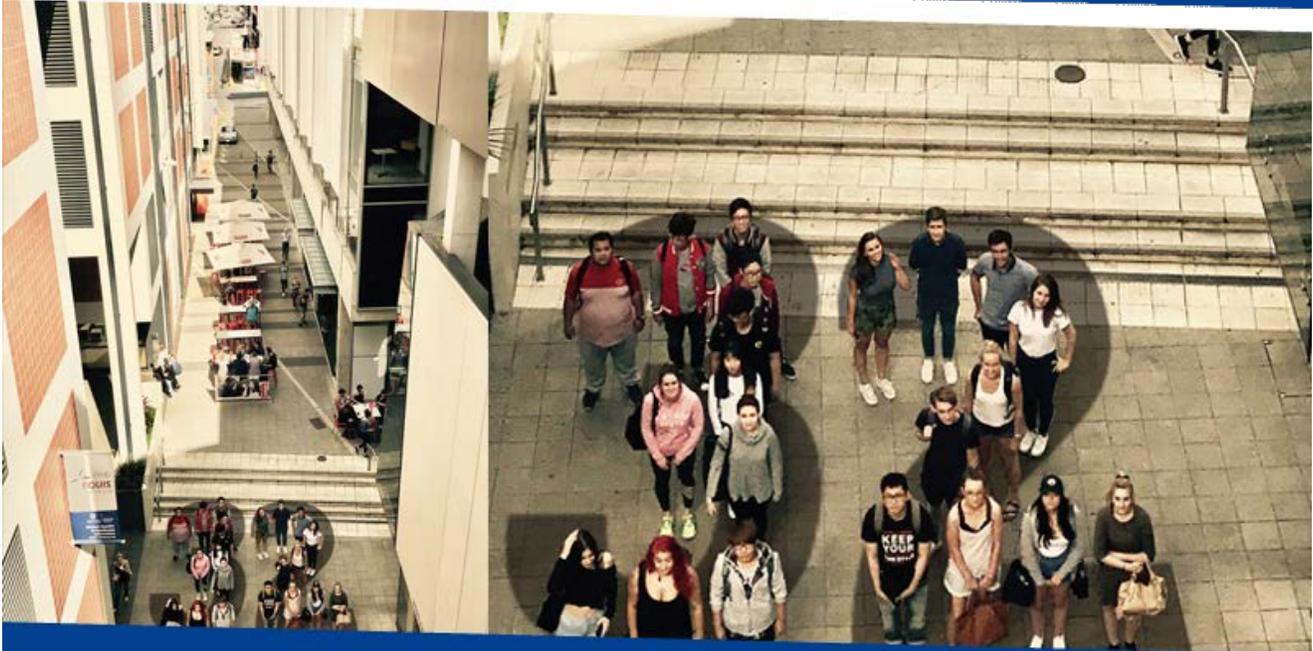


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April 2017

> from the University of South Australia



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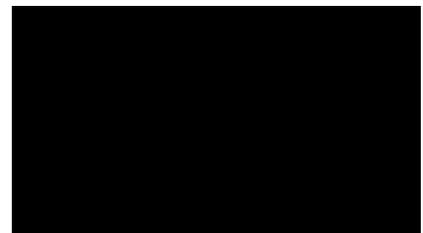
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New centre drives transport of the future

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by Rosanna Galvin



SCIENCE AND TECHNOLOGY

A highly automated transit system that will get you from A to B with minimal human input is the vision driving a new \$55 million research hub in which UniSA will play a key role.

The aim is to create a more integrated transit system incorporating smartphones, driverless vehicles and public transport.

The University will provide expertise in two key areas – public acceptance and knowledge of new technologies through the Institute for Choice (I4C) and data mining and system creation through the Advanced Computing Research Centre (ACRC) – to the recently established iMOVE Cooperative Research Centre (CRC).

Director of ACRC, Professor Markus Stumptner, says the ACRC's involvement in the iMOVE CRC will focus on harnessing data to create new systems for traffic management and flow.

“There is already a huge amount of data generated from our road system – every time a car pulls up to a traffic light for example, it triggers a cable that delivers a message to a wider network,” he says.

“We will examine how we can use that data to create a more streamlined transport system for cars – and what further data we need to make this happen.

“There's a lot of potential in combining existing traffic data with emerging information such as people's planned routes on Google Maps. This would give traffic network administrators a much clearer picture of the traffic system.

“One day it might be possible to use these data sets to analyse and manage traffic flow, which will allow driverless cars to be programmed to take the quickest and safest route, taking into account all the others vehicles around them and where they are travelling.

“People could potentially be taken out of the equation on our roads – they will simply decide where they want to go and systems – the cars, the roads, the networks – will do the rest.

“This has huge implications for the future of transport – route optimisation would reduce our environmental footprint and automation could significantly reduce death and injury on our roads as human error currently accounts for most accidents.”

Understanding how people will respond to automated transit solutions is where the I4C comes in. Experts in human decision-making and choice behaviour, the institute will offer insight into current transport behaviours and explore the public’s acceptance and knowledge of new technologies and services.

I4C Commercial Director and Adjunct Industry Fellow, Maria Lambides, says new technologies can only succeed if people are willing to accept and pay for them.

“Major technological and infrastructural changes, both now and in the near future, such as the emergence of shared mobility services, the invention of driverless cars, and continued advances in alternative fuel vehicle technology, have important implications for personalised mobility,” she says.

“The success of these new technologies and services will depend to a large extent on understanding the drivers of demand and consumer acceptance of the services.”

I4C will also undertake research in the areas of travel preferences and needs, and driver behaviour and road safety. The \$55 million federal grant for the development of the iMOVE CRC was announced last month. The CRC will involve industry, government and research partners including federal departments, state road authorities, retailers, logistics and insurance companies, technology developers, automobile clubs and a number of Australian universities.

For more information, go to the [iMOVE CRC website](#).



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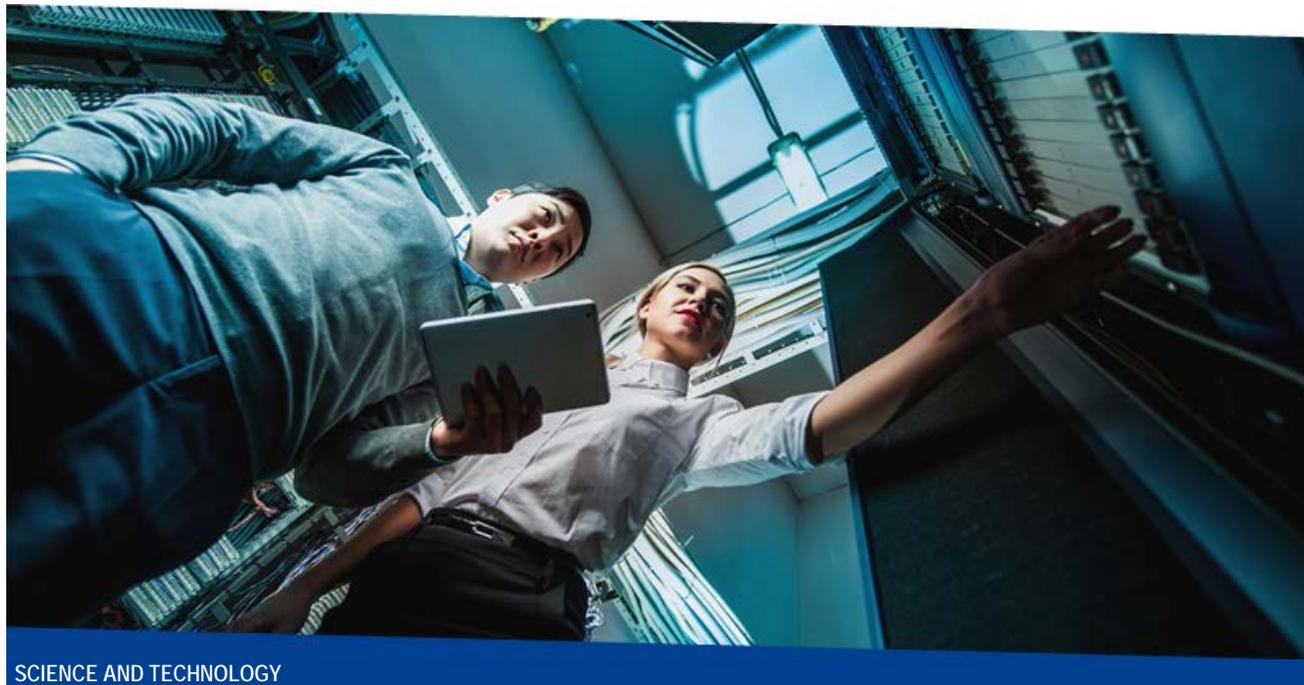
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New consortium to build a defence-ready workforce

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by Michèle Nardelli



SCIENCE AND TECHNOLOGY

The new Defence Industry Education and Skills Consortium will work closely with multinational, national and local defence companies to ensure Australian jobs are at the forefront in defence projects worth \$195 billion over the next 20 years, including the Australian Government's \$89 billion investment in naval ships and submarines.

