonly referred to as broken heart syndrome.

Based at the School of Nursing and Midwifery, Dr Kucia has now been involved in investigating the condition, which was only discovered by Japanese researchers in the early 1990s, for several years.

"The condition causes part of the heart to not to contract properly," Dr Kucia says.



"The first recognised form showed a ballooning out at the bottom of the ventricle, whereas it should have been contracting up and inwards. We now know this can happen in any part of the heart in the left ventricle.

You're essentially losing the pumping action of the heart and you can develop a heart failure from it.

"The symptoms of Takotsubo cardiomyopathy are identical to that of a heart attack – you can't distinguish between the two initially. The only reason that you may suspect Takotsubo cardiomyopathy in the emergency department is if the patient has had an emotionally distressing event prior to the presentation.

"A diagnosis of Takotsubo can made if the patient has a coronary angiogram, but otherwise it may be two or three days when patients begin developing characteristic changes affecting the electrocardiogram, which gives you a clue that it might be Takotsubo cardiomyopathy rather than a heart attack."

When first discovered, the condition was regularly found in patients who had experienced a high level of emotional distress caused by a catastrophic event or situation. While a distressing event is no longer believed to be the only trigger for Takotsubo cardiomyopathy, Dr Kucia says stress still plays an important role.

"After the condition was first recognised, it was always found in patients who had had catastrophic experiences like death of a family member, robberies, bushfires, earthquakes or arguments with family – things that caused emotional stress," she says.

"But as time went on, we also started to see the condition in people with physical illnesses, such as those in intensive care who might have had an accident or have pneumonia. We now know that around one-third of people will get Takotsubo cardiomyopathy after an emotional event, one-third will get it after a physical illness and one-third will get it where we can't identify a cause at all – but they are often people who are prone to chronic stress.

"One way or another, it does appear that the condition is linked to underlying stress. For years, I think we have underestimated how much psychological stress impacts cardiac function and I hope we will examine these mechanisms more closely so we have a better understanding of how it all fits together."

The good news is that, providing there are no complications within the first 48 hours, patients with Takotsubo cardiomyopathy or broken heart syndrome will get better in almost all cases.

"If they survive the first 48 hours, they invariably get better and the heart actually recovers to absolutely normal function," Dr Kucia says.

"This can take anywhere between a few days to a couple of months but usually after about 10 days, everything returns to normal."

Dr Kucia says there is still a lot to learn about the condition and many questions remain unanswered.

"Sometimes I feel like it's a puzzle you can't solve," she says. "There is no preventative treatment at the moment because we still don't know the cause.

"We know the condition involves the stress hormones – but why it affects some people and not others and why it affects a certain part in the heart in some and a different part in others is still unknown."

So it appears the age-old adage 'no one dies from a broken heart' doesn't necessarily hold true. While it's fortunately unlikely, scientific evidence shows the physical heart can be severely damaged in times of heartache.

In addition to her role at UniSA, Dr Kucia has for some years worked with a cardiology research team led by Professor John Horowitz at the Queen Elizabeth Hospital. Dr Kucia's future research plans include research to examine the unexplained deaths of younger women to see whether there is a possibility their deaths might be related to Takotsubo cardiomyopathy, and she is also working with a team of researchers at the Lyell McEwin Hospital in researching Takotsubo cardiomyopathy in pregnancy.

top^

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#### **UniSANews**

Archives

- Contacts
- Media Centre
- UniSA Home



## A taste of sustainability

by Katrina Phelps

Back to story index

August 2014



UniSA researchers Dr Freya Higgins-Desbiolles (left) and Dr Gayathri Wijesinghe (right), with founder of Lentil as Anything café, Shanaka Fernando (middle).

A UniSA research project is discovering that there's much more to sustainable cafés and restaurants than an environmentally friendly building.

The 'a taste of sustainability' project being run by the Business School's School of Management will focus on 22 cafés and restaurants in Melbourne, London, Adelaide and Goolwa which are leading the sustainable eating movement.

Dr Freya Higgins-Desbiolles, Senior Lecturer in the School of Management who is leading the project, says the sustainable cafés they are looking at are ones that capture some key aspect of one or more of the three facets of sustainability underpinning the triple-bottom-line approach – economics, environment and social.

"The cafés we have selected for this project are exemplary in sustainability and demonstrate it to their stakeholders," says Dr Higgins-Desbiolles.

"The general aim of the project is to identify the ways that hospitality and tourism can contribute to radical change for sustainability.

"We are in a time of great challenges. We have a rise in populations and we have a finite environment. There are crises coming in food and in regards to who will get access to food and in particular, food that is healthy and nutritious.

"We are looking at cafés and how they can be a change agent for the future, and how these leading eateries have already contributed so we can learn from them."

Dr Higgins-Desbiolles says sustainable eateries took off in the 1980s resulting in sustainability ratings for restaurants soon following, such as the UK's Sustainable Restaurant Association. However, the project team's research so far suggests that the term sustainability is often reduced to a focus on environmental initiatives such as energy and waste reductions.

"We are trying to challenge this by illuminating social and economic factors in sustainable eateries and highlighting work by new social enterprises, workers' cooperatives and other innovative enterprises in this arena," Dr Higgins-Desbiolles says.

A pilot project with Stuart Gifford of Sarah's Sister's Sustainable Café, located in the Adelaide coastal suburb of Semaphore, has shown how cafés can play a role in educating consumers about sustainability.

"Sarah's Sister's incorporates a teaching aspect between the staff and clients. The eating experience shows how food can lead to more sustainable societies," Dr Higgins-Desbiolles says.

