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October 2017

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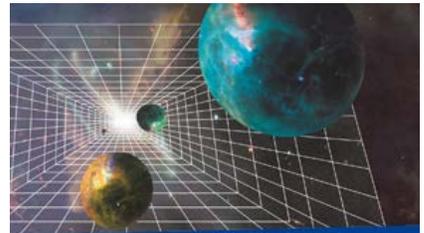
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Learning from the legacy of former PM in an age of anxiety

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by Will Venn



COMMUNITY

Australia's first female Prime Minister Julia Gillard delivering the 20th Annual Hawke Lecture at the Adelaide Town Hall.

Mental health reform is a national emergency “that needs many hands on deck”, according to Australia’s first female Prime Minister, Julia Gillard, who delivered the 2017 Annual Hawke Lecture.

Gillard presented the [20th Annual Hawke Lecture](#), with a central theme of anxiety. In the address, presented by [The Bob Hawke Prime Ministerial Centre](#), she referred to Brexit, Donald Trump’s presidency and “fake news” as collective responses to a wider sense of community anxiety.

The more personalised accounts of anxiety that Gillard related in her speech touched directly upon the issue of mental health and the impetus for reform in this area, given the prevalence of mental health conditions in society, which directly and indirectly now cost Australia \$40 billion a year.

Gillard said that in any year one million Australian adults will have depression; that last year (2016) 2866 Australians took their own lives; and that one in four of those attending that evening’s lecture will experience extreme chronic anxiety in their life – a condition not to be confused with the more regular “ups and downs” most experience in daily life.

Reflecting on her own family’s experience of mental health care, Gillard spoke movingly of her father working at Glenside hospital as a psychiatric nurse, using that experience as a barometer to measure society’s evolving approach to the care and treatment of those with mental health conditions.



UniSA Vice Chancellor Professor David Lloyd awarding Julia Gillard an Honorary Doctorate following her delivery of the Hawke Lecture.

“The attitude that mental illness was best never spoken of, that people should be shut away was alive and well while my father worked at Glenside,” Gillard said.

“As a woman of 56, I’ve been witness to the contemporary history in which our nation has decided that we no longer believe in isolating the mentally ill behind high fences and we need to have the conversation in our homes and workplace and community about what mental health is really all about.”

Highlighting courage and consensus as key values in her presentation, delivered at Adelaide Town Hall, Gillard’s oration flagged the influence of former Prime Minister Bob Hawke’s leadership on her own career and his political impact on Australia.

Gillard spoke of depression as something which doesn’t discriminate, delicately invoking Bob Hawke’s own battle with the condition during his time as Prime Minister.

“Bob has written about how the struggles of his daughter triggered his own depression. If depression can strike one of our most successful and loved PMs, it can strike anyone,” Gillard said.

Describing mental health reform as a national emergency “that needs many hands on deck” Gillard’s championing of a collective, communal response was one she related back to Bob Hawke’s inaugural Hawke speech.

“He spoke of the confidence Australia could and should have in the future but confessed a sense of foreboding. This was in 1998, the interregnum between the fall of the Iron Curtain and the destruction of the World Trade Centre,” Gillard said.

Describing the following 19 years (1998-2017) as a time when “geopolitical and economic upheavals had converged with a triumvirate of social, environmental and technological changes”, Gillard looked back on Hawke’s tenure as Prime Minister as “a masterclass in leadership in times of great change”.

“I am admiring not just of his political skills but of his values. Through all that change Bob demonstrated an unwavering belief in one certainty – that our nation needs to stand together and we need to look out for each other... you could call it ‘the fair go’.”

In response, Bob Hawke described Gillard’s speech, within the lexicon of Hawke lectures: “There has been none more compassionate and directed to the real problems of Australian people than the one delivered tonight.

“If we are going to optimise our chances of having a decent country in which everyone will have a fair go then we have to look at our fellow Australians and say we are not only fellow Australians but we depend upon one another, we have to cooperate with another.”

Following her presentation, Gillard was awarded an Honorary Doctorate from UniSA, in recognition of her political leadership and passionate advocacy of education and mental health care reform.

A full transcript for Julia Gillard’s speech is available on the [beyondblue website](#).

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UniSA and Crows join forces

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by Michèle Nardelli



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We fly as one ... UniSA and the Adelaide Crows have teamed up, heralding new collaboration in sports science and sports business research.

UniSA students will be given more opportunities to undertake placements and internships in the AFL thanks to a new partnership between UniSA and the Adelaide Crows.

UniSA and the [Adelaide Football Club](#) have announced a partnership that will provide a range of unique experiences for UniSA students to connect with the Crows.

It will also pave the way for collaboration in sports science and sports business research.

The three-year partnership, which will see UniSA support the Club's [AFL](#) and [AFLW](#) (women's) teams, will build on the strong links which already exist between the two organisations.

Crows Chief Executive Officer Andrew Fagan is looking forward to the highly productive partnership and benefits it will bring.

"We employ a number of graduates across the club in areas from business development to finance and football," Fagan says.

"Our Head of Football Brett Burton holds an honours degree in Human Movement from UniSA and we also already have a research-based relationship.

"We are delighted with the University's enthusiasm to extend and formalise our relationship and to offer more of its expertise in both research and education.



UniSA Vice Chancellor Professor David Lloyd and Crows CEO Andrew Fagan have announced a new partnership that will bring UniSA's expertise in management, marketing and big data to the business of sport.

“At the same time, we are keen to engage with students and give them insights into the working world of Australian Rules football through placements and internships.

UniSA and Crows join forces

“This will be a highly productive partnership for both the Crows and UniSA.”

UniSA Vice Chancellor Professor David Lloyd says the new partnership is an exciting development for two leading South Australian institutions, founded in the same era and with the same spirit of enterprise.

“We will be building on our already close links with the Adelaide Crows, which include a range of activities such as collaborations around leading edge research in sports science, elite performance measurement and training, athlete health and fitness and exercise science, as well as placement opportunities provided by the Crows for our students,” Prof Lloyd says.

“The new partnership which supports both the men’s and women’s teams, lays the ground to expand and deepen our engagement with the club by fostering player education and development, and bringing our expertise in management, marketing and big data to the business of sport.”

As a premier partner, the UniSA logo will be seen prominently on the sleeves of AFL and AFLW player and coach apparel as well as across match-day activations, member offers and experiences, and other events and branding.

For more information, visit the new [Crows partnership page](#) on the UniSA website.



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**University of
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Aboriginal chronic disease epidemic under the research spotlight

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by Candy Gibson



HEALTH

The Federal Government has made Aboriginal health a priority among its recent NHMRC grants.

World-renowned Aboriginal health researcher Professor Alex Brown has been awarded more than \$700,000 from the Federal Government to investigate why Aboriginal communities are more prone to heart diseases and diabetes, and to find ways to prevent this.

He is one of six UniSA staff who between them have secured more than \$3.6 million in funding from the [National Health and Medical Research Council](#). See the [list](#) of the other recipients.

Prof Brown, UniSA Chair in Aboriginal Health, will spend the next five years looking at the factors driving disparities in cardiovascular disease and diabetes after winning an NHMRC Research Fellowship, announced this month.

Cardiovascular disease is the primary cause of death for Aboriginal people and in combination with diabetes and kidney disease, accounts for 80 per cent of life expectancy differentials between Aboriginal peoples and other Australians.

"Type 2 diabetes has reached epidemic proportions in Aboriginal Australians, affecting up to 30 per cent of all adults," Prof Brown says.

"We are yet to understand the reasons for such aggressive and premature cardiovascular diseases and diabetes among Aboriginal peoples, even when patients are treated with known therapies. It is possible that a mix of genetic, behavioural and social factors are responsible for these disparities."



By the end of his fellowship Prof Brown hopes to identify new therapies and pathways to tackle the health crisis in Aboriginal populations.

His funding will also give more than 25 Aboriginal researchers the opportunity to deepen their understanding of chronic diseases which affect their communities.

In the past 15 years Prof Brown has employed more than 50 Aboriginal research staff (including 27 currently), and hopes to train a new generation of Aboriginal health researchers by 2022.

Health and medical research wins support

Key projects across the University have secured more than \$3.6 million in funding support from the [National Health and Medical Research Council](#).

Prof Shudong Wang has secured a Development Grant of almost \$1.2 million to continue research into highly selective [CDK4/6 inhibitors](#) for the treatment of cancer.

Dr Natasha Stanton has won more than \$430,000 in a Career Development Fellowship to continue research into reducing pain and improving movement for sufferers of knee osteoarthritis.

UniSA Professor Jana Morrison won about \$640,000 for her research into promoting early healthy heart development to improve adult heart health under the NHMRC Research Fellowships scheme.

And two Early Career Fellowships, together worth more than \$720,000, have been awarded to Dr Kristin Carson for research in health programs for youth and Stephanie Conos for cancer research.

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INSIDE UNISA

What's your strategy going forward?

That's a question I've been hearing more and more of late. I sometimes respond with 'keep scoring goals' the Brazilian football team's strategy from the late 70s and early 80s, but I worry about its currency. In reality, everyone knows that UniSA has been doing well and they know that after five years of successful delivery against the objectives we set ourselves in [Crossing the Horizon](#) that a new 'plan' is, ironically, now on the horizon. I cracked a few jokes about pulling together the difficult second album in the recent town halls – where I got to outline my high level thinking about the next phase of our enterprise (note to self – try to decouple brain from subliminal communication of arcane Star Trek trivia – just remembered that the first sequel planned for the original Star Trek TV series was indeed called Star Trek: Phase 2) (I digress).

