

Out of this world!



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South Australians have a chance to get closer to space than ever before.

Starting this month, Adelaide is hosting the world's biggest gathering of space experts, with public events and displays bringing home the wonder and excitement of space vehicle design, travel and exploration.

It's all part of a major international event being held in Adelaide—and Australia—for the first time.

The International Space University (ISU) is running its summer session in Adelaide from June 27-August 27. Hosted by the University of Adelaide, Flinders and UniSA, the nine-week study program will see more than 120 space experts and 100 students

converge on Adelaide from around the world.

As well as the intensive education program being run for students enrolled with the ISU, a wide range of public events will give South Australians a unique opportunity to learn more about the breadth and depth of space-related work, and how it relates to their lives.

Free public events include lectures and panels involving some of the world's biggest names in space, such as astronauts, space vehicle designers, engineers and astronomers. Real moon rocks will be on display, on loan from

Above: Space Shuttle Discovery makes an orbital pass over Iceland in August 1997
Photo by NASA

NASA, and there will be a public demonstration of robots in action, designed by students attending the ISU program.

The nine-week program is being run in our winter, as it is usually held in the northern hemisphere's summer. Available to postgraduate students, the program covers all the main space-related fields, from space business, policy and law, to design, engineering and sciences.

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Archives offer window to university's soul

This year marks the 130th anniversary of the establishment of the University of Adelaide — and a new exhibition is celebrating the occasion.

Located in the foyer of the Barr Smith Library, the exhibition — called "Through the Eyes of the Archives"—is being staged by the University Archives during June.

Records on display start from the very first steps taken towards the grand vision of creating the University of Adelaide, which would be only the third university in Australia at that time.

Visitors to the exhibition will see how the university began from humble origins as a college to educate prospective clergymen, to what is now South Australia's foremost educational institution.

The records on display not only illustrate the academic and social history of the university, but also highlight the role of staff and student associations in enriching life on campus and the strong links with affiliated organisations throughout the State.

The exhibition also explores the role of the Archives in ensuring the preservation and management of official records of permanent value, and guaranteeing access to valuable primary sources for students and researchers from within the university and the wider community.

The exhibition is free. For more information contact the University Archives on (08) 8303 5184 or email: archives@adelaide.edu.au



Graphic by Rachel Jarrad



VC receives honorary doctorate

Adelaide's Vice-Chancellor, Professor James McWha, has been awarded an honorary Doctor of Science degree from his former institution, Massey University in New Zealand.

Before joining the University of Adelaide, Professor McWha was Massey's fourth Vice-Chancellor in its 75-year history, from 1996 to 2002.

At a recent graduation ceremony in Wellington, New Zealand, Professor McWha (pictured left) was presented with the degree of Doctor of Science, *honoris causa*, by Massey's Chancellor, Mr Nigel Gould (right).

Photo courtesy of Massey University

Global focus for \$9m water centre

Water expertise from the University of Adelaide will play a key role in a new \$9 million international education and research centre.

The new International Centre of Excellence in Water Resources Management will be based in Adelaide and is made up of a consortium that includes the universities of Adelaide, Flinders, UniSA, Deakin, Newcastle, Central Queensland and TAFE SA.

The Federal Government is contributing \$6.7 million over three years towards the centre, the State Government \$630,000 over three years and five partner universities \$1.75 million over five years.

Professor Graeme Dandy, head of the University of Adelaide's School of Civil and Environmental Engineering, is the centre's interim director.

The centre's main areas of expertise will include: sustainable surface water and groundwater management (including reuse), integrated catchment management, ecosystem management, water resources policy, water and wastewater treatment technology, and health risk assessment.

Professor Dandy said the International Centre of Excellence would showcase Australia's world-class education, training and research facilities in water resource management.

"The partnership consists of 16 education, government and industry organisations working together to give the best possible learning opportunities to people around the world," Professor Dandy said.

"Water resources management affects billions of people and is a critical issue for many countries around the world. The establishment of this centre will see Adelaide and Australia become a hub for the best minds in the field."

The centre will promote itself to international students to further their education in Australia. It will develop new courses as well as offering a suite of existing programs, ranging from para-professional TAFE courses to Bachelor degrees, coursework Master degrees and PhDs at participating universities across Australia.

