



UniSA News

June 2005

A newspaper of the University of South Australia



Glass – the cutting edge of visual art

[Full Story](#)

Regular sections

- From the Chancellery
- In brief
- Classifieds
- Colgan's cryptic
- Five to nine
- Our people

Main stories



[Reviewing AFL rules](#)



[Partners in health](#)



[The value of wind farms](#)



[Biometrics – a new era of identity](#)

Other stories

[Hot shop students](#)

[Adding it up](#)

[Rolling in a speedy sport](#)

[The search for sustainability](#)

[Traineeships a ticket to the world of work](#)

[Our People – Phyllis Tharenou](#)

[Khon Kaen provides our first Doctor of Education](#)

[Uni know-how project wins praise](#)

[New Director International](#)

[History of our bricks and mortar](#)

[The business of international wine marketing](#)

[Building begins again](#)

[Passion for planning rewarded](#)

[top^](#)

[Disclaimer](#) | [Copyright](#) | [Privacy](#) | [Web accessibility](#) | [CRICOS Provider no 00121B](#) | [Contact UniSA](#)
[Site help](#) | [Open Day](#) | [UniSA Events Calendar](#) | [Read this page](#)
Latest content revision: Monday, 7 September 2009



UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Glass – the cutting edge of visual art

by **Emma Masters**

While some see glass as an everyday material, glass enthusiasts the world over see it as a substance of beauty and a medium offering endless opportunities for creativity.

Adelaide was given a glimpse into a transparent world of light and colour last month when glass artists, critics and collectors came from near and far for the prestigious Glass Art Society annual international conference.

Staged for only the fourth time outside of America, *GAS@Ausglass: Matters of Substance* proved a resounding success, attracting more than 1,000 delegates and featuring more than 30 glass exhibitions in galleries across the city, along with lectures, workshops and demonstrations from some of the world's best glass artists.



UniSA's Head of Ceramic and Glass Workshop, Gabriella Bisetto, said the fact Adelaide was selected as the location for the 35th conference reflects the state's unified glass community and its growing international reputation.

"Adelaide's glass community is very cohesive. People are always amazed to see how much we work together and socialise," Bisetto said.

"It also helped that UniSA's glass studios and the Jam Factory are so close to one another, with a lot of smaller studios in close range, something very unique to Adelaide."

South Australia has had a passionate love affair with glass, one that spans close to the 30-year duration of the nation's relatively new glass movement. The Jam Factory, a highly reputed glass facility and gallery, was established by former premier, Don Dunstan, in the 1970s and UniSA's glass department, another centre of excellence, was started in 1976 and officially established in 1982.

"The University supported the conference wholeheartedly, not only through sponsorship and by providing all its lecture theatres and facilities for free, but by freeing staff time so they could work on the event and exhibitions. And it has really paid off," Bisetto said.

"All UniSA teaching staff exhibited and the students got amazing recognition.

"Our students have been inspired by the work they have seen, thrilled at having met and worked with some amazing artists and excited by having their work exposed to local and international audiences. So many people commented how amazed they were at the strength of our student and graduate work. It's helped to put us more boldly on the map and it's reaffirmed for the students that they're in a world-class program."

"Every glass artist, collector, gallery owner and critic was here – so they've seen every bit of work that is being made by people around Adelaide and Australia – we couldn't be luckier."

[top^](#)

UniSANews

[Archives](#)
[Contacts](#)
[Media Centre](#)
[UniSA Home](#)

From the Chancellery

A new Research Quality Framework for Australian universities

On June 2 the Vice Chancellor attended a meeting in Canberra to discuss the newly proposed Research Quality Framework.

The framework, proposed by the Department of Education, Science and Training (DEST), is designed to assess the quality and impact of research in Australian universities and publicly funded research agencies.

The development of this framework is a result of increasing concerns about the quality of research supported by government funding and follows moves in other countries, like the United Kingdom and New Zealand, to tie funding more overtly to quality measures.

Current government funding formulas reward universities for the amount of money they win to undertake research, the number of publications their staff produce and the number of research students they have or the number who complete.

Of course, there are measures of quality involved. Research Infrastructure Block Grant for example, provides funding on the basis of success in Australian Competitive Grant Schemes and journal articles and conference papers must be peer reviewed to count towards the Institutional Grants Scheme or the Research Training Scheme.

Both DEST and the Australian Vice Chancellors Committee (AVCC) have established expert working groups around the development of the framework and the DEST Expert Advisory Group recently released an issues paper and invited comment from universities, publicly funded research agencies, and other interested parties.

Key points for debate in the issues paper include the unit of assessment and reporting of research, the make up of the expert panels who will undertake the assessments, and how best to measure the impact our research has on the users in industry and the wider community.

While all universities agree on the basic points such as the research group should be the unit of assessment and the expert panels should contain disciplinary, industry and community experts from Australia and overseas, inevitably, there has been some jockeying between the various blocs within the AVCC.

The Go8, for example, has stressed the importance of impact of research on international peers in the discipline while the ATN has emphasised the role of university research within the national innovation system and the importance of the impact of our research.

Depending on the model which is chosen, the outcome of the Research Quality Framework debate could result in significant changes to the distribution of infrastructure funds between universities.

However, we believe that our strategies of building up internationally recognised centres of excellence, together with our emphasis on collaboration with external partners, provide a platform for us to do well in the new framework.



We await the publication of the proposed model with great interest.