The message I was sending at those meetings (and apologies to those that couldn't attend, and to those that did attend and couldn't get seats!) was pretty simple. We have been doing well and we should celebrate that. We are a high performing organisation, focused as one team. Oriented as Australia's [University of Enterprise](#). But the other message I was sending is that we can't afford to rest on our laurels. We have to innovate and continue to cement our position on the national and international stage – as one of the world's best young universities. We cannot be complacent in any facet of our operations. We are an institution that educates modern professionals for their future careers and connects with our stakeholders through a lens of end-user informed research and engagement. We need to give due consideration to the programs we teach, the people that support their delivery and the places in which we operate. Our focus must be on improving the lot of our students, our staff and our stakeholders. We can do that by being very clear and definite about what we actually think 'great' is – and charting our course from good to great across our suite of programs, our institutional research portfolio, our built environment, our staffing and culture and our custom and practice. Simple enough. And self-determined.

With a clear benefits framework in mind we can interrogate our business decisions to ensure they map to us realising a shared vision for UniSA in 2025. Enterprise 25 will be that plan. Not a list of things to do – more a roadmap with signposts to the future of Australia's University of Enterprise – built around programs, people and

precincts. And being awesome. Let's not forget that bit. Changing the tyre while driving the car. Google it. Challenging – but not impossible. That's the road we've taken these past five years. And the road that's brought us to our being currently rated as [Number nine in Australia](#) in Times Higher Education's 2018 list of the nation's top universities. After only 26 years. No prize for guessing who the other (Group of) eight universities are (with an average age of 110 years – just saying). I'm betting they hadn't factored on our sitting alongside them in the top 10 at this point in time.

Building on our established momentum, here at the crest of the horizon, we have much to be happy with and still more to accomplish in the years ahead. And that will be accomplished together. As we found out through two [Unijams](#), the people who know our organisation the best are the people who will guide us into an exciting and prosperous future. That's you. We can clearly define who we are, what we do and how we do it. What we value and what makes us proud about UniSA. And what UniSA will have to do to make us prouder still. Our answers will help to define our collective future as Australia's University of Enterprise. Our discussions in the coming months around programs people and precincts will chart our course to greater success.

Professor David Lloyd
Vice Chancellor and President

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AWARDS

Academy of Social Sciences election

Two UniSA Professors have been elected as Fellows of the [Academy of Social Sciences in Australia](#).

Professor Carol Kulik, Research Professor in Human Resource Management at the [Centre for Workplace Excellence](#) along with Professor Joffre Swait, Research Professor and co-Director of the [Institute for Choice](#), will be formally recognised as Fellows this month.

Prof Kulik says it is an honour to be elected to ASSA by her peers.

"The contributions made by previous generations of Fellows have been so great, it is truly humbling to be invited to join their ranks," Prof Kulik says.

"I'm especially excited about joining ASSA because of its focus on leveraging research to inform public policy. Social science research has much relevance for society, but it can be a challenge to get research results into the hands and ears of policymakers."

Fellows are elected to the Academy by their peers on the basis of a distinguished contribution to one or more of the Social Sciences that has also been recognised internationally.

UniSA staff presented national awards for university teaching

A number of UniSA staff and teams have been recognised nationally for their outstanding contributions to student learning.

Two teams and two individual staff have received Citations for Outstanding Contributions to Student Learning as part of the Department of Education and Training's [Australian Awards for University Teaching](#).

Citations are awarded to those who have made a significant contribution to the quality of student learning in a

specific area of responsibility over a sustained period, whether they are academic staff, general staff, sessional staff or institutional associates.

UniSA's awardees for 2017 are:

Environmental and Geospatial Sciences Program Team: Dr Tom Raimondo (Program Director, School of Natural & Built Environments [NBE]); **Associate Professor Delene Weber** (Acting Dean: Teaching and Learning, Information Technology Engineering and the Environment Divisional Office); **Dr Justin Payne** (Program Director, NBE); **Associate Professor David Bruce** (Adjunct, NBE) and **Morgan Schebella** (Lecturer, NBE) for transforming field-based teaching of Environmental and Geospatial Science and the attainment of critical field skills through immersive digital visualisations.

Gabriella Bisetto (Senior Lecturer, School of Art, Architecture and Design) for implementing a suite of learning experiences that enables students to graduate as successful glass artists with commensurate industry skills and professional knowledge.

Dr Sally Plush (Senior Lecturer in Chemistry, School of Pharmacy and Medical Sciences) for sustained commitment to improve learning and self-confidence through peer learning strategies which support a scaffolded approach to deep scientific learning.

UniSA HDR Supervisor Development Team: Dr Cassandra Loeser and Professor Alistair McCulloch (Lecturer: Academic Development - Research Education, and Head: Research Education, Teaching Innovation Unit) for a sustained and outstanding contribution to research degree supervisor development, and the development of a method for measuring the impact of supervisor professional development.

Provost and Chief Academic Officer Professor Allan Evans congratulated the award recipients.

"It is wonderful to have had so many of our own acknowledged this year, continuing our track record of high performance in these significant national awards," he said.

The full list of national award winners can be found on the [Department of Education and Training website](#).

Space inspiration for exhibition

UniSA's interactive public science and creativity space, [MOD](#), has partnered with the [SA Museum](#) in an arts project which coincided with the International Astronomical Congress which was held in Adelaide in September.

Leading up to the conference, UniSA's Communication Design third-year students were asked to create artworks which reflected on Hubble Telescope images and what it means to explore space.

The five winning images - created by Caitlyn Burgess, Scarlett Paschke, Nicole Faiello, Taylor Summers and Bryan Fernandez - formed the Space: Eyes on the Sky exhibition which is currently being held at the SA Museum.



The winning third year communication design students (from left) Caitlyn Burgess, Bryan Fernandez, Nicole Faiello, Scarlett Paschke, with Dr Andy Thomas and Taylor Summers.

"We have creatively engaged UniSA students to reflect on the human endeavour to explore space through technology as part of their study in visual communications," says Director of MOD, Dr Kristin Alford.

"The Hubble Telescope is inspiring and a great example of innovation in the pursuit of finding meaning to our existence."

See [In Pictures](#) to view all the winning artworks.

FORMing innovation through design

[UniSA's School of Art, Architecture and Design](#) sponsored and presented the Award for Innovation in Planning at the inaugural FORM Innovation Awards held at SAHMRI earlier this month.

The [FORM Innovation Awards](#) highlights and celebrates innovations in the design industry in South Australia, across architecture, design, landscape architecture, planning, and graphic design.

The Award for Innovation in Planning was won by the City of Norwood, Payneham

and St Peters for its bicycle boulevard project along Beulah Road; while UniSA architecture alumnus, Brett Abroe and his employer, Tridente Architects, were awarded for MicroX – a high-tech manufacturing facility located at the former Mitsubishi car plant.

Dr Johannes Pieters, UniSA Program Director for Urban and Regional Planning, was on the judging panel for the awards and highlighted the quality of design throughout the awards.

“All the design projects and ideas for this competition were outstanding,” he says.

Professor Joanne Cys, Head of School Art, Architecture and Design presented the winning design in the planning category.

“The projects entered into the FORM Awards have already been subject to the rigorous peer judging processes of the professional bodies’ own awards programs, rendering the projects entered into the FORM Awards as the best of the best,” Prof Cys says.

The awards ceremony also launched the second edition of [FORM Journal](#) which was edited by UniSA’s Nathan Crane from the School of Art, Architecture and Design.



Mario Barone, Chief Executive Officer from the City of Norwood, Payneham and St Peters receiving the Award for Innovation in Planning from UniSA’s Professor Joanne.

Two UniSA teams among SA GovHack winners

Two UniSA teams were among the 2017 South Australian winners of [GovHack](#) – an annual competition that brings together technology creatives and innovators to explore and discover new ways to create a better society, in just 48 hours.

Three information technologists from UniSA’s Research and Data Management Support Team – Chris Kyriacou, James Moyon and Ryan Brown – were awarded the prize in the Neighbourhood and Community Confidence category.

The team created [‘Suburb Outlook 2030’](#) which is a forecasting tool designed to assist government authorities with making forward-thinking and informed decisions about the future development of the suburbs in a given postcode.

In the category of Safe Travel, a UniSA team won for its [‘SafeRoute’](#) project which aims to provide awareness for high risk areas while driving in South Australia.

Using the tools created, road users can plan a route to reduce their accident risk.

The team is made up of UniSA information technologists Adam Fedornak, Troy Stearnes and Agha Usman as well as undergraduate student Andrew Zamecnik and Micah Cearns, a psychiatry research officer from Adelaide University.



UniSA energy expert awarded Premier’s Research Fellowship

UniSA’s Professor Frank Bruno has been awarded a Research Fellowship under the [Premier’s Research and Industry Fund](#).

The scheme was established to support the state’s research sector to develop new ideas and cutting-edge products, services and technologies for the community.

The Research Fellowship will support his position as South Australian



Chair in Energy based at [UniSA's Future Industries Institute](#).

In this important role he will enhance the state's research capabilities and facilitate further uptake of renewable energy by exploring novel technologies to store energy for cooling and heating, in addition to the adoption of innovative energy-efficient systems.

A research professor at UniSA's Barbara Hardy Institute and leader of its Thermal Energy Research Group, Prof Bruno's research, consultancy and teaching focuses on thermal storage, low energy buildings, air conditioning, refrigeration and solar thermal and understanding more about phase change material (PCM) for thermal storage for refrigeration and concentrating solar power.

Samstag scholars announced

UniSA has announced the recipients of the prestigious 2018 Anne & Gordon Samstag International Visual Arts Scholarships: Sasha Grbich from South Australia, and Julian Day from NSW.

Now in its 26th year, the scholarships provide each artist with a 12-month living allowance of USD \$48,000, as well as travel expenses and study fees at a leading international art school of their choice.

Sasha Grbich's art combines sculpture, sound and video installations. An avid collector of strange 'things,' found footage, sounds and stories, she is fascinated by the ways that art interacts with everyday life.

Grbich currently lectures installation, video and performance at the Adelaide Central School of Art, from where she graduated in 2003. In 2015, Grbich completed her Masters by Research at UniSA.

Julian Day is an artist, composer, writer and broadcaster whose work centres on sound. He holds a Master of Fine Arts from the Sydney College of the Arts and an Honours Music degree from the Queensland Conservatorium of Music.

