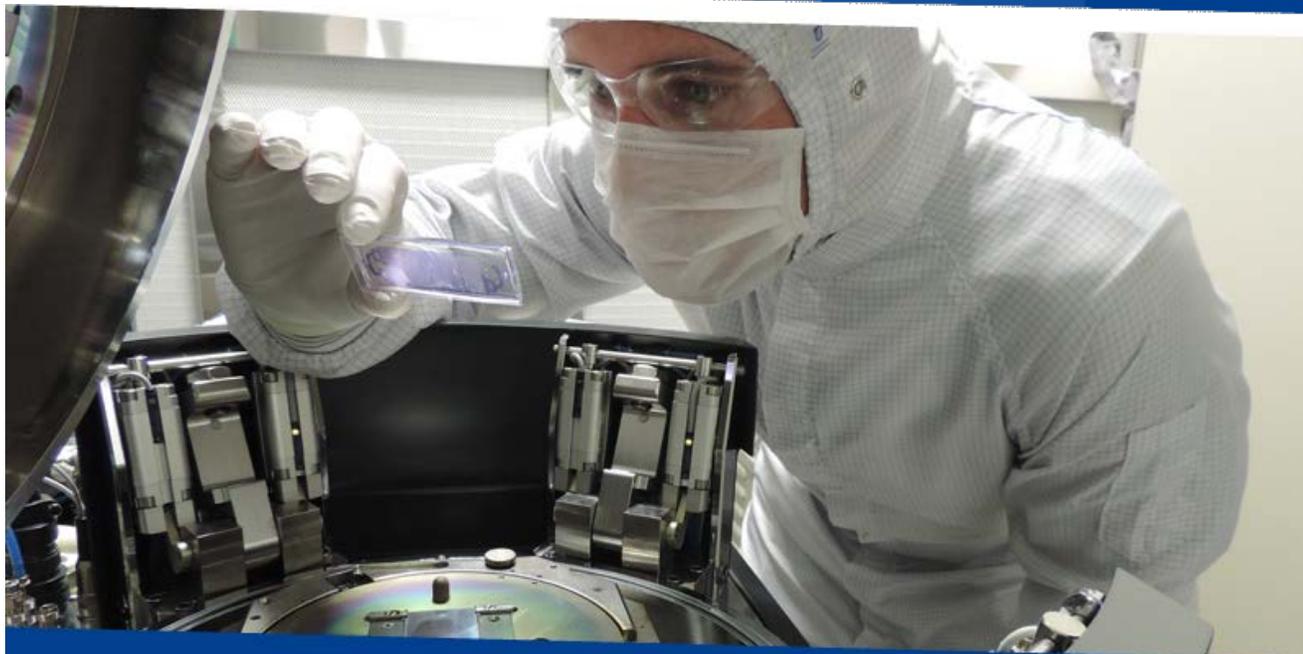


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Taking the “internet of things” to the masses

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by Will Venn



SCIENCE AND TECHNOLOGY

Chief Executive Officer of Myriota, Professor Alex Grant (front) with Dr David Haley, Chief Technology Officer of Myriota.

Imagine you are a farmer on a remote outback station wanting to track where your livestock roam, what the soil moisture reading is in part of that station, or whether you’ve left the gate open at the other end of the property.

Being able to access that information at the touch of a button, rather than travelling around the property to record it, would save time, energy and money, yet would require the use of specialist technology; machine to machine (M2M) communication at an affordable price.

Capitalising on UniSA telecommunications research, Myriota Pty Ltd is a new start-up company bringing this solution to the marketplace, developing the Satellite “Internet of Things” to be relevant and cost-effective for potentially millions of people across various industries.

Developing two-way data connectivity, using sensors and low Earth orbit satellites to collect and relay data from remote locations at an affordable cost, is what Myriota will provide and the company’s formation comes at a time when industry analysts estimate global M2M revenue growth to reach \$1.2 trillion by 2022.

Professor Alex Grant, Chief Executive Officer of Myriota and formally Director of UniSA’s Institute for Telecommunications Research, says these services have a range of applications which can benefit ecosystem management, monitoring of climates, defence, national security, maritime, mining, agriculture and more.

“Many industries with remote operations such as agriculture and mining have a need to obtain data from equipment or sensors in remote areas that are not economically served by existing communications networks,” Prof Grant says.

“To get a soil moisture reading or track where livestock is, to look at levels of water at watering points; these are

jobs where right at this moment the current mode of operation is for someone to go out on a motorbike to take a manual look. What we are bringing to market is a cost-effective way to get that data remotely and electronically.

“Access to even small amounts of data has the potential to greatly improve efficiency of operations and reduce overall costs. Our understanding and management of the environment is also critically dependent on obtaining data from remote areas.”

The lead investor and commercial partner for Myriota is Canadian company, exactEarth Ltd, who are providing significant funding to commercialise the new technology as well as the use of their fleet of low earth orbit micro satellites, each weighing about 50kg and orbiting the Earth at an altitude of between 700-800km – from which the entire landmass of Australia is visible.

Dr Stephen Rodda, Chief Executive Officer of UniSA’s commercialisation arm, UniSA Ventures, says Myriota will make a significant contribution to telecommunications services globally and also make an economic impact locally, potentially spurring the growth of businesses in a number of industries.

“Markets that may have not been commercially viable in the past now have the potential to emerge and grow quickly, providing many avenues for the research from UniSA to deliver demonstrable impact commercially and to society,” Dr Rodda says.

The UniSA research program that led to formation of Myriota came about through funding from the Federal Government’s Australian Space Research Program, and UniSA is one of four shareholders involved with Myriota.

“We made a conscious decision – we are going to do good science here but at the end of the project we want to have a portfolio of intellectual property and a system that we have demonstrated to a level that could attract investment, to turn it into a company and take it forward commercially,” says Dr Grant.

“Across the university sector there is an increasing push to be more entrepreneurial and this is partly driven by the desire for research to have a greater impact beyond traditional academic output like journal papers.”

UniSA Deputy Vice Chancellor: Research and Innovation, Professor Tanya Monro says research at the University is inspired by challenges and opportunities, partnered with end-users and communities, and “underpinned by excellence”.

“The partnership with Myriota personifies the impact of our research and has facilitated an effective pathway for the translation of knowledge into societal and commercial outcomes,” Prof Monro says.

“This is an area of research that UniSA has engaged in considerably over a significant period with core expertise developed that now, through Myriota, can connect with and capitalise on market challenges and opportunities.

“This partnership further highlights and consolidates UniSA’s strength to convert research into new technologies with commercial benefit and appeal.”



(L-R) Sean Maybee, CFO exactEarth; Bruce Tilbrook from ITEK Ventures; Stephen Rodda, CEO of ITEK; Alex Grant, CEO of Myriota;

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**University of
South Australia**

QS rankings give UniSA one more reason to celebrate 25 years

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by Michèle Nardelli



INSIDE UNISA

UniSA could not have picked a more appropriate placing in the Quacquarelli Symonds (QS) World University Rankings for world universities under 50 years old.

As the University prepares to celebrate its 25th birthday in 2016, QS results which were released at the end of November, show UniSA has risen 16 places to rank 25th globally.

UniSA Vice Chancellor Professor David Lloyd says he is delighted with the result.

"I wouldn't have knocked back a placing at the top of the chart but 25 seems wholly appropriate and as it represents another rise in these important global rankings, it gives us one more success to celebrate in our 25th birthday year," Prof Lloyd says.

"This will be just one of many achievements we will be acknowledging in 2016 as part of our 25th birthday celebrations.

"This is a university that was founded for the people, one that would always offer opportunities to determined and talented students and support research and teaching that is useful to society.

"We have stayed true to our mission and we have thrived on the energy, enthusiasm and enterprise of our people – our researchers and teachers and our wonderful students and graduates – they are what keep us improving and innovating."

UniSA was established in January 1991 with the merging of some of the State's oldest educational institutions. Today it is South Australia's largest university and a leading provider of professional education across core professions such as nursing, teaching, engineering, architecture, journalism and business.

Carving out a reputation for enterprise and innovation, the University has one of Australia's top MBA programs, is a leading provider nationally in physiotherapy and allied health education and has the best employment outcomes in SA for its graduates.

To find out more about how UniSA is celebrating its 25th year, see the [25th birthday website](#).

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Does Australia have the most dangerous wildlife on the planet, or are we a nation of scaredy cats?

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by Professor Chris Daniels



SCIENCE AND TECHNOLOGY

UniSA Professor of Biology, Chris Daniels, loves getting up close and personal with nature. In this Research Spotlight column, he urges Australians to do the same and put aside a fear of wildlife.

Summer is descending upon Australia – and you know what that means. Spider, snake and shark stories will clog the print media and the airwaves. Australia (apparently) abounds with lethal wildlife just waiting for the warm weather to lure us from the couch. Once outdoors the ferocious beasts will exterminate us once and for all....right? Well, no actually.

Australia is not a country of particularly overly lethal animals (at least compared to the rest of the world). But it is a country in which people are animal phobic and have an overinflated and unreasonable fear of being bitten.



I am continually concerned about our overemphasis on venomous, poisonous and dangerous creatures that apparently stalk our gardens. The media also continually promotes Australia as 'the deadliest country on Earth'. This is absolutely not the case. In fact our risks from wildlife are much less than that found in almost all other countries.

Wildlife all over the globe uses poison for protection and venom to kill prey – Australia is not special. Well, it is in that we have the only venomous mammal, but has anyone every really been harmed by a platypus?