[top^](#)

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[Site help](#) | [Open Day](#) | [UniSA Events Calendar](#) | [Read this page](#)
Latest content revision: Monday, 7 September 2009

UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

In brief

International understanding in research

UniSA's Division of Health Sciences recently signed a memorandum of understanding with Jogjakarta's (Indonesia) Bethesda Hospital, with the aim of sharing research and collaborative teaching and learning. It coincided with the School of Nursing and Midwifery hosting a delegation of doctors and nurses from the Rumah Sakit Bethesda in early May, including Dr Pudji Sri Rasmianti surgeon and director of the emergency department (pictured with Prof Robyn McDermott, Pro Vice Chancellor of Health Sciences) and Dr Nanik Kusumaningrum. During their stay they visited the Gawler, Royal Adelaide and St Andrews hospitals, and the Hampstead Rehabilitation Centre, with a view to upgrading their systems in line with best practice models.



Parklands seminar

Proposed changes to laws governing Adelaide's parklands were discussed at a UniSA public seminar last month. It was hosted by the Centre for Settlement Studies, Louis Laybourne Smith School of Architecture and Design and the Bob Hawke Prime Ministerial Centre. Guest speakers were historian Patricia Sumerling, who is researching the social history of the parklands and Russell Starr, who is developing the legislation for the SA Department for Environment and Heritage.

Chancellor's reappointment

UniSA's Chancellor David Klingberg AM has been reappointed for a further term until June 2008. The University Council decided to reappoint Klingberg following a report and recommendation from a working party. The Council established the working party to consider issues and transitional arrangements for the Chancellor and Vice Chancellor. The Council unanimously endorsed the recommendation by the working party. Members spoke of Klingberg's outstanding contribution to the University and his excellent understanding of the issues facing the higher education sector in the next few years. Klingberg has been the University's Chancellor since 1998.



Gender equity funding

The nation's five leading technology universities, including UniSA, are offering a \$10,000 postgraduate scholarship to a student examining gender equity. The Australian Technology Network of Universities Women's Executive Development Program established the biennial scholarship to honour and continue the work of Dr Clare Burton. Dr Burton, a leading researcher, public sector administrator, academic, consultant and writer on employment equity, died in August 1998. She was a strong advocate and activist for social change, particularly in the area of pay equity for women. Among her numerous achievements,

she was awarded the Australasian Political Studies Association Women and Politics Prize in 1984. In the 1990s Dr Burton conducted about a dozen university equity reviews as well as reviewing both the Australian and New Zealand Defence Forces. The \$10,000 scholarship is available to a student enrolled, or intending to enrol, in an ATN university, in either postgraduate coursework or a research degree. For further information visit www.atn.edu.au/wgroups/wex.htm

[top^](#)

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[Site help](#) | [Open Day](#) | [UniSA Events Calendar](#) | [Read this page](#)
Latest content revision:Monday, 7 September 2009

UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Classifieds

For sale

Giveaway, rabbits to good home. As we didn't separate rabbit boys and girls in time, I now have some excess young rabbits, almost fully grown. Good pets, very tame, hand raised by my children. Good lawnmowers, particularly keen on weeds. Choice of colour: white, black, brown. Contact (08) 8302 3703 or hans.griesser@unisa.edu.au

Giveaway, fox terrier, female, de-sexed, immunised. 2 years old, good with children. A lovely little dog, but not compatible with our cats. Contact (08) 8302 4799 or (08) 8251 1085.

Accommodation

For rent, 2 bdrm character cottage at Bowden, next to North Adelaide Golf Links and Bonython Park, unfurnished, pets negotiable. \$230/week. 1 min walk to North Adelaide railway station – 4 mins into the city. Contact (08) 8346 1727 or 0416 165 416.

Short Term Accommodation, 3 to 6 months only, 3 bdrm house in the Adelaide Hills – \$200/wk. Contact alex.hariz@unisa.edu.au

Croydon, Furnished 4 bdrm home for sub-lease roughly between Oct 2005 to Feb 2006. Would suit visiting academics. Contact mwhite2@chariot.net.au

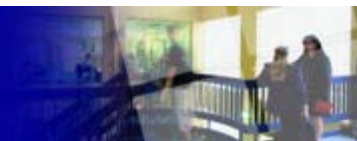
Mawson Lakes, freestanding 3 bdrm Georgian townhome with ducted r/c air con, 2-way bathroom, 2 toilets, walk-in robe, built-ins and 2 lockup carports. \$250pw. Contact rosskurtze.com.au

Got something to sell?

Notices in the UniSANews classifieds are free to UniSA staff and students (space is allocated on a first-come first-served basis).

Email your notices (keeping them shorter than 30 words) to unisa.news@unisa.edu.au

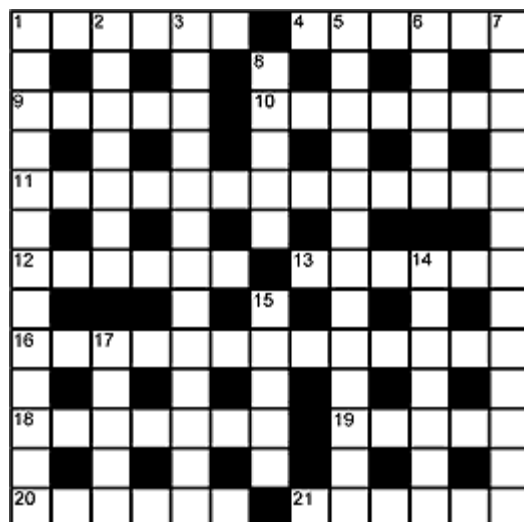
[top^](#)



UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Colgan's cryptic



Across

1. Information supplied at start of play (3-3)
4. Out, please! Out! (6)
9. Foil exile by switching sides (5)
10. One stealing a cooker (7)
11. Inexplicably accompanying eccentric while going ahead (7,6)
12. Cut loose a tenor (6)
13. Keeping one's distance from sergeant-major, perhaps (6)
16. Feeling nervous and not about to register driving mishaps (2,11)
18. For recreation, might member of crew fish? (7)
19. Excited by the effect of a drug (5)
20. One under the willow is an English citizen (6)
21. Maroon thread (6)

Down

1. A shaky ending, after cast acted berserkly (6,1,6)
2. Sting, perhaps darts, overcoming sailor (3-4)
3. Major campaign against the drunk and foul-mouthed (4,9)
5. Claim repeatedly centre is innovative (5-2-3-3)
6. Yonder people put end before principles (5)
7. Person measured by him (dad), for example (13)
8. Barney's footwear (5)
14. Uncoil a mix of materials used in medical prevention (7)
15. Draw near the margin (5)
17. Reach high drawer (5)

Wine to win

For your chance to win a bottle of fine wine, fax your completed crossword to (08) 8302 5785 by Friday June 24.

[top^](#)



UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Rolling in a speedy sport

by Emma Masters

Driving past Mawson Lakes campus on any week night, you might be surprised to spy a group of lycra-clad inline skaters racing around an empty car park as they train for the next speed skating competition. And if you look really closely, you might just recognise one of them – Professor Stephen Cook, DSTO Professor of Systems Engineering.

A somewhat different and daring pastime for a man of his academic and professional status, speed skating has been Prof Cook's passion for 12 years.

He said he loved being involved in a fun and healthy sport, and it also complemented his busy working life.

"I decided to start skating when I watched my eldest son Aaron compete at the National Speed Skating titles in 1993," Prof Cook said.

"I looked at the Masters racing and said to myself, 'that doesn't look too hard, I'll give it a go'."

And there's obviously speed skating blood running through the Cook family's veins. His eldest two sons are national champions and have represented Australia overseas. His second son Robert, now 16, is representing Australia again this year at the World Championships in China. Meanwhile his youngest son Jeremy, who is nine, is also showing great promise. And Prof Cook said it was the family element that made it so worthwhile.

"The most rewarding aspect of speed skating is being able to spend quality time with my sons doing something that we all enjoy," he said.

"I always liked skating as a child even though my involvement was purely recreational. It is essentially good fun and it is also ideal for building aerobic fitness and for weight control."

Like his sons, Prof Cook has competed at a national level, recently winning seven gold medals and one silver medal and setting many personal best times at the National Speed Skating championships in February. He was also in the winning relay team at the Oceania Championships a couple of months ago, beating competitors from across Australia and New Zealand.

"I competed in the Masters B grade this year as I have for the last few years. This is for skaters over 30 who do not consider themselves strong enough for the Masters A grade. But after my wins at the nationals, I am now a Masters A skater!"

It is little wonder he has done so well, given he trains with colleagues and his sons six to seven days a week for around an hour and half each day. With a small contingent of speed skaters in Adelaide, Prof Cook and his family are keeping the sport alive.

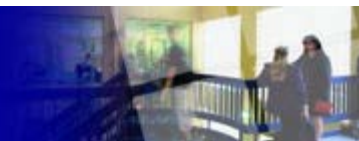
"Speed skating is in a rebuilding phase in SA and Team SkateFX is currently actively looking for new competitive and recreational skaters," he said.

Contact Prof Cook, South Australian Vice President for Speed on (08) 8302 3818 for training times and locations.



[top^](#)

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[Site help](#) | [Open Day](#) | [UniSA Events Calendar](#) | [Read this page](#)
Latest content revision: Monday, 7 September 2009



UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Our people

Phyllis Tharenou

I have been working at UniSA since April 2004 and I love it.

I love it because of the people ... and the job ... and Adelaide is a great city to live in.

I trained as an organisational psychologist in the Psychology Department at the University of Queensland and, over the years, I drifted into a lot of mentoring of other staff. In fact the mentoring seemed to happen right from when I was a lecturer at UQ.

So my job now is a natural progression of that interest. A big part of what I do today is about helping people to develop their research skills and their research careers.

Being Dean of Research in the Division of Business is creative – I think up ways to improve the division's research performance and I get a lot of help to follow those ideas through.

One of the best aspects of the job is that the academics and research candidates I deal with are easy to work with and they appreciate what I do.

The work is both developmental and strategic. It is about formulating strategies to meet the University's research objectives and at the same time providing colleagues with the development, information and support they need to achieve their research goals.

Out of the office I'm busy. I'm a Member of the College of Experts for the Australian Research Council's Social, Behavioural and Economic Sciences, so I spend a lot of my "spare" time assessing Discovery and Linkage grants – more than 200 a year.

I have my own ARC Discovery Grant to work on with my PhD student and research assistant which I am doing with the state government to find out why skilled South Australians come back home to live after they have lived overseas.

The study has meant I get out and talk to a lot of different people – which has been a perfect way to get to know Adelaide. The more I see of it the more I like it, so from a personal point of view, I have no trouble in understanding why they come back.

Phyllis Tharenou is the Dean of Research, Division of Business.

[top^](#)



UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Footy slow down protects players

by **Geraldine Hinter**

A proposed change to Australian Football League rules to "limit the time spent before the ball is brought back into play after a behind is kicked" would reduce the game speed by about 1.5 per cent when compared with current AFL games, a UniSA study has found.

The study has been undertaken for the AFL, which is considering the rule change to slow the game speed, because research shows that faster games lead to increased potential for serious player injuries, according to Dr Kevin Norton, Professor of Exercise Science at UniSA's School of Health Sciences.