Through performance, installation, sculpture, video, text and recorded audio, Day treats sound as an essential means of examining the world.

Two UniSA researchers win awards for health innovations

Two UniSA researchers have been recognised among South Australia's top female innovators at the [2017 Winnovation Awards](#), presented this month.

Dr Kate Fennell took out the rural, regional and remote category after being nominated by Dr Nadia Corsini for designing and evaluating innovative methods of improving the health and wellbeing of rural communities.

Dr Fennell is working on an array of tools to improve rural people's wellbeing including a YouTube Channel to provide peer support to people who can't access a face-to-face program. Another tool is an online, self-help program to improve farmers' wellbeing and ability to cope.

Dr Fennell says it was an inspiring event.

"It was a great honour to win the prize and wonderful to hear about the other exciting innovations being led by South Australian women," she says.

Dr Melanie MacGregor won the engineering category for an innovative, non-invasive tool to diagnose bladder cancer through a patient's urine.

The method provides a more comfortable way to test patients for bladder cancer and is creating jobs by using local advanced manufacturing facilities.

Dr MacGregor says she was surprised to win the award and would like to use the platform to raise awareness of bladder cancer.

"I am very grateful to see the project I have been working on for years recognised at a state level," Dr MacGregor



says.

“The award comes as a big encouragement for the whole team of dedicated researchers, engineers, students, clinicians and nurses involved.”

The awards showcase and celebrate the successes of South Australian female innovators who make an impact.

Grant offers greater links between UniSA and Vietnam

School of Education lecturer Dr Ngoc Doan is one of just 16 people nationwide to be awarded an Australia-ASEAN Council (AAC) Grant.

Dr Doan’s project will strengthen ties between UniSA and Vietnam, bringing together more than 150 lecturers across 30 higher education institutions to enhance learning, teaching and research in English medium instruction (EMI).

Dr Doan will receive almost \$50,000 towards his project, *Institutional links to address issues in higher education in Vietnam*.

Launched in 2015, the [AAC grants](#) aim to increase collaborations and sharing of knowledge between Australia and South-East Asia.

Dr Doan says he’s thrilled to receive the grant and excited at the opportunities it will open in English language education in Asia.

“The project gives participating university managers and lecturers opportunities to share and exchange their experiences and practices. From these exchanges, innovations for delivery of EMI programs and courses will be born,” Dr Doan says.

The project will involve a range of workshops and seminars addressing issues related to English medium instruction (EMI) and provide Vietnamese EMI lecturers and institutions with opportunities to explore alternative teaching methodologies to deliver EMI and develop English language support systems for their students.

The full list of grant winners can be found on the [DFAT website](#).

ANNOUNCEMENTS

Vale Professor Eleanor Ramsay

One of the most vital and passionate advocates for the power of education to change lives and empower women and the disadvantaged, Professor Eleanor Ramsay, died this month in Tasmania.

A key contributor and leader in the first 10 years of UniSA, Prof Ramsay was appointed as Australia’s first Pro Vice Chancellor for Equity and Development, a role dedicated to improving engagement in education for marginalised and disadvantaged groups.

She began her career as a secondary school teacher and soon became involved in adult learning and the teachers’ union, which led her to focus on how research and changes to education policy could improve participation in education.

She was a leader in anti-racism and anti-discrimination initiatives across her career and a mentor to many women in education, government and the business sector.

After her retirement from UniSA she moved to Tasmania with her husband, Professor Michael Rowan (former UniSA Pro Vice Chancellor for Education, Arts and Social Sciences).

Together they continued to work as determined advocates for improvements in education.

Most recently, she had been working as an honorary professor at the University of Tasmania within the Division of the Deputy Vice Chancellor (Students and Education) and was heavily engaged with community-based and public policy interventions aimed at increasing educational attainment levels across the schooling sector in Tasmania.

UniSA Vice Chancellor Professor David Lloyd says Professor Ramsay’s energy and commitment to education and equity was palpable.

“Eleanor was vibrant, vocal and authoritative about education,” Prof Lloyd says.



“She had engaged in the research, influenced the policies, battled the politics and always remained committed to a goal – that education is the most powerful tool in fighting disadvantage.

“We have always been proud to have her on our honour roll – she was awarded an honorary doctorate from UniSA in 2002 – and we have been grateful for her ongoing support for UniSA and more broadly, for education in Australia and around the world.” “We send our heartfelt condolences to her husband Michael and her family and friends. Eleanor will be greatly missed.”

I choose SA for industry

UniSA’s [Future Industries Institute](#) (FII) partnered with Brand SA during September to showcase the breadth and depth of activities related to ‘Future Industries’ across the State.

The partnership, as part of Brand SA’s ‘I choose SA for industry’ series, provided a platform to explore potential opportunities for collaboration, and for business to learn more about how FII can support companies across South Australia.

During a series of events held throughout the month, staff from FII and the wider University, were connected with government and industry representatives.

“The breadth of Brand SA’s membership has provided an excellent opportunity for UniSA and the FII to connect with new companies and seed new partnerships,” says FII Director, Professor Emily Hilder.

“Working closely with industry to develop and deliver innovative solutions that our partners value and need is at the core of FII’s mission; to help transform the industries of today and seed the industries of tomorrow.

“It also provided us with an opportunity to showcase UniSA’s Future Industries Accelerator (FIA), which is a \$7.5 million investment from the South Australian State Government focused on assisting local industries to build their research and development capacity and accelerate growth, and creating high-value jobs in SA.”

New space possibilities in SA

UniSA has signed a memorandum of intent with the State Government and the International Space University (ISU) to extend its engagement to support space entrepreneurship.

UniSA Deputy Vice Chancellor: Research, Professor Tanya Monro says the agreement paves the way for creative collaborations to support South Australia’s growing contribution to what is a \$3 billion industry nationally.

Prof Monro says UniSA’s expertise in satellite systems engineering, virtual reality and AI technologies, analytics, materials science and nanotechnology and in vital human factors, through its [Behaviour-Brain-Body Centre](#), has enormous potential to contribute to the space industry.

“Our approach to research is keenly focussed on partnering with industry - helping them to find solutions to their challenges or make the improvements that support industry viability and success,” she says.

Also late last month, UniSA welcomed the announcement of a new Australia Space Agency as a focus for Australia’s space industry.

Prof Monro says the University will focus its satellite research in support of federal investment into space technologies.

“Enterprising collaborations with industry put us in the box seat to meet the engineering, commercial and legal challenges posed by space industries,” Prof Monro says.

“UniSA is already working to establish a Cooperative Research Centre for Innovative Space Solutions that will further strengthen Australian research into satellite technologies and space systems.”

Aria nomination for jazz band

The James Morrison Academy Jazz Orchestra was nominated for an Aria award in the Best Jazz Album category.



A tour of the Thin Film Process Development Lab at Mawson Lakes during September.



The nomination to James Morrison and the James Morrison Academy Jazz Orchestra for their album “James Morrison with his Academy Jazz Orchestra” is a boost to the band which is made up of students from the [UniSA James Morrison Academy of Music](#) at the Mount Gambier campus.

The winners in this category were announced last week at the launch of the 2017 Aria Awards. James Morrison’s album “The Great American Songbook” was the overall winner in this category.

Symposium tackles the legacy of wars – old and new

Held every two years, the Narratives of War Symposium brings together research and experience focused on the experience of war.

This year’s symposium, [Generations of War](#), held 17-18 November, is hosted by UniSA’s School of Communication, International Studies and Languages in partnership with the [Military History Society of Australia](#) and features 37 presentations focused on military history, the experience of veterans past and present, and a range of defence issues.

Co-convener, UniSA Professor Kerry Green, says the symposium offers a unique opportunity for scholarship, professional development and industry networking as the scope of event extends its reach into the defence and veterans’ communities.

The Narratives of War Symposium continues to provide a unique opportunity for community and industry engagement, bringing together researchers, scholars and industry professionals with a shared interest in the reality and legacy of war and conflict,” Prof Green says.

This year’s program explores military experience from a range of historical and contemporary perspectives, crossing generations as it gives a voice to narratives both old and new.

Sponsored by [Veterans SA](#) and the [Defence Reserves Association](#), the symposium will include dedicated sessions on Defence Reservists, as well as keynote presentations by Professor Melanie Oppenheimer, Chair of History, Flinders University and Professor Alexander McFarlane, Head of the University of Adelaide Centre for Traumatic Stress Studies.

Generations of War will be held at UniSA’s City West campus. More information about the conference and registrations can be made by contacting [Julie White](#).

APPOINTMENTS

Thomas Keneally appointed Professorial Fellow at UniSA

Booker Prize winner and “national treasure,” Thomas Keneally, has been appointed a Professorial Fellow at UniSA.

Author of more than 30 novels, and many more dramas, screenplays and books of non-fiction, Keneally is best known for his Booker Prize winning *Schindler’s Ark*, later adapted into the Academy Award winning film *Schindler’s List*.

The three-year Fellowship will see Keneally deliver masterclasses at UniSA from 2018, providing invaluable insights for students of creative writing and literature.

UniSA Vice Chancellor Professor David Lloyd describes the appointment as an excellent opportunity for students to benefit from the wisdom, talent, insights and experience of one of Australia’s most successful authors.

“Tom’s works have helped to define the experience of Australia – the landscape, the history, the people,” Prof Lloyd says.