"Before this project, I wouldn't have thought of cafés as being a change agent but at Sarah's Sister's, we have a business owner who is very engaged in changing the society around him.

"The pilot project taught us that you can you can enjoy good food while creating more sustainable societies and environments, and that consumerism can be a practice of learning, well-being and enjoyment.

"And as we delve into this new project, we see that there can be layers of contributions to sustainability.

"For example, at Lentil as Anything in Melbourne, café staff includes volunteers who are asylum seekers and refugees so they encourage patrons to get to know them as a means of making people more accepting of refugees. At the same time, these volunteers gain qualifications and training that makes them employable. Thus profound social and economic change is fostered through a simple vegetarian restaurant that operates on a "pay as you feel" basis.

"Really exciting things are happening in this café space. It will be interesting to see how we can learn from these businesses that are leading the way."

The project has received \$20,000 in funding from the joint Le Cordon Bleu and UniSA School of Management Research Grant Scheme and, along with Dr Higgins-Desbiolles, is being worked on by Drs Aise Kim and Gayathri Wijesinghe and research assistants Drs Emily Moskwa (from the School of Natural and Built Environments) and Chris Krolikowski.

top^

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#### UniSANews

Archives Contacts

Media Centre

UniSA Home



## UniSA council member appointed SA's Back to story index Chief Scientist

#### by Kelly Stone

University of South Australia Vice Chancellor Professor David Lloyd has congratulated UniSA Council member and biotechnology expert Dr Leanna Read on being appointed South Australia's first female Chief Scientist.

Announced by Science Minister Gail Gago at the SA Science Excellence Awards, Dr Read's appointment to the role for a three-year term will see her become SA's public champion of science.

Dr Read brings to the role a wealth of executive, board and investment experience in technology-based industries. She is a member of Bio Angels which supports early-stage life sciences companies, chairs the Cooperative Research Centre for Cell Therapy Manufacturing and SA Strategic Plan Audit Committee, and is a member of the SA Economic Development Board, SA Premier's Science and Industry Council and Australian Academy of Technological Sciences and Engineering.

Dr Read says she is delighted to become the fourth Chief Scientist for South Australia.

"I'm looking forward to promoting the state's research capabilities and helping to strengthen the link between research and industry," she says.



Dr Read says while it's an important time for the SA economy, the uptake of science innovations by industry will be a key factor in the State's future prosperity.

"I am very much looking forward to working with our researchers, industry groups, Government and the wider community in this regard," she says.

Dr Read replaces water scientist Professor Don Bursill in the role. Prof Bursill is an Adjunct Professor with the University's Centre for Water Management and Reuse.

UniSA Vice Chancellor Prof Lloyd congratulated Dr Read on her appointment and thanked Prof Bursill for his work in elevating the State's research and innovation profile.

He says the University is proud to have both the incoming and outgoing Chief Scientists come from its ranks.

"Don has done a fantastic job in raising the research and innovation profile of South Australia, and I know Leanna will do a wonderful job in positioning SA as a leader in both research and in science education, while also working to commercialise innovative research," Prof Lloyd says.

top^

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#### UniSANews

Archives

- Contacts
- .....
- Media Centre
- **UniSA Home**



## UniSA duo compete against best in World Uni Champs

Back to story index

by Will Venn



UniSA student Belinda Lawford competing in orienteering.

Trekking across the Adelaide Hills, clocking up weekly distances of around 70km in fast times, is what it has made Health Sciences student Belinda Lawford (pictured above and right) a world-class competitor.

The cross country navigational ace is now making her biggest leap yet – to the Czech Republic where she will be one of two UniSA representatives to compete in the World University Championships this week (August 11-17).

Alongside UniSA alumna Lauren Gillis, Belinda is a member of the Australian university orienteering team



and she has been selected to compete in five different races at the Games.

"Orienteering involves cross country running but also the ability to navigate your way carefully around different courses. There are a series of checkpoints throughout

each course and you have an electronic device which registers key points that you have reached on that course," Belinda says.

"My parents were involved in orienteering and that's what got me interested and I began competing seriously when I was 15."

Competing in junior world championships has already taken Belinda as far afield as Sweden, Denmark, Poland and Italy, but competing in the World University Championships during a European summer will involve some acclimatising, as she explained to *UniSA News* before the Games.

"These World University Championships are the first international races I'm getting back into. I trained in Manchester at the start of August before going to Olomouc in the Czech Republic," Belinda says.

"It's going to be fairly warm over there, the forest will look completely different; being in Australia we are not entirely sure what the terrain looks like and the maps they use in Czech Republic – the mapping style really is quite different."

Training for the games has involved Belinda undertaking interval and repetition work-outs, as well as pounding her way through 22km runs across rough terrain, over rocks, through forests, and up and down hills.

Belinda says studying Health Science has also been a bonus.

"Studying human anatomy in my undergraduate degree has helped my own understanding about how the body works – the study and the training can complement each other," Belinda says.

Achieving successful race times in a series of races in Lithgow in the Blue Mountains in April resulted in Belinda being selected for the team.

Looking ahead, Belinda described how the five races will differ.

"The first race is a sprint – it will be around an urban area with buildings, then I'll be in a sprint relay in a team with three other Australians, then it's a long distance event in the bush – or European equivalent, then the individual sprint race and the final race will be a relay," she says.

"It's a bit daunting but I'm excited to be going and competing."