While one spider, a couple of ants and about two dozen snakes have very potent venoms, realistically only one species is ever encountered in Australia – the eastern brown snake – and that also rarely bites. The highest death rates due to snakes occur in South East Asia and they are thousands of times greater than ours, while our

death rate due to snake bite is about the same as the United Kingdom and Holland (neither of which have any truly deadly native snakes). The funnel-web spider is lethal but nowhere near as consistently deadly as North African scorpions which kill tens of thousands of people each year.

Our wildlife is also relatively free of lethal bacteria, viruses and parasites. Fruit bats might have lassa and Hendra virus, but that is nothing compared to the diseases that overseas wildlife carry. And I am not just talking about malaria (gone from Australia since the 1940s). Australian animals do not carry rabies, black death, ebola or hanta virus. In the northern hemisphere, one of the 'deadliest' animals is the squirrel. And don't get me started on the most lethal of all United States animals, the chipmunk! Every year, northern hemisphere rodents kill lots of people and pets by transferring diseases in bites.

And of course we don't have large biting animals such as leopards, lions or hippopotamus. We might get an occasional kick from a kangaroo, but be grateful we do not have bears! We do have sharks, crocodiles, sea-snakes and stinging jellyfish it is true, but then so do all the other countries in our Indo-Pacific region, and we don't hear them bleating on about it.

Our mortality and morbidity levels due to wildlife interactions are a minute fraction of those in North America, Asia and Africa, and are similar or lower than most European nations. Our venomous, poisonous and biting species tend to be rare, small, few in species number, shy or live in remote or inaccessible locations. We coastal city dwellers just don't come in contact with many dangerous animals. Even the common brown snake is rarely seen and they love our backyards.

In fact now our most dangerous (mortality and morbidity causing) species are all imports – fire ants, redback and fiddleback spiders, European wasps and bees. The most poisonous of all introduced invertebrates is the monarch caterpillar – ever eaten one?

Same with vertebrates. The most poisonous Aussie amphibian is the imported cane toad, while the most physically dangerous mammal is the feral pig.

In reality the overwhelming majority of animal-related injuries come from bees, horses and dogs. Native species come a long way back and most attacks are from swooping nesting birds like magpies which are actually the biggest regular injury-causing native animal.

So what's the harm if there's an unrealistic level of fear of our wildlife? Isn't it better to be more cautious than to risk our health?

My concern is that the continued depiction of Australia as being chock-full of dangerous species leads to excessive fear, distrust of the outdoors, lack of use of national parks, calls for culls and even the killing of many relatively harmless animals.

We need people understanding and enjoying our natural environment, not becoming so terrified of it that they will not go outside.

So this summer, remember that nature is not out to get you (at least no more so than in a Danish forest) so please get out and enjoy the great outdoors. And if you do encounter wildlife while you are outdoors – DON'T PANIC! It is more afraid of you.

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**University of
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Launching UniSA's Innovation and Collaboration Centre

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by Will Venn



INSIDE UNISA

At the ICC launch (from left) Nick Wilson, South Pacific Managing Director, Hewlett Packard Enterprise; UniSA Vice Chancellor Professor David Lloyd; and SA Premier, Jay Weatherill.

The acceleration of start-up companies and the growth of small businesses in South Australia is the focus of UniSA's new Innovation and Collaboration Centre (ICC), designed to incubate and strengthen businesses within the State.

The [ICC](#), which opened its doors in November, will provide a unique multidisciplinary environment where Small and Medium Enterprises (SME), entrepreneurs and students can access a wide range of services and expertise to help them develop their products and grow their business.

The Centre, established through a strategic partnership between UniSA, the Government of South Australia and anchor industry partner Hewlett Packard Enterprise, is expected to support the life cycle from idea to growth and expansion for businesses and industry organisations.

At the launch, UniSA Vice Chancellor, Professor David Lloyd said the ICC will benefit from the best of what UniSA and Hewlett Packard Enterprise can deliver regarding services to help business grow and reach new markets.

"The ICC is built on a strategic partnership which will see business benefit from UniSA's knowledge in business growth and commercialisation, combined with Hewlett Packard Enterprise's technological expertise and the support of the South Australian Government," Prof Lloyd said.

"It's a partnership which champions the growth of SA's business sector through a collaborative, dynamic and supportive environment, and it's one which will help educate the professionals of tomorrow, as our students will

be able to generate their business ideas and utilise the resources of the Centre.”

The services the ICC will provide include business management, strategy and marketing with the UniSA [Business School](#); business growth with UniSA's [Centre for Business Growth](#); commercialisation through UniSA Ventures; digital video marketing with the [Centre for Digital Video Intelligence](#); design with [matchstudio](#); and technology through Hewlett Packard Enterprise.

The ICC will also run technology and innovation-based business support programs, start-up workshops for individuals and groups, and workshops designed to meet the needs of SMEs.

These tailored events, along with business model evaluation and business development diagnostic clinics, will help those businesses learn how to address challenges and achieve growth.

At the launch, South Australian Premier Jay Weatherill acknowledged the collaborative nature of the Centre, and the value of entrepreneurs working together in the same space.

“The Centre will provide a fertile environment in which SMEs, start-ups and student entrepreneurs can pool their energies, bounce off each other and prosper,” Weatherill said.

Manager of the ICC, Jasmine Vreugdenburg said the design of the Centre enables effortless collaboration to occur on a daily basis.

“We have already seen the benefits of the co-working space where some of our supported start-up companies have had the opportunity to collaborate with academic staff in ways that would not have otherwise occurred,” Vreugdenburg said.

The Centre is open to hosting industry-targeted workshops and seminars that align with the core values of the [ICC](#). For more information please contact Jasmine Vreugdenburg on 8302 0927.

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INSIDE UNISA

What a year we've just had! We began, as you do in January, by doing summertime stuff like breaking records (and fortunately not our necks) riding the world's longest bike. Tour Down Under does that to you. It reminds you that the year hasn't properly started yet and it makes you just a little bit competitive.

We quickly got back down to business.

In research we developed a cost effective coating for medical implants that will prevent infections, and discovered some of the key enzymes that control secretion of metastasis-promoting proteins in cancer. We discovered the impact of the drug Edaravone on the progressive cognitive deficits of Alzheimer's disease and were awarded five Research Fellowships and two Early Career Fellowships from the National Health and Medical Research Council. They also gave us millions of dollars in Project Grants to tackle major health issues such as cancer, diabetes, and polycystic kidney disease.

The future of our Future Industries Institute is looking good too with the awarding of more than \$3 million for nine Australian Research Council Discovery Projects and funding for an advanced nanomaterials characterisation facility.

Two of our brightest researchers, Professor Tanya Monro and Associate Professor Frank Bruno won Australia's top science awards, the Australian Museum Eureka Prizes. Professor Robert Vink, Professor Alex Brown and the Centre for Cancer Biology's Professors Angel Lopez, Sharad Kumar, Hamish Scott and Gregory Goodall were inducted as new Fellows of the Australian Academy of Health and Medical Sciences.

We made Mount Gambier the jazz capital of Australia by establishing the James Morrison Academy of Music at UniSA and we sent 45 of our high performing pre-service teachers to teach in select low socioeconomic status schools.

We honoured four of our best alumni who have made huge contributions to the community – human rights

activist, Professor Tom Calma; company director, Rob Chapman; Olympic basketballer, Rachael Sporn; and artist and TV presenter, Poh Ling Yeow all received awards at the inaugural UniSA Alumni Awards dinner.

We also awarded more than 130 scholarships totalling around \$650,000 and received a million-dollar bequest from fantasy author and creator of the *Discworld* series and our friend, the late Sir Terry Pratchett, which will fund a perpetual scholarship in his name.

We made new partnerships with global leaders like University College London (which is the basis of our Future Industries Institute), Vietnam's Hue University, Japan's Kobe University and the United States' Embry-Riddle University, the world's largest, fully accredited university specialising in aviation and aerospace, plus a host of collaboration agreements with other institutions around the world. All to ensure that we're offering the very best learning and research opportunities for the new global professionals that our graduates will become.

Speaking of which, we graduated nearly 7500 new professionals into careers in 2015, almost 1000 of them international students.

We jumped to number 35 on *Times Higher Education's* list of the world's best universities under 50, and even higher on the Quacarelli Symonds (QS) list where we reached number 25. QS also rated our Business School as one of the world's best.

We ended the year with the most stunning news of all when Excellence in Research Australia judged 97 per cent of our research as at world class or above. Ninety seven percent. That's an astonishing figure for a young university. To put a little perspective around it: you have heard of the Group of Eight, a coalition of research-intensive Australian universities. It's now the Group of Seven. Plus UniSA. We are now considered the eighth best research university in Australia.

That's something to really celebrate this Christmas so head into the holidays with great pride in the achievements you have helped bring about.

Take a well-deserved break, you've all done a fabulous job.

See you next year.

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

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International partnership finalised

UniSA's unique drug development partnership with one of China's largest pharmaceutical companies - Yabao Pharmaceuticals - was finalised at the end of November.

Announced in September, the partnership, led in SA by the head of UniSA's Centre for Drug Discovery, Professor Shudong Wang, underpins a new, joint drug discovery laboratory dedicated to developing and commercialising innovative pharmaceuticals, focusing on the treatment of cancer.

Corporate Vice President and President of Research and Development of Yabao Pharmaceuticals, Dr Peng Wang, travelled to Adelaide at the end of November to sign the agreement with UniSA.

Welcoming Dr Wang to Australia, UniSA Vice Chancellor Professor David Lloyd says the new relationship with Yabao is a great example of transnational enterprise.

"The challenge of cancer is a global challenge and it makes the best sense, for those dedicated to beating the disease, to find ways to productively collaborate on cures," Prof Lloyd says.