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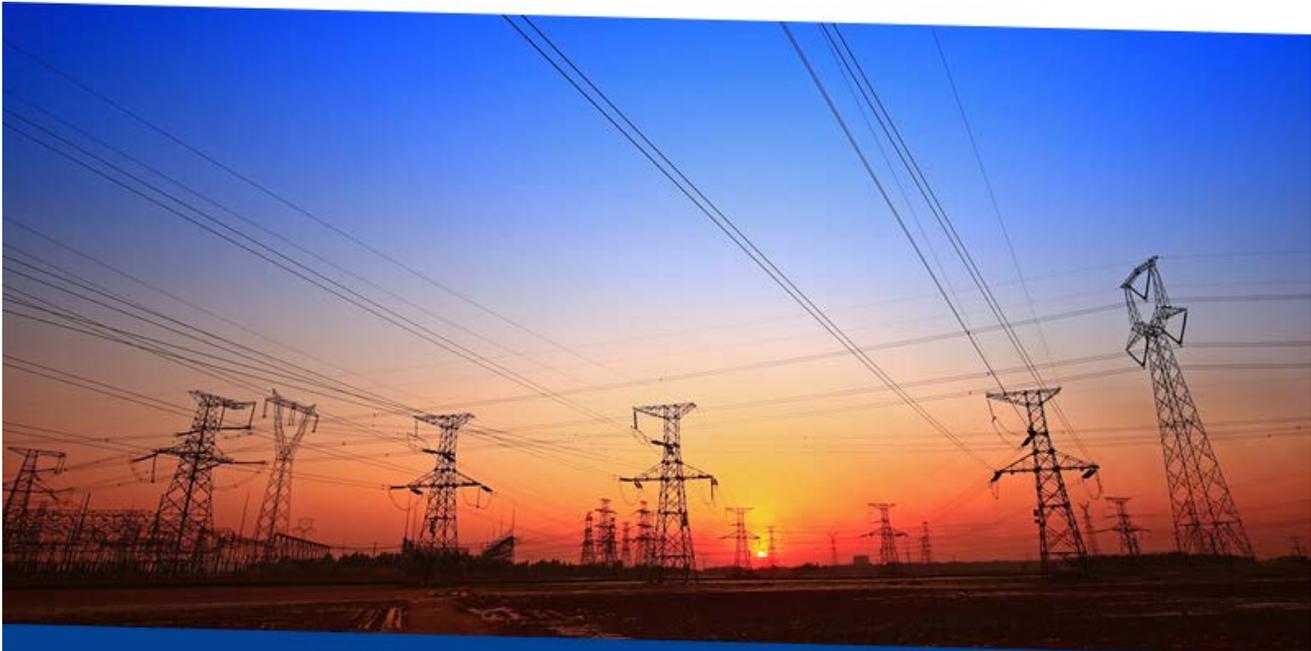


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Localised power generation could reduce power prices and blackouts

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by University College London Teaching Fellow Dr Arnold McKinley, who has been working in Australia on a collaboration with UniSA's Future Industries Institute.



SCIENCE AND TECHNOLOGY

Does it make sense to super heat water to 450°C to create steam for a turbine that makes electricity, which is then shipped hundreds of kilometres to your house, where you heat water to 100°C to make a cup of tea?

In many ways it's neither smart nor efficient. It is also costly. The cost of the fuel, turbines, the transmission and distribution lines, all add to fees to electricity retailers charge consumers.

But there is another way – distributed power generation through mini power grids capable of operating independently from the main power grid, known as micro-grids.

While [Hurricane Harvey](#) carved up pieces of Texas in August, an important experiment in electrical grid management was under way. A company that manages small, private electricity networks which serve multiple premises (known as an embedded network, which can also provide electricity to the main grid) and micro-grids separated its Houston Texas business clients from the main grid. This not only kept their clients' lights on, it also allowed those businesses to provide critical services to others hit hard by the enduring storm.

The process is called "islanding". Although embedded networks normally supply energy to the main grid through a normal substation connection, their essential task is to supply power to the locality, ensuring that the local community has electricity when the main grid goes down.

Imagine if Australia had a similar set up with micro-grids and embedded networks across the country? When the [violent storm hit South Australia](#) in September 2016, the loss of the three transmission towers would have only had a small consequence. Instead of pitching the entire state into darkness, lights in the majority would have stayed on, and services would have remained open.

Small, localised power networks would help lower electricity prices

But embedded networks do more than ensure a secure power system; they also lower prices. The key to an effective embedded network is to make sure that electrical demand due to local loads within the network is met at every instant by local generation and storage on the rare occasions when the external grid fails or, on the more common occasions when the external grid is not able to supply cheap, clean power.

As the price of solar and battery storage falls, there is nothing to prevent residential homeowners and commercial business owners from buying solar modules and batteries and separating from the grid entirely, to survive on their own. That's a scenario the network providers say will lead to a "death spiral", because it means that they have to raise prices, which causes more people to buy solar and separate from their networks. Moreover, it burdens those on lower incomes, who cannot afford their own solar systems, and who face price rises they can ill afford.

Indeed, keeping one's solar to oneself is sometimes not the best solution to knocking down high prices. Sharing your power with others in a community embedded network may be a better idea.

Such a network would not necessarily disconnect from the wider grid – the wider grid lets it trade energy with other embedded networks when it is cost-effective to do so, and to buy cheap, clean energy from wind farms when it is available. But the system software that allows a network to behave like this opens up the possibility of forming intentional communities who want to share power at lower prices for everyone in the community, not just those than can afford the fully capable solar/storage system for their own use.

What's nice about embedded networks is that technical modifications to the current system are minimal. Many loads are easy to control using standard control interfaces: air conditioners, water heaters, pool pumps, electric vehicle chargers and energy storage systems. The real changes come in the social and business models. What will people think about sharing power with their neighbours? What are the business models that make all this happen and keep people employed?

Here are four ideas; there certainly are more:

Four models for localised power networks

1. Individual home and business owners sell their solar power and stored energy to retailers, who in turn sell to other homeowners and businesses in the same network who need the energy. The embedded network provider maintains the infrastructure. When the main grid fails, the provider decides what to do to keep the lights on. This is the "free-market" or "retail" model now in use, but the power generators are within the local community itself rather than far away.
2. The network provider not only maintains the network infrastructure, but also leases rooftops and yard space for solar generation and storage systems. They act as generator and retailer, similar to the current system now used throughout Australia. This is a derivative of the "generator and retailer" or "gentailer" model currently in use.
3. People within a local area form an "intentional community"; they pool their resources and purchase generation and storage for their own benefit, primarily to keep the price of electricity as low as possible. They may hire a network management company or may simply hire the help they need and manage it themselves. Intentional communities such as ecovillages are often set up under the guidelines of international organisations, such as Global Ecovillage Network (GEN). We might call this the "intentional community" model.
4. An entrepreneurial developer builds a community of homes, a shopping centre, or a community centre, building efficiently with an eye toward conservation, placing on-site solar and wind generation and storage, then selling electricity to its clients with an eye on a bit of profit. This is called the "entrepreneurial" model.

The South Australian government recently announced millions in funding for a [utility scale battery storage facility](#) and the [largest solar thermal power plant in the world](#). Their focus is on large scale power production because that's the way we have always thought about it; that's the way the business models are setup. And in some cases, such as powering industry and large commercial manufacturing operations, it makes good sense.

But it can be inefficient and costly

Focusing on distributed power generation and sharing within embedded networks brings free fuel, secures the grid, possibly reduces network charges, employs people locally, and brings communities together in a very interesting and productive way. If Australia decided to try out embedded networks, we wouldn't be the only ones doing so; it looks like they worked quite well in Houston Texas this past storm season.

Dr Arnold McKinley spent three months in Adelaide as part of a collaboration arranged jointly by Professor Emily Hilder and Professor Peter Murphy from the Future Industries Institute, with Dr Craig Styan and Dr Ady James from UCL Australia.

SA Embedded Network and Micro-grid Study members

- Prof Peter Murphy (UniSA)
- Prof Frank Bruno (UniSA)
- Prof John Boland (UniSA)
- Assoc Prof Peter Pudney (UniSA)
- Dr Adrian Grantham (UniSA)
- Luigi Cirocco (UniSA)
- Kirrilie Rowe (UniSA)
- Heather Smith (UniSA)
- Dr Arni McKinley (UCL Australia)
- Dr Craig Styan (UCL Australia)
- Dr Ady James (UCL Australia)

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Solar test field to spearhead innovation in renewable energy

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by Michèle Nardelli



SCIENCE AND TECHNOLOGY

UniSA Deputy Vice Chancellor: Research, Professor Tanya Monro, SA Treasurer Tom Koutsantonis and Premier Jay Weatherill beside one of the heliostats (which incorporate mirrors) at the launch of the concentrated solar research field in Edinburgh Parks.

UniSA is at the forefront of next generation solar power technology with the completion of a concentrated solar research field in Adelaide's northern suburbs, in partnership with industry.

The field, launched this month, comprises 25 large movable mirrors (called heliostats) which reflect sunlight onto a 15-metre high concentrated solar photo-voltaic receiver, generating about 30 kW of electricity per hour.

The test field is a partnership between UniSA and manufacturing company [Precision Components](#) and paves the way for the development of world-leading future industries in South Australia.

The heliostat field was launched by Premier Jay Weatherill and is located at Precision Component's manufacturing facility in Edinburgh Parks.

Heliostats concentrate sunlight onto a tower, and depending on the type of receiver unit, either heat or a variety of fluids can be used to generate steam to power turbines to generate electricity (as will be the case for the recently announced Port Augusta concentrated solar power development), or the sunlight can be converted directly into electricity using a high efficiency solar cell receiver, as used to power satellites in space.



Heliostats.

The technology will be vital to the development of renewable power sources in Australia and internationally.

And it is the ideas developed by UniSA researchers in partnership with industry more than eight years ago to solve a car components problem, that have been a vital building block in this new project set to deliver advanced solar technology.

The heliostat testbed employs an innovation in thin film coating design, an application that evolved from the same research that delivered the world's first fully plastic automotive mirror.

The heliostat innovations hope to deliver more reliable energy production, at a time when every improvement in renewable energy systems counts.

Lead researcher and Industry Professor at UniSA's [Future Industries Institute](#), Peter Murphy, says the design challenges in developing a heliostat surface that can stand up to all the environment can deliver, echo some of the challenges in designing the car mirror.

“Heliostats need to withstand heat, cold, rain, UV light exposure and abrasion by sand, often in harsh, arid environments,” Prof Murphy says.