Belinda's team mate, Lauren Gillis (pictured right), who studied physiotherapy at UniSA, has chalked up wins across a dozen road races including state trail championships and a greenbelt half marathon, and has been training in the Swiss Alps, in Zermatt.

Brad Breeding, Manager of UniSA Sport, paid tribute to Lauren and Belinda's achievements.

"With 126 women from 32 countries competing in the Championships, it's a fantastic opportunity for both Belinda and Lauren to compete against the world's best," Breeding says.



"The Australian squad consists of four men and four women and for Belinda and Lauren to represent half of the Australian women's team is a fantastic achievement, of which they should be extremely proud.

"UniSA Sport is proud to be able to help support them through our World University Games Grant program. We wish them all the best at the Championships and congratulate them on being selected."

top^

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#### UniSANews

Archives

- Contacts
- Media Centre
- UniSA Home

## University of South Australia UniSA News

# Students elect new leaders

by Katrina Phelps

Back to story index

August 2014



A social work and international relations student who will lead the University of South Australia Students' Association (USASA) for 18 months, says her first month being the president has been a rollercoaster.

Lia Lawrie (pictured above), a third year student who is based at Magill campus, is enjoying the ride so far as she learns more about UniSA and how to help students.

"I truly want to understand how things are interconnected so that in turn, I can use what I know to improve how we can contribute to a better university experience for UniSA students," she says.

"There are three overarching goals that I want to accomplish in my presidency.

"The first acknowledges that last year USASA went through dramatic changes that in turn have become strong foundations. During my term as Student President, I want to continue working on those foundations to improve the governance of the organisation, so that USASA can provide even more services to students without losing any of our momentum.

"What I would also like to achieve in my term is a higher level of student engagement, whether this engagement comes from more students accessing the services we provide, or having students present at education rallies, or an even stronger, ongoing presence of clubs.

"My most profound goal as Student President is raising awareness of USASA. I want UniSA students to know

that USASA is there for them. And that their welfare, education, and campus life are our number one priority."

Joining Lia as elected student representatives for USASA are Jay Joseph as the Postgraduate Representative; Nikita Ahluwalia as the International Representative; and Kevin Palmer as the Aboriginal and Torres Strait Islander Representative.

At City East the representatives are Tyler Whitaker and Luke Rogers; at City West Vanessa Byrt-Trenorden and Gail Quiban; at Mawson Lakes Lauren Coppock and Jeffrey Johnstone; at Magill Louise Greaves and Anthony Hooper; at Mt Gambier Claudia Shelton; and at Whyalla Mitch Wilson.

The National Union of Students representatives are Anthony Hooper, Louise Greaves, Jordan Aburumman, Lia Lawrie, Rong Kun (Lenny) Ho, Stephen McCallum and Vanessa Byrt-Trenorden.

Meanwhile Thinh (Timmy) Pham was elected as Vice President of the Council of International Students Australia (CISA) in mid-July. CISA is the national peak student representative body for international students studying at the undergraduate, postgraduate, private college, TAFE, ELICOS and foundation level.

top^

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#### UniSANews

- Archives
- Contacts
- Media Centre
- UniSA Home



## Graduate sets literary scene for kids

Back to story index

by Rachel Broadley



Haze Sackey. Photo courtesy of the Echo Newspaper.

From the Bloomsbury group to the famous literary cafés of Paris, writers have long gathered together to hone their craft and exchange ideas, and now a UniSA graduate has brought a little of that literary scene to Two Wells.

Haze Sackey (pictured above), who is working as a teacher after recently graduating with a Master of Teaching, says she saw the potential for a junior writers' club in her home town of Two Wells, about 40km north of Adelaide.

"Two Wells has a rich sporting community but not really any academic clubs for young people, so I thought I would see if I could use some of the skills gained in my Bachelor of Arts in Writing and Creative Communication and subsequent Master's in teaching to add that dimension," she says.

"The Two Wells Young Writers' Club is for eight to 16-year-olds to come along and share their stories and work on their skills.

"There's been a great response from the Mallala council, which is looking to purchase iPads and laptops and has given us space to use at the library.

"The council has also bought us tables and chairs, and provided pens and notepads, complete with a logo I designed.

"Before completing my studies, I wouldn't have even thought of starting a club for writers as I wouldn't have thought I had the skills to run a club.

"My first degree gave me the knowledge I needed and then my Master's degree has given me the confidence to be able to teach a class of mixed abilities."

UniSA Lecturer and expert in writing and publishing for young people, Dr Sue Page says writers' clubs offer a multitude of benefits for aspiring young writers.

"Writing can be isolating, so being part of community is a benefit, as is having set deadlines to make sure that your writing doesn't fall by the wayside," Dr Page says.

"It's also a way of fast-tracking learning and seeing how others do things, for example seeing how characters develop from one draft to the next.

"As a writer, you are in touch with people who love what you love, which can really spark enthusiasm, and coming into contact with different genres and styles can open up your reading which can, in turn, help you to develop as a writer.

"Sport is often seen as a way of developing discipline and team spirit for young people, but there's no reason that writing groups can't do just the same – and more. Fostering imagination and creativity, working together, improving reading and writing skills – and having fun."

The Two Wells Young Writers' Club opens in mid-August. For more information, contact Haze at hsackey@bigpond.com.

top^

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#### UniSANews

Archives Contacts Media Centre UniSA Home



#### August 2014

## **New Books**

#### Australia's first celebrity

In a new book looking at the travels Down Under of Anthony Trollope, one of the Victorian era's greatest authors, UniSA's Dr Nigel Starck reveals that the cult of celebrity was alive and well in Australia in the 1870s.