UniSA is part of a new alliance that is collaborating to deliver a defence-ready, and especially maritime-ready, workforce with skills in engineering, information and computer technology, and project management.

Welcoming an announcement by the Defence Industry Minister Christopher Pyne of the establishment of a Maritime Technical College in South Australia, the education institutions and main defence industry organisation in South Australia have formed the Defence Industry Education and Skills Consortium.

The Consortium will consider bidding for the College, in partnership with organisations across Australia.

The Defence Industry Education and Skills Consortium is an initiative of the University of Adelaide, Flinders University, the University of South Australia, TAFE SA and the Defence Teaming Centre, working closely with defence industry companies large and small.

The new Consortium will work closely with multinational, national and local defence companies to ensure Australian jobs are at the forefront in defence projects worth \$195 billion over the next 20 years, including the Australian Government's \$89 billion investment in naval ships and submarines.

Defence Teaming Centre chief executive officer Margot Forster says the decision to establish a continuous build program for surface ships and submarines in South Australia provides a unique opportunity for industry, government, education and training providers to work together to focus on provision of a trained, upskilled and reskilled workforce.

"The Consortium's aims are threefold: to inspire young people to choose the maritime defence sector as a viable

career path; to ensure that education is closely tied to the skills needs of defence industry; and to support existing workers to retrain and upskill so they can take advantage of emerging defence-related opportunities,” Forster says.

“This approach will ensure education and skills are driving South Australia’s and the nation’s economic prosperity.”

UniSA Vice Chancellor Professor David Lloyd says the initiative positions South Australia strongly to play its part in securing the Nation’s future in this fast-growing industry.

“It demonstrates that higher education providers are eager and able to collaborate not only between themselves, but also with the vocational sector and, most importantly, with industry to meet critical skills challenges such as those posed by the Commonwealth’s ambitious naval and other defence projects,” Prof Lloyd says.

Based in South Australia, the Consortium founding members have formed national and international affiliations with education and skills institutions offering relevant world-leading expertise, including University College London, the University of Tasmania, North Carolina State University and the GEMA group of universities that works closely with naval shipbuilder DCNS in France.

Read more on the UniSA [Media Centre](#).



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A renewable energy future is viable and it's in our hands

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by Leader of the Thermal Energy Storage Group at UniSA's Barbara Hardy Institute Professor Frank Bruno



COMMUNITY

Professor Frank Bruno says that while Australia has adequate generation capacity, it lacks flexibility.

Concepts such as centralised power stations and base load power are fast becoming a thing of the past in the minds of energy experts and increasingly, for the electricity industry itself.

Globally, electricity grids are moving towards decentralised models, with large numbers of generators able to quickly respond to demand because these models are the most economic and reliable option.

The primary reason for current high electricity prices and present grid unreliability is that our existing electricity infrastructure was developed with 20th century technology and the current regulations are inflexible.

While we have adequate generation capacity, what we lack is flexibility.

For example, the gas-fired power station at Pelican Point takes four hours to start generating electricity – slow moving when you want to manage load efficiently.

High SA electricity costs also relate to the fact that our peak demand is the highest in the country, primarily due to air-conditioning.

The reliability of the system mostly relates to the rules and regulations that control our electricity system.

All of these factors have very little to do with renewable energy and the future direction of the electricity grid



Professor Frank Bruno.

In 2016, all non-hydro renewable energy accounted for eight per cent of the electricity used in the National Electricity Market, a market that is under the control of the Australian Energy Market Operator.

We need to understand that outside of Australia, the transition to renewable energy is well underway.

Germany uses more renewable energy in a more reliable system

Investment in renewable energy electricity around the world is now higher than in conventional fossil fuel-driven electricity. Germany generates about 30 per cent of its energy from renewable sources. Its electricity costs have not increased as much as ours have and Germany has a more reliable electricity system.

In a carbon-constrained world, national decisions to invest in renewable energy are being made because ultimately, that investment offers economic opportunities for countries like Germany.

The big question for SA is whether we choose to adopt this trend or step back and wait and see.

The CSIRO has shown that a grid with an energy source from nearly entirely renewable energy, using just solar and batteries, can deliver a reliable grid and is cheaper than doing what we have traditionally done.

Recent dramatic increases in electricity charges to businesses relate more to the uncertainty over the future of the electricity grid than anything else and those increases are occurring across the country.

And as old power stations close, this uncertainty will only increase.

Older power stations won't be viable in the future

Overall, we need to recognise that continuing with old systems will only increase costs and will not be viable in a carbon-constrained world.

Fundamentally, these changes involve customers recognising that they are participants in the electricity system not just users and so should make appropriate investments.

Customers can do something about reducing energy costs by investing in solar PV, and adopting energy efficiency and demand management practices.

Since air conditioning and refrigeration are large contributors to peak demand, these particularly require attention.

Thermal energy storage solutions do exist; examples include the chilled water storage at IKEA and the [phase-change energy storage](#) developed by UniSA.

Battery storage can be economic for households, but is unlikely to be used for businesses in the short to medium term.

With solar PV, demand management, thermal storage and batteries in some cases, commercial customers can go directly to the spot market and buy electricity when prices are low and avoid buying electricity when prices are higher.

Furthermore, implementing these technologies locally will mean we can run off-grid if there is a power outage. Technologies such as solar PV, batteries, thermal energy storage and peak demand, all enhance grid stability by reducing peak demand, contributing to a more reliable electricity system.

Furthermore, all energy storage types can be used in frequency regulation and network support.

Virtual power stations provide another means of integrating these technologies to deliver a more cost effective and reliable system.

Larger scale renewable energy systems, including concentrating solar power plants, large scale batteries and pumped hydro, can all play an important role in supply. Ultimately the market will decide which solutions are best for which circumstances.

A renewable-based or fossil fuel-based future?

The question is not which technology path should be taken, but whether it should be renewables-based or fossil-fuels-based.

Currently new renewable energy is about the same price as new gas for power generation, while new coal, based on conventional technology, is still slightly cheaper.

Ultimately, investing in new gas-fired power is fine but our gas prices are effectively linked to global oil prices, hardly a measure of certainty. Investing in a new interconnector simply links us to fossil fuel prices in the eastern

states, as well as any uncertainty they will experience.

Investing locally in a renewable energy system, means prices can be controlled and it gives us more certainty.

Renewable energy technology will always reduce prices because their operating costs are lower than fossil fuel generators.

The issue of the variability of renewable energy and how energy storage is too expensive, is often misunderstood.

Globally these systems are being effectively and reliably implemented. There are always challenges and refinements associated with the adoption of new technologies, but everywhere, they are being overcome.

We have already seen significant installations of renewable energy and now SA needs to focus on demand management and energy storage to continue the transformation of our system.

In SA, we are nearing 50 per cent renewable energy.

Solar PV on rooftops is a financially attractive investment and will continue to grow. The capacity to store power, whether thermal or electric, is economic in many circumstances and inevitably will be implemented at the domestic, commercial and industrial level.

Large industrial customers are considering their own renewable energy plants. The move towards renewable energy, with a decentralised electricity grid, will actually increase reliability, leaving costs much more in the hands of the consumer, by managing their usage.

The recently announced South Australian Government's power plan is a good start to providing energy security and a managed transition to clean supply. However, the gas-fired power station which is part of the mix to ensure energy security, could also be achieved with well-proven large-scale energy storage technology integrated with renewable energy power generation.

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April 2017

> from the University of South Australia

From the Chancellery

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The benefits of being young and agile.

You will all know by now that [UniSA leapt 25 places](#) up the Times Higher Education's (THE) list of the world's top 200 young universities. We're now number 32 on that global list, the country's fastest moving young university and ranked number four in Australia for universities aged under 50.

Late last year the other international rankings giant, QS, rated us at number 24 of universities aged under 50.

That we can achieve this sort of growth in just over 25 years is due to many things, not least of which is our ability to actually get things done. We're Australia's University of Enterprise. We partner with business and government to create new knowledge that will add value to the economy and we educate those people who will eventually run that economy.

End of house ad. But seriously, being young and agile means that when we want to make changes or try new things we don't have to wade through decades or centuries of past practice. We don't have set attitudes that prevent change and we're not bound by history that dictates how things ought to be done. (Which usually means how they used to be done or how they're not being done at all because somebody once tried and failed.)