"Studies on the physics of AFL football show that player speed has increased by about 1.5 per cent each year since 1998 and there is little to indicate that it is levelling off. We also found that the total number of scoring shots (and behinds) generally increases as the game speed increases. When there are more and/or longer breaks in play, the players have more time to recover, enabling them to keep their speed and the game speed high," Prof Norton said.

UniSA researchers used modelling techniques to determine the impact of the new rule by setting a maximum time of 15 seconds before a player must bring the ball back into play after a behind is scored. This is slightly less than the current average time taken of 18 seconds and is significantly less than the longest time limit (up to 35 seconds) allowed to bring the ball back into play.

"If we increase the game speed by allowing less rest after a behind is scored, players will get fatigued earlier in each quarter, the total number of scoring shots in the game on average will also decrease in proportion, and the number of serious collisions should be reduced by the lower impact and running speeds of fatigued players. And with rest periods decreasing, the game would finish three to four minutes earlier," Prof Norton said.

"The average effect of the rule change would be a slower game speed, which reduces the evolution of the current game speed by the equivalent of about one to two years."

[top^](#)



UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Partners in health

The University of South Australia and Northern Adelaide service providers have joined forces to improve the health and wellbeing of the northern Adelaide community.

UniSA and a network of service providers signed a memorandum of understanding last month that will underpin an ongoing collaboration in health research and education which is already delivering benefits to the community.

Established as part of UniSA's Northern Adelaide Partnership program, the MOU will provide a framework for a range of exciting health and wellbeing projects.

From health and fitness programs for children in local schools, right through to professional development opportunities for health services workers, UNAPP Director, Mike Elliott, said the agreement underpins action.

"We already have human movement students working with the Swallowcliffe schools to diagnose and treat coordination deficit disorder which affects about six per cent of children and can have long term impacts on learning, fitness and socialisation.

"We have psychology students working with Child and Adolescent Mental Health Services to help reduce the lengthy waiting lists for access to psychological support.

"And there are a range of other health and wellbeing projects at the coalface that involve UniSA physiotherapy, podiatry, and occupational therapy and education students."

Elliott said in addition to the immediate benefits to the health and wellbeing of individuals, the example of young vibrant university students working in careers that make a difference in the world was helping to inspire the next generation of students in the area.

Signatories include Anglicare; Children, Youth and Family Services; Children, Youth and Women's Health Services; City of Playford; City of Salisbury; Department of Education and Children's Services; Drug and Alcohol Services Council; Good Beginnings; Kids 'n' U Family Services; Lyell McEwin Health Services; Lyell McEwin Health Services – Mental Health Division; Northern Areas Community and Youth Services Inc; Northern Metropolitan Community Health Services; Sexual Health Information; and Networking and Education SA Inc.



[top^](#)



UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Adding up the value of wind farms

by **Geraldine Hinter**

A model developed by UniSA researchers to calculate variability in the electricity generated from wind farms could be a key tool for future planning of the state's renewable energy sources.

What is important in electricity generating systems is not just how much power can be generated but how variable or reliable that supply might be, according to Dr John Boland from UniSA's Centre for Industrial and Applicable Mathematics and Environmental Modelling Research Group.



"Electricity generating systems that rely on natural forces, like wind or solar energy, experience variability. If energy suppliers can predict drops in voltage or expected power shortages at peak times, the stability of the supply can be maintained using backup measures," he said.

The mathematical model was developed for the Electricity Supply Industry Planning Council. It includes data on output variability at different time scales based on the statistical characteristics of Starfish Hill Wind Farm and wind measurements from the Bureau of Meteorology.

The model will be used as an important tool to calculate what the output variability might be for a diversified system of wind farms, including wind farms under construction or planned for the future, based on wind characteristics in different parts of the state.

Run by Tarong Energy, Starfish Hill (pictured above) was selected for its consistently strong winds and is considered to be one of the best locations in Australia for wind-generated power. The wind farm generates enough power to meet the annual energy needs of Kangaroo Island and the local Fleurieu Peninsula (18,000 households).

"Being able to predict the output variability at different time scales is very important. Electricity is dispatched in five minute intervals so it is important to know the level of variability in the generating system over that time frame," Dr Boland said.

"Knowing the output variability in half hour time frames and longer is particularly important to meet peak demands because power suppliers need sufficient forewarning to start and reach the operating level necessary to meet demand.

"But the most important reason for moving to renewable energy is to cut greenhouse gas emissions and reduce our ecological footprint."

It is estimated that Starfish Hill will reduce Australia's greenhouse gas emissions by the equivalent of up to 2.1 million tonnes of carbon dioxide during its forecast 25 year operating life. Other wind farms now in service or under construction in South Australia will multiply those savings ten times.

[top^](#)

UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Biometrics – a new era of identity

Amid controversy surrounding international travel and national security – stories of baggage tampering, Australian residents being wrongfully detained or deported and a general “atmos-fear” of terrorism – the Federal Government has just announced more funding for developing biometric technology for identity verification and border security. National identity has been put in the spotlight in more ways than one. So what is biometrics? How does it work and what will it mean for the average Australian? Emma Masters reports.

Biometrics is technology that measures a person’s unique physical characteristics – from fingerprints and face structure, an iris or DNA.

Once science fiction, like in James Bond movies where eyes were scanned to grant access into secure rooms, biometrics is now a reality and governments and businesses are considering adopting the technology in everything from border security to banking.

UniSA computer and information sciences researcher, Professor Paul Swatman, said that despite the sophistication of biometric technology it may in the end be social factors that limit its uses. He and a group of international colleagues have been looking at evolving attitudes in Europe about using biometric ID cards or passports.

“Biometrics is a very accurate and high level form of security compared to the others types we use today, such as photos and pin numbers, and that makes it especially favourable for border control where governments want a system to be as accurate as possible,” Prof Swatman said.