Dr Starck's book, *The First Celebrity: Anthony Trollope's Australasian Odyssey*, highlights that when the prolific 19th century author visited, he was the first celebrity in popular culture to tour the Australasian colonies.

"Trollope was an extremely popular author and the most prolific novelist of his time, so people were excited that he was touring and hopeful he would take away a good impression of the colonies," says Dr Starck, Adjunct Senior Lecturer in UniSA's School of Communication, International Studies and Languages.

"His 1871 voyage on Brunel's liner SS Great Britain took him 64 days and his journey resulted in a volume about Australia and New Zealand that was applauded by *The Times* of London but widely criticised in the colonial press.

"Trollope accused Australians and New Zealanders alike of being braggarts, a charge that provoked a savage response from local newspapers.

"His journey from 1871 and 1872 was the toughest he would endure in his worldwide adventures.

"The mix of acclamation and condemnation that Trollope provoked, his encounters with gold prospectors, Indigenous Australians and New Zealanders, pioneers and convicts all feature in the book."

With the bicentenary of Trollope's birth to be celebrated in 2015, publishing houses are lining up to assess his long and productive career.

*The First Celebrity: Anthony Trollope's Australasian Odyssey* supplies a fresh reflection on what Trollope saw and wrote. The book is published by Lansdown Media (RRP \$29.95).

#### Children as Citizens

How can we engage children more and make their opinions count towards the way our society develops?

A new book, *Children as Citizens*, which has been launched at UniSA's Magill campus by Dr Norman Gillespie, CEO of UNICEF Australia and Megan Mitchell, National Children's Commissioner, provides some clear answers.

#### Back to story index



Authored by Professor Pauline Harris, who holds the Lillian de Lissa Chair in Early Childhood (Research), and Harry Manatakis, Principal Policy Adviser in the Department for Education and Child Development, the book details exactly how children, from as young as three years, can and should play a valuable role in helping to shape the world around them.

It explains how the views of hundreds of children were amassed and considered during the formulation of South Australia's State Strategic Plan, and places centre stage the theme of children's rights.



Prof Harris says the right for children to have a say on decisions

affecting their lives is one which is already enshrined in Article 12 of the United Nations Convention on the Rights of the Child.

"Engaging children and enabling them to influence decisions is also part of helping them to learn what it is to be an active engaged citizen, it develops a child's sense of belonging, it promotes social and emotional well being," Prof Harris says.

"This book tells the story of how, through a six stage process, through collaboration and engagement with hundreds of children across South Australia, we could register what children were telling us and could track how their views have influenced the SA State Strategic plan.

"The book signals a change of thinking that is happening now about how children, even young children might influence policy and shape practices that arise that relate to them."

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RESEARCH PARTNER **NEWS & EVENTS** STUDY

Home > Calendar

# Calendar

Chemotherapyinduced mucosal barrier injury

2 September 2016

Professor and Dean: Academic within the Division of Health Sciences at the University of South Australia, Rachel graduated with a PhD in Medicine at the University of Adelaide having studied the...



Find out more

## Current Events



#### Upcoming events in India 23 July - 8 September 2016

Find out about studying at the University of South Australia and living in Adelaide.

05 AUG 03 SEP

Upcoming events in **Australia** 

05 August - 3 September 2016

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## Upcoming events

View:

September 2016 (14 Events)



Chemotherapyinduced mucosal



Upcoming events in Norway



Minimise

Upcoming events in Sri Lanka



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## View events by

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Event type	
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Future Students	
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Hawke Research Institute	
Postgrad	
Public Events	
Research	
Sansom Institute	
UniSA Students	
UniSA's 25th Birthday	
ICT Innovation & Collaboration Centre	

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Education, Arts and Social **Sciences** 

**Health Sciences** 

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#### **barrier injury** 2 September 2016

Professor and Dean: Academic within the Division of Health Sciences at the University of South...



#### Upcoming events in Myanmar

#### 07 September - 11 September 2016

Find out about studying at the University of South Australia and living in Adelaide.



# The Futures of Waste - Keynote Address 8 September 2016

The role of sustainability and materials in the new innovation economy: Green Materials from Waste...



#### 2016 UniSA Nelson Mandela Lecture 15 September 2016

Discover a wealth of a different kind with Geraldine Cox AM



5 September 2016 Find out about studying at the

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#### Futures of waste 07 September - 7 October 2016

This exhibition of photographs and accompanying seminar will address the origins and dimensions of waste...



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#### Upcoming events in Kenya

16 September - 24 September 2016

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07 September - 12 September

Find out about studying at the

University of South Australia

and living in Adelaide.

2016

#### Venture Catalyst Pitching & Information Session 8 September 2016

Do you have a great idea or an existing company that needs a financial injection to turn in Adelaide's...



#### EU Doctoral Pedagogies Colloquium: Models, Challenges, Outcomes 14 September - 15 September 2016

The Hawke EU Centre for Mobilities, Migrations and Cultural Transformations in collaboration with the...



#### NON-REPRESENTATIONAL THEORY: PERFORMATIVE, EMBODIED AND AFFECTIVE KNOWLEDGE

21 September 2016 Masterlass by Sir Nigel Thrift IT, Engineering and the Environment



#### Foundations of active ageing

#### 23 September 2016

As part of our Successful Ageing Seminar series, we invite you to attend this FREE seminar to hear from...