We are Number 1 in Australia and Number 1 in South Australia for industry income which means that we are regarded as Australia's best place to bring problems that need solving for industries and the professions. Our reputation for translating fundamental and curiosity-driven research into practice by providing new solutions for problems and new ideas for industry and society is well known and appreciated. We are the second most important university in Australia for collaborative and solutions-focused research through the work we do for Cooperative Research Centres due to our unique ability to work across disciplines.

The benefits of being young and agile mean that silos have very little chance of standing in the way of progress. Their concrete hasn't had time to set. When there is a problem we bring our best people to focus on it. We do that in research, in teaching and in the way we run our professional lives.

During our recent graduation ceremonies I was struck by what the writer and national treasure, Thomas Keneally (to whom we gave an honorary doctorate) said in his Occasional Address as he pondered why there were so many human institutions still existing even though there was no technological reason for them to survive.

“It still astonishes me how well the old-fashioned print book, the Gutenberg-style book, continues even though it is perfectly possible to publish online exclusively,” he said. “I think we like to hold books because we are tactile animals. As things stand, we still like the experience of measuring our way through an artefact of paper and inks. After all, we have no technological use for cinemas either, yet we go to them because we are social animals and we love laughing or being scared in a pack. There is similarly no technical reason why universities should not be entirely virtual. But we prefer that if we go to tertiary studies it should still be in a physical institution, one we walk through to establish a set of rich social and intellectual contacts.”

Thomas Keneally’s conclusion was that technology cannot always change the sort of creatures we are, that we are each a peculiar kind of gifted animal and angel.

This university has a diverse and vibrant student body and it takes a diverse and vibrant staff to make sure they are educated and ready to be the creative thinkers and innovators our society needs now and into the future.

Young and agile, meet relevant and useful.

Professor David Lloyd
Vice Chancellor and President

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AWARDS

Prominent pain researcher awarded a Doctor of Science

UniSA has presented Professor Lorimer Moseley with a Doctor of Science, acknowledging his distinguished international contribution to physiotherapy and clinical neuroscience.

The degree is awarded to an academic who has a proven record of internationally recognised scholarship and is assessed by an international panel of experts.

UniSA Vice Chancellor Professor David Lloyd, who presented the award at the recent graduation ceremonies, says Prof Moseley's passion for his research work into chronic pain and pain management is palpable.



"Not only has he pursued his research with deep commitment, he has also invested an enormous amount of energy in sharing his knowledge and being a part of an international community of researchers, determined to improve pain treatment in revolutionary ways," Prof Lloyd says.

"Foundation Chair in Physiotherapy at UniSA and head of the Body in Mind Research Group, he is at the leading edge in pain theory globally, with 260 scientific articles, five books and many book chapters on pain and rehabilitation under his belt.

"His work has changed the way pain is treated and changed the way we teach health professionals to support and treat sufferers of chronic pain."

Read more about Prof Moseley's achievements on the UniSA [Media Centre](#).

Senior lecturer awarded Humboldt Research Fellowship

UniSA senior lecturer Dr Gunnar Keppel has been awarded the prestigious Alexander von Humboldt Research Fellowship.

He will undertake research to help answer the long-standing question of why some places have higher species diversity than others.

A Humboldt Research Fellowship allows postdoctoral researchers to carry out long-term research in Germany.

Dr Keppel, Senior Lecturer in Environmental Biology, will work for one year with Dr Holger Kreft at the George August University in Göttingen.

“My study will focus on islands and island-like environments, such as native remnant vegetation in an agricultural landscape,” Dr Keppel says.

His research will examine how diverse (heterogenous) the environment is in a given area, referred to as environmental heterogeneity, and the role this plays in determining species diversity.

“For example, a more rugged area like the Flinders Ranges would be expected to have greater species diversity than the more subdued Gawler Ranges,” he says.

“If environmental heterogeneity is indeed the key determinant of species diversity, it would mean that we need to try and protect areas with the highest environmental heterogeneity to optimise the number of species protected in a reserve.”

Dr Keppel is the second such fellowship awardee from UniSA’s Division of Information Technology, Engineering and the Environment, joining Professor Krasi Vasilev who was successful in this scheme last year.

More details about the Fellowship are available on the [Alexander von Humboldt-Stiftung/Foundation website](#).

Lecturer wins key award in national architecture and design competition

A vision for medium density housing has earned UniSA lecturer Dr Damian Madigan a significant win in a national design competition.

Dr Madigan, Lecturer in Architecture in the School of Art, Architecture and Design, won the category to design a Manor House in the Missing Middle Design Competition, which called on architects and building designers to showcase their visions for the future of medium density housing in NSW.

The awards showcase how better quality design will ensure new low rise medium density housing is socially sustainable while contributing to the housing supply needs of established suburbs.



Established Manors by Dr Damian Madigan.

A jury of six industry experts reviewed and judged the anonymous entries for the competition, which was run by the NSW Office of the Government Architect and NSW Department of Planning and Environment.

Dr Madigan’s work was cited as “an innovative, practical and ethical idea to make clever additions and alterations to two existing houses that makes four houses from two. The arrangement and variety of housing types within the four houses allows for flexible intergenerational living”.

Entrants were required to test the NSW Government’s new Medium Density Design Guide for Sydney’s middle suburbs by designing a complying medium density development and then demonstrating how the design could be made even better by breaking or challenging the rules of the guide.

Dr Madigan says: “I decided to enter the competition because the design research work I do looks at villas and cottages in Adelaide, and how we can keep them and work with them without knocking them over and without losing mature landscape. The competition provided the opportunity to demonstrate that this local knowledge around alternative suburban infill is transferable to other cities.”

Dr Madigan’s win recognises his standing nationally across the architectural industry and academia. His success will have direct ;and tangible impact on government policy in NSW, and on housing in that state.

See his winning design on the [NSW Department of Planning and Environment website](#).

UniSA student named among the country’s best in accounting

University of South Australia student Arlen Dabinett has been named among the top

accounting students of 2017 through the annual Australian Accounting Awards.

Arlen is one of 10 finalists from across Australia in the running to be named the Accounting Student of the Year.

The [Australian Accounting Awards](#) are industry awards designed to showcase excellence across the breadth of the accounting profession through a broad range of categories that recognise the industry's leaders.

Arlen, who is also president of the Commerce Student Association within UniSA's Business School, says being a finalist is a great honour.

"I am extremely humbled by this acknowledgement and feel very privileged that in this process I am proudly representing the UniSA Business School at the top accounting industry event for the year along with my employer Pitcher Partners," Arlen says.

The awards will be presented on 26 May 2017.

Strong representation from UniSA among Young Achiever finalists

A number of UniSA students, staff and alumni have been shortlisted as finalists in the 2017 Young Achiever Awards.

The Young Achiever Awards recognise and acknowledge the achievements of outstanding young South Australians.

The University's finalists are:

- Bryce Eldredge - University Senior College Create Change Award
- Joel Fuller - The Science and Technology Award
- Dr John Arnold - The Science and Technology Award
- Kira Bain - Department for Communities and Social Inclusion Aboriginal Achievement Award
- Manal Younus - The Coffee Club Arts and Fashion Award
- Tessa Henwood-Mitchell - University Senior College Create Change Award

The winners will be announced at a gala presentation dinner on Friday 28 April.

One of the 10 category winners will be chosen as the Channel 9 Young Achiever of the Year and will win additional prize money.

For details on finalists, visit the South Australian section of the [Awards Australia website](#).

Shining light in SACE Art Show

A leaf-inspired pendant light created by incoming UniSA student Mikayla Stewart has won the prestigious Poster Award at this year's SACE Art Show.

Mikayla, who completed the artwork during her Year 12 studies at Brighton Secondary School, will start a Bachelor of Design (Communication Design) at UniSA next year.

The pendant light will feature on the 2018 poster used to promote the annual SACE Art Show, which showcases the creative talent of emerging artists who have recently completed Year 12 in South Australia and the Northern Territory.

Announcing the SACE Art Show award winners, Education and Child Development Minister Susan Close says that based on the 148 art and design works on display, the exhibitors have bright futures ahead of them.

"It is inspiring to see young people conceive and make works of art and design, exploring skills with media, materials and technologies, and develop their own personal flair," she says.

UniSA sponsored the Enterprising Artist Award, which was won by St John's Grammar graduate Soraya Duke for her painting titled Kde Domov Múj?. UniSA





Program Director of the Bachelor of Visual Arts, Dr Andrew Welch, says the University is proud to support the SACE Art Show.

Visual Arts graduate selected for Helpmann Academy Fellowship

UniSA Visual Arts graduate Zoe Woods has been selected for the inaugural Helpmann Academy Fellowship.

Valued at up to \$20,000, the Fellowships fund opportunities to early career artists to further their artistic development internationally and throughout Australia.