“But there are other common forms of resistance to change. People are concerned about the intrusiveness of biometrics. For example, I ask myself how my granny would feel about having her irises scanned when she goes to the bank. Then there are privacy concerns.”

In Australia, the government has been seriously investigating biometrics for many years. In July 2004, Australian Customs completed an 18 month trial where Qantas crew travelling through Sydney International Airport could use face recognition technology to register with customs. Just before the Sydney trial ended, the Federal Government committed \$10 million to expand the system to Melbourne. In May this year the government made its strongest commitment to developing biometric technology, setting aside \$185.7 million over four years.

The national system on trial is called SmartGate. Users approach a SmartGate stand (pictured), place their passport on the reader and look at a camera on the stand. A photo is then verified against electronic images stored on the passport. Less intrusive than having irises scanned, and a technology that is said to be more reliable than fingerprints, SmartGate performs a face-to-passport check in around 10 seconds.

So for Australians beginning to think about participating in a biometric passport system, where does their attitude to the technology come from? What is the price of convenience?

To demonstrate the effectiveness of their research approach, Swatman’s team analysed five years of newspaper articles on the adoption of the mobile phone and the internet. Once satisfied with the effectiveness of the approach, the team applied it to the question of biometric IDs in America and a range of European and Asian countries. They found three main concepts dominating public debate. They were



the benefit the innovation offered, the associated loss of personal privacy, and security.

“Though the detail of the debate differed significantly from country to country, observing social attitudes to ubiquitous ICT innovations, the public debate has basically been about loss of privacy versus utility and benefits. But with something like September 11, you get a huge burst where privacy doesn’t really seem to matter all that much and national security is the important thing. 9/11 has been one of the main triggers for governments to push for biometrics in ID systems.

“Interestingly, it seems that something like 9/11 has less long term impact on public perceptions than you might think. In comparison, for example, when the internet first became commercially visible in the mid 90s we saw regular stories in the press about people having their credit card numbers ripped off. These stories seem to have had a much longer term impact than 9/11, where we saw a steep immediate focus on national security followed by a steady return of privacy to centre stage.”

Prof Swatman says that it is not necessarily the use of SmartGate’s facial recognition in customs that will be a real problem for people, it’s the sense of overloading that raises more complex issues.

“One issue that became clear very quickly was that when governments thought about investing money in biometric ID card systems, there was considerable incentive to overload the services linked to the ID card, extending its use to drivers’ licences, medical, social, tax and criminal records,” he said.

“Many officials we spoke to said, ‘if we had this, we could reduce welfare fraud, identify tax rorts’ and so forth. While some of these ideas are harder to implement in practice than you might immediately think, it is easy to see the attractiveness to governments and commercial organisations of being able to build very detailed pictures of people from a range of sources – linked by a unique identifier.”

It is such privacy issues that make civil libertarians cringe. Another concern raised is that facial recognition can be done remotely.

“At first we thought intrusiveness would be the most significant issue, but if the ID card is readable remotely then identity checking and recording could be done without people even knowing it was happening. In a world with increasing numbers of surveillance cameras, there is massive potential for concern,” Prof Swatman said.

“Obviously you can protect privacy in different ways – by passing laws, through technology and work practices – but there is no complete solution.

“The process of selling the idea to the population is quite a difficult one because individuals make decisions and form their attitudes based on information they absorb, ultimately sourced from many different organisations and lobby groups through the media. So the major hurdle which governments face will be education and information.

“Here in Australia, some years ago, we saw extensive public concern expressed over the proposed introduction of the Australia Card. Community perception ensured that proposal was shelved – though we do have the tax file number which, in many ways, has a similar effect. We can expect similar extensive public debate over biometric IDs.”

[top^](#)

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[Site help](#) | [Open Day](#) | [UniSA Events Calendar](#) | [Read this page](#)

Latest content revision: Monday, 7 September 2009

UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Hot shop students

The Glass Art Society's conference proved a dynamic forum for UniSA's students to immerse themselves in the international glass arena, gain exposure and work behind the scenes.

The International Students Exhibition, held in the South Australian School of Art's new gallery space in the Karna building, showcased more than 300 student works. Impressively, UniSA students won six of the 13 prizes on offer.

Third place was awarded to Rebecca Hartman-Kearns who received \$500 from Bullseye Glass, glass blowing tools and a subscription to *Urban Glass* magazine. Her success didn't stop there; her winning piece was purchased by a Parisian gallery, where she has been asked to exhibit in October.



"I was thrilled by the win, but also by meeting glass students from across the world and seeing their work. It was an unforgettable experience," Hartman-Kearns said.

Honourable mentions were also given to South Australia's Sarah Field, Karen Cunningham, Nicole Ayliff, Esther Lower and Yhonnie Scarce. Scarce and student Chris Carter were also asked to exhibit in Paris.

In addition to helping to organise demonstrations and lectures, two UniSA students were offered workshop scholarships with Scott Chaseling, an internationally known glass artist. They also worked as technical officers for international artists, positions that had people applying from across Australia.

"Being a part of the conference really helped me see that pursuing a career in glass is not such an unobtainable goal," said Lower, a third year UniSA glass student who received an honourable mention in the international student show, and worked as a technical officer.

[top^](#)

UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

The search for sustainability

by **Emma Masters**

Growing concerns about the impact of development and industry on the environment have seen sustainability become a buzz word of the new millennium and under environmental protection laws, it is now an explicit objective. So how do governments, industry, community and environmental groups balance often competing economic, social and environmental goals?

In the first lecture of the Division of Business' Working Links seminar series, national authority in environmental law, Professor Rob Fowler, addressed this critical question.