"What better partners than Yabao, one of China's most successful pharmaceutical companies and Dr Peng Wang, someone with 25 years of international experience in drug development and a member of China's FDA Advisory Board.

"We are delighted to be working together and our aspiration for the partnership is to bring new cancer-beating drugs and treatments into the market as soon as we can so that more people will survive and thrive after cancer."

Dr Wang has been made an Adjunct Professor in UniSA's School of Pharmacy and Medical Sciences.

Major pharmacy award for Sanjay Garg

UniSA Professor of Pharmaceutical Science Sanjay Garg has been awarded the most prestigious award for pharmacy in Australia – the Australasian Pharmaceutical Science Association (APSA) medal.

Prof Garg, a pharmaceutical scientist with a passion for research and teaching in translational drug development and delivery, says he is



Dr Peng Wang and Professor David Lloyd.

honoured to be awarded the medal.

"I have been attending APSA conferences for over a decade, however I never imagined that I would be honoured with this medal," Prof Garg says.

"Winning the APSA medal is indeed a great honour and I feel blessed. I am thankful to my mentors and family, whose guidance and support made it a reality.

"The medal comes with a challenge to continue performing at the same or better level, and a responsibility to support the future generation."

And looking to the future, a pharmaceutical development from Prof Garg could soon be available on the market. An acid buffering formulation that he developed during his postdoctorate days has been patented and completed phase three trials as a contraceptive. A new drug application has been submitted by the company who bought the license, and if approved by the USA Food and Drug Administration, it will be available worldwide as a contraceptive.

However, it is Prof Garg's work with students and colleagues that inspires him the most.

"What I love most about my work is helping students and younger colleagues achieve their goals," Prof Garg says.

Prof Garg joins an elite group of pharmaceutical professionals to have been awarded the medal including UniSA colleagues: Emeritus Professor Andrew Gilbert (2012); Professor Allan Evans (2010); Professor Michael Roberts (2004); and Emeritus Professor Lloyd Sansom AO after whom UniSA's Samson Institute is named.

UniSA welcomes leading nanoscience researcher

Professor Ajayan Vinu (pictured right) is the latest appointment to UniSA's new Future Industries Institute.

Prof Vinu is world renowned for his research into nanoporous materials. His research into nanoporous carbon nitride has the potential to play a key role in the battle against global warming.

His research has found that carbon nitrides have just the right properties to support the capture and conversion of CO₂ molecules.

Prof Vinu says he is excited to be working at a research institute so clearly focused on delivering applications and outcomes for industry and society.

"I am quite excited about this opportunity at the Future Industries Institute, where I can use my experience in nanomaterials and networking and my collaboration skills to translate the research into real products," he says.

"Through a strong multidisciplinary approach and deep collaboration with industries I am sure we can create tangible benefits for society."

MediaScience Chair puts UniSA at forefront of biometric media

UniSA's Ehrenberg-Bass Institute will welcome Professor Steven Bellman (pictured right) as the newest member of its media research team.

Prof Bellman will spearhead biometric media research at UniSA after previously working as Deputy Director of the Interactive Television Institute at Murdoch University.

United States-based consumer neuroscience research company MediaScience® is providing more than \$1.5m to fund UniSA's new MediaScience® chair.

The appointment has been praised by CEO of MediaScience®, Dr Duane Varan, who says it signals the start of an important collaboration that will see immediate benefits.



Sanjay Garg (middle) with APSA President Associate Professor Parisa Aslani (far left) and other UniSA staff and students who were at the conference.





Pro Vice Chancellor at UniSA's Business School, Professor Marie Wilson, says the new partnership will deliver a broader international reach that will help the University research some of the most challenging questions facing the contemporary advertising industry.

"The Ehrenberg-Bass Institute is the world's largest centre for research into marketing and is recognised internationally for producing evidence-based research into how buyers behave and how brands grow," Prof Wilson says.

"This is part of a substantial move into biometric media research by the Institute. It is a significant alliance and one which will be ably led by Prof Bellman."

Distinguished award for Professor Eva Bezak

UniSA Professor in Medication Radiation, Eva Bezak has been awarded a Distinguished Service Award from the Australasian College of Physical Scientists and Engineers in Medicine (ACPSEM), the highest award bestowed by the College.

The award is given for outstanding and distinguished services to ACPSEM over many years, and Prof Bezak is the first female to receive this award.

"Eva has made an outstanding contribution to the College through her previous work as President, Vice President and Head of Operations for the College," said ACPSEM President, Dr Sean Geoghegan.

"She has also overseen the most important research conducted on Australasian women in medical physics.

"Her remarkable contributions over previous years are continuing as this year she has become an Executive Member of the International Union of Physical and Engineering Sciences in Medicine."

Prof Bezak said she was very honoured and humbled to be bestowed the highest award of the ACPSEM.

"The award encourages me to continue with many of the professional engagements I have been involved with in Australia and internationally," Prof Bezak said.

"I have been very lucky in my professional career, as my work has had direct input into the treatment of cancer patients, such as implementing new radiotherapy treatment techniques and building new facilities to improve patient access to radiation therapy.

"I am also very passionate about teaching the upcoming generation of medical physicists and radiation therapists."

Prof Bezak, one of the Division of Health's successful '100 Professors' appointments this year, is particularly passionate about increasing the number of women in the profession.

She is currently chairperson of an international taskforce on women in medical physics and biomedical engineering with the International Union for Physical and Engineering Sciences in Medicine.

"We have found that female medical physicists are passionate about their work; and that supportive managers are essential to foster women in their careers," Prof Bezak said.

She said while the numbers of female medical physicists have increased over the years, it hasn't translated into higher numbers of women in leadership roles.



Professor Eva Bezak receives her Distinguished Service Award from ACPSEM President, Dr Sean Geoghegan.

UniSA stalwart achieves national award for operations research

Emeritus Professor Phil Howlett (pictured right), one of the longest serving academics at UniSA, has been named a recipient of the Ren Potts award 2015 for sustained and outstanding contribution to both the theory and practice of operations research.



Prof Howlett, who joined the South Australian Institute of Technology (SAIT) as a tutor in Mathematics in 1965 and was ultimately promoted to Professor of Industrial and Applied Mathematics in 2001, has achieved wide recognition for his work on optimal train control.

Prof Howlett, an avid Bob Dylan fan and father of two, this year celebrated his golden wedding anniversary with wife Lorraine. He says he is pleased to receive the Ren Potts medal and says he has Ren Potts to thank for helping him to secure his role as mathematics tutor that set him on his successful career path, exactly 50 years ago.

Through collaboration with Sydney-based company TTG Transportation Technology, Prof Howlett helped develop the *Energymiser* technology that has been installed by rail companies in Australasia, the UK and Europe.

Energymiser is an on-board computer that displays driving advice to the drivers of freight trains and high-speed passenger trains. It is currently being installed as a smartphone app by SNCF in France for drivers of the famed high-speed TGV train.

Prof Howlett has also made substantial contributions to the development of stochastic optimal control policies for water storage in a system of connected dams, and to generation of synthetic rainfall data. More broadly he has worked on operator approximation, signal processing and inversion of matrix and operator pencils.

This is the second time a UniSA researcher has been acknowledged with the Ren Potts award, with it being awarded to Professor Jerzy Filar in 2005.

Accolade for Singapore Alumni Chapter

The University's Singapore Alumni Chapter has taken out a prestigious award at a special event that marked both the Australian Alumni Singapore (AAS)'s 60th anniversary and Singapore's 50th birthday as an independent nation.

UniSA's Singapore Chapter was named the joint winner of the Outstanding Australian University Alumni Association Award, together with the University of Melbourne, by AAS, which is the national umbrella organisation for Singaporean graduates of Australian universities.

Singapore Chapter President Sherina Ng says winning the award is an honour.



Back row from left: Lawrence Lim, Dr Lawrence Liaw, Nigel Relph, Richard Quek, Sherina Ng, Jim Hazel and Mrs Chew.
Front row from left: Dr Mike Teng, David Klingberg AO and Dr Kia Ngee Chew.

"It's a re-affirmation of our hard work to win this prestigious award, and a testament to our committee members' collective efforts to promote the good name of UniSA and its Singapore chapter," Sherina says.

"I would like to thank all our past and current committee members for their support and encouragement.

"We hope to continue adding value to UniSA and to building Singapore-Australia relations for the betterment of society at large."

UniSA Chancellor Dr Ian Gould AM gave his congratulations to the chapter and says the award is fitting recognition for a lot of sustained commitment.

UniSA's Deputy Vice Chancellor and Vice President Nigel Relph, University Council member Jim Hazel, UniSA Fellow Dr Kia Ngee Chew and former Chancellor David Klingberg AO joined the committee to celebrate and recognise the Chapter's achievements.

To see all the highlights from the Australian Alumni Singapore event, go to Alumni Network [website](#).

Architecture award for Jeffrey Smart Building

UniSA's Jeffrey Smart Building (JSB), which was completed last year on

the City West campus, has won a National Commendation for Educational Architecture from the Australian Institute of Architects.

The national award comes after the building was awarded in three categories at the Australian Institute of Architects 2015 SA Chapter awards – the Award for Educational Architecture, the Derrick Kendrick Award for Sustainable Architecture and a Commendation in Interior Architecture.



Principal Consultant for the JSB project, Susan Phillips from Phillips/Pilkington Architects, says receiving a commendation in the national awards in the education category was a particular honour with very few South Australian projects being recognised at national level.

“Phillips/Pilkington Architects along with our collaborative partners on the project, John Wardle Architects, are thrilled to have the building recognised by our peers,” Phillips says.