## THE SENTIENT CITY 28 September 2016

Hawke Research Institute Annual Distinguished Lecture

#### October 2016 (3 Events)



#### Art Talks With Jeffrey Tate, Principal Guest Conductor 6 October 2016

Art Talks With Jeffrey Tate, Principal Guest Conductor Inconversation with Professor David Lloyd, Vice...

#### November 2016 (5 Events)



#### **UniSA Hong Kong** Alumni Dinner 5 November 2016

Celebrate UniSA's 25th Birthday with Vice Chancellor and President, Professor David Lloyd and fellow...



### **National Water Forum** 2016

11 November 2016

Are integrated decisions about water management better than stand-alone choices?



CHART 2016, 'Shoulder to Shoulder' 12 October - 4 November 2016

A thematically linked multimedia Exhibition, these artworks reflect on different concepts and themes...



#### Europe, the world and the challenges of the 21st century 31 October 2016

For the Hawke EU Centre Annual Lecture, Baroness

Royall argues that the values of the European Union...

Minimise



#### Welcome House 09 November - 30 November 2016

An exhibition created by members of the refugee community, who receive support from Kilburn's 'Mercy...

#### 1887 Exhibition, held in the Jubilee Exhibition building, and tracks the. $N \cap N$

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2016

Adelaide's

**Exhibition and** 



**International Jubilee** 

Building (1887-1962)

09 November - 30 November

An exhibition exploring an

#### Art Talks With Pinchas Zukerman, **Artist in Association** 22 November 2016

Art Talks With Pinchas Zukerman, Artist in

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60

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Home > About UniSA > Working at UniSA > Vacancies

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Super news -UniSA's Venture Catalyst wins best entrepreneurship support award AND people's choice award at the KCA conference awards. A





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University of South Australia

30 August at 19:40 · 🥥

Don't forget to come along to the Venture Catalyst Pitching and Information Session!

The winner of Venture Catalyst receives \$50,000 seed funding to translate their idea into commercially successful business ventures.

This session is on Thursday, 8 September from 4.30 – 6.30pm at the Innovation & Collaboration Centre, City West Campus and open to entrepreneurs, game changers and rule breakers. ... See more





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University of South Australia 30 August at 17:59 · @

Thanks Port Adelaide Football Club for the 25th birthday wishes! We can't wait to see you in firing form in 2017! #UniSA25



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2 days to go! UniSA's Whyalla Campus Open Day this Sunday 28 August is your opportunity to visit the Whyalla campus and talk to UniSA staff and students about studying with us! Visit unisa.edu.au/openaugust for more information #studywiththebest



with **Dempsey Charlton** and **2 others**. 24 August at 22:10 · @

Magill @ Twilight was a buzz last night, with many learning about degree and career options while exploring the campus!

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25 University of South Australia 24 August at 17:12 · 🕡

Hear from USASA Adelaide International Student Representative, Valerie, about how her family celebrate Christmas back home and what 'Unity in Diversity' means to her.

Multicultural Day is at UniSA- Mawson Lakes Campus today from 12pm-2pm. Details of the event are up at www.unisa.edu.au/multiculturalday

#UniSAMulticulturalDay



Ihsan Swati, Melak Khaleel, Vivian Cheung and 31 others like this.



#### University of South Australia

24 August at 01:30 · 🥥

Join us at Discover Mawson, a part of UniSA's Open August, this Thursday 25th August at 4.00 - 7.30pm.

Discover everything you need to know about engineering, information technology, environmental science, geospatial science, science and advanced materials, aviation and mathematics at UniSA.

Register at www.unisa.edu.au/discovermawson



Science Without Borders student, Pedro, gives us an insight into music and cultural celebration in Northeastern Brazil, and explains what 'Unity in Diversity' means to him.

Multicultural Day is at UniSA City East Campus today from 12pm. Check out the schedule of events at www.unisa.edu.au/multiculturalday #UniSAMulticulturalDay







http://www.australia.com/.../weather/adelaide-weather.html

Adelaide Weather, Temperature & Climate - Tourism Australia

AUSTRALIA.COM

1 · 23 August at 19:06

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University of South Australia

22 August at 17:53 · Adelaide, SA · 🌏

Hear from UniSA student, Swapnil, about how he celebrates within his culture and what this year's theme ('Unity in Diversity') means to him.

Check out the full schedule of Multicultural Day events at www.unisa.edu.au/multiculturalday #UniSAMulticulturalDay



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University of South Australia 22 August at 17:46 · @

Morning sunrises on our #greathall as they pour the floor for the new health and fitness centre  $\{ e_i \}$ 



Chair of Investment Attraction Agency, and UniSA business alumnus, tells us why. http://ow.ly/2WEc302yYIC



Over the next week, UniSA will celebrate our diverse multicultural community at Multicultural Day events on each of our campuses with FREE food, activities, music and dance performances, workshops, and sport demonstrations.

Here we'll share the stories from some of our students about how they celebrate within their culture and what this year's theme ('Unity in Diversity') means to them.

Check out the full schedule of Multicultural Day events at www.unisa.edu.au/multiculturald... See more




It's your time to stand out from the crowd! Whether you're a student, recent graduate or young professional, attend generationYOU | Adelaide 2016 this September and gain some tips and tricks on how to kickstart your ideal career and become an exception. Check out the Adelaide program here: http://bit.ly/29sOx8R





University of South Australia

18 August at 16:05 · 🎯

Multicultural Day is about celebrating 'Unity in Diversity' and cultures from around the world.