"Many of these courses are already being offered by the various partners, but with the International Centre of Excellence bringing the partners formally together, it makes it a lot easier to market these courses overseas which in turn makes it much more attractive for international students to come to Australia," Professor Dandy said.



"Water resources management affects billions of people and is a critical issue for many countries around the world."

The centre will also develop online courses for delivery in Australia and overseas, Professor Dandy said.

"Our international focus goes beyond attracting students to Australia. A large component of what we will be doing includes the provision of online programs so students can further their education in their home countries.

"In addition, there are about 20 institutions across the world that have already indicated to us that they are prepared to collaborate with us and assist in staff and student exchange programs," he said.

Professor James McWha, University of Adelaide Vice-Chancellor, said he was delighted in the pivotal role played by the South Australian universities.

"All the universities associated with this bid have a strong focus on water resource management issues and many members of staff who specialise in this field," Professor McWha said.

"I congratulate Professor Dandy and the staff of the partner organisations who worked tirelessly to ensure the bid came to fruition."

Story by Howard Salkow and Ben Osborne



Adelaide-based experts recently held a two-day symposium on Asymmetric Warfare for the United Arab Emirates (UAE) Armed Forces.

Asymmetric warfare describes the unconventional form of warfare employed by weak nations and groups such as terrorist organisations. This includes attacking in unforeseen or unplanned ways, such as the 9/11 terrorist strikes in the United States.

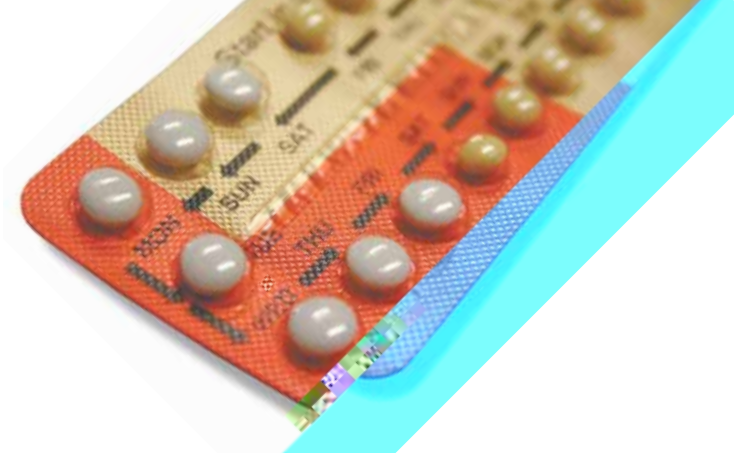
The University of Adelaide has taken a lead role in encouraging a joint Arab-Western approach to the issue by holding the Asymmetric Warfare Symposium in Abu Dhabi.

Around 120 delegates attended the symposium, including defence force personnel, academics and senior members of various government ministries from the Gulf region, as well as academics and defence force personnel from Australia.

“This was a major step forward for many reasons,” said Dr John Bruni, Adjunct Lecturer in Strategic Studies at the University of Adelaide and convener of the symposium.

“Being able to build these bridges and jointly address an issue of major importance to the Arab and Western worlds has opened the way for further discussion in the near future.

“The fact that we have been willing to bridge these gaps at a time of international crisis has earned us some respect, and at the same time we have developed a greater understanding of the cultural nuances of the Gulf region.”



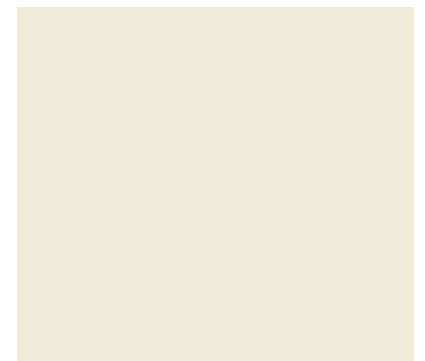
According to Ms Jessie Gunson from the Discipline of Gender Studies, the advent of long-term hormonal contraception such as the Pill, injections or implants means women can choose not to have periods even if there is no medical reason for them to do so.