“To be really effective they must have a lifetime of 25 to 30 years and that presents a huge set of challenges at a macro and nano scale.”

South Australian Premier Jay Weatherill says that the new site, and the important research and development work being undertaken in partnership with UniSA, shows South Australia's leadership in the national transformation to renewable energy technologies.

The key industry collaborators on the research field project are Precision Components and [Heliostat SA](#).

“Working in partnership with Precision Components, a company previously servicing the automotive industry, the two companies demonstrate a successful diversification from a manufacturing skill base into other industry sectors,” Weatherill says.

“There is huge potential for growth in SA's renewables sector. Heliostat has an impressive plan to develop a \$1.6 million new tracking system that would create 33 construction and more than 90 ongoing jobs.”

Precision Components director Mat Fitch says the development of the site is an important milestone for Precision Components.

“This is another significant step in the diversification strategy we implemented to safeguard the future of the business and to create employment opportunities for South Australians,” Fitch says.

“The relationship we have built with UniSA and the outcomes we have delivered are an exemplar for collaboration between the private sector and universities.”

Prof Murphy says the completion of the research field marks the fruition of a short-term goal for the group.

“Our goal now is to use this facility for R&D so that we can design and prototype a better heliostat and a system with remote wi-fi control,” he says.

“Our long term research goal is to develop tough, ultra-high reflectivity mirror coatings on polycarbonate to underpin lighter, more efficient heliostats that stay cleaner for longer.

“Being able to do this research in partnership with local industry and manufacturers is a real privilege.

“It is incredibly rewarding to see our research translated into real world outcomes.”

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Battle of the brands: which wine is worthy?

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by Annabel Mansfield and Brittany Warren



BUSINESS AND LAW

In the ever-changing wine retail landscape, competition is fierce. Limited shelf space means brands are constantly fighting for prime position, with stockists holding all the cards as they decide the fate of when and where a brand is stocked in-store.

Typically, the more profitable the brand, the more likely it will hold a good shelf position. But when you're looking at an Australian market of over 10,000 different wine brands (excluding imports), the complexity of the wine retailer's decision becomes all the more obvious.

So how does a wine retailer determine the actual value of a brand? It's a question that UniSA Masters student Ann-Marie Azzurro has tackled as part her wine marketing research with the [Ehrenberg-Bass Institute for Marketing Science](#), under the [Wolf Blass Foundation Scholarship](#).

As the first recipient of this world-first scholarship, Azzurro assessed the value of a brand in the stocking and replacement process among wine retailers, with the ultimate goal of helping small wineries better understand where to spend their investment dollars.

"Until now, no one has looked at the process that wine retailers undertake in order to stock wine on the shelves, let alone the factors that they consider to be important," Azzurro says.

"Should they be promoting themselves as a brand or as a variety? Should they be leveraging their local region? Or should they be building relationships with venues or tourism outlets?"

"Understanding these factors will help wine producers tailor their brand building activities and sales pitches to retailers. And by emphasising what retailers want, they are more likely to secure a wider and more prominent



Professor of Wine Marketing and Head of UniSA's School of Marketing, Larry Lockshin, scholarship recipient Ann-Marie Manno Azzurro and Wolfgang Blass.

distribution.”

Azzurro’s research found the key factors that drive product acceptance among wine retailer are taste, price, shelf space availability, supplier terms, variety, label and the region of the wine. Interestingly, wine retailers do not base all of their stocking decisions on how wine consumers behave.

“Taste was found to be the most important factor for retailers, as this is what sells a bottle of wine and encourages repeat purchases. But price and branding were also significant decision-making factors,” says Azzurro.

“Ultimately, for a wine to be stocked, it needs to over deliver on both price and taste, with a well-known brand being slightly favoured over a lesser-known brand.

“When replacing well-known brands, retailers will either wait for the new range to come out, or replace it with another well-known brand in the same price-point.

“In the case of lesser-known brands, they’ll either replace it with a product from the same region at the same price, or not replace it at all.”

With the help of the Wolf Blass Scholarship, Azzurro’s research will enhance wine producers’ likelihoods of being stocked and sold in store, helping them stand out among an ever-growing pool of brands.

“I love that I’m able to help wine producers who are trying to break into the market,” Azzurro says.

“Being able to support and develop knowledge in the wine industry in South Australia is really rewarding.

“I’m so pleased I had the chance to achieve this through the Wolf Blass Scholarship, and that my learnings from this research are really making a difference.”

Applications for the 2018 Wolf Blass Scholarship are open until 31 October. For more information about the scholarship, visit the [scholarship page](#).

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Cocaine on tap: illegal drugs making a hash of our environment

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by Candy Gibson



HEALTH

It's no secret that the global explosion in illegal drug use is pushing up crime rates, leaving a devastating trail of health issues and playing havoc with workplace productivity around the world.

What's less well known is the impact that illegal drugs are having on the environment and how we can mitigate it.

UniSA researchers are hoping to shed some light on the ecological damage by analysing the increasing amounts of wastewater-borne drugs entering the environment.

An interdisciplinary and cross-divisional team led by Professor Christopher Saint, Dean of Research and Innovation in the Division of Information Technology, Engineering and the Environment (ITEE), has been tracking the types and concentrations of illegal drugs found in water sources worldwide.

"We know that the use of cocaine, cannabis, amphetamines, ecstasy, heroin and other opioids has increased notably in recent decades," Prof Saint says in a [paper](#) published in [Water Research](#) this month.

"It is estimated that at least 250 million people aged between 15-64 years used an illegal drug in the past 12 months and this number is expected to increase if recent trends continue," he says.

Conventional treatment processes can remove some of these compounds from water sources but it is not an exact science and traces inevitably remain.

Previous research shows that drug use differs from one region to another. Cannabis is the most popular drug in Africa, Australia and the Pacific, while cocaine is more prevalent in South America. Similarly, opioids are the drug of choice in Europe and Asia.

Reports also suggest that illegal drug use per head of population in Australia is higher in remote areas than in cities.

“In general, the levels of illegal drugs measured in wastewater effluents is lower than in raw sewage, which proves that most compounds are capable of being removed in treatment processing,” Prof Saint says.

“However, it is common practice in many countries – particularly throughout Europe and the US – to discharge treated effluent into nearby rivers, and, inevitably, this is having an impact on our ecological systems.”

A 2005 study assessing levels of cocaine in Italy’s largest river (the Po), found that the river carried approximately four kilograms of the fine, white crystal powder every day. Even higher concentrations were found in Belgium.

Similarly, cocaine concentrations were also recorded in the UK’s Taff and Ely rivers and in Spain.

Opioid pharmaceuticals such as codeine have also been detected in surface waters at various locations across the world.

“Even though surface water opioid concentrations are in the low range, the possible effects of these drugs on humans and aquatic biota remains largely unknown and should not be ignored,” Prof Saint says.

“Unfortunately, there are almost no studies on the effects of these compounds on freshwater and marine species.”

Studies in 2012 and 2015 looking at the potential toxic impact of wastewater-borne drugs such as cocaine and amphetamines found significant DNA and enzyme damage to aquatic organisms.

The residual amounts of drugs detected in water sources varies around the world, depending on the technology used. Activated sludge treatment, for example, is far more efficient than trickling filters for removing illegal drugs.

However, far more research is needed to identify the most effective removal pathways to protect the environment, the authors say.

“There is relatively little data on the most efficient methods of removing illegal drugs from our water sources and this is an important gap in our knowledge which should not be neglected,” Prof Saint says.

Joining Prof Saint in this UniSA research published in *Water Research* are PhD student Meena Yadav, Dr Michael Short and Dr Rupak Aryal from the School of Natural and Built Environments; Dr Ben van den Akker from SA Water Corporation and Dr Cobus Gerber from the School of Pharmacy and Medical Sciences.

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Help for skin disease, podiatry and therapeutic services recognised

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by Katrina Phelps



INSIDE UNISA

Members from the three winning teams who accepted the awards (from left to right) Zlatko Kopecki, Susan Hillier (guest speaker), Allison Cowin, Kerr Strugnell (a community partner), Kobie Bushoff, Carolyn Murray, Angela Berndt, Hayley Uden, Marie Williams, and Dave Visockis.

Three UniSA projects with considerable community outcomes and collaboration have been recognised at this year's Chancellor's Awards for Community Engagement.

UniSA Chancellor, Jim McDowell, congratulated the winners for their outstanding work.

Researchers Allison Cowin and Zlatko Kopecki, from the Future Industries Institute, won the "best collaborations in contributing to creating more vibrant communities" category for a project which improves the quality of life for seriously ill children with skin blistering.

The project examined the benefits of an in-home nursing program for children with Epidermolysis Bullosa, a disease that causes skin to be so fragile it can be injured easily and cause blisters.

"The project has been extremely successful with it initially piloted in South Australia, then expanded into a national program and has now been adopted in a similar format internationally," McDowell says.

The researchers partnered with Dystrophic Epidermolysis Bullosa Research Association (DEBRA), Women's & Children's Hospital (Department of Dermatology), BrightSky Australia and the Little Heroes Foundation.

UniSA's podiatry team won the "best collaborations in improving the sustainable use of resources" category.

The podiatry team collaborated with the Nganampa Health Council for its Tjina Wiru (Good Feet) project which



Allison Cowin, Jim McDowell and Zlatko Kopecki.

provides podiatry services to the Anangu Pitjantjatjara Yankunytjatjara (APY) Lands community.

“The project has evolved into a student-led clinical program and to date, more than 4000 occasions of service have been provided, the primary focus being diabetes foot care but also includes sports injury management, paediatric podiatry, footwear advice and nail surgery,” McDowell says.

The UniSA project members who received the award were Sara Jones, Ryan Causby and Cyndi Cole.

A project providing therapeutic services to the community won the “best collaborations in building human potential across the community through intergenerational approaches” category.

Kobie Boshoff, Angela Berndt and Carolyn Murray from UniSA’s Occupational Therapy area, partnered with Department for Education and Child Development, Helping Hand Aged Care SA, ACH and Southern Cross Care for the ‘learning from each other’ project.