“The greatest accolade however, has been students embracing the Jeffrey Smart Building. It has been a hub of activity since the day it opened which is very gratifying and makes what we do worthwhile.

“We designed the building to respond to learning in the digital age, promoting collaborative learning and student peer-to-peer learning with a range of technology-rich settings.

“The building has also created a green heart for the City West campus with the building wrapping around the Peter Høj Plaza.”

Receiving the Derrick Kendrick Award for Sustainable Architecture was particularly poignant for Phillips as Kendrick was her lecturer in Building Science during her architectural studies.

The building incorporates a range of strategies to reduce its environmental footprint including a collection of all roof water in a large underground tank which is recycled for toilet flushing and irrigation; air pre-cooled through evaporative panels to reduce air conditioning loads; natural daylight throughout the building with lighting levels determined by sensors; solar water heating; and effective shading to all facades.

SA Press Club Awards for students and alumni

The recent South Australian Press Club Awards saw current journalism students and alumni recognised for their outstanding reporting.

There were a record number of entries this year for the University of South Australia Student Journalism Award. Award judge and UniSA Program Director of Journalism and Professional Writing, Patrizia Furlan said there were two exemplary finalists, both of whom are still completing degrees at UniSA while working in industry.



Fraser Goldsworthy accepts his student journalism award.

The judging panel noted that even though the winner – third-year journalism student Fraser Goldsworthy – hadn’t graduated yet with a journalism degree, the three stories submitted revealed a seasoned reporter, not a student.

“Winning this award means a lot, especially being only 21 and not having as much experience as my colleagues. To me at least, it shows I must be doing something right,” Fraser said.

“I feel extremely lucky to have the opportunity I have, working with and learning from some of the most respected and experienced journalists in South Australia, and to be recognised for the small part I play in 7 News Adelaide. It is very humbling.

“I hope that I can keep doing what I’m doing right now (reporting at 7) when I graduate – and while I’ve been doing it for close to a year, I still have a lot to learn. It’s what I love about this industry and journalism on the whole – it’s something different every day and we’re constantly kept on our toes!”

Bachelor of Law/Journalism student Isabel Dayman, who is a cadet at ABC News, was Highly Commended for the student award.

UniSA journalism alumni awarded were Sheradyn Holderhead for Best Regional/Rural Report, Matt Doran for Best Radio Report, and Ben Avery for Best TV News Report.

The high standard of work produced by UniSA students was also commended at an annual showcase for students in the Television and Video Journalism subject who filmed and edited their own stories which were then

judged by local news directors.

Meanwhile, UniSA journalism students also performed strongly at the Ossie awards for student journalism, run by the Journalism Education and Research Association of Australia.

Anthony von der Borch won one of the premier categories – best text-based story (750 words or less) for his well-written hard news story on vaccinations.

SA Press Club award winner Fraser was highly commended in the category of best video story (2 minutes or less); while Holly Byrne was highly commended in the investigative journalism (individual) award.

Award of excellence for lighting up Brookman Building

A refurbishment project of the historic City East campus Brookman Building has received national accolades from the Illuminating Engineering Society of Australia and New Zealand (IESANZ).

At IESANZ's recently held 2015 International IESANZ Lighting Design Awards, Inlite SA achieved an Award of Excellence for its lighting work on the Brookman Building.

The project is now in the running for an international award.

Senior Project Officer in UniSA's Facilities Management Unit, Andrea King-Jones, commends Inlite for respecting the heritage values of the building, while upgrading it to meet the needs of current users.

"The lighting component for this project highlighted the juxtaposition between the heritage aspects of this listed building and the practical responses required for the building uses that included staff and student use and the requisite lighting that would satisfy the social functions held in Brookman Hall," King-Jones says.

"Inlite worked closely with ICE Architects, Abeo Design and the UniSA Capital Development project team during the planning and execution phases of the project with a focus on an understated response to the levels four and five hallways and vestibules that allowed the interior detail of the building and the stained glass works to be revealed, combined with a single feature lighting element to the central stairwell that towered 15 metres above the entry floor.

"This lighting also highlighted the Indigenous artworks that were commissioned for this project and the new World War I and World War II honour boards located in the stairwell landings."

King-Jones says the interior refurbishment of Brookman Building was a natural progression of ideas that followed the completion of external renovations to the building.

The interior refurbishment of Brookman Building was part of the Minor Capital Works Program in 2012 and following the selection of consultant and contractors, construction works were completed in 2014.

Mould breaking success for ceramic art student

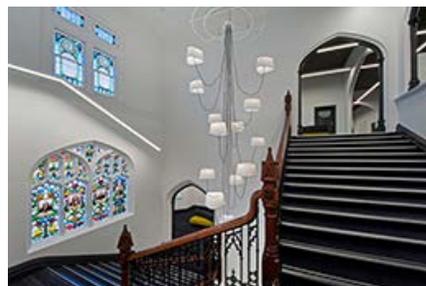
A Visual Arts student, majoring in ceramics, has become the recipient of a Trudie Alfred Bequest Ceramic Scholarship for 2016.

Karlien Van Rooyen, who migrated from Africa to Australia in 2008, said that the scholarship had left her "amazed again" at the privileges life in Australia has afforded her.

"Being supported and recognised as a creditable visual artist given the global economic instability is still something I struggle believing now and then. It is just awesome," Karlien says.

"The Trudie Alfred Scholarship will play a definite role in enabling me to produce art with which to reach out, support and share with the fellow change agents of my generation.

"I am not really interested in producing political work that gets lost in the 'white cube' of upper-class galleries. I intend to make work that lives for the public and exists to inspire and offer a feeling of camaraderie to those seeking to create a just future for everyone (people and environment equally).



Karlien van Rooyen with a range of her early work rapidly transforming into a more experimental practice.

“Ceramics for me is a way of connecting to the land and the diversity of people in Australia. In the practice of kneading through hard grit and soft clay, it allows my subconscious mind to access an inherent haptic language that transcends the barriers of dialect restrictions.

“It allows me to scribe a ritualistic journey of working with my flesh, always raw and present, on the equally fragile and immortal earth.

“I will keep aspiring to become my potential - and am so glad to be assisted by the honour of receiving such a fantastic gift. Every moment of living in Australia is worthy of celebration - my ceramic art is a manifestation of this.”

The Trudie Alfred Bequest Ceramic Scholarship is offered annually and open to students enrolled in their second or subsequent year of a ceramic program. Applications are reviewed by a selection panel of three Australian ceramic artists from different states.

Sports awards

The 2015 UniSA Sport Awards were held at the end of November to recognise the achievements of students and community members who represented or contributed to [UniSA Sport](#) throughout the year.

“The awards are a fantastic opportunity to recognise a range of standout group and individual efforts and to celebrate another successful year of sport at UniSA,” Manager of UniSA Sport Brad Breeding said.

“We celebrated those who play or volunteer within one of the many sport and recreation settings offered through UniSA Sport including clubs, representative, community and campus events.”

Six awards were presented by Pro Vice Chancellor: Student Engagement and Equity, Dr Laura-Anne Bull.

The Volunteer of the Year award was jointly won by Harriet Berman from the Volleyball Club and Inno Muluji from the Football Club who have both shown outstanding levels of commitment in a volunteering capacity to UniSA Sport.

President and founder of the Badminton Club, Bastian Stoehr, was awarded the Club Administrator of the Year for his high levels of commitment and achievement to the Badminton Club.

The Male and Female Athlete of the Year awards, which recognise individuals who have shown high levels of achievement in their chosen sport, both went to UniSA volleyball players, Elliot King and Georgie Rowe for outstanding state and national level achievements, representing not only the University, but also South Australian and Australia in 2015.

The Team of the Year award went to the women’s volleyball team which reached the highest levels of achievement at the Southern and Australian Uni Games in 2015, going undefeated at both events.

Meanwhile, the UniSA Hockey Club won the Club of the Year award, recognising the attainment of a high standard in sports administration and engagement with the UniSA community.

“The club had a great year providing a range of participation and social opportunities as well as strong club and representative team results, while also maintaining sound governance structures,” Breeding said.

Enhanced MBA – a new path to the top

In a strategic collaboration set to raise the bar for MBA programs, UniSA has sealed a deal with the Australian Institute of Company Directors (AICD) that will see the AICD Company Directors’ Course embedded in the curriculum of the UniSA MBA degree.

It is an Australian first and graduates who complete the AICD Company Directors Course as part of their MBA program will have those elements of their study recognised by AICD.

Designed to build an MBA with some added extras, the collaboration delivers students a broader understanding of management practice from the shop floor to the boardroom for new graduates.

Pro Vice Chancellor: UniSA Business School, Professor Marie Wilson says the enhanced MBA adds a vital dimension to students’ understanding of corporate and business operations.

“The UniSA MBA, more than ever, provides a pathway for managers and business professionals to move up to



Team members of the UniSA volleyball team who won the Team of the Year Award (from left) Georgie Rowe, Tess Morcom and Harriet Berman.

the C-Suite,” Prof Wilson says.

The new-look MBA will give students special insights into the role of boards and the elements of finance, strategy and decision-making that ensure a board is operating according to the highest possible standards.

“That is specialist knowledge that will support their ability to manage more effectively,” Prof Wilson says.

“It also gives them the skills to advise boards, join boards and to more fully appreciate the contribution of high functioning boards to an organisation’s success.”

AICD State Manager for South Australia and the Northern Territory, Carmel Noon says she is delighted with the initiative, which commences in 2016.

“Embedding these important business education courses in the UniSA MBA will encourage more business graduates to learn about the governance structure of business,” Noon says.

“This is core to any understanding of the corporate world and how it operates local and internationally.”