Drawing on a recent consultancy report undertaken for the South Australian Environment Protection Authority (EPA), Prof Fowler, UniSA's Chair in Environment Law at the School of Commerce, discussed what sustainability means, how the EPA is promoting it and how industry is meeting objectives.



Speaking to a packed audience at the Rockford Hotel, he said how the lack of consensus about the meaning of sustainability raises some real difficulties. And in searching to find common ground Prof Fowler suggested practical ways of tackling the issue, looking at three main areas – "law and order", "jobs and the environment", and "people power".

He talked about the need to strengthen regulation and how it's administered, to develop smart regulation that uses economic instruments and market mechanisms, and to adopt voluntary methods in industry, as well as alternatives to conventional regulation.

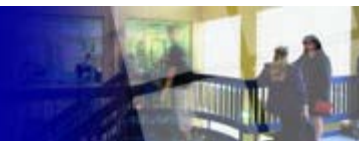
In looking at jobs and the environment he told of how the legal and policy framework is inadequate in helping the EPA to do its job and how there is a need to develop criteria for weighing up economic and environmental values.

Then advocating for a greater level of public involvement in all levels of the decision making process, he talked of how revamping the Environment Protection Act and the way the EPA operates will help facilitate "people power".

While Prof Fowler said there were no simple answers, he said assisting the EPA to develop an approach to sustainability for the future was worthwhile and crucial.

The EPA has already taken some of the recommendations on board, and is currently developing a sustainability charter.

[top^](#)



UniSANEWS

[Archives](#)

[Contacts](#)

[Media Centre](#)

[UniSA Home](#)

Khon Kaen provides our first Doctor of Education

by Michele Nardelli

When Thailand's Ada Raimaturapong began studying at UniSA in 1994 as an AusAid scholarship winner she had no idea she would leave the institution as a trailblazer.

A graduate with a Bachelor of Education majoring in English, Raimaturapong was building her career as a teacher of English as a Second Language in Thailand.

After finishing her Graduate Diploma in Education at UniSA, she returned to SA in 1997 to complete her Masters program. In semester two 1999, with a scholarship from the Thai government, she embarked on a Professional Doctorate in Education, a program just established at UniSA to provide teachers with a professionally relevant doctoral qualification.



"I had some very specific ideas I wanted to explore related to how I could improve English language education for engineering communities who are very dependent on English texts throughout their education and careers," Raimaturapong said.

"A traditional PhD, while interesting and rewarding, was really more about research than the application of new ideas and models in the workplace."

The program is available full and part-time to meet the needs of working professionals, but Raimaturapong tackled it full-time which meant setting up house in Adelaide and bringing her two teenage children with her.

"It has been a great experience but it took a lot of planning to juggle family and study," she said.

Raimaturapong's research project entitled, English for Thai Engineering Communities: Curriculum renewal processes for English for specific purposes, was highly focused. It is something she said will apply immediately in her work in Khon Kaen at the Rajamangala University of Technology Isan, where she lectures in Technical English.

Raimaturapong returned to Adelaide in May to attend her graduation and catch up with lecturers who, after so many years, have become friends.

Those who supervised Raimaturapong's research, Professor Jill Burton, Jenny Barnett and director of the program, Dr John Walsh, believe she has set an amazing example.

"She is the first graduate in the Doctor of Education program – she is an international student undertaking doctoral studies in a second language and culture which added complexities and challenges. Her achievement is most definitely trailblazing," Dr Walsh said.

[top^](#)



UniSANEWS

[Archives](#)
[Contacts](#)
[Media Centre](#)
[UniSA Home](#)

History of our bricks and mortar

by **Rebecca Jenkins**

The stories behind some of South Australia's most recognised buildings are being told at a new museum in UniSA, revealing many layers of the state's rich architectural history.

An immense collection of blueprints, drawings and photographs has found a home at the new Architecture Museum in the Karna building, City West campus.

Museum director Dr Christine Garnaut said the collection was an excellent resource for university students and staff, conservation architects, historians, as well as the public.

A priority was to "help the public better appreciate architecture ... better understand the whole architectural process".



Architectural historian Donald Leslie Johnson started the collection to save the records of architects who were retiring.

He donated it to the South Australian School of Technology in 1990. It now has a purpose-designed space in the Karna building.

The collection is a record of some of Adelaide's most treasured structures, including the former Bank of New South Wales building, and the AMP building, designed in 1934 in King William Street.

It provides a catalogue of some projects that never made it off the ground, such as a community centre at Barmera, designed in 1944, and a record of buildings and structures now demolished.

The majority of the collection is from the 20th Century, but the earliest piece is an 1846 stained glass window design by colonial architect RG Thomas.

Newspaper cuttings of the time also record public reaction to new projects and developments, which was not always favourable.

There are plans for the homes of the "Adelaide Establishment", complete with smoking rooms and maid's rooms, as well as brochures and drawings giving a lasting record of how ordinary people lived.

Dr Garnaut said she found the story told by the many plans, drawings and photographs fascinating.

"The collection covers more than architectural history," she explained. "It's also a social and cultural record."

In addition to working on cataloguing and storing the records, Dr Garnaut, Collections Manager Dr Julie Collins, PhD candidate Susan Collins, and others, are using the collection as a major resource for their research.

To view the collection contact Dr Julie Collins on (08) 8302 9235.

[top^](#)



UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Adding it up

by **Rodney Magazinic**

Calculating the square of five digit numbers, such as 36,487, is beyond most calculators, yet Professor Art Benjamin can work it out in his head. He recently demonstrated why he is a world leader in rapid mental calculation at a public lecture organised by UniSA's Division of Information Technology Engineering and the Environment.