Ms Gunson wants to talk to women to find out their experiences of suppressing menstruation and why they choose to do it.

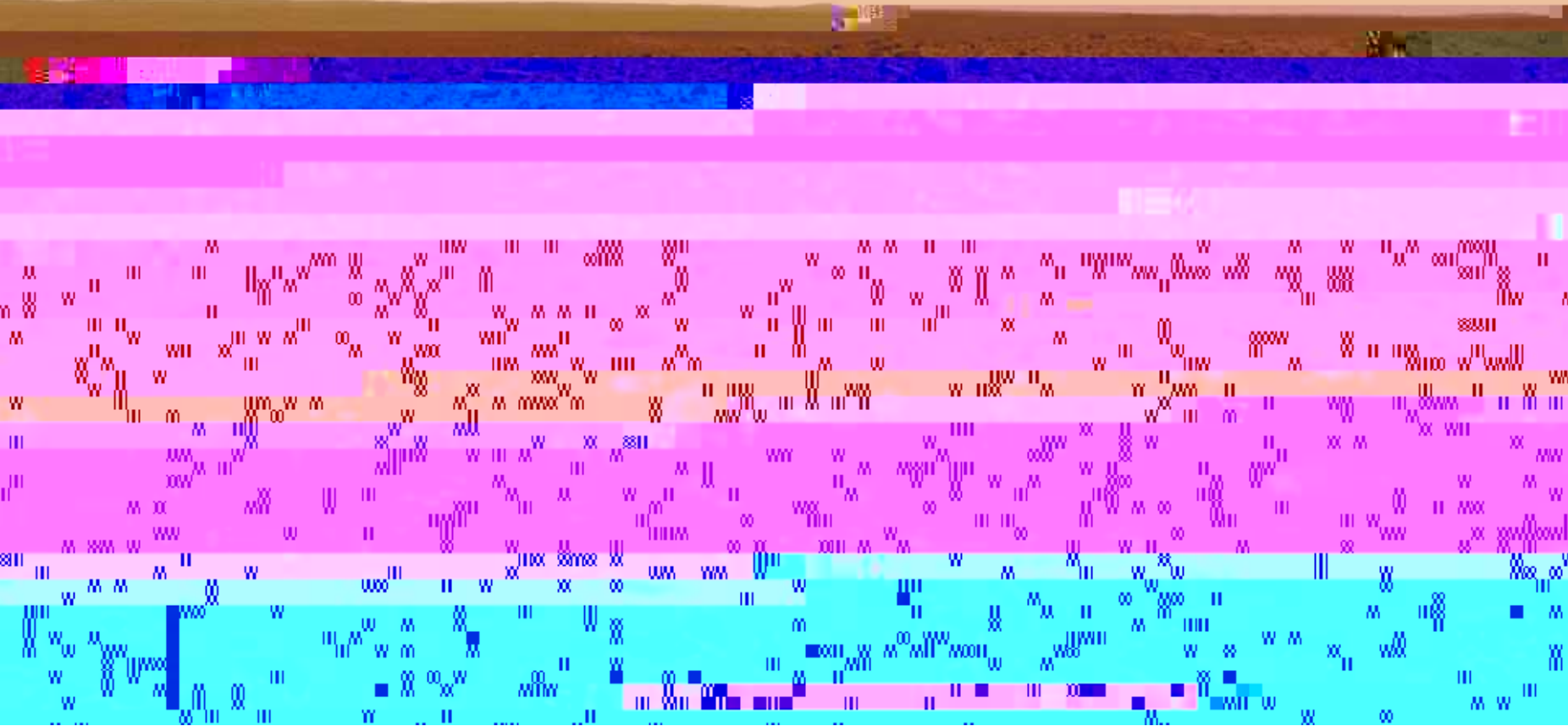
“For a number of years hormonal treatments as well as surgery have been used to suppress menstruation for medical reasons such as dysmenorrhea and endometriosis,” she said. “In particular, doctors will often prescribe the Pill to be taken continually to alleviate the pain associated with the monthly period.

“But now, the Pill is being remarketed as not so much a birth-control method but as a method of controlling menstruation as a ‘lifestyle choice’.”