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Videos for Business, Law, Commerce, Management and Marketing at the University of South Australia



Videos from the Division of Health Sciences at the University of South Australia.



#### IT, Engineering and Environment

0:16

Videos from the Division of Information Technology, Engineering and the Environment at the University of South Australia.

1:21:04

51:50

Study with the best – IT at UniSA University of South Australia

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#### Department of Rural Health

The University of South Australia's Department of Rural Health (DRH)'s vision is to provide "A Great Rural Experience" and its mission is "to be integral to the development and sustainability of healthy and...



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## About UniSA

Honorary Doctorates

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Our Indigenous engagement	>
Working at UniSA	>
History and development	>
UniSA's 25th birthday	>
Quality & compliance	>
University publications	>
Corporate publications and annual reports	>
UniSA video	>

Areas of study and research G Click to expa

Health	UniSA	Education, Arts	IT, Engineering and the Environment	UniSA
Sciences	Business School	and Social Sciences		College

International Students	General Enquiries	Connect with UniSA 🦸 🎐 in 💽 🖸
Enquire online	08 8302 6611	
+613 9627 4854	Further contact details	UniSA respects the Kaurna, Boandik and Barngarla peoples' spiritual relationship with their country.
Further contact details	Links & legal	
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Home > About UniSA > Governance and management structure > Copyright at UniSA

## Copyright at UniSA

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A comprehensive range of resources and downloads is available from the University of South Australia Copyright website. Authentication is required to access these pages.

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Health Sciences	UniSA Business School	Education, Arts and Social Sciences	IT, Engineering and the Environment	UniSA College
International Students	General Enquiries	S Connect with Un	<sup>isa</sup> f 🌶 in 🖻 🖸	9
International Students Enquire online	General Enquiries	S Connect with Un	<sup>isa</sup> f 🌶 in 🖻 🖸	9
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## STUDY RESEARCH PARTNER NEWS & EVENTS

Home > About UniSA > Governance and management structure > Privacy Statement

## About UniSA

University profile	>
Strategic action plan 2013- 2018	>
University vision, mission & values	>
University achievements	>
UniSA's Teaching and Learning Framework	>
Global Engagement	>
Governance and management structure	>
Advancement Services Assurance Services Business Intelligence and Planni Chancellery Communications and Marketing Copyright at UniSA Facilities Management Unit Finance Unit Graduate Research Centre Legal Services Human Resources Information Strategy and Technology Services External Relations and Strategic Projects Aboriginal Engagement and Strategic Projects Student Engagement Unit Library Provost & Chief Academic Office Research and Innovation Research and Innovation Research and Academic Services The Bob Hawke Prime Ministeria Centre UniSA International University Council Senior Staff Student Engagement and Equity Vice Chancellor and President Divisions and Schools	r es

# Privacy Statement

This page outlines how the University of South Australia collects information through the use of its website. This information does not extend to external websites linked from the University website.

LOGIN C

## Collection of Information from the Website

#### Cookies

One way of collecting information is through cookies, which are small information files that many websites store on your hard disk. For example, when you log onto your University email from a particular computer for the first time, cookies containing your log on information will be saved to your hard disk. The server can then read your cookie file to confirm your identity for that site. Cookies car only collect information that has been provided by the user, or information such as the IP address which the server already knows.

#### Email addresses

The University may also collect information that you submit via any email address that you provide whilst visiting its website.

## Website Usage

The University makes a record of your visit to its website using Google Analytics Web statistics service. The University logs the following information for statistical purposes - IP address, the date and time o the visit to the site, the pages accessed and documents downloaded, the previous site visited and the type of browser and OS being used. More information about Google Analytics and privacy.

## Internal Users of the University Computer Environment

The University has an onus to ensure that unacceptable behaviour does not occur on the computer systems and the policy relating to privacy on the University's IT network formalises this commitment.

## **Privacy Policy**

For information on how the University holds, uses and discloses personal information collected generally, please view the University's policy on <u>Privacy</u>.

Honorary Doctorates

>

Privacy Statement - About UniSA - University of South Australia

Digital Learning Strategy 2015 - 2020	>
Regional campuses	>
Our Indigenous engagement	>
Working at UniSA	>
History and development	>
UniSA's 25th birthday	>
Quality & compliance	>
University publications	>
Corporate publications and annual reports	>
UniSA video	>

Areas of study and research G Click to expa

Health	UniSA	Education, Arts	IT, Engineering and the Environment	UniSA
Sciences	Business School	and Social Sciences		College

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< back

## Web accessibility

The University of South Australia is committed to ensuring access to online materials for people with disabilities. As such we aim to meet the "Level AA" rating of the World Wide Web Consortium (W3C) Web Content Accessibility Guidelines 1.0 which covers Priority 1 and Priority 2 guidelines.

- Web Content Accessibility Guidelines
- Checklist for accessible online content
- Useful accessibility resources
- Ten tips for creating accessible content
- Information for people with disabilities
- UniSA Online Accessibility Action Plan
- Web Accessibility Network for Australian Universities

### Web Content Accessibility Guidelines

The UniSA corporate website aims to:

- provide a text equivalent for every non-text element, for images, graphics, animations, applets etc
- ensure all information conveyed with colour is also available without colour, for example from context or markup
- use style sheets for layout and presentation
- use tables to mark up tabular information, for example data tables (not for layout purposes)
- ensure pages are accessible when viewed in older browsers, for example a browser that does not recognise style sheets should be rendered so that it is meaningful
- use relative rather than absolute unit sizes so that text in a window can be resized to larger (see Using this website)
- ensure that moving, blinking or scrolling text can be paused or stopped
- ensure that pages are usable when scripts, applets, or other programmatic objects are turned off or not supported
- provide clear navigation mechanisms.