“The project has seen the partners work together to develop an innovative and responsive intergenerational placement model which provides a goal-focused, group therapeutic program to around 2500 community members including children, and older people with dementia,” McDowell says.

“The three projects which received awards are outstanding examples of UniSA staff using their expertise to benefit sections of the community.

“Engaging with the community is at the core of UniSA’s values, and I am very proud to highlight these remarkable projects.”



Kobie Boshoff, Carolyn Murray, Jim McDowell and Angela Berndt.

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Learner of the year hopes to “pay it forward”

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by Caitlin Tait



INSIDE UNISA

Tania McHendrie has a complicated past.

Just announced as the [South Australian 2017 Adult Learner of the Year](#), the recognition as an outstanding student is a personal milestone.

In 2002 Tania had anorexia, which developed into bulimia a few years later. By 2014 she was also battling alcoholism.

Her decision to move from Morgan in the Riverland to Adelaide gave Tania the chance turn the page and take responsibility for her recovery.

Before the move she was referred to [Catherine House](#).

Catherine House is a space that offers solutions for women experiencing homelessness in Adelaide.

Not only does it provide shelter and food for women who are homeless, it also empowers women to break free from their past.

“The people at Catherine House help you to realise and fulfil your dreams, providing opportunities, services, access points, and training to move onward and upward,” Tania says.

Women at Catherine House are given the opportunity to participate in the course ‘My Time, My Life, My Future’. Those involved are given the option of further study at the UniSA College, in the course ‘Person and Society’.

“During the course, my inquisitive mind was activated and I discovered a passion for sociology,” Tania says.

“After writing an essay, Dr Snjezana Biliic – one of the facilitators of the course – encouraged me to engage in further studies and following an investigation, we found I had a GPA that was high enough to apply directly into

Honours."

Tania will begin her Honours program in 2018 in the School of Communication, Languages and International Studies, majoring in sociology.

Drawing from her own experiences, she wants to focus her research on a sociological approach to women's problematic drinking behaviors in the western world.

"I never would have imagined that within two years of walking through the doors of Catherine House, I would have fulfilled dreams I thought were beyond my reach," she says.

"To go on to win Adult Learner of the Year was really unexpected.

"I was shocked... I am one of thousands across the state in Adult Community Education Programs, having a go at making their lives better and more fulfilling."

Having witnessed Tania's dedication to her own personal development Dr Bililc says she is an inspiration.

"In spite of conflicting demands, Tania's determination has been unwavering," Dr Bililc says.

"She is committed to excellence and has achieved very high marks in her studies, demonstrating a passion for learning."

For Tania, the support from Catherine House, through coaching and encouragement has made all the difference.

"When the Education Coach at Catherine House suggested that I take part in 'My Time, My Life, My Future', it was her belief in me that helped me step forward and give it a go.

"That step led to many more steps, one after the other, and was the start of a wondrous journey of self-love," says Tania.

"The women of Catherine House loved me before I could love myself, and since then I have put in daily action to learn and grow to love myself. I will need to put in that action, every day for the rest of my life, to keep growing.

"My goal is to love and support others, just as I was loved at Catherine House.

"Through my studies I hope to be able to work in a field where I can put that into practice."

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Historian on location

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by Michèle Nardelli



COMMUNITY

UniSA historian Dr Kiera Lindsey (second from left) with forensic pathologist Professor Roger Byard, host Mike Munro and British/Australian archaeologist and writer Adam Ford, who feature in a new documentary series, *Lawless – The Real Bushrangers*.

Being a TV presenter, especially when you get to communicate about your area of academic expertise may sound glamorous, but as UniSA historian Dr Kiera Lindsey has discovered, being on camera and on location can also be serious hard work.

Dr Lindsey is one of three academic experts debuting in a new, Australian-made four-part documentary series, [Lawless – The Real Bushrangers](#), by, Genepool Productions, which debuts on Foxtel this month.

The series takes a close look at some of Australia's most notorious bushrangers, sorting fact from fiction.

From Ned Kelly and Ben Hall, to Captain Moonlite and Queensland's Kenniff Brothers, *Lawless* uses its research team – an archaeologist, a forensic pathologist and a [historian](#) – under the guidance of presenter Mike Munro, to find out what happened at pivotal moments in their criminal careers.

Dr Lindsey says while challenging, the experience of working on the show has given her a new appreciation of television storytelling as well as a desire to do more work in this area.

"In some ways this is one of the most cross-disciplinary settings I have ever worked in," she says.

"From working with the producers, their research team and writers as well as the camera operators, production planners and 'soundy' and runners – I have learnt so much about striving to bring my highest professional level to the job and also being a solid team member.

"It really stretched me beyond my comfort zone as I didn't only have to consider the academic quality of what I was doing, but also how to work with experts in archaeology and forensic pathology and how to present my ideas in ways that were both informative and entertaining."

And there was also the Australian bush.

“In our first major shoot we were in Queensland’s remote Carnarvon Range where we encountered major delays because of floods,” she says.

“There were 20 of us squeezed into basic shearers’ accommodation, with no internet and no phone access for close to two weeks – but it certainly gave us a first hand taste of what life was like for our bushrangers.”

In other shoots the Lawless team worked in temperatures up to 44C and “everywhere we went there were flies, flies and more flies”.

Two years in the making, Dr Lindsey sees *Lawless* a bit as “breakthrough” television.

“As a historian, I am passionate about the past, and exposing it to new forms of scrutiny,” she says.

“One of things I found most interesting about this series is the way we use new scientific technologies to investigate old historical conundrums.

“Our bushrangers are a great example of how history is often distorted into myths which then become an intrinsic part of a nation’s cultural identity.

“Ned Kelly is the perfect example. In the Australian consciousness Kelly is often seen as the underdog, but our episode challenges this in ways that are not only refreshing but also necessary.

“As the Indigenous filmmaker Richard Franklin once said, ‘as long as we tell nursery rhymes about our past, we remain as children’, and so from my perspective the *Lawless* series is an ambitious attempt to explore a more dimensioned version of our past to a nation that is now sufficiently mature to handle both complexity and contradiction.”

Lawless – The Real Bushrangers debuts on October 24 at 8.30 pm on Foxtel HISTORY.

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PhD research identifies ways to improve engagement with Aboriginal students [Back to story index](#)

by Annabel Mansfield



EDUCATION

On 27 May, 1967, the rights and status of Australia's first people were declared in the most-decisive referendum victory in Australian history. With more than 90 per cent of people voting, this was symbolic affirmation that Aboriginal Australians were recognised as part of the nation.

Fifty years on, and inclusivity remains a federal priority, with multiple individual, business, community, and government initiatives working to achieve positive outcomes for Aboriginal and Torres Strait Islander people.

Striving to make changes in the education sector is local Ngarrindjeri woman, junior primary teacher, and UniSA PhD candidate, Karen Sinclair, who has been exploring what constitutes successful teaching of Aboriginal children.

One of only a handful of Aboriginal PhD candidates, Karen embodies vibrancy and determination, traits that have successfully helped her navigate the education system.

"My research has sought to find ways in which teachers can better engage with Aboriginal children and their families, with the goal of improving their education outcomes," Karen says.

"So much of this is dependent on the Australian Government *Early Years Learning Framework*, in which 'cultural competence' is outlined as a key practice to support educators of Aboriginal and Torres Strait Islander children.

"The challenge is, however, there's always been ambiguity around the term 'cultural competence', despite its frequent use by writers and researchers. So, exploring the concept of this and what this means for teachers, is key to my research."



Karen says that cultural competence refers to people's ability to negotiate intercultural spaces, respecting and understanding Aboriginal perspectives, and then engaging with Aboriginal children and their families to improve education outcomes.

**“As a teacher, you can't just have one training session and expect to be culturally competent,”
Karen says.**

“Cultural competence is a process that's underpinned by relationships and evolves over time.

“When teachers build students' cultural references into all aspects of their teaching, they create a sense of belonging and identity, and this leads to a more responsive and inclusive education.”

Using an Indigenous methodology of yarning, or storytelling, Karen engaged with a number of teachers to inform her research. Now at the end of her PhD, she is keen to share her insights and recommendations for how teachers can improve their own cultural competency in their classrooms.

“First and foremost, teachers must enact the teaching practice of listening to broaden their understandings of cultural competence.

“Listening is such an important part of Aboriginal culture, which means that teachers need to listen with all their senses to connect with Aboriginal students and families.

“For example, teachers can consider the curriculum's content and its cultural relevance to their students, thereby better engaging and connecting them. They can also create and reflect on shared stories and ideas, which is pivotal to cultural competence.

“And of course, there are lots of small practical things teachers can do, like sending home positive notes to parents – this helps build trust and is key to establishing solid relationships with Aboriginal families.”

Karen says she hopes her research will make a unique contribution to the ways in which the concept of cultural competence itself is viewed and enacted to benefit Aboriginal children as well as children with many other cultural backgrounds.

“It's all about placing of culture at the centre of education. A pedagogy (method and practice of teaching) of listening is not only a pedagogy for school and teaching and learning; it is a stance for life.”

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New Books

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[Frank Lloyd Wright: The Early Years: Progressivism: Aesthetics: Cities
Water and rural communities
Routledge Handbook of Contemporary Myanmar](#)

Third book in *Explain Pain* series released

For health professionals treating pain, *Explain Pain Supercharged* is a new book that will help them explain pain to patients in an easy-to-read, no-nonsense way.

Written by UniSA's Professor Lorimer Moseley and Dr David Butler, *Explain Pain Supercharged* is the third book in their *Explain Pain* series, bringing forth new information in a very unconventional way.

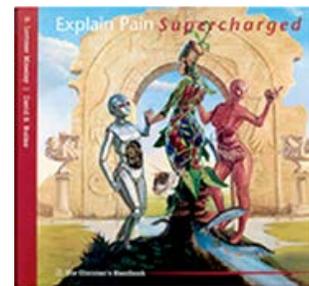
Including elements of humour through illustrations and stories, *Explain Pain Supercharged* intentionally presents colourful pages and conversational text, integrating contemporary principles of conceptual change and educational design.