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University of
South Australia

UniSA earns world-class research rating

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by Michèle Nardelli



INSIDE UNISA

Results from the newly released Excellence in Research for Australia (ERA) evaluation framework have found that UniSA has had an eightfold improvement in its research quality in the past three years.

Since the last ERA evaluation in 2012, UniSA's research has reached a new high level with December's ERA results finding that 97 per cent of the University's research is world-class or above.

UniSA Vice Chancellor Professor David Lloyd says the 2015 ERA results are good news for South Australia and the University.

"For UniSA, the ERA outcome is really satisfying," he says.

"We have taken on board the Government's agenda to advance knowledge in key areas and the results show we are delivering in those areas – broadly in health and cancer research, in environmental sciences, advanced manufacturing and across the board in engineering.

"In total, UniSA achieved the highest level 'five' rating in 16 core areas."

In South Australia, both UniSA and the University of Adelaide are in the nation's top eight high-performing research institutions. That should be a magnet for industries that want to lead innovation.

"For UniSA, the results reaffirm our commitment to delivering research that is both excellent and relevant," Prof Lloyd says.

"We are building the quality and depth of research, and the capacity to partner successfully with industry, that will support transformation in society.

"People are saying that Australia has reached an economic crossroads. More than ever, Australian universities

have a pivotal role to play in powering enterprise through the development of new knowledge that will support a prosperous future.

“At UniSA we see this as central to our research culture and our identity as Australia’s university of enterprise.”

Find out more about UniSA’s ERA results for research in [cancer](#), [future industries](#) and [nursing](#) and read the full [ERA report online](#).

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\$4.2 million boost to help businesses grow

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by Rosanna Galvin



BUSINESS AND LAW

UniSA's Centre for Business Growth will receive \$4.2 million from the State Government over the next four years to run intensive business growth programs, which will drive growth in both the local and national economy.

Established in 2014, the Centre – based at the UniSA Business School – has already run a number of successful programs, which provide executives of small and medium enterprises (SMEs) with the knowledge, skills and tools to enable them to lead, manage and grow their companies.

The funding was announced as part of the South Australian Government's 2015-16 mid-year-budget review handed down in December.

Centre for Business Growth Director and ANZ Chair in Business Growth, Professor Jana Matthews (pictured right) says the funding will enable the Centre to offer Business Growth Assessment Clinics to 240 companies in South Australia over the next 30 months and its world-class nine-month Business Growth program to 120 CEOs and executives who want to grow their companies.



"The Centre teaches CEOs, managing directors and executive team members of SMEs how to build strong companies that can deliver sustained growth in revenue, profits and jobs. Once CEOs understand how to grow, a large percentage of them begin to grow, create jobs, and go global," Prof Matthews says.

"The programs are already delivering impressive results. The ten companies who already completed our first ANZ Business Growth Program, reported an aggregate increase in revenue of 24 per cent and 29 per cent in profits, and took earnings from \$132m to \$164m in the 2014-2015 financial year. We expect companies in our

second class to achieve similar outcomes.

“Our first cohort of companies created 114 new jobs in Australia and expect to add over 300 more jobs this year.

“The funding from the SA Government will enable us to work with many more CEOs and executives to drive business growth in South Australia.”

UniSA Vice Chancellor Professor David Lloyd says he is pleased the Centre will be able to expand its delivery of programs to a significant number of South Australian companies.

“Job growth is particularly important to South Australia right now, as we realise the need to diversify our economy and be less dependent on the resources and manufacturing sectors,” Prof Lloyd says.

“We need to provide company leaders in our State with opportunities to innovate, the knowledge and skills they need to grow companies, and assistance and support as they prepare to compete in the global marketplace, and that’s exactly what the Centre does.”

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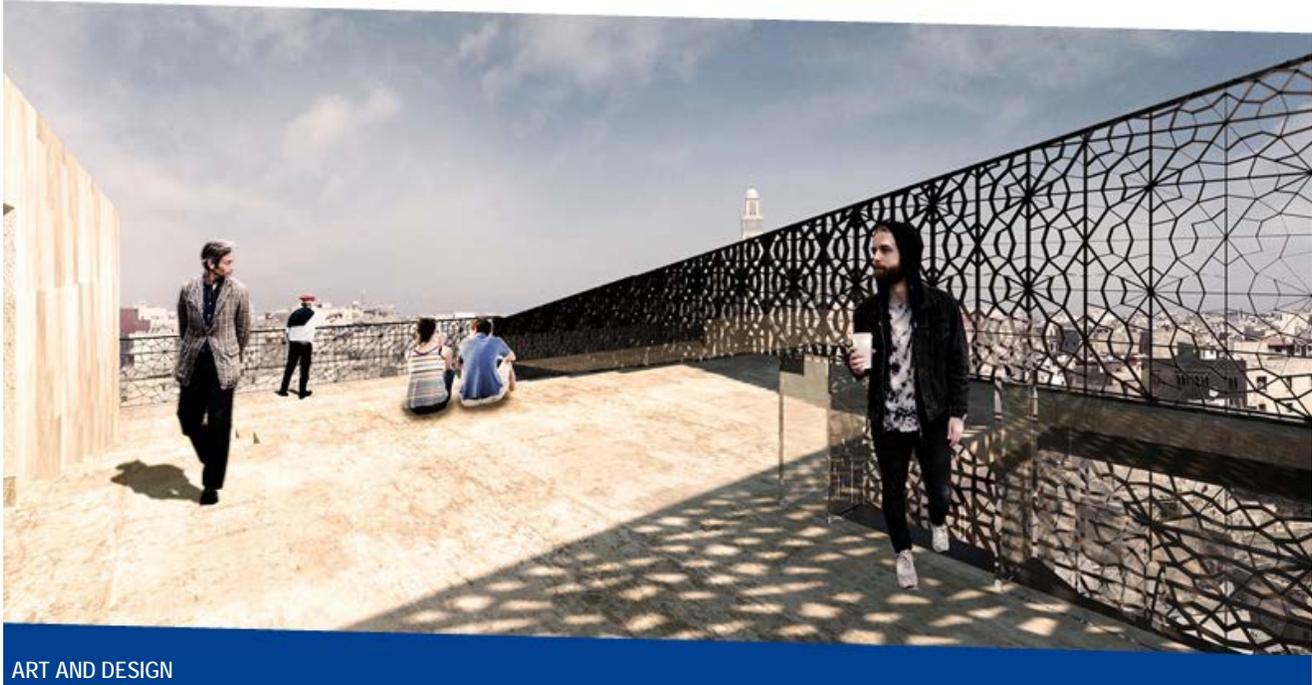
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International architecture prize for bombing memorial

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by Jacinta Mazzarolo



ART AND DESIGN

Masters of Architecture student, William Yuan's winning design.

Masters of Architecture student, William Yuan, has taken out an international competition for his innovative design of a memorial site designed to honour the victims of suicide bombings in Casablanca, Morocco.

While completing his final year of study at UniSA, William was awarded first prize in the Bee Breeders Casablanca Bombing Rooms International Architecture Competition. The competition brief was to transform the devastated site into one that educates, promotes peace and honours the tragedy.

Competing against people all over the world, William's impressive design – featuring a towering structure veiled in a black perforated façade housing a public library, cinema, and learning centre – holds an important significance in an area steeped in tragedy.

In 2003 the Moroccan city of Casablanca was rocked by a series of suicide bombings in the worst terrorist attack in the country's history.

William lists these sentiments, the challenging nature of the work, and the opportunity to test himself against the wider architecture community as some of his driving motives to enter the competition.

"The opportunity to enter the competition was given to fifth year architecture students by our course coordinator, Rachel Hurst, as part of our final Design Studio for Master of Architecture," William says.

"What drew me to the brief was the challenge to do something new in that I've never designed a library or designed within an international context such as Casablanca.

“The challenge of addressing the cultural and political issues associated with the bombings was also an aspect that really intrigued me.”

According to the HMMMD competition’s guidelines, William’s original design had to incorporate a number of concepts and dichotomies to adequately transform the site into one of community, learning, and cultural exchange in the quest for awareness and peace.

“Alongside a library, the competition also included an exhibition space that communicated the meaninglessness of violence,” William says.

“Rather than choosing the traditional idea of an exhibition space, I looked at different mediums of communication that would resonate more strongly to the people of Casablanca.

“The end result was the idea of incorporating a series of cinemas that would serve as the exhibition spaces throughout the library.”

William also says he seriously considered the differences when designing for a foreign country and its sensibilities through contextual research that was eventually incorporated into his design.

“One of the largest differences between Morocco and Australia is the influence of Islamic culture, which has strongly influenced my final design,” William says.

As William finishes up his degree, he says the opportunities he has been given through his work at UniSA and the Casablanca Bombing Rooms Competition has positively reinforced his career pathway.

For more information on the winning design, go to casablancabombingrooms.beebreeders.com/.

London architecture prize for lecturer

In another international architecture competition, an entry by UniSA lecturer Dr David Kroll has been acknowledged as one of 10 winning submissions.

The New London Architecture “New Ideas for Housing - International Ideas Competition” attracted more than 200 entries from 16 countries around the world, from world-renowned architects, developers, consultants, local boroughs and everyday city residents.

The competition entrants were invited to submit an idea that would help to improve the speed, scale and quality of housing supply, making a significant contribution to the delivery of quality housing in London.

Dr Kroll’s entry: “Investing in London’s Future by Learning from its Past” drew on the leasehold system of housing development, with social sustainability being a key consideration of the proposal.

The winning ideas will be presented to the Greater London Authority who will study their feasibility as options for the future of the London housing market.

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UniSA launches Student Law Review

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by Jacinta Mazzarolo



BUSINESS AND LAW

The team behind the *University of South Australia Student Law Review*.