This is particularly the case overseas,



Mars in our backyard



In many ways, the South Australian outback town of Arkaroola is much closer to Mars than it is to Adelaide.

But that won't stop students from the International Space University (ISU) program travelling to the country town as part of their unique study experience Down Under.

Arkaroola is around 600 kms north of Adelaide, and quite a bit further away (about 150 million kms) from the planet Mars. But because Arkaroola's nearby landscape closely resembles the red planet in many respects, it is the focus of a "Mars analogue" research project by the Mars Society.

The aim of the project, known as MARS-OZ, is to study how humans may live and work on Mars utilising environments here on Earth. The South Australian site will complement others around the world, including the United States and Iceland.

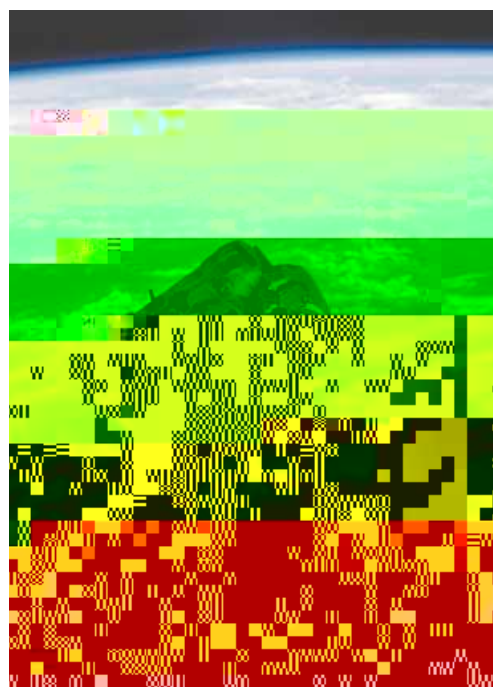
A group of students taking part in the Adelaide-based ISU program (see story on page 1) will visit Arkaroola

in August. They'll see first-hand why the region offers a chance to study Mars-like conditions, such as terrain and geology.

This field trip is just one of the many exciting opportunities offered to students of the ISU Adelaide program. Others include a four-day field trip and series of rocket launches at Woomera, a robot competition, and a space-walk simulation using a swimming pool to provide "neutral buoyancy", the same way astronauts are trained.

Students taking part in the ISU Adelaide program will also be involved in a number of team projects that deal with important space-related issues. The team projects are:

- Water cycle studies using space technology and applications, with an Australian case study;