Based at the high profile Harvey Mudd College in the USA, Prof Benjamin's visit is part of a collaborative agreement between the mathematics schools of the two universities that has seen many student and faculty exchanges take place over the last few years.

For Prof Benjamin teaching mathematics is about debunking myths and making mathematics more appealing and enjoyable.

"I think the biggest myth is that an aptitude for mathematics is something you are either born with or not. I believe for the most part, mathematics is a matter of practice," he said.

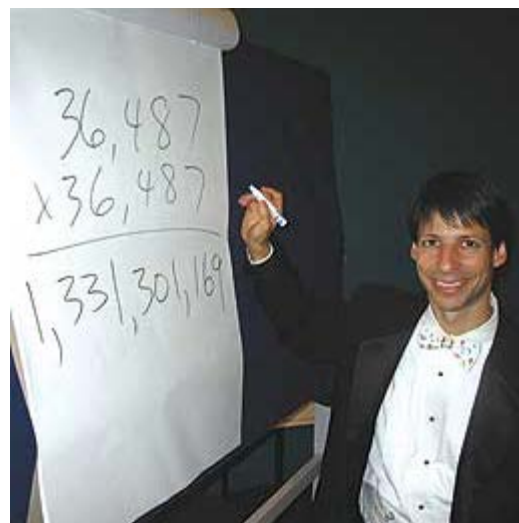
"I like to show that mathematics can actually be a great deal of fun. Even something as simple as arithmetic can be taught in creative ways that make the subject more enjoyable than it has been when approached traditionally."

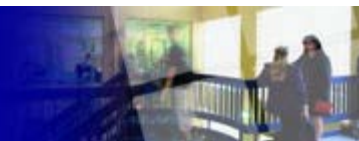
It's his unique way of combining mathematics and his other passion, magic, that makes his presentations, dubbed "mathemagics", so successful. By demonstrating and then explaining the secrets of rapid mental calculation he has people mesmerised.

"My mission in life is to bring mathematics to the masses. If I can inspire other students and teachers to have more fun with the subject and not to take it quite so seriously then I will feel successful."

And by the way ... the square of 36,487 is 1,331,301,169. Prof Benjamin could have told you that in less than a fraction of the time it took you to read this article.

[top^](#)





UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Traineeships a ticket to the world of work

By **Zoe Helman**

A newly revamped traineeship program at UniSA offers young people a pathway to achieve a nationally recognised qualification, while gaining practical employment experience.

The Career UniSA employment program was established in 2001 as an initiative to create opportunities for people aged 16-24 to develop workplace skills.

Human resources consultant Kerry Wells said the traineeship scheme is the first step towards further possibilities within UniSA.

"We're bringing young people in who usually don't have a work history – so they're very open to moving into a work environment and just soaking it up and learning and growing from it," she said.

Information technology and administration are the areas where most trainees are employed across a range of divisions.

Several Indigenous people are among the current group of trainees who attend TAFE one day a week as part of the program.

Ribnga Green is a trainee in information technology with the Human Resources Unit. He started in January 2004 and extended the 12-month position until September this year so he can pursue a further certificate at TAFE.

"I think it's opened up a lot of doorways for jobs because before that I didn't have too much on my resume," he said.

Green hopes to find employment within UniSA when he has completed the traineeship. "UniSA has been great – they're all really good people. Before I started I knew nothing about computers at all so they've been very patient and understanding and I've learnt a lot more now," he said.

Tracy Drewett only started her traineeship in administration with Learning Connection last month, but said she would definitely try to stay with UniSA when she completes the program.

For Drewett, the traineeship means gaining experience and meeting a lot of interesting people. She said the University has been very supportive during the intensive induction process.

"It's fantastic, it really is. I haven't looked back."

[top^](#)



UniSANEWS

[Archives](#)[Contacts](#)[Media Centre](#)[UniSA Home](#)

Uni know-how project wins praise

Work to familiarise high school students in Northern Adelaide schools with university life and study won accolades for the University Orientation Program Team at the Chancellor's Awards for Community Service.

In partnership with Fremont-Elizabeth City, Salisbury East, Smithfield Plains, Paralowie, Salisbury and Craigmore High Schools, and St Columba and Endeavour Colleges, the team has developed an 11 week program that brings local students onto UniSA's Mawson Lakes campus to learn about university life.

Started in 2003 the project has grown with more schools registering interest each year. Year 11 students get to sit in on first year lectures and tutorials in subject areas from each of UniSA's four divisions and then work on small research projects which they present to peers, university teachers and mentors.

In some cases their work is formally assessed by the schools and incorporated into a SACE unit. The program benefits students in the region, provides important information to teachers and excellent opportunities for undergraduate students, who act as peer tutors, to further develop their range of graduate qualities including leadership, communication and interpersonal skills.

The program was given special praise for its role in developing strong regional partnerships with schools in northern metropolitan Adelaide and for making university study worth serious consideration for hundreds of students in the area. Last year 86 students from eight schools took part in the project and in 2005 those numbers are expected to increase.

The project team was awarded \$7,000 prize money to support transportation costs in this expanding program. The team includes Fiona Underwood, Amanda Walsh, Dr Ian Clark, Lorraine Connor, Scott Copeland, Jenny Davies, Esmond Dowdy, Andrea Duff, Sue Gilbert-Hunt, Ian Hamilton, Lyn Leaney, Roman Muller, Dr Jan Stanek, Aaron Agnew, Deidre Bilney, Michael Davis, Arthur Filippou, Mohammed Khazab, An Nguyen, Philip Pojer, Louisa Russo, Ryan Summerton, Lann Tay, Alexander Wiegand, and Sally Ziniak.