For more detailed information please see the UniSA Web Authoring Guide for authors maintaining subsites within the UniSA website and developing online material.

### Web accessibility information for people with disabilities

If you are having difficulty accessing any online materials produced by the University because of a disability please contact disability @unisa.edu.au.

Please provide the following information:

- your contact details
- the location of the page you are accessing
- the operating system and browser version you are using
- any other software you are using

• the nature of the problem you are experiencing.

The University's disability service will then make arrangements to provide you with the information you are seeking in an accessible manner.

Information about the full range of disability services provided by the University is available at disability services for students and Human Resources Equity and diversity - disability information

#### top^

Disclaimer | Copyright | Privacy | Web accessibility | CRICOS Provider no 00121B | Contact UniSA Site help | Open Day | UniSA Events Calendar | Read this page Latest content revision:Monday, 22 November 2010 The Australian Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS)



Welcome to the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS) This is the official Australian Government website that lists all Australian education providers to offer courses to people studying in Australia on student visas and the courses offered.

**Course Search** 

Use this search to find information about courses offered by Australian education institutions.



## **Institution Search**

Use this search to find information about Australian educational institutions.

Additional information about registration of institutions and courses for overseas students O

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TOP





## Further contact details

If you've got an enquiry and would like get in touch with UniSA, you will find our contact information and campus location details listed below.

LOGIN Q

#### **General enquiries**

University of South Australia GPO Box 2471 Adelaide, South Australia 5001 Australia Ph 1300 301 703 Fax +61 8 8302 2466

The University switchboard is attended from 9am to 5pm, Monday to Friday. If you know the extension of the person you wish to contact, dial (08) 8302, followed by the last four digits of the extension. You can also search for staff telephone numbers in the Directory.

### Dialling information for external callers

Please note that all standard landline telephone numbers throughout Australia are eight digits in length. Australian mobile and toll-free numbers will differ. The numbers listed within this directory are internal university extension telephone numbers (unless otherwise indicated.)

For example, to call a university extension 26611:

- within the university, dial 26611
- within Adelaide (local number) and/or the 08 region, dial 830 followed by the extension eg 830 26611
- within Australia but outside of the 08, dial 08 83026611
- outside of Australia, dial (your international access number), then 61 8 830 26611

### Security

All hours 1800 500 911 – free call (Internal callers dial 88888)

#### Future student enquiries

Ph: (08) 8302 2376 Fax: (08) 8302 0977 Make an Enquiry Address: Level 1, 101 Currie Street, Adelaide SA 5000 Mail: GPO Box 2471, Adelaide SA 5001

Open weekdays from 9:00am to 5:00pm, excluding public holidays.

#### International students enquiries

Future student enquiries (international)

#### Graduate Studies Office (research degrees)

SM Building, City West campus GPO Box 2471 Adelaide SA 5001 Ph: +61 8 8302 5880 Fax: +61 8 8302 0828 Email: research.degrees@unisa.edu.au

## Campus postal addresses

University of South Australia GPO Box 2471 Adelaide SA 5001

### City East - Campus Central

Level 3 – Playford Building, Frome Road Adelaide SA 5000 Ph: 1300 301 703 Fax: (08) 8302 2466 Email: campuscentral.cityeast@unisa.edu.au

### City West - Campus Central

Level 2 - Jeffrey Smart Building Adelaide SA 5000 Ph: 1300 301 703 Fax: (08) 8302 0590 Email: campuscentral.citywest@unisa.edu.au

### Magill - Campus Central

Level 1 Building B Lorne Avenue Magill SA 5072 Ph: 1300 301 703 Fax: (08) 8302 4090 Email: campuscentral.magill@unisa.edu.au

### Mawson Lakes - Campus Central

Ground Floor - C Building Mawson Lakes Boulevard Mawson Lakes SA 5095 Ph: 1300 301 703 Fax: (08) 8302 3550 Email: campuscentral.mawsonlakes@unisa.edu.au

### Whyalla - Campus Central

111 Nicolson Avenue Whyalla Norrie SA 5608 Ph: 1800 808 957 (free call)

or +61 8 8647 6161 (Local)\* or +61 8 830 26161 (Metro) Email: campuscentral.whyalla@unisa.edu.au

\* Note: interstate, overseas, SA country and Whyalla callers wishing to call the Whyalla extension should use 8647 (instead of the 830) followed by the last four digits of the extension, for example 26111 would become 8647 6111 (ie omit the 2).

Further contact details - University of South Australia

## Mt Gambier - Campus Central

Wireless Road West Mount Gambier SA 5290 PO BOX 798 MOUNT GAMBIER 5290

Ph: +61 8 8721 8900 (local)\* or +61 830 28900 (Metro)

#### Email: mountgambier.enquiries@unisa.edu.au

\* Note: interstate, overseas, SA country and MT Gambier callers wishing to call the MT Gambier extension should use 8721 (instead of the 830) followed by the last four digits of the extension, for example 28900 would become 8721 8900 (ie omit the 2).