"We wanted people to actually enjoy reading our book, to get excited about how remarkable our pain system is and how recent discoveries in the field truly make it an exciting time to be a pain clinician," says Moseley and Butler.

"Our new book has everything a practitioner needs to provide effective, memorable, evidence-based, individualised pain education and treatment."

The authors have made the information accessible, understandable, and engaging, applying their unique style to explore the biology and psychology of pain to a deep level, without losing track of their purpose: to increase understanding and engender excitement among clinicians and sufferers.

Available [online](#), *Explain Pain Supercharged* provides a fresh way of exploring and explaining pain for the modern day health professional.



Frank Lloyd Wright: The Early Years: Progressivism: Aesthetics: Cities

Ask someone to name some of America's most iconic buildings and the Guggenheim Museum is likely to be among them. Famous for its sweeping curves, the Guggenheim's unorthodox structure was designed by legendary architect Frank Lloyd Wright and is synonymous with modern architecture.

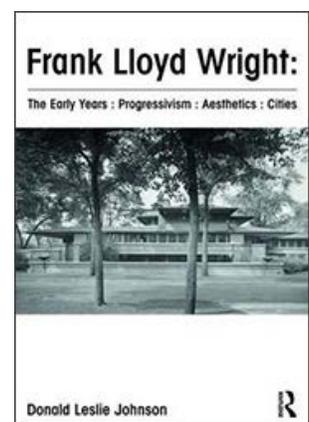
"As one of the most famous American architects, Frank Lloyd Wright changed the way we build and the way we live," says Professor Donald Johnson, author of *Frank Lloyd Wright: The Early Years: Progressivism: Aesthetics: Cities*.

"Wright believed that all aspects of human life must embrace and celebrate an aesthetic experience, and that this should be reflected in modern-day architecture.

"His creations were strongly influenced by the natural world, emphasising craftsmanship, while embracing technology. His buildings have a strong sense of integrity, in harmony with both their environment and those for which they were built."

In *Frank Lloyd Wright: The Early Years: Progressivism: Aesthetics: Cities*, Prof Johnson explores Wright's innovative and profound theories of architecture, analysing how his design method was adopted for community and city planning.

Inherent in the theory was a belief that reform of nineteenth-century gluttony should include a contemporary



interpretation of its material presence, its bulk and space and its architectural landscape.

The book examines Wright's unique approach to geometry and his notions of pure design as they applied to domestic and non-domestic buildings, presenting reasons for the recognition of two Wright Styles and a Wright School. This cross-disciplinary study of Wright's work is available to purchase [online](#).

Water and rural communities

Water has been a subject of cultural thought and representation over centuries; shaping societies and intertwining political and environmental factors across many diverse regions.

In *Water and Rural Communities: Local politics, meaning and place*, written by UniSA's Associate Professor Lia Bryant, Director of the Centre for Social Change, with contributions from Jodie George, from the School of Communication, the constructions of water are discussed in relation to irrigation communities in Australia and California.

The authors argue that the politics of place determine how water is directed at the local level, including how it is exchanged, managed and given meaning.

"Water management is a key issue for modern society with water scarcity now extending to cities," Associate Professor Bryant says.

"Drought is no longer just a 'farming issue'. For the first time in many years, water has increasingly been rationed for both household and business use."

At the forefront of this enquiry is an examination of the histories of water policy and their impact on meanings about water use and present day politics. Questions of social justice around the distribution of water and how it is governed are explored as is escalation of risk to both health and livelihood during times of drought.

"When we're affected by drought, the politics of water management really come to the surface," Assoc Prof Bryant says.

"Understanding how communities challenge, adapt and respond to politics at these times is key to how we think about water in the future."

Water and rural communities: local politics, meaning and place is available to purchase [online](#).

Routledge Handbook of Contemporary Myanmar

Few countries in the world have experienced the extraordinary path taken by Myanmar (Burma). After decades of military rule, national elections in 2010 reinstated legislative influence, which ushered in a new era of economic and political reforms.

The Routledge Handbook of Contemporary Myanmar, edited by UniSA Senior Lecturer in International Studies, Dr Adam Simpson, in conjunction with Nicholas Farrelly (Australian National University) and Ian Holliday (University of Hong Kong), provides a comprehensive and up-to-date resource on the political, economic and social issues to confront Myanmar.

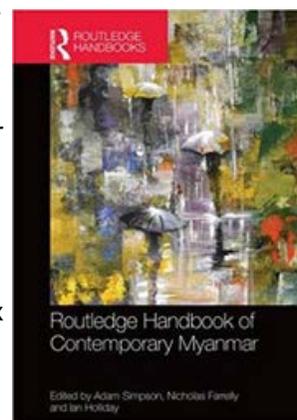
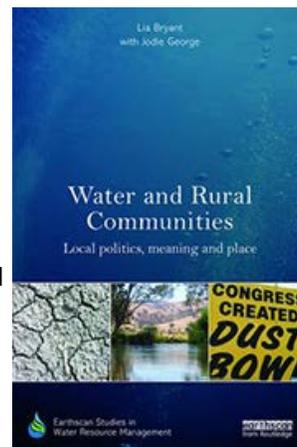
"Since Myanmar's independence from Britain in 1948, it has experienced a state of flux and transition," Dr Simpson says.

"And as the country opens its borders to western business and government agencies, including a significant Australian aid program, there is increasing demand for a rigorous scholarly overview of Myanmar's politics, economics and society. This handbook offers just that."

The Routledge Handbook of Contemporary Myanmar – which includes analysis of [very recent events](#) – presents Myanmar's distinctive ethnic and religious composition, cultural affiliations and heritage, discussing the difficulties of different communities living together, which has been amplified by successive illiberal regimes, while also reflecting on how this same diversity has also generated a rich tapestry of cultural, religious and artistic outputs.

Written by an international team of 43 scholars, the handbook provides a foundation for further research and offers the first port of call for scholars, students and policy makers alike.

The book is soon to be released and will be available from [Amazon](#) and [Routledge](#).



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**University of
South Australia**

Highlights from the Media Centre

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A new app to help people cope with mental illness and day-to-day stress, along with a breakthrough in drone research are two of the top stories from UniSA's [Media Centre](#) over the past month.

[New app supports a plan to cope and a strategy for suicide prevention](#)

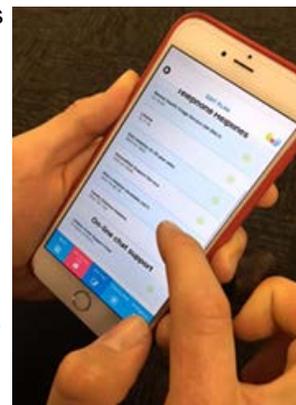
UniSA has released a new mobile application designed to help people cope with stress on a day-to-day basis.

The new app, 'My Coping Plan,' developed by UniSA Senior Lecturer Dr Helen Stallman, allows users to create, store and update a personalised coping plan on their mobile device.

Dr Stallman says the benefit of the new app is that it allows people to stick to a personalised coping plan.

In addition to people with mental illnesses, she says the app will be beneficial for anyone having trouble coping in stressful circumstances such as year 12 students who are about to commence their final exams, commonly a highly stressful time in their lives.

She says the app is suitable for everyone - children and adults.

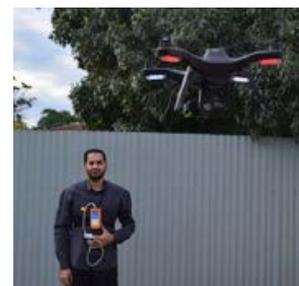


[Drones in disaster zones could prove a lifesaver](#)

Pioneering research from the University of South Australia has shown for the first time that drones can be used to detect human vital signs in war zones and natural disasters.

Under a collaborative agreement with the [Defence Science and Technology](#) (DST) Group, UniSA researchers have successfully trialled unmanned aerial vehicles to measure heart and respiratory rates using remote-sensing imaging systems, while hovering three metres from humans.

Under the supervision of Professor Javaan Chahl, UniSA PhD students Ali Al-Naji and Asanka Perera have been testing the capabilities of drones.



Researcher Ali Al-Naji and drone.

During their testing, video footage from the drones detected changes in human skin tone and minute head movements to read vital signs, providing a low cost, accurate and convenient way to monitor heart rates without physical restrictions.

The breakthrough could have many applications, including triaging disaster victims in earthquakes, detecting security and terrorism threats at airports, and remotely monitoring heart rates of premature babies in incubators.

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**University of
South Australia**

IN PICTURES

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> [Space experts gather in Adelaide](#)

Space art is a winner

Five third-year UniSA Communication Design students currently have their work on display at the SA Museum as part of its *Space: Eyes on the Sky* exhibition. The students – through a competition run by the Museum and UniSA's [MOD](#) – were asked to create artworks which reflected on Hubble Telescope images and what it means to explore space.