Woods, who received her award at a ceremony at Government House earlier this month, plans to use her Fellowship to travel overseas to study the collection at the Corning Museum of Glass and the Rakow Library in New York City, and will undertake three weeks of glass engraving workshops with Pavlina Cambalova.

After returning to Australia, Woods will complete a six-week residency at Canberra Glassworks. She was one of three fellowship recipients.

The [Helpmann Fellowships](#) are possible through a grant from The James and Diana Ramsay Foundation.



Zoe Woods. Photo by Olivia Power.

UniSA wins 2017 SA Challenge

The University of South Australia has won an intervarsity sporting competition against Flinders University and the University of Adelaide.

Team UniSA won the 2017 SA Challenge, which concluded earlier this month.

Team UniSA had highest student representation in the competition, with almost 90 UniSA students competing across the eight sports.

UniSA won the lacrosse and squash competitions, had strong results in the tennis, and also performed well in lawn bowls and beach volleyball.

The high participation rate and strong results helped Team UniSA be crowned number one in the state in 2017.

For more detailed results, visit the [UniSA Sport website](#).

The University hopes to do as well as at the Southern University Games and Australian University Games later this year.

Book selected as finalist in publishing prize

UniSA senior lecturer Dr Rachel Hurst has had her book selected as one of five finalists for the Melbourne Art Book Fair's inaugural Cornish Family



Team UniSA won lacrosse and squash in the 2017 SA Challenge, taking out the overall title.

Prize for Art and Design Publishing.

Dr Hurst from the School of Art, Architecture and Design wrote *The Gentle Hand + The Greedy Eye: an everyday baroque practice in architecture*, as one component of her PhD by practice, and collaborated with New Zealand designer Catherine Griffiths to design and produce the book.

Dr Hurst's book has previously won the Australian Graphic Design Award for Publications, The Judge's Choice and Pinnacle award at the AGDA national event in late 2016, and a bronze award in the New Zealand Graphic Design Awards.

The list of finalists for the Melbourne Art Book Fair is available on the [National Gallery of Victoria website](#).



EASS Academic Excellence Awards presented

UniSA's Division of Education, Arts and Social Sciences (EASS) celebrated the achievements of staff and higher degree by research (HDR) students at an event in March.

Hosted by Professor Kerry London, Associate Professor Graham Hardy and Associate Professor Christine Garnaut, the 2016 Division of EASS Academic Excellence Awards were held on 8 March 2017 in the Bradley Forum.



The EASS Academic Excellence Awards recognise and celebrate the contribution and efforts of divisional academic staff, professional staff and HDR students.

Division of Education, Arts and Social Sciences Pro Vice Chancellor Professor Denise Meredyth says: "We value the high calibre of teaching and research staff and it is important that they are acknowledged for their contribution and celebrated for their achievements."

A range of awards were presented including nominated awards for teaching and research. The list of winners is published on the [EASS web pages](#).

APPOINTMENTS

Chancellor Jim McDowell appointed to Crows board

UniSA Chancellor Jim McDowell has been appointed to the Adelaide Football Club's Board of Directors.

He was appointed along with federal politician Kate Ellis.

McDowell said he was honoured by the appointment and the opportunity to support and enhance an organisation that is held in high regard by many South Australians and sporting fans in general.

"I have watched the club make significant progress in recent times and look forward to using my wide range of industry and government experiences to assist in driving further growth," he said.

Crows chairman Rob Chapman welcomed both Ellis and McDowell.

"Jim will bring a global view to our future direction using experiences gleaned from nearly 40 years in a highly competitive industry sector," Chapman said.

"Importantly their skillsets will complement what other directors already provide and with continued hard work the club is well-placed to achieve its strategic goals."

McDowell has been appointed for a three-year term.

Adelaide Football Club's Board of Directors are Rob Chapman (chairman), Jim Hazel (deputy chairman), Bob Foord, Mark Ricciuto, Rod Jameson, Linda Fellows, Richard Fennell, Kate Ellis and Jim McDowell.

ANNOUNCEMENTS

Can you capture UniSA research in a photograph?

The University is challenging its staff and students to use photographs to create a window into the world of research with the launch of this year's

annual research photography competition.

Now in its third year, the *2017 Images of Research: Engaged Research, Enterprising Researchers Photography Competition* opened this month. The competition, which aims visually showcase the breadth and diversity of research at the University, is open to all staff and students.

Deputy Vice Chancellor: Research and Innovation, Professor Tanya Monro says the image doesn't need to explain the research being conducted, but rather entice and captivate one's attention to raise awareness about our research.

First prize is \$5000 with a runner-up prize of \$2000 and an additional \$2000 prize for the People's Choice winner. The competition closes on June 7. For more information, go to the [Images of Research competition website](#).



The 2016 winning entry 'House in the urban heat island' by PhD candidate Gertrud Hatvani-Kovacs.

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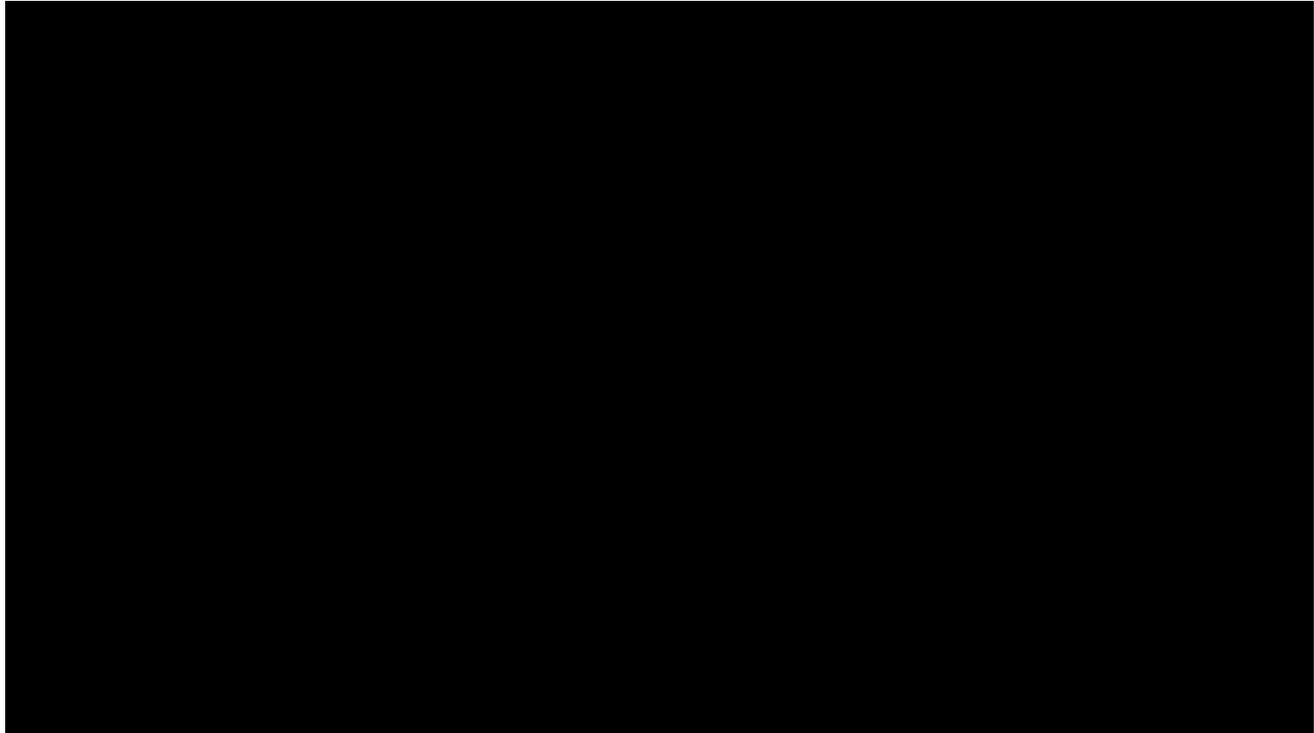
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University of
South Australia

4000 students graduate & four new Honorary Doctors named [Back to story index](#)

by Michèle Nardelli and Adam Joyce



Highlights from UniSA's 2017 graduations.

More than 4000 UniSA students have entered new chapters in their lives, graduating at one of 10 ceremonies held in Adelaide and Mount Gambier in March and April.

Vice Chancellor Professor David Lloyd said UniSA's graduates have been well equipped with the skills needed for the changing economy, including critical thinking and problem solving; and the ability to evaluate issues and information.

"As jobs evolve, the smart machines that automate them are actually freeing people like you to be the future problem solvers, the entrepreneurs, the creative thinkers and the social intelligence experts in tomorrow's knowledge economy," Prof Lloyd told graduates.

He said the next chapter would be full of possibility but also responsibility.