Just over one year ago, a group of determined UniSA law students took it upon themselves to set in motion the development of a new scholarly journal.

As one of the youngest in Australia, the UniSA Law School – established in 2008 – has last month unveiled the *University of South Australia Student Law Review*, an annual journal showcasing a number of student articles and further insights from academics, PhD students, judges and lawyers.

Travis Shueard (pictured below), a second year law student who helped spearhead the *Law Review*, says the lead up to the inaugural edition has been a huge but necessary task to ensure the professional and personal expansion of the UniSA Law School and its students.

“The Law School initially didn't have a law review, and one of my goals when I started my degree was to be part of a law review. As we didn't have one, I decided I needed to create one for myself and other students to utilise in our academic and professional development,” he says.

“We don't want this to just be a student project – we want this to become a legitimate source of research and academic excellence.”

Associate Professor Julia Davis, the supervising academic and student mentor who has had an enormous hand in the journal's development, echoes Travis's sentiment.

She reiterates the importance of a professional outlet for students as well as its role in establishing UniSA as a law school where students and academics work together to promote reform in the law.

“It is important for the students to feel that they are part of the academic debates on important contemporary legal issues and to know that their contributions are valued by academics and members of the profession,”

Assoc Prof Davis says.

“It also helps them to network in the profession and to develop their skills in legal research and writing. We hope that it will inspire some of our contributors to go on to further study and take on the challenge of a Masters or higher research degree.

“Our goal is for the *Law Review* to become a distinctive part of student and academic life at UniSA and we hope that it will serve as a model for other law schools to celebrate the research achievements of our talented and hardworking law students.”

Travis says the *Law Review*, which serves as a platform for undergraduate research and stimulating debate, is a truly comprehensive and inclusive effort incorporating work from many different facets of the law profession.

“It is designed to showcase the research excellence of our students to the world and the profession,” Travis says.

“Articles are authored by students. Each student article is paired with shorter academic and practitioner response articles, creating a unique dialogue and connecting them with the profession.

“The *Law Review*’s objective is egalitarian – students, academics, lawyers and judges all participate together in a project that unites us all – the search for insight and the development of the law.”

Articles in the first edition include:

- Reforming Australian Live Animal Export Law: A Comparative Examination by Seamus Brand;
- Civil Liability for Negligence: An Analysis of Cyberbullying Policies in South Australian Schools by Peta Spyrou;
- Is Society still Shackled with the Chains of 1993 England?: Consent, Sado-masochism and R v Brown by Jordan Moulds;
- Professional Sport and Market Restrictions: Is The Player Points System in the Australian National Basketball League an Unfair Restraint? by Jacob Holmes;
- Should Adoption be Imposed on Broken Families in the So-called Best Interest of the Child? by Stephen Gay;
- Exploring the Legal Tests for Gender Identification in Australian Law and the Repercussions for Same-Sex Marriage by Ashleigh Bagshaw.

The first edition is out now and can be found [online](#).

Law student’s commendation in Australia’s most prestigious essay prize

Ambitious UniSA law student, Travis Shueard (pictured right), was recently one of six finalists in Australia’s most prestigious essay competition, the Governor-General’s Prize.

The Prize is open to undergraduate students, and Travis says he is proud of his essay, and his achievement as one of the only three South Australians to ever place as a finalist.

“The commendation gives me a sense of pride and confidence in my writing and research abilities – things that are critical for lawyers-to-be,” Travis says.

“I also feel very accomplished – I honestly did not expect to place – considering the huge competition from interstate universities.”

Travis’s essay explored the question: Was Athenian democracy more democratic than Australian democracy?

He says it was the sheer challenge of the task, which required a lot of research into Ancient Athens and a full grasp of the reasoning behind its society and beliefs, that sparked his interest.

“The competition is a very significant national one, and I knew that if I threw myself into it, I’d learn a thing or two from it,” he says.

“Fortunately, I managed to place as one of the six finalists. The entire experience has been amazing and very rewarding.”

Next year, Travis will travel to the High Court of Australia in Canberra for a presentation of prizes to the



competition finalists.

He also strongly encourages other students to take on the challenge as he says these extracurricular activities are vital, not only for CVs and future prospects, but for the developing reputation of the Law School.

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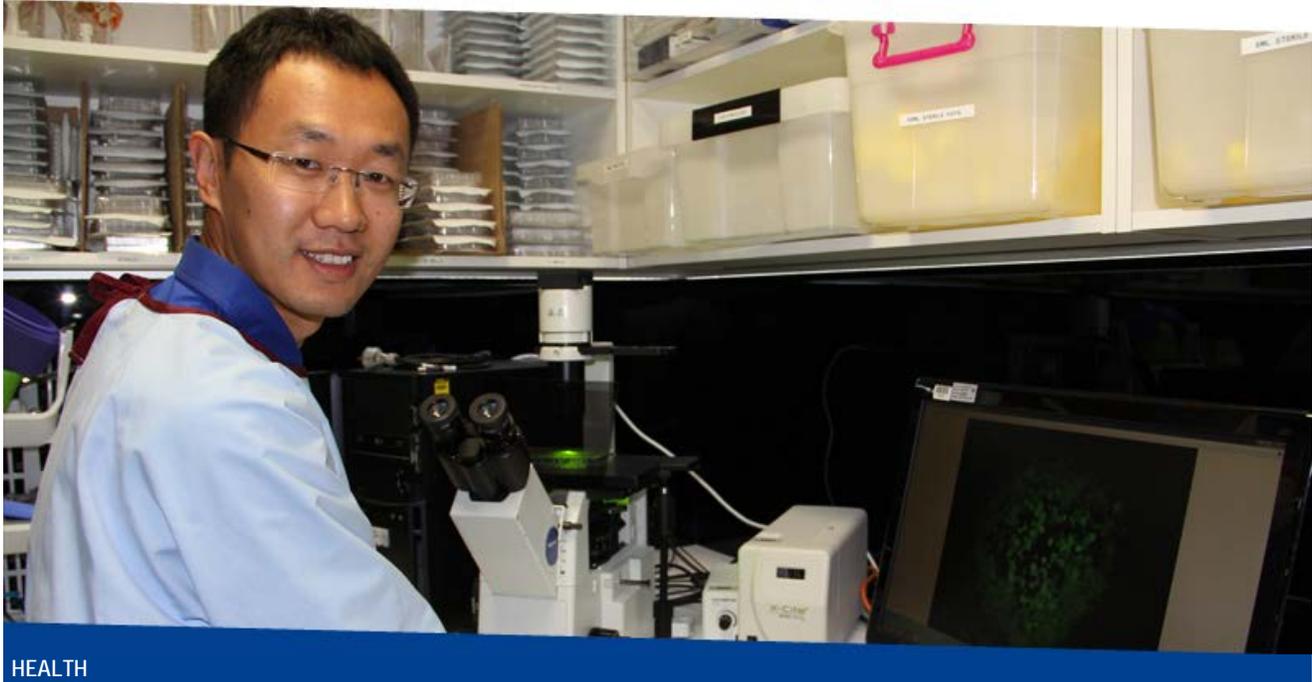
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Chikungunya vaccine edges closer

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by Kelly Stone



HEALTH

Research Fellow and Research Connections grant recipient Dr Liang Liu.

UniSA's Experimental Therapeutics Laboratory is set for an exciting year ahead in 2016, as it edges closer to developing a protective vaccine against the mosquito-borne Chikungunya virus.

In a collaborative research partnership with Melbourne-based biotechnology company Sementis Ltd, the lab is progressing work on vaccines of the future, with Chikungunya 'first cab off the rank' as outbreaks of the virus rise worldwide.

While Chikungunya hasn't yet made it to Australia, Experimental Therapeutics Laboratory head Associate Professor John Hayball said it was only a matter of time and developing a vaccine for Chikungunya is an international health priority.

"Chikungunya is a mosquito-borne infectious disease causing debilitating symptoms and death in severe cases," he said.

"In addition to the acute onset of the virus, Chikungunya often has long-term effects including arthritis. As well as being preventative, the vaccine we're working on may also be able to counter some of those long-term chronic effects associated with infection."

Assoc Prof Hayball and his team of young researchers are now preparing for the Chikungunya vaccine's manufacturing process.

"The next step is to go to contract for manufacturing clinical grade material. From there we move into toxicity studies and early phase clinical trials," he said.

The Chikungunya vaccine is being developed out of vaccine platform technology invented by the UniSA-Sementis partnership.

The first employee of the partnership, Research Fellow Dr Liang Liu, conducted seminal work on the platform and earlier this year was named as co-inventor on its patents.

“Liang has been with us from day one on this project, which started in 2012,” Assoc Prof Hayball said.

“Liang put the backbone of the vaccine platform together and got the platform system going to where we now know it does everything we hoped it would do, and we’ve got the pre-clinical results to show the platform works as predicted.

“That platform has now been patent-protected and Liang is a named co-inventor on this patent.”

Dr Liu recently won an AusIndustry Entrepreneur Development Program ‘Research Connections’ grant valued at \$125,000, with \$50,000 of funding coming from the Federal Government, matched by \$50,000 from Sementis, and UniSA’s Sansom Institute for Health Research contributing \$25,000.

The funding allows Dr Liu to further work on ‘next generation viral vaccine vector platforms’. In addition to Chikungunya virus, the UniSA-Sementis partnership is working on other vaccines from the platform, including peanut allergy, prostate cancer and melanoma.

“I’m really passionate about biotechnology and using cutting-edge tools to genetically modify viruses,” Dr Liu said.