The five winning UniSA students' pieces of work:

[‘Endless’ by Bryan Fernandez](#)

[‘Yggdrasil’ by Caitlyn Burgess](#)

[‘Spectrum’ by Nicole Faiello](#)

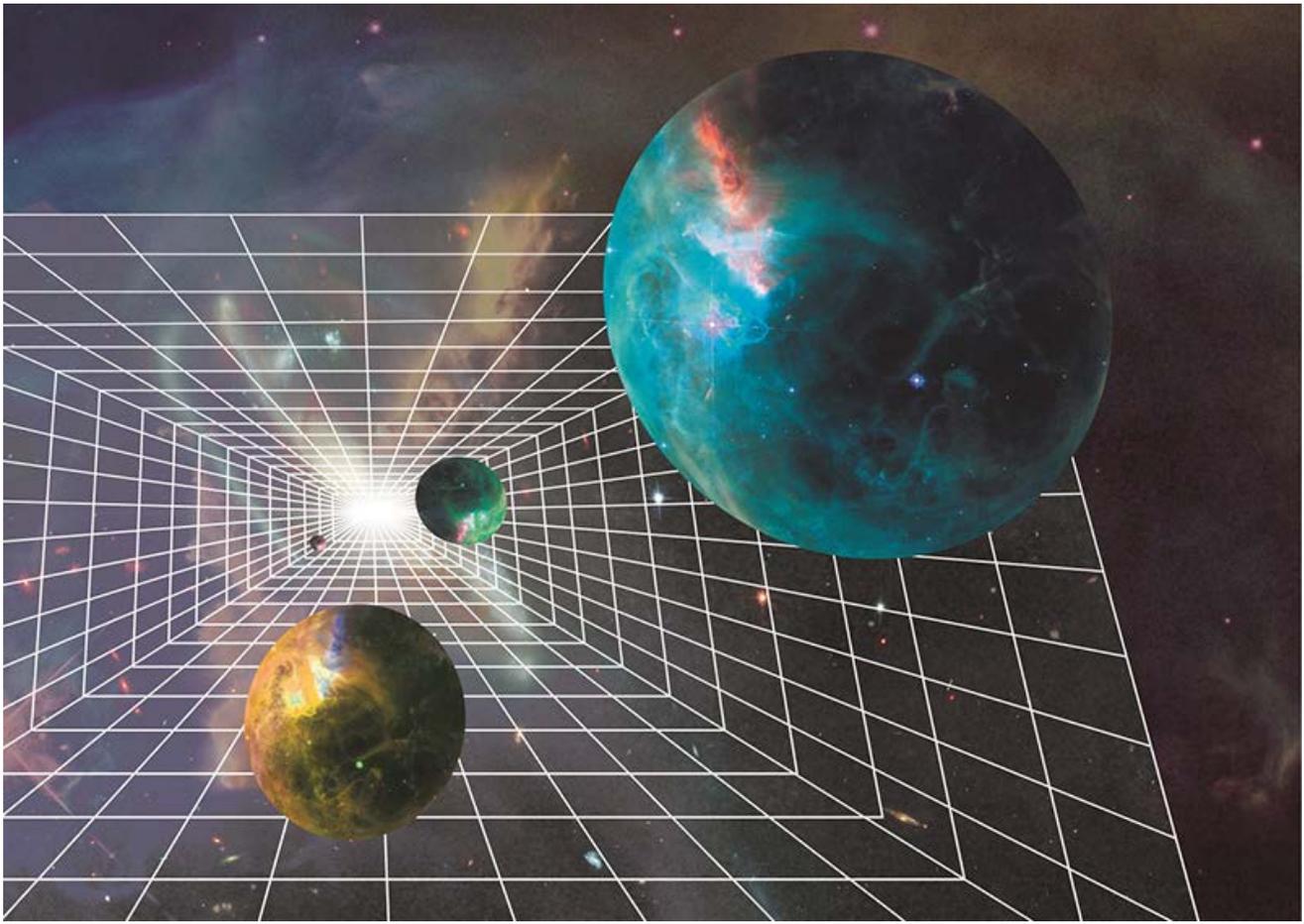
[‘Galactic Groove’ by Scarlett Paschke](#)

[‘Energy Ripples’ by Taylor Summers](#)



The winning third year communication design students (from left) Caitlyn Burgess, Bryan Fernandez, Nicole Faiello, Scarlett Paschke, with Dr Andy Thomas and Taylor Summers.

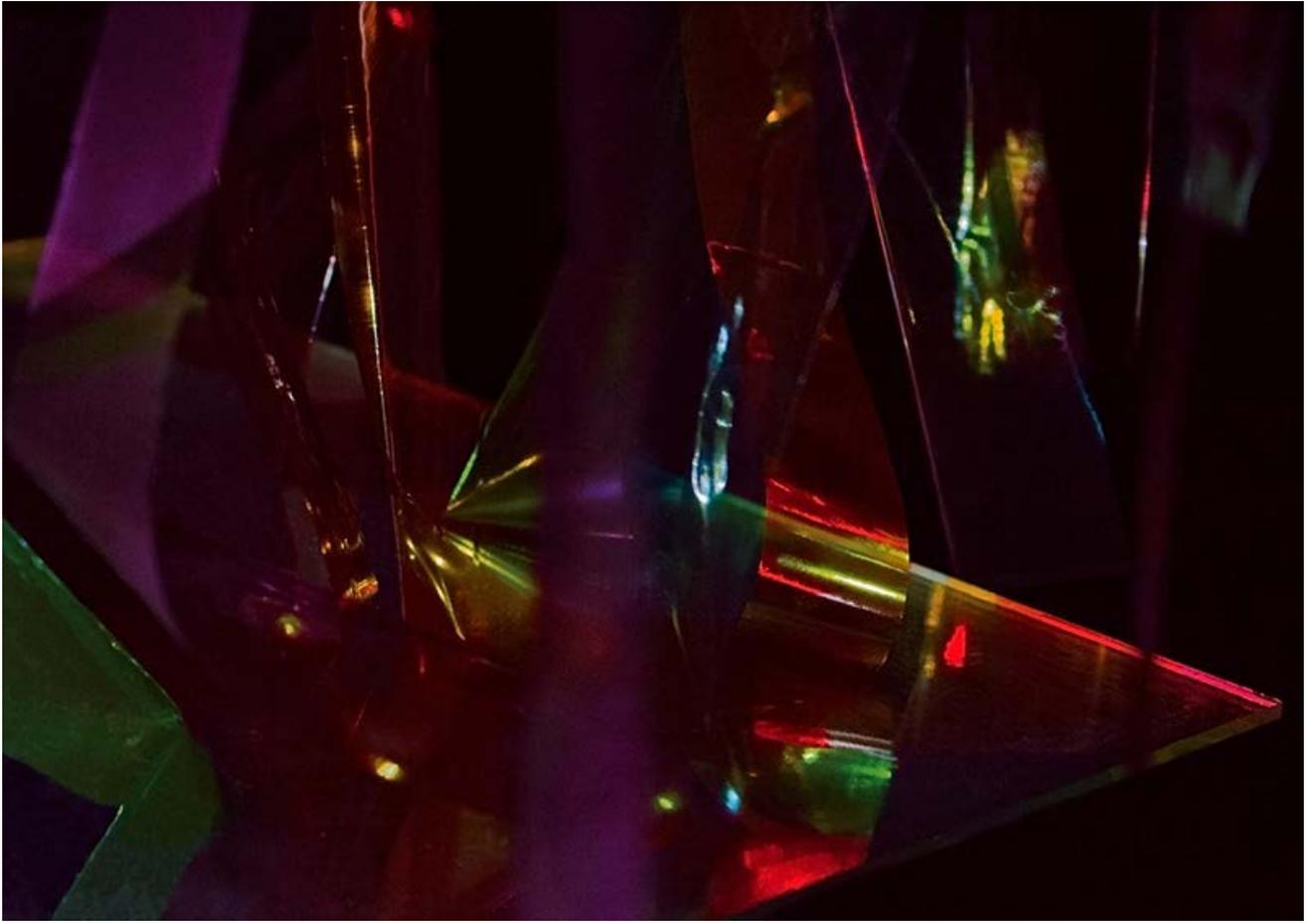
[‘Endless’ by Bryan Fernandez](#)



'Yggdrasil' by Caitlyn Burgess



'Spectrum' by Nicole Faiello



'Galactic Groove' by Scarlett Paschke



'Energy Ripples' by Taylor Summers



Space experts gather in Adelaide

At the end of September, Adelaide hosted the International Astronautical Congress. UniSA was involved in the congress, including sponsorship of the Welcome Reception.

During the congress, UniSA signed a memorandum of intent with the [State Government](#) and the [International Space University](#) to extend its engagement to support space entrepreneurship. See the ['Media Highlights'](#) section for more information.

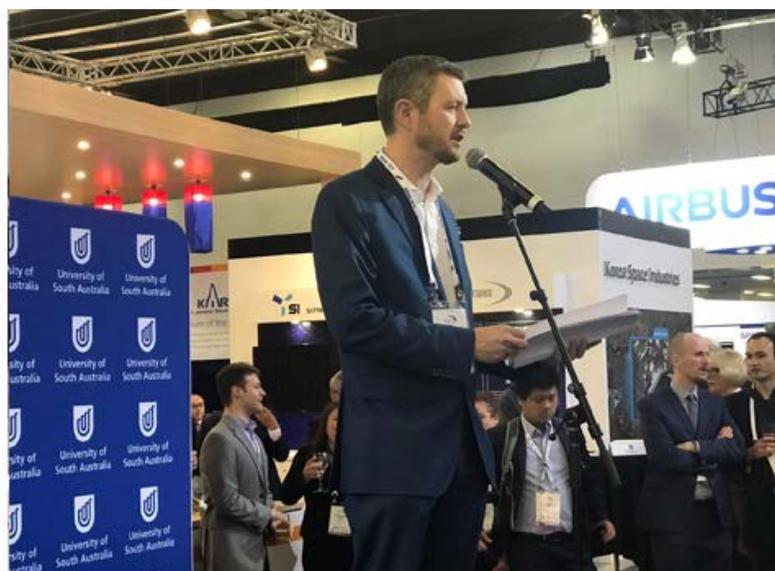
Some delegates went on a site visit to The Institute for Telecommunications Research (ITR) at UniSA's Mawson Lakes campus ([see pictures further down](#)).



Professor Andy Koronios, Dean of Industry and Enterprise Chancellery and Council Services; Vice Chancellor, Professor David Lloyd; Ruth Rosie Manager of Partner Engagement Research and Innovation Services; and Associate Professor Gottfried Lechner, Centre Director of the Institute for Telecommunications Research.



(L) Tanya Monro, Deputy Vice Chancellor, Research and Innovation, Christopher Pyne and Associate Professor Gottfried Lechner.



(R) Vice Chancellor and President, Professor David Lloyd.



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