"So when we say you've been given the gift of an education, you have an obligation to use that gift to make yourself a better person, and in the process make the world a better place," he said.

Graduations took place across nine ceremonies in late March at Adelaide Convention Centre and a ceremony at the Sir Robert Helpmann Theatre in Mount Gambier earlier this month. A ceremony will also be held in Whyalla on 5 May.

See photos from the graduations on [UniSA's alumni network](#).

Five honorary awards were presented at the ceremonies, recognising exceptional achievement and acknowledging significant and eminent contributions to scholarship, professional practice and service to the

University and its community.

The 2017 recipients are featured below:

[Thomas Keneally](#)

[Emeritus Professor MaryAnn Bin-Sallik](#)

[Janet Holmes à Court](#)

[Professor Richard Head](#)

[Dr Ian Gould](#)

Thomas Keneally

One of Australia's most loved and respected authors, Thomas Keneally is best known for his Booker Prize-winning novel, *Schindler's Ark* (the basis of the Oscar-winning film, *Schindler's List*).

Keneally is one of Australia's most prolific writers of both fiction and non-fiction, with more than 50 works to his credit, ranging from historical novels to biographical works.

His novels *The Chant of Jimmy Blacksmith*, *Gossip from the Forest* and *Confederates* were all short-listed for the Booker Prize, while *Bring Larks* and *Heroes* and *Three Cheers for the Paraclete* won the Miles Franklin Award.

Keneally gave the occasional address to hundreds of graduates on 29 March, sharing his experiences from priest-in-training to school teacher, academic, and then novelist.

Vice Chancellor Professor David Lloyd says it is a great privilege to welcome Thomas Keneally into the UniSA community.

"Thomas is one Australia's most successful and prolific writers – an author who has helped to define and depict Australia across time and changing culture," Prof Lloyd says.

"He has also looked outwards and written defining works set beyond Australian shores and experience – including immensely powerful works, such as *Schindler's Ark*.

"He has published modern and historical novels, biographies, dramas, opinion pieces and children's stories - using his formidable talents to explore and inform readers of all ages and tastes.

"His love of writing, of storytelling and of using literature to shed light on human character, in all of its extremes, is a great gift to all who love books.

"That he has made such a vibrant, successful career from his writing is an inspiration for all young people who love literature and have a passion for writing."



Emeritus Professor MaryAnn Bin-Sallik AO

Professor MaryAnn Bin-Sallik AO was awarded an honorary doctorate marking her lifetime commitment to Aboriginal education and advancement, and her special place in the foundation of the University of South Australia, as a leader in Aboriginal histories and cultures and teacher education.

A Djaru woman from Northern Australia, Prof Bin-Sallik was the first Aborigine to graduate as a nurse in Darwin and she spent 17 years in the health care sector, working in Darwin and remote locations such as Lajamanu, before pursuing an academic career.

She was the first Aboriginal Australian to graduate with a Doctorate in Education from Harvard.

Vice Chancellor Professor David Lloyd says Prof Bin-Sallik holds a special place in the history of the University and in the history of Aboriginal academic achievement in Australia.

"In an era when the choices for Aboriginal women were both limited and bleak, MaryAnn aspired for knowledge," Prof Lloyd says.

"But not only did she get an education, she also guided and championed many hundreds of Aboriginal and Torres Strait Islander students to complete their education, both through her work at UniSA and other universities, her research, and her advocacy on national councils and boards."



Prof Bin-Sallik started her academic career at the lowest lecturing scale and reached the level of Pro Vice Chancellor.

In 2016 she was named NAIDOC's Female Elder of the year and this year she was awarded an Order of Australia in recognition of her passion and commitment to ensuring there are more opportunities for Aboriginal and Torres Strait Islander Australians to access education and succeed.

Delighted with the acknowledgement, Prof Bin-Sallik says she wants to continue to promote education as a path to fulfilment and self-determination.

"Education opens up the world for people, it brings understanding, innovation and empowerment," Prof Bin-Sallik says.

"That is something we should want for all children and it is certainly something for which I will continue to strive for Aboriginal and Torres Strait Islander children.

"If my career proves anything, it is that the opportunity to pursue education is one of the greatest gifts."

Janet Holmes à Court

Janet Holmes à Court was recognised for her outstanding contribution to the arts community, cultural organisations and to business – both in Australia and internationally.

For many decades Holmes à Court has generously supported cultural and arts organisations ranging across theatre, art, music, urban design and architecture.

Vice Chancellor Professor David Lloyd says Holmes à Court has been a strong promoter of public ethics in corporate life and her own philanthropy has inspired other business people to invest in the arts.



"Over the years Janet has served on many boards and generously supported the arts and other causes including research into cancer and diabetes.

"Her contribution to the community and to business has been recognised with many awards and honours including a Companion of the Order of Australia (AC) and being named one of the National Trust of Australia's '100 Living Treasures'.

"Among her many achievements, Janet has long been a supporter of Australian and Aboriginal art, and has built an internationally renowned collection that documents many areas of Australian cultural significance."

Today, the Holmes à Court Art Collection consists of more than 4000 registered artworks. Where possible, the collection is available for curatorial research and displayed in galleries around Australia through a program of lending.

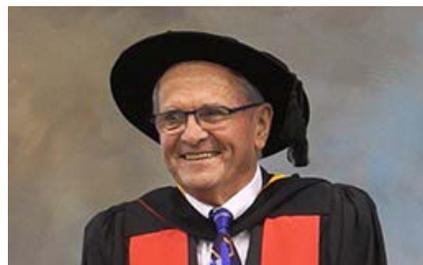
Following the sudden death of her husband Robert Holmes à Court – Australia's first billionaire – in 1990, Janet took over management of the family company – Heytesbury Pty Ltd – and successfully built up the group's cattle, horse breeding, vineyards, wine and engineering concerns.

Over the years Holmes à Court has served on many board including Chairman of the Australian Children's Television Foundation and the West Australian Symphony Orchestra. She was a founding patron and chairman of Western Australia's Black Swan Theatre Company (now the State Theatre Company) and served as chair of Stoll Moss Theatres, where she refurbished the majority of London's theatres resulting in her being named British Business Woman of the Year in 1995.

Professor Richard Head

Acknowledging a long career working to unpack the causes of diseases such as Alzheimer's, colorectal cancer and hypertension and in research leadership, the University made Professor Richard Head an Emeritus Professor in March.

Among his many leadership roles, Prof Head was appointed to steer UniSA's Sansom Institute for Health Research in 2012, and in 2013 was appointed to the University's senior leadership team as Deputy Vice Chancellor and Vice President, Research and Innovation.



Later he took on the important role of Foundation Director of UniSA's innovative new Future Industries Institute.

UniSA Vice Chancellor Professor David Lloyd says Prof Head is an outstanding researcher but also a creative thinker.

"Across his 40-year career in health science, Richard has been a champion for the importance of creative, collaborative research to tackle some of the big health challenges, from cancer to diabetes," Prof Lloyd says.

"In his time as director of the CSIRO's Preventative Health Flagship he was responsible for driving a national research program focussed on early detection and intervention in chronic diseases and for integrating CSIRO's fundamental and applied research in human health to support greater innovation.

"Richard brings together his personal knowledge of pharmacology research with his broader experience of government and international research, to build research environments that are outcomes-focused.

"He has been an asset to UniSA and will continue to be an asset to health science in Australia for years to come."

Prof Head was Professor of Pharmacology and Toxicology at West Virginia University Medical Centre, a Research Fellow with the Department of Medicine at the University of Melbourne, and a Postdoctoral Fellow at the Roche Institute of Molecular Biology.

He has served on a host of advisory committees, including the Scientific Advisory Council for the South Australian Health and Medical Research Institute and the Australian e-Health Research Centre Board, and key international and national boards including Research Australia, Food Standards Australia and New Zealand and the International Ageing Consortia.

He was awarded the prestigious CSIRO Lifetime Achievement Medal in 2012.

Dr Ian Gould AM

Former Chancellor of the University of South Australia, Dr Ian Gould AM was acknowledged for his enduring commitment to the University and his leadership across mining, health and science.

He was Chancellor of the University for eight years, playing a vital role in one of the University's greatest periods of growth.

A geologist by profession, Dr Gould was a leader across the Australian minerals industry in a 40-year career, working for Rio Tinto and the Conzinc Rio Tinto Australia Group and then as group managing director for Normandy Mining.



Vice Chancellor Professor David Lloyd says the University, like many other organisations in the community, has benefited enormously from his contributions and support.

"Ian's commitment to service, both at UniSA but also across the community – whether that be on the councils of organisations such as the Royal Flying Doctor Service or St Andrew's Hospital or in advocating for science education and broader access to education – he has been indefatigable," Prof Lloyd says.