“From our vaccine platform, we’re using genetic engineering techniques to insert antigens from different diseases, like Chikungunya virus to make the Chikungunya vaccine, allergens from peanuts to make a peanut allergy vaccine, and tumour-specific antigens for prostate cancer and melanoma vaccines.

“Now we know the platform is very safe and efficient to modify for all these different applications. Our preclinical evidence is that it’s very effective.”

Dr Liu graduated with a degree in biotechnology in China in 2003, and his Masters in chemical engineering from the University of Adelaide in 2005. He gained his PhD in 2011 from the University of Adelaide in medical sciences, considering how genetics contribute to drug addiction. He started work with the Experimental Therapeutics Laboratory as its first employee in 2012.

In four years, the Experimental Therapeutics Laboratory has grown to eight full-time staff members and a PhD student working on the Sementis project, which is budgeted at \$1.7 million a year.

Assoc Prof Hayball said the UniSA-Sementis partnership is a great example of how industry and academia can work together.

“This is a great example of academic and industry-led research coming together to develop the advances from our clinical work into products and treatments for the wider community,” he said.

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Students bring Mt Lofty visitor pavilion to life

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by Rosanna Galvin



ART AND DESIGN

The opening of the Mount Lofty Botanic Gardens visitor pavilion.

A visually striking pavilion in the picturesque Mount Lofty Botanic Gardens opened last month, following three years of hard work by a range of community groups and more than 170 UniSA students.

Students from architecture, interior architecture, industrial design and engineering played an important role in developing the new Chris Steele Scott Visitor Pavilion, from providing initial designs right through to constructing many of the key elements of the finished building.

And it was Master of Architecture student, Sam Chua (pictured right), who provided inspiration behind the design of the final pavilion, which seamlessly blends into the natural landscape while also enhancing the visitor experience.

Sam's design was selected from 100 submissions from UniSA's School of Art, Architecture and Design (AAD). Sam, who was in the third year of his Bachelor of Architecture degree at the time, said he was grateful for the opportunity to follow the project right through each milestone, from design to completion.

"It still feels surreal that an idea for a university assignment has since become a built reality," he said.

"Since my design was chosen, I have worked closely with UniSA academics Damian Madigan and David Morris, as well as a group of students to further develop and document the pavilion.

"I have also been fortunate enough to assist in both the University workshop and on-site during the construction



Student Sam Chua, who came up with the design of the pavilion.

phase.

“The inspiration for the design came from my first site visit; borrowing the form of the tree branch as the opportunity to imbed nature within my design. The idea then grew to embrace its lush organic context, nestling the curvature of the leaf form within the hillside, open to the views of the lake and Greg John sculpture.

“Although I am still in the very early stages of my career, this experience has been invaluable for developing my architectural skill set. I have had the opportunity to work with senior architects, participate in discussions with industry professionals, and understand working with a client, all while completing a real project.”

The Mount Lofty Botanic Garden Support Group was the driver behind establishing the visitor pavilion, after recognising the garden lacked a central facility where large groups could meet, undertake educational activities and seek shelter from the weather. The group raised more than \$300,000 to get the project off the ground.

UniSA Senior Lecturer, David Morris, said the visitor pavilion offered students a valuable opportunity to work on a real-life project.

“As director of student design and construction projects over many years, I would like to acknowledge the very considerable creative effort and sheer hard work students contribute to the detailed documentation, prefabrication and on-site construction of projects like the visitor pavilion,” he said.

“The Mt Lofty Visitor Pavilion project involved UniSA students in all stages of architectural design and construction from concept designs through to detailed construction drawings, prefabrication and construction on-site.

“This process involved client briefings, design presentations, and working with structural engineers, quantity surveyors and certifiers to produce more than 40 pages of construction documents from which the building could be either subcontracted to specialist trades or constructed by students.

“Students prefabricated and assembled the storage room wall framing, internal lining, roofing and shelving and the external curved timber wall cladding and seats. The students also organised the workshop drawings for the fabrication of the stainless steel seating frames and stainless steel balustrades.

“The overall project would not have been possible without the considerable support of staff, particularly Damian Madigan, Joti Weijers-Coghlan, Mack Wilson, David Gordon, Toby Thomas, Craig English and Shane Haddy.

“Thanks in large part to the involvement of the School of AAD – particularly the enormous contribution by students – the Mount Lofty visitor pavilion project has been a huge success, resulting in a well-designed structure in one of Adelaide’s popular tourist destinations.”

Sustainability, Environment and Conservation Minister Ian Hunter, who opened the new building, said the pavilion was a fine example of community banding together to achieve results in consultation with government.

“The Mount Lofty Botanic Garden Support Group initiated the project, and was instrumental in raising the funds and in-kind support to build the Chris Steele Scott Pavilion, with contributions from more than 130 donors,” he said.

“This is a fantastic achievement given the timeframe of less than two years from conception to completion.”



Some of the AAD students and staff who worked on the project.

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UniSA's Winnovation wonders

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by Will Venn



Associate Professor Karen Nelson-Field (left) and Emily Rich, UniSA Venture Catalyst recipient and Jemsoft co-founder (right).

It was a big win for UniSA at this year's Women in Innovation Winnovation event with staff, alumni and a student taking out more than half of this year's awards, which recognise innovative South Australian women.

The Winnovation awards showcased a range of innovative ways to find solutions to real world problems within the fields of health care, agribusiness, computer vision technology and digital marketing.

This year's winners included UniSA staff member and alumna **Dr Nayane Parange** who is Program Director of Medical Sonography. Dr Parange achieved success in the Regional, Rural and Remote category, having led the development of an education and training model to upskill midwives and GPs caring for Aboriginal women in remote locations.

The Winnovation Science category was awarded to UniSA Senior Research Fellow, **Dr Nicole Pratt**, for developing a rapid side effect detection tool to apply to large data sets of health care use.

Using data sets from across the Asia Pacific region, Dr Pratt has been examining the safety and effectiveness of medicines.

"We've looked at the side effects of anti-inflammatories using this tool," Dr Pratt said.

"If we had applied the tool at the time a particular anti-inflammatory medicine first came onto the market, we would have been able to identify the side effect of heart attack, after about one year that it was on the market.

"That medicine has now been withdrawn from the market due to that side effect but it took four years for it to come off the market, after clinical trials identified the problem.

"The tool has the potential to discover side effects earlier so harms associated with medicine use can be avoided."

For **Associate Professor Karen Nelson Field** winning the Engineering category at this year's event marked her second Winnovation award following success in the Community and Arts category in 2014.

This year's award capped off a dynamic year for Assoc Prof Nelson-Field, one in which she became Director of UniSA's newly established [Centre for Digital Video Intelligence](#), building on her research into the impact of online and digital technologies and social media platforms in the marketing and advertising space.

"The Centre aims to facilitate growth in the online video sector, providing industry with direction about video investment, focusing on principles for effective content distribution, content creation and platform impact," Assoc Prof Nelson-Field said.

"Winning this award in a category less typical of marketing innovation, demonstrates my commitment to building technology and integrating artificial intelligence into our research solutions. There are exciting times ahead in our sector."

UniSA alumna **Karen Brown**, a former researcher at UniSA and now Assistant Director, Organisational Performance and Development at the Department of Primary Industries and Regions SA, achieved the Business award for her Women Influencing Agribusiness and Regions Strategy. It's a strategy that aims to raise the profile of agribusiness and the important contributions being made by women.

Student **Emily Rich**, a recipient of a [Venture Catalyst grant](#) in 2014 and co-founder of start-up company, Jemsoft, was awarded in the Technology category. She has helped develop computer vision technologies which allow anybody to train cameras to recognise, detect and identify objects.

Emily's computer vision technology is being considered to work along with drone captured footage to aid in the conservation of orangutans in Borneo.

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New Colombo Plan success builds global experience

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by Michèle Nardelli



COMMUNITY

UniSA students have scooped up the opportunities afforded by the New Colombo Plan (NCP) scholarships including everything from studying invasive plant species in Fiji to working as an intern in Malaysian media.

UniSA students won six scholarships in this round of funding, more than any other university in South Australia and one the most successful universities in Australia in securing NCP funding.

UniSA Deputy Vice Chancellor for International and Development, Nigel Relph says he is delighted with the scheme and the success of UniSA students.

“We are very much on board with the NCP because we appreciate just how important international experiences are for our students,” Relph says.

“We have always been a university that is keen to engage with our region and to welcome students from Asia and around the world.

“The NCP complements and balances the notion of welcoming international students to South Australia, by providing excellent opportunities for Australian students to step into the professional and educational cultures of other nations – in China, Hong Kong, Korea, Fiji, Singapore, Malaysia and other countries in our neighbourhood.

“Our world is less and less constrained by borders and we know that the leaders and professionals of tomorrow will need to understand the problems and opportunities that present themselves beyond Australia, if they are to be successful and contributing citizens.

“I am delighted with the results and hope all of the NCP scholarship winners have a fantastic international experience that really supports their intellectual and personal growth.”

The winners of the 2016 NCP scholarships are:

Gemma Clancy is studying a Bachelor of Management (Marketing). She won an Ehrenberg Scholarship and is a research assistant at the Ehrenberg-Bass Institute for Marketing Science.

She will travel to Hong Kong in 2016 to study at the Chinese University of Hong Kong and hopes to take on an internship within a multinational company in Hong Kong. She will also learn the Cantonese language and says she is looking forward to gaining a deeper understanding of Hong Kong culture.

Michael Dyer will undertake his honours project in Fiji in 2016 at the University of the South Pacific, supervised by the Head of School of Geography, Earth Science and Environment. Michael will be researching in the field of invasion ecology, particularly looking at the consequences of invasive flora species in forest ecosystems. He will also undertake an internship at Nature Fiji, continuing his practical work in the field. Michael has represented Australia in the recent International Tall Ships race around northern Europe and has volunteered in leadership roles with a number of environmental organisations in South Australia.