[top^](#)

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UniSANEWS

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

The business of international wine marketing

Getting the background on the Australian wine industry, its wine pricing strategies, export market selection and wine market analysis, were key topics for international MBA students from Bordeaux Business School, whose Masters program involves study trips to famous wine regions in several countries.

The Wine Marketing Group hosted the students at UniSA, one of four prestigious universities chosen to deliver the curriculum.

Visiting the small boutique winery, Charles Melton, was of particular interest to Los Angeles student, Michele Kawamoto (pictured), who is examining export strategies for Australian boutique wineries to compete successfully in the UK market. Kawamoto is focusing on two main areas of study, looking at the unique selling point of this high end price segment and relationship marketing.



For Julie Lerner from the United States the visit was an opportunity to investigate some of Australia's wine marketing strategies for her thesis, which looks at increasing wine consumption in the 21 to 34 year age group in the USA.

She said that only a small percentage, 12.5 per cent, of people in the USA drink 88 per cent of the country's wine, but her targeted age group drinks more beer and tends to be intimidated by wine, possibly because they have no knowledge of wines and there is virtually no education on the subject.

While visits to Jacobs Creek, Grant Burge and Charles Melton wineries gave the international visitors a welcome taste of Barossa Valley wines, palate was not important for some students. It's a business program and they all hope to come out with knowledge of the global wine industry and, of course, an MBA.

[top^](#)



UniSA News

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

New Director International

The new Director International Robert Greig joins UniSA this month from Ballarat University.

He is currently the Acting Head of Ballarat's International Student Programs office where he has managed international business including offshore programs and interstate campus development, as well as student mobility, onshore recruitment and marketing.

Greig said he was looking forward to the move to Adelaide and becoming part of the team at UniSA.

"It's got a fantastic reputation worldwide and in Australia as being a progressive and forward looking university," he said. "I think Adelaide is one of Australia's best kept secrets. It's got everything Melbourne has, but it doesn't have the traffic jams."

Greig has a Master of Science from the University of Alberta, a Master of Arts (Science and Technology Studies) from Deakin University and a Graduate Certificate in Tertiary Teaching. He has lectured in food technology at the University of Alberta, Massey University, UWS and Ballarat University.

In 2000 he became the Academic Director, International Student Programs in Ballarat University's International Office. He was responsible for quality assurance in academic planning and delivery of international student programs. This included study abroad, student exchange, off campus oversight of student services, international students administration, marketing and admissions.

Greig has significant experience dealing with China, both in international business relations and international education. His negotiating experiences in China have been recognised in two books – Negotiating China and China Business.

"One of the issues I would really like to look at is what UniSA is doing in China," he said. "Hopefully I will be able to bring a different perspective and also learn from everyone else at the University."

International and Development Executive Director and Vice President Dr Anna Ciccarelli was delighted to announce the appointment, which followed a national search.

"I know Rob will bring a combination of academic and international business development experience that will add a further dimension to our international work," she said.

[top^](#)

UniSANews

- [Archives](#)
- [Contacts](#)
- [Media Centre](#)
- [UniSA Home](#)

Building begins again

The final stage of the Blueprint series of projects is underway.

This stage will be raised on the site of the existing Art Museum, on the corner of Fenn Place and North Terrace.

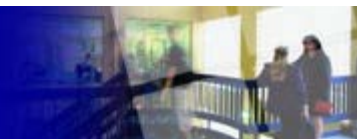
Commonly known as Building 3A, this state-of-the-art facility will house the Hawke Centre, the new UniSA Art Museum and Gallery space and Chancellery.

In addition there will be a 400-seat theatre and a variety of other teaching spaces.

Demolition on the site started late last month. There are now site fences, hoardings and some traffic restrictions through Fenn Place until early 2007.

Please be aware of this activity and take extra care when crossing Fenn Place.

[top^](#)



UniSANEWS

[Archives](#)

[Contacts](#)

[Media Centre](#)

[UniSA Home](#)

Passion for planning rewarded

by **Rebecca Jenkins**

To the uninitiated a career in financial planning might sound like a numbers game but for UniSA student Matt Lockwood it's all about people.

The third year applied finance student is looking forward to forging a career in the industry, where he can help people to navigate their way through the maze of superannuation and other investments.

"I have always worked with people. I love people, that's what I do," he said.

"Financial planning is just a way you can help people out."

Lockwood, a 29-year-old mature student, recently won the AMP Financial Planning Scholarship, worth \$5,000, to assist with his studies.



He decided to study at the University of South Australia after travelling extensively and working in a range of sectors including hospitality and tourism.

"If you had told me five years ago that I would go to university I would have laughed it off," he said.

But motivated by his interest in financial planning, and a desire for personal development, he enrolled in UniSA's Bachelor of Applied Finance, which is a three-year degree program.

He said he has found the course challenging, but rewarding.

"I had never studied before and never been to university," Lockwood said.

"I thought that university would be a lot easier than it actually is – it's definitely a challenge."

Lockwood balances his full-time study load with a part-time job in finance.

He said the \$5,000 scholarship would be a great help with fees, equipment and for further professional development.

The New South Wales native was also looking forward to putting his skills and training to good use in South Australia.

"I think there are lots of opportunities in SA," he said.

"I have already got a job here and there is definitely a career path for me here in SA.

"There's always opportunities there if you look for them."

The scholarship was set up to support students interested in pursuing a career in financial planning. It is offered to a full-time third year Bachelor of Applied Finance or Bachelor of Commerce/Bachelor of Applied Finance double degree student.

The selection panel considers a range of criteria including the applicant's academic merit, communication skills and their understanding of financial planning principles.

[top^](#)

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