"That great commitment to service was acknowledged in June 2011 when he was named a Member of the Order of Australia.

"He has always been generous in sharing his time and expertise with students and he has extended that personal contribution with a financial one, establishing Ian Gould Experimental Science Grant for Honours and PhD students to undertake hands-on research and to engage in work that is experimental and at the edge of discovery."

Dr Gould was made a Fellow of the Australian Academy of Technical Sciences and Engineering in 2007 and in the same year awarded the Australian Institute of Mining and Metallurgy Medal.

He served as chair of the Royal Flying Doctor Service, the Institute of Marine Science and St Andrew's Hospital.

Dr Gould retired from his role as Chancellor of UniSA in December 2015.

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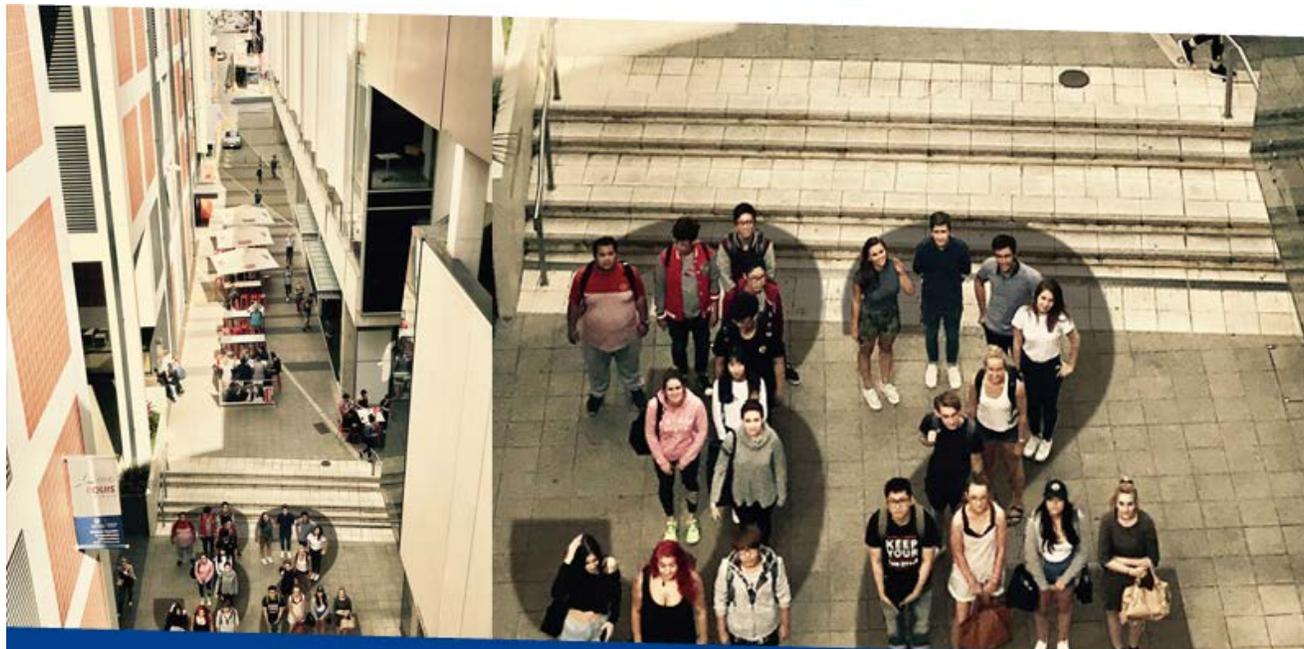


**University of
South Australia**

UniSA rockets to 32 in THE world's best young universities

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by Michèle Nardelli



COMMUNITY

UniSA has risen 25 places to be ranked number 32 in the latest Times Higher Education rankings of world universities aged under 50 years.

The [results](#) put UniSA at number four in Australia, the youngest, highest ranked in the nation, and the biggest mover.

UniSA Vice Chancellor Professor David Lloyd says the result is hugely satisfying.

“Part of our long-term strategy is to improve quality across the board at UniSA - in research, teaching, facilities, partnerships with industry, international engagement and student experience,” Prof Lloyd says.

“To see that that work is coming to fruition is very rewarding.”

Prof Lloyd says the result puts UniSA in the top 50 world universities under 50 years old in the two most widely recognised rankings tables, the Times Higher Education ranking and the Quacquarelli Symonds (QS) World University Rankings.

“We are young – we celebrated our 25th anniversary just last year – but we are focused on making UniSA one of Australia’s great universities,” Prof Lloyd says.

“For us that is about having researchers working on the big social and industry challenges and contributing to solutions.

“It is about delivering a dynamic, industry informed teaching environment for students.

**UniSA
ranked
with best
in world**

TIM WILLIAMS

UNISA has been recognised as one of the best “young” tertiary institutions in the world.

It has risen 25 places to number 32 in the *Times Higher Education* rankings of the world’s top universities operating for less than 50 years.

"It is also about being an institution that is globally focussed and enterprising in its outlook."

Clip from From *The Advertiser*, 6 April 2017

The rankings measure the same 13 separate indicators as the THE World University Rankings, but the Young University Rankings 2017 methodology has been recalibrated to reflect the special characteristics of younger universities, giving less weight to subjective indicators of academic reputation.



In a global field of 200, UniSA ranked fourth among eligible Australian institutions behind the University of Technology Sydney, Queensland University of Technology and University of Wollongong.

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Hackathon could transform drone technology

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by Hannah Saldaris



SCIENCE AND TECHNOLOGY

UniSA PhD graduate Jia Ming Kok, who now works for DST, working with engineering students at UniSA's six-week intensive hackathon.

UniSA's School of Engineering students are using their specialist skills to hack hardware, and in the process are hoping to create a more efficient drone design based on a dragonfly's wings.

In partnership with the [Defence Science and Technology \(DST\) Group](#) (part of Australia's Department of Defence), UniSA has launched a six-week intensive hackathon to test and prove a theory that dragonfly-like flapping wing technology would be more efficient than current drone technology.

UniSA PhD graduate Jia Ming Kok, who now works for DST, says advances in technology have allowed a hackathon based on hardware, rather than software, to happen for the first time.

"A few years ago, I would've said that hacking hardware wouldn't have been possible," Kok says.

"With the development of technology such as 3D printing in conjunction with Computer Numeric Control (CNC) machines we can speed up our processes to go from design to production in just a few days."

CNC machines convert designs produced by Computer Aided Design software (CAD), into numbers.

"My PhD study's aim was to prove that the dragonfly is a good flyer and the hackathon will test my theory and replicate the biology of the dragonfly to fill the gap in existing drones technology," he says.

The multidisciplinary team is made up of mechanical, electrical and mechatronic engineers who conduct paid work together from 9am-5pm. To improve efficiency, the group designs together, and eats lunch together, giving them as much time as possible with each other under the guidance of academic and industry supervisors to achieve their own part of the project goals.

"Working six weeks intensively helps us improve efficiency and meet tight defence timelines," Kok says.

“The team is working cohesively together with each person working towards their own part of the project.

“This unique experience presents UniSA engineering students with the opportunity to learn real skills fast with constant academic supervision and ongoing contact from sponsors. In fact, the team is currently ahead of schedule, something we’re really proud of.”

UniSA mechanical engineering student James Koning, who is working on the dragonfly wings, says the hackathon is a worthwhile experience.

“As it’s hardware based, we get to see our designs come through and get built really quickly, unlike most hackathons which are software based,” James says.

“We create a design on the computer and it gets built within the week and we can test the design to see if it works.”

Professor Javaan Singh Chahl believes that an aeronautically optimised dragonfly drone would have many benefits.

“Multirotor drones are approaching their apex. Big companies like Amazon will face battery power challenges to increase the payload capacity and range of multirotor for delivery missions,” Prof Chahl says. “Currently, flight time is 45 minutes at maximum, realistically much less for load carrying.

“Our flapping wing prototype is a unique approach compared to other big players overseas who are also working towards flapping wing drone prototypes.

“If we succeed, we will create drones that are robust to collisions, have stop/start functionality, and have a low tip velocity so as to be safe to fly around humans.

“My belief is that many small drones will embrace flapping wing technology in the next 15 years.

“We hope to make the hackathon a yearly event and expand the number of topics. With summer being a quiet time both commercially and academically, we can also seek out other unique real-world challenges to solve in this way.”

Top engineering students are hand selected or can apply to be involved in the project. Quality applicants will be selected based on the skills required to achieve the hackathon goal.

Students who are interested in participating can contact UniSA’s School of Engineering by email Sch-ENG.Enquiries@unisa.edu.au or telephone (08) 830 23011.

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First GO Scholarship winner announced

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COMMUNITY

John Boxer receives the Goodes O'Loughlin UniSA GO Scholarship from Adam Goodes.