Thomas Engelhardt is a touring musician and came to university after seven years in the workforce. He is currently studying for a Bachelors double degree in Journalism and International Relations. He will study at the University of Malaya in 2016, using his NCP scholarship to extend his professional international experience with an internship at a Malaysian media outlet.

Georgia Johnson has a passion for travel and is currently on exchange in the Netherlands. She will expand her international experience in 2016, studying at the University of Malaya, UniSA's key exchange partner institution in Malaysia. A seasoned traveller, she visited rural India where she helped to set up a charity to support families and orphans. This is just one example of her many leadership roles in community organisations. Georgia will continue her studies in her double degree in Bachelor of Marketing and Communications. She hopes to take on an internship in marketing when she heads to Malaysia.

David Sidwell is studying a Bachelor of Arts (Creative Writing and Communication) and is keen to expand his horizons in 2016 through his exposure to South Korea's progressive interactive media industry. The NCP will support him to continue his studies at Sogang University and secure an internship at NCSOFT, one of the world's leading online gaming publishers. He will also take on studies in Korean language and culture. His goal for 2017 is to study Honours as a capstone to his degree, incorporating the cultural insights and industry experience gained through his NCP scholarship.

Lucinda Thurmer is passionate about documenting and promoting new perspectives of communication using media and film production techniques. Under the NCP scheme, she will continue her studies in the Bachelor of Arts (Communication and Media Management) at Korea's Chung Ang University, a long-standing UniSA exchange partner. Alongside her studies and film industry work, Lucinda volunteers with organisations striving to equip women with key skills and support to climb the corporate ladder..

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ART AND DESIGN

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New Books

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Handbook of Environmental and Sustainable Finance

While world leaders such as United States President, Barack Obama and Australian Prime Minister, Malcolm Turnbull, descended on Paris this month for the United Nations conference on climate change, UniSA Associate Professor Vikash Ramiah was in Adelaide, aptly launching a new book on environmental and sustainable finance.

Handbook of Environmental and Sustainable Finance, edited by Assoc Prof Ramiah and State University of New York (Plattsburgh)'s Professor Greg Gregoriou, highlights the latest trends and attitudes in environmental finance. Drawing from empirical research, theory and applied examples, the book details the evolution of the field of environmental science while also looking forward to future research directions.

Assoc Prof Ramiah, based in the School of Commerce at the UniSA Business School, said environmental science has moved from a niche scholarly field to a mainstream sub-discipline.

"In recent decades, the world's focus on climate change has increased significantly as scientists world-wide accept that global warming is a very real, manmade phenomenon that is threatening life as we know it," he said.

"The book follows the international journey of climate change through a finance frame, from the historic Kyoto Protocol – when greenhouse gas emissions reduction targets were set for industrialised countries for the first time – right through to today, when the internet and social media have opened up new opportunities to crowdfund renewable energy projects.

"Environmental and sustainable finance has and will continue to play a very important role in the battle against climate change."

In reviewing the book, Pro Vice Chancellor of UniSA's Business School, Professor Marie Wilson, said the breadth of coverage in the handbook underscores the multi-faceted – and heartening – development of this field, in both research and application.

"From Venice to the Australian outback, this book locates examples of broader and balanced financial approaches to the valuation and preservation of scarce resources. It is an essential resource for the field," she said.

Published by Academic Press, the book is available for purchase on [Amazon](#).

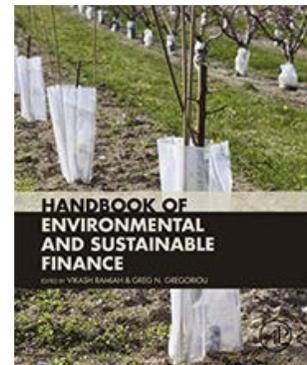
Films and war in Yugoslavia

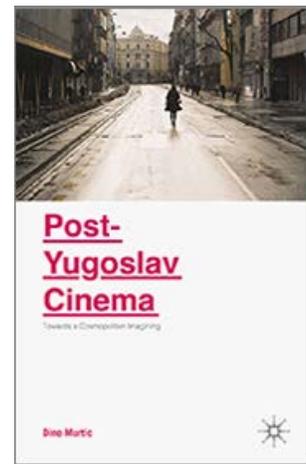
A lecturer with UniSA College, Dino Murtic, has written a book about filmic perspectives on Yugoslav's disintegration.

The book, *Post-Yugoslav Cinema: Towards a Cosmopolitan Imagining*, draws primarily on selected filmic texts from former-Yugoslavia, examining key social and political events that triggered the Yugoslav wars in the 1990s.

"The book demonstrates that a critically examined filmic text – if read with or against other socio-historical literature – can become an alternative historical reference which offers yet another perspective on a particular period of time and its events," Murtic says.

"The book also sees film text as a methodological and exploratory framework through which we can rethink humanism and cosmopolitanism as political and aesthetic





responses to the blinding rage of nationalism.

“In so doing, *Post-Yugoslav Cinema* also insists that we should never underestimate the importance of the visual in learning how to respond and care for the other.”

Murtic teaches Critical Literacy and other enabling courses at UniSA College, helping his students get ready to study a bachelor degree by teaching them about tertiary research and writing strategies.

And in-line with his thought-provoking book, Murtic encourages his students to think critically about the world around them.

The book is published by Palgrave-Macmillan. See the [Palgrave-Macmillan website](#) for more details about the book, including availability.

How Brands Grow Part 2: Emerging Markets, Services, Durables, New and Luxury Brands

How Brands Grow Part 2: Emerging Markets, Services, Durables, New and Luxury Brands, is the follow-up to the international bestseller *How Brands Grow*, which uncovered scientific laws about buying and brand performance and presented those laws in context, exploring their meaning and marketing applications.

The new book, authored by Professor Jenni Romaniuk, Associate Director (International) at the Ehrenberg-Bass Institute for Marketing Science and Professor Byron Sharp, Director of the Ehrenberg-Bass Institute, is about the fundamentals of buying behaviour and brand performance.

Online reviews of *How Brands Grow Part 2* have been positive, with one reviewer describing their reading of the book as being akin to “winning the lottery”.

Prof Sharp says *How Brands Grow Part 2* covers fresh ground, five years on from the publication of the *How Brand Grow Part 1*.

“In the new book, Jenni and I fill in some obvious gaps, like industrial (business-to-business) marketing, online shopping, services and durables, and we provide lots of evidence from high growth ‘emerging markets’ like China, India, Russia, Indonesia, and Brazil,” Prof Sharp says.

“We even cover luxury markets, with some exciting new research on perceptions of brand exclusivity and desirability.

“Readers of the first book, *How Brands Grow 1*, will also be pleased to hear that there is more on strategy execution in the areas of mental availability and distinctive brand assets. And again we show scientific law-like patterns that explain and predict. More evidence that the social sciences can indeed have laws, you just have to look for them.”



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In Pictures

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2015 Clifford Prize for Cancer Research



Professor Inder Verma from the Salk Institute in California and Professor Jane Visvader from Walter and Eliza Hall Institute in Melbourne were awarded the 2015 Clifford Prize for Cancer Research by the Centre for Cancer Biology at the Seventh Barossa Meeting on Cell Signalling In Cancer Biology and Therapy. Pictured above are (from left) Sharad Kumar Co-Director of the CCB, Leanna Read Chief Scientist for South Australia, Inder Verma, Jane Visvader and Angel Lopez Co-Director of the CCB.

Sports awards



The 2015 UniSA Sport Awards were held at the end of November to recognise the achievements of students and community members who represented or contributed to [UniSA Sport](#) throughout the year. The UniSA Hockey Club won the Club of the Year award, pictured here are (from left) Nick Hepple (Outgoing Club President); John Thomas (Coach), Adam Bartrop (Incoming Club President), Helen Stone (Hockey SA President and UniSA Sport Advisory Group member), Ali and Anna McCarron (Club Members).

Rising Sun Pictures and UniSA partnership to boost VFX industry



The new Graduate Certificate in Visual Effects is an intensive 12-week program that will teach UniSA students some important visual effects skills and prepare them for careers in the entertainment industry. Local success story Rising Sun Pictures provided visual effects for blockbuster franchises such as Harry Potter, Lord of the Rings, X-Men and The Hunger Games.

Business Career Mentor Program celebrates five years



((L-R) Mark Charnley, Lachlan Ewers, Monique Bendo-Watson, Victoria Jaeger, Jade Yang and Tien Nguyen.

The Business Career Mentor Program in the School of Business recently held its inaugural recognition awards. There were two award recipients – Victoria Jaeger and Jade Yang – and four commendations went to Lachlan Ewers, Monique Bendo-Watson, Tien Nguyen and Amy Almeida. The celebration also acknowledged three mentors who have been with the program since it began in 2011 - Mark Charnley, David Heaslip and Steven Todd. The program also celebrated its largest year yet, with 200 successful matches between mentors and students.

Visit to Mount Gambier



UniSA Vice Chancellor, Professor David Lloyd and Pro Vice Chancellor for Student Engagement and Equity, Dr Laura-Anne Bull visited UniSA's Mount Gambier campus last month. While in Mount Gambier they visited Pangula Mannamurna Inc. (PMI) Health Service, an Aboriginal community-controlled health service committed to improving the quality of life for Aboriginal and Torres Strait Islander people within the lower South East region of South Australia. Pictured above is Prof Lloyd (right) with PMI CEO, David Copley.