#### Media enquiries

Michèle Nardelli Manager News and Media Ph: (08) 8302 0966 Mobile: 0418 823 673 Email: michele.nardelli@unisa.edu.au

Kelly Stone Media Liaison Coordinator Ph: (08) 8302 0963 Mobile: 0417 861 832 Email: kelly.stone@unisa.edu.au

Alan Brideson Director Marketing and Development Unit

## Areas of study and research

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Australian Students	CRICOS Provider no 00121B			
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Further contact details	Privacy Statement			
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#### < back

## UniSA site help

- Software requirements
- Viewing options
- Navigation
- Accessibility

#### Software requirements

Several documents on this website are available in Portable Document Format (PDF). To view these files, you may need to download and install Adobe Acrobat Reader.



Follow this link to download the latest version of Adobe Acrobat Reader.

Software downloads available via links from this site are third party products. These products may be subject to a licence agreement between you and the relevant product owner. To the extent permitted by law, UniSA accepts no liablitity in respect of such third party products and UniSA provides no warranty and gives no endoresement in respect of such products or any party connected with them.

### **Viewing options**

The UniSA website has been designed to accommodate as wide an audience as possible. As such, all commonly available browsers are supported on this website. However, the site is best viewed with Internet Explorer version 5.5 or later at a resolution of 800 x 600 pixels. If you need to enlarge the screen the best way to do so is to use the zoom option located at the bottom right corner of your browser as this will not affect the layout of the page detrimentally.



Follow this link to download the latest version of Internet Explorer.

Please note that when viewed on Netscape there is some degradation to the look and feel of the site although navigation is not hampered. Users of Netscape should take note of the Netscape end of support notice.



Follow this link to download the latest version of Firefox web browser.

### **Navigation**

There are a variety of ways to find information on this website. The groups of links at the top of the home page provide the main navigation to key areas of content. In sub pages, navigation menus on the left hand side link to more detailed information within the site.

The grey navigation bar at the top of the home page and every page provides quick access to frequently accessed information, including the search function. Privacy, disclaimer, copyright, contact, accessibility and CRICOS information is available from the footer. A web enquiry facility is available in the Contact UniSA page.

### Accessibility

If you have a disability, refer to our web accessibility information. The Adobe Accessibility Resource

Centre provides tools that can help people who use speech readers to read the content of PDF documents. If you are encountering difficulties accessing the UniSA Corporate website, please email webenquiry@unisa.edu.au.

top^

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## STUDY RESEARCH PARTNER NEWS & EVENTS

Home > UniSA Open Day 2016



LOGIN Q

## Open Day was held on Sunday 14 August

This year's Open Day was the best yet with over 90 presentations, 80 information

booths and 43 things to see and do. We hope you enjoyed your time on campus and found all the information you needed about your pathway and study options. If you still have questions, make sure you attend our Open August Events or contact our Future Student Enquires Team.

## Missed a presentation?

If you didn't manage to make it to Open Day, watch our **program overview videos** to find out more about the range of programs on offer.

## What's next?

## UniSA's Open August Events

Open Day is held at our City West and City East campuses and is a great chance for you to explore all the study options on offer at UniSA in the one spot. Once you have decided on your direction, you will have another opportunity to step onto our Mawson Lakes, Magill and Whyalla campuses. You can explore the facilities and hear from current students, staff and industry professionals. Attend Magill @ Twilight if you are interested in studying Education, Psychology, Social Work, Communication, Media & Arts. Discover Mawson is for those thinking about careers in the areas of engineering, information technology, environmental science, geospatial science, science and advanced materials, aviation and mathematics. Find out about education, nursing, social work, business and Foundation Studies at Whyalla Open Day.

Event	Date	Location
Magill @ Twilight	Wednesday 24 August	Magill campus
Discover Mawson	Thursday 25 August	Mawson Lakes campus
Whyalla Open Day	Sunday 28 August	Whyalla campus

Further information and registrations

## Open August events



UniSA's Open Day is part of Open August, a series of events giving prospective students and parents a range of

opportunities to visit our campuses, ask questions and assist with the selection of courses and careers.

#### Open August events

## We're here to help



Contact Future Student Enquiries for more information on studying at UniSA.

**Contact Future Student Enquiries** 



## How to Apply



View our step-bystep video explaining how to submit your UniSA application. Future Student Enquiries Team

## Areas of study and research

## Click to expand

Health Sciences	UniSA Business School	Education, Arts and Social Sciences	IT, Engineering and the Environment	UniSA College
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Further contact details		7		
	Links & legal	🔬 🧐 /		
Australian Students	CRICOS Provider no C	00121B		
	Web accessibility		SOUTH	
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< back

## Browsealoud

Browsealoud is a text to speech tool that you can download and use on our website. It converts text to audio which allows the content of our websites and any Browsealoud capable website to be read to you.

### Features

- reads aloud all website content including PDF and MS Word documents
- words are spoken aloud as you move your cursor over them
- choose the voice to use
- change the reading speed
- create shortcut/hotkeys to start/stop reading
- have the program start when the computer starts

## **System Requirements**

In order to download and run BrowseAloud, you must have the following System Requirements:

### PC users

Operating Systems: Windows XP, Vista and Windows 7 Pentium 4 1.8GHz Processor 512 MB RAM (1 GB RAM recommended on Windows Vista and above) Sound Card + Speakers 15MB Free Disk Space

Recommended Browsers: Internet Explorer 6, 7 or 8. Firefox 3.6 For PDFs: Acrobat Reader 9

### Apple Mac users

OSX 10.3.9 or later (now supports Mac OSX Snow Leopard) 256 Mb RAM (512 Mb is preferable) Compatibility with Power PC or Intel processor. Browser: Safari v3 or later 20MB disk space



For more information or support please visit the Browsealoud support page.

top^

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