The first Goodes O'Loughlin UniSA GO Scholarship has been awarded to Wirangu man and third-year Human Movement student, John Boxer.

Launched in 2016, the special GO Scholarships – named in honour of GO Foundation founders Adam Goodes and Michael O'Loughlin – are for high achieving Aboriginal students at UniSA who are studying in a sports-related field.

John began at UniSA as a mature-aged student with the goal of working within an elite professional sports environment and says his university experience has made him feel proud to represent his people academically, to promote change and to offer support to new students.

His commitment to high performance in his studies has been outstanding, and his grades reflect this hard work and dedication. John is focused on increasing his grade point average in 2017 to open up postgraduate study opportunities.

"I want to build a career that helps to educate, support and train the younger generation, influencing their journey and helping them to reach their goals – to participate in sport and for some, to participate at an elite level," John says.

He is also undertaking an internship at the Adelaide Crows Football Club under the supervision of the high performance team, where he is learning first-hand about the procedures and strategies of an elite sporting environment.

The GO Foundation partners with organisations to create opportunities for Aboriginal youth through education and the UniSA GO scholarship worth \$6000 a year, for up to four years, is also supported by funds from the South Australian Government.

Minister for Aboriginal Affairs and Reconciliation Kyam Maher says the scholarships help talented high-achieving

Aboriginal students achieve their sporting goals – both on and off the field.

“John is a worthy recipient doing fantastic work with our Aboriginal communities and I wish him all the best,” Mr Maher says.

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Pain by association – fact or fiction?

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by Rosanna Galvin



HEALTH

Ian Davey Research Thesis Prize Winner Dr Victoria Madden.

You've done your back and it hurts every time you move the wrong way. Just dropping something on the floor causes you to tense up as you anticipate the pain bending over will bring. But after the acute injury heals, you still feel that twinge when you lean over to put on your shoes. Why?

Many healthcare clinicians would attribute that lingering pain to a classically conditioned response that has developed over time. Your back still hurts when your brain registers you bending over because when you were injured that particular movement alerted the brain to potential danger.

It makes sense, right? Except it's a popular belief that is not actually based on evidence, according to UniSA PhD graduate Dr Victoria Madden. Her thesis revealed that while most healthcare clinicians she surveyed thought classical conditioning could explain pain with non-dangerous activities, there was no scientific evidence to substantiate the idea.

"We surveyed healthcare clinicians across the world and found the overwhelming majority believe the classical conditioning framework can be applied to pain in humans and believe that this is supported by scientific evidence," Dr Madden says.

"We also did a systematic review which showed this isn't the case – we couldn't find any clear experimental evidence. So there's this real discrepancy between what healthcare clinicians who are treating pain believe to be true and what has actually been demonstrated in experiments.

"My focus now is exploring whether we can verify that classical conditioning can cause pain to non-dangerous cues, but it's a challenging theory to design experiments for.

"As part of my PhD, I undertook two initial tests in this area. The first didn't show anything but the second one indicated that a neutral experience can come to influence pain via classical conditioning. While it didn't prove

pain can be classically conditioned, the test showed classical conditioning can contribute to some sort of perceptual bias as to whether an experience is *experienced* as painful or non-painful.”

It's an important piece of the puzzle that Dr Madden is continuing to work on and it could transform the way pain is treated.

“If we can demonstrate that pain can be a classically conditioned response, it could fundamentally change the way we treat people who have pain, particularly in the acute phase of injury,” she says.

“Perhaps we could use principles of learning, which effectively underlie classical conditioning theory, to prevent the persistence of pain.

“This might be by healthcare clinicians helping patients to learn to distinguish between situations that are dangerous or safe.

“If we use the example of back pain, it might be finding a way to teach patients to distinguish between motions that are safe and those that stress their tissues, and that kind of specific learning could promote recovery from both the injury and the pain.

“We're still in the early stages of this work but it's very exciting because there is so much potential.”

Dr Madden's work has recently won the Ian Davey Research Thesis Prize, which acknowledges the most outstanding research thesis by a UniSA research degree student leading to a Doctor of Philosophy degree.

Graduating last month, Dr Madden now plans to further her research at the University of Cape Town in her home country of South Africa but will continue to collaborate with the [Body in Mind group](#) based at UniSA.

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New mural to promote student wellbeing

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by Sophia Moshakis



HEALTH

The artwork *Well of Being* at UniSA's City East campus was created by local artist Lucy Bonnin.

UniSA's City East campus has a colourful new mural as part of an initiative to enhance student health and wellbeing.

The locally designed and painted mural artwork was an outcome of the 2016 [UniJam](#), a university-wide online brainstorming event.

Manager of Student Wellbeing at UniSA, Nadia Rajic, says the mural is a way of showing how important mental wellbeing is for the whole university community.

"For me, it communicates well the notion of how important our mind is in managing and juggling the many priorities," Rajic says.

"Research shows that when organisations such as a university incorporate health and wellbeing into their strategic plan as well as day to day business through policies, practices, learning and physical environments, this leads to positive changes in overall culture, attitudes, behaviours and connectedness that improve the wellbeing of the whole population, in this case our students and staff.

"Dr Laura-Anne Bull (Pro Vice Chancellor, Student Engagement & Equity) is one of our senior leaders who is a champion for wellbeing as integral to our student experience. The central aim of UniSA's Wellbeing Strategy and Action plan is to build an inclusive, connected community where students and staff can thrive."

The mural is a demonstration of the importance the University places on the health and wellbeing of students and staff.

Dr Helen Stallman from the School of Psychology, Social Work and Social Policy, says health and wellbeing are essential for learning, memory and stress management.

“Our brain works best and we learn better when we have enough sleep, eat well, and are physically active. Having spaces around campus where students can connect and relax with others is important to their overall wellbeing,” Dr Stallman says.

UniSA decided to partner with mental health education organisation [batyr](#) in 2016 as part of its wellbeing action plan and the idea of wellbeing became the basis for the mural design. batyr is dedicated to encouraging early help-seeking among young people with mental health problems and reducing the stigma of mental illness by working with high schools and universities to develop peer to peer support among young people at risk due to mental illness including depression and anxiety.

The artwork, *Well of Being* was created by local artist Lucy Bonnin, who believes art in many forms can enrich an environment. She says the piece represents the scale and depth of thought and emotion, displaying how difficult it can be to find space for ourselves in our own mind sometimes.

“The concept is inspired by Freud’s structural or iceberg theory of the mind, where three forces (the id, ego and super-ego) compete for influence on the mind,” Bonnin says.

“The colour scheme contrasts vibrancy and serenity, within a palate that draws from natural tones of the sun and sky. The construction also features a geometric pattern to create depth and also represent the abstract way our thoughts come together to symbolise a concept.”

The *Well of Being* covers the southern wall of the main entrance from Frome Road and is also visible from North Terrace.

If you’re interested in health and wellbeing, keep a look out for [Unitopia](#) in May, which will involve fun activities to encourage and promote wellbeing among students. Later this year, the University will support [RU OK Day](#) and Mental Health Week.

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Drive to prevent persecution leads Parisa to the United Nations

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by Adam Joyce



HUMANITIES

UniSA student Parisa Rowhani-Farid at the United Nations Office at Geneva.

A UniSA student is supporting the United Nations' efforts in Switzerland to safeguard human rights as part of her studies.

UniSA student Parisa Rowhani-Farid is completing an internship at one of the United Nations' principal offices in Geneva, where her work is focusing on preventing the persecution of members of the Bahá'í Faith in Iran.

Parisa, a third-year Bachelor of Social Work / Arts (International Relations) student based in Mount Gambier, says it's been a great learning experience.

"The majority of my work is confidential, however, what I can say is that I am usually working on various documents, conducting research, and compiling data and statistics, with a specific focus on the persecution of members of the Bahá'í Faith in Iran," she says.

"I predominantly write and edit documents for UN Special Procedures mechanisms."

Parisa says her choice of degree was shaped by her family's experiences. Her parents fled Iran in their teens because of religious persecution.

"Some of these stories were close to home, such as the story of my mother's aunty, Simin Saberi, who was hung in Iran at the young age of 24 for running the same classes for children (Bahá'í virtue classes) as I do now (in Mount Gambier)," she says.

"There's also the story of when Iranian authorities came to burn down my mother's childhood house in Shiraz, Iran, and the heroic response of her neighbours. They were not Bahá'ís themselves but the neighbours stood in front of the authorities and insisted that if they wanted to burn down the homes of Bahá'ís, they would have to

start with the first house on the street and work their way down.”

Based on the importance Parisa places in social justice and a desire to live a life of service as part of her faith, she originally planned to study Social Work, but later decided to also study International Relations.

“When I came to understand that it (international relations) largely relates to the study of war – and consequently, the study of peace – I found a deep interest in the field of international relations,” she says.

Parisa’s internship will count towards her degree through UniSA’s [Hawke Ambassador Program](#), which enables students to volunteer their time and skills with an international non-government organisation, usually overseas, rather than undertaking formal study at an overseas university.

The three-month internship is in the Bahá’í International Community United Nations Office.

Parisa says she would encourage all students to take opportunities to study or do internships overseas.

“The experience of living and learning overseas really does broaden your horizons,” she says.

“I think the best part about being here (in Geneva) is coming to understand what it actually means to work in international relations, and the different forms that it can take.”

After completing her degree, Parisa hopes to get a job working with refugees and asylum seekers.

“I’m very passionate about prevention in every field; and education is the only way that prevention can occur,” she says.

“Without education, we are unable to unlock our full potential.

“I hope to work either in the field of prevention or to work with Indigenous Australians in remote communities, but it remains to be seen. Who knows what the future has in store for me.”

Parisa is now off to Oslo, Norway to complete her social work placement.

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NEW BOOKS

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The pregnancy experience after perinatal loss

How parents cope with pregnancy after experiencing perinatal loss is the focus of a new book by UniSA midwifery academic Associate Professor Jane Warland and colleague Joann O'Leary.

Combining clinical practice with the personal experiences of families, *Meeting the Needs of Parents Pregnant and Parenting after a Loss* provides parents with a number of strategies to help them through subsequent pregnancies after experiencing the loss of a baby.

Dr Warland says it is important to provide tailored support to bereaved parents as their next pregnancy can be a very different – and often challenging – experience.

“Pregnancy experience is profoundly changed for most parents who have experienced perinatal loss,” she says.

“For example, the developmental tasks of pregnancy move from accepting the reality of the pregnancy and coping with the changes in role and relationships that pregnancy normally brings, to working with intense fear of another poor pregnancy outcome and coping with avoidance of attachment to the new baby for the fear of another loss.

“Most bereaved parents also struggle with a resurgence of grief and often feel that they can't be entirely happy in the new pregnancy out of loyalty to the baby who died.

“It's also common to find it difficult to attach to the unborn baby separate from the baby who died.

The authors hope their book will help parents navigate the complex journey of pregnancy and parenting following the loss of a baby.

“We want parents to know that it's okay to feel anxious in a subsequent pregnancy – it's completely normal,” she says.

“It's also okay for bereaved parents to continue to have an emotional bond with the baby who died for the rest of their lives and that's part of parent-child attachment.

“Bereaved parents benefit from intervention in their subsequent pregnancy that is ongoing, supportive and accepting of the continued bond but also acknowledges the importance of emotional attachment to the new baby.

“Our book gives bereaved parents the framework and tools to get through each stage of their pregnancy journey.”

Meeting the Needs of Parents Pregnant and Parenting after a Loss will also be an important resource for researchers, students and a range of health professionals, from social workers to educators, whose work touches on prenatal care. Published by Taylor and Francis, the book is available for purchase [online](#).

Languages and Literacies as Mobile and Placed Resources

Languages and Literacies as Mobile and Placed Resources explores how languages and literacies are implicated in the complex relationship between place and mobility.



Edited by Associate Professor Sue Nichols, Group Leader of the Multiliteracies and Global Englishes Research Group in the Centre for Research in Education, and Dr Collette Snowden, Senior Lecturer in the School of Communication, International Studies and Languages, the book examines emergent theories of mobility, networking and globalisation to account for the dynamic landscape of globally circulating communication resources.

“In this volume, we’re particularly interested in what happens to languages and literacies as resources *in place* and also as mobile *between places*,” Assoc Prof Nichols says.

“The field of communication studies has long recognised that effective communication is a matter of being fit for purpose. But this competence is jeopardised under conditions of mobility – whether virtual or material. Mobility changes the conditions of communication by bringing communicators into interaction with those who are in different contexts than themselves.”

The book comprises an international range of carefully chosen contributors, and addresses diverse contexts including marketing, charity, journalism, community organisation and parenting, as well as school and higher education. Reported studies were carried out in Asia, Africa, North America and Australia making this a truly international volume.

A must read text for academics interested in semiotics and literacy studies, the book is available to purchase [online](#).

Communicating Risk

Risk assessment has become a central concern for governments, organisations and the professions – with the communication of risk being a crucial part of professional work.

Communicating Risk, edited by UniSA senior lecturer in applied linguistics, Dr Jonathan Crichton, in conjunction with Christopher N. Candlin and Arthur S. Firkins, examines how people across diverse professional domains routinely communicate risk in ways that affect human lives.

“If the risks involved in risk communication are to be reduced, we need to understand both its macro and micro dimensions,” Dr Crichton says.

“Risk is not only about identifying hazards; it is also categorised, regulated, and interpreted according to social and cultural interests.

“And of course, risk is communicated among people according to their particular linguistic resources, expertise and circumstances.”

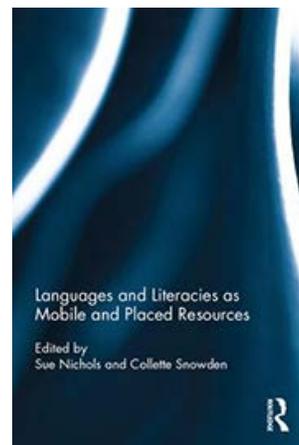
Drawing on invited contributions that address issues of central concern in healthcare, law, social work, finance, environmental management and biosecurity, *Communicating Risk* showcases the value of interdisciplinary dialogue among professionals, participants and researchers.

The book is available to purchase [online](#).

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**University of
South Australia**

news

April 2017

> from the University of South Australia

Highlights from the Media Centre

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From a project to prevent milk being spoilt through solar-driven refrigeration to research into the long-lasting effects of methamphetamine ('ice') on the brain, here are some of the top stories from our [Media Centre](#):

[Global research and industry collaboration tackling the challenge of energy](#)

The University of South Australia has been awarded close to \$1m to develop a commercialised renewable energy driven cooling technology integrated with energy storage for the refrigeration of raw milk.

Thermal Energy Storage Group Leader within UniSA's Barbara Hardy Institute, Professor Frank Bruno says by reducing energy costs and lowering spoilage of milk during storage, the novel energy storage technology will offer a financially attractive refrigeration solution for both the Australian and Indian dairy industries.

"It has been estimated that due to a lack of reliable and low cost electricity for refrigeration in rural India, 12 per cent of milk is spoilt before it reaches the pasteurisation facilities," Prof Bruno says.

"This project aims to develop a solar-driven refrigeration system integrated with phase change material for both energy storage and rapid cooling, which will maximise milk shelf life as well as minimise refrigeration running costs with few or no fossil fuel requirements."

The funds were awarded by the Australia-India Strategic Research Fund (AISRF), which supports Australian researchers collaborate with Indian scientists in leading-edge scientific research projects that help build links between Australia's and India's top universities, research institutions and the end users of scientific innovation.



[Supporting vital research addressing the burden of 'ice use' in South Australia](#)

Research has revealed a concerning similarity between the brains of young methamphetamine users and older people who have been diagnosed with Parkinson's disease.

The [Fay Fuller Foundation](#) is investing more than \$230,000 in UniSA Senior Lecturer in the School of Pharmacy and Medical Sciences, Dr Gabrielle Todd, and her colleagues' investigations into the long-lasting effects of methamphetamine ('ice') on the brain regions that control movement.

Dr Todd says brain scans show that the appearance of a movement-related brain region, called the substantia nigra, is abnormally bright and enlarged in methamphetamine users and in patients with Parkinson's disease.

"The abnormality is a well-established risk factor for Parkinson's disease and is used to help diagnose the disease in other parts of the world so it's very concerning to see this abnormality in young people that use methamphetamine," she says.

"Of even greater concern, is that young methamphetamine users already show changes in the way they move, and some of these changes resemble those that occur with Parkinson's disease."

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In Pictures

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Head of the River

The 2017 Schools' Head of the River Regatta, sponsored by UniSA, was held in late March at the Alex Ramsay Regatta Course, Military Road, West Lakes. Fifteen South Australian secondary schools competed.

Walford Anglican School for Girls won the 1st VIII girls and St Peter's College won the 1st VIII boys races as well as the prestigious title of Head





Pain Revolution Ride

A group of world-leading pain researchers cycled more than 870 km between Melbourne and Adelaide this month as part of the [Pain Revolution ride](#).

Led by UniSA Professor of Clinical Neuroscience, Lorimer Moseley, who has been at the forefront of research on pain and the brain for two decades, the cyclists stopped at rural centres en route to discuss the latest discoveries with local communities and learn from those who are facing persistent pain.





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