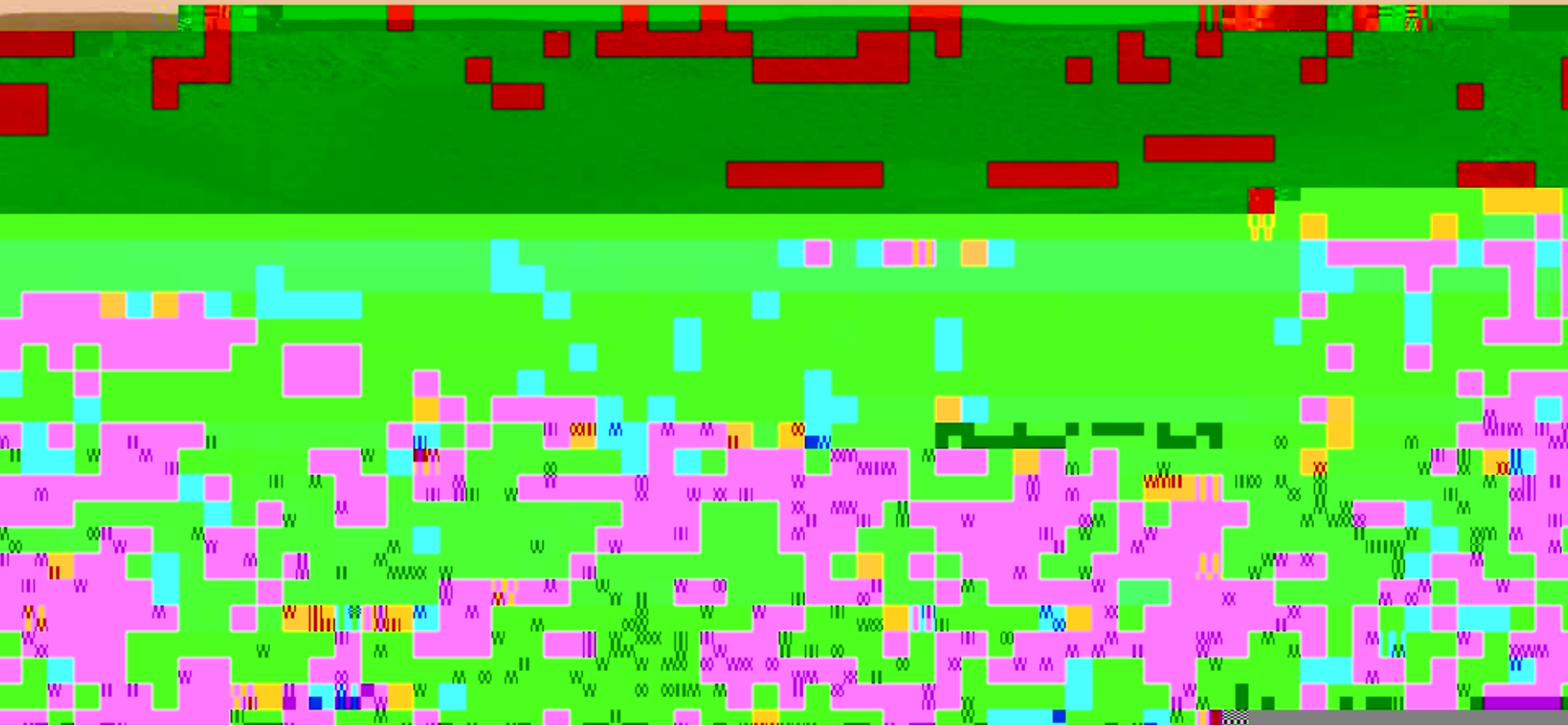


Above: This isn't Arkaroola – it's a panoramic view of Mars at the informally named 'Bonneville Crater' taken earlier this year by NASA's Mars Exploration Spirit Rover
Photo by NASA/JPL/Cornell

Left: Space-walk simulations will form part of the International Space University program in Adelaide
Photo by NASA

- The role of satellite communications in the development of rural and remote regions; and
- Lunar missions in the framework of current space exploration initiatives for Mars.

These projects represent real issues that affect not just the future of space exploration and technology but also human lives and the environment here on Earth. Each team will present the results of their projects at the end of their study program in August.



Out of this world!

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Students who attend the summer program range in age from 25 to 45 years, with the leading space agencies often sending their top professionals to attend.

“The International Space University is at the pinnacle of international space education, and we are proud to be hosting its summer program here in Adelaide for the first time,” said the Chairman of the ISU Adelaide organising committee, Mr Michael Davis.

Mr Davis is a graduate of the ISU, having received his Master of Space Studies degree in 1996, and is a University of Adelaide Law graduate (1973).

He said the ISU Adelaide program was unlike anything Adelaide had seen before.

“The potential economic benefit to South Australia from the event is estimated at more than \$4 million. “More importantly, this is a chance for South Australia and the nation



to play a pivotal role in the world’s biggest space education program,” he said.

Around 40% of the academic component of the program will involve Australian input, Mr Davis said.

For more information about public events as part of the ISU Adelaide program, see details on this page.

Story by David Ellis

Be part of the Adelaide space experience

Members of the public have a unique opportunity to take part in events as part of the South Australian visit of the International Space University (ISU).

Following the official opening at the University of Adelaide’s Bonython Hall on June 28, members of the public will be able to attend the following events—for free—in June and July.

Date	Event	Topic
June 29	Distinguished Speakers Panel	“Space policy in different parts of the world, with an emphasis on the Asia Pacific region”
July 6	Distinguished Speakers Panel	“Services to remote areas: how can space help?”
July 13	International Astronauts Panel	“International astronauts: back to the Moon and on to Mars?”
July 15	Robot Competition	“Simulation of a planetary mission”

More public events will be held throughout July and August.

Most public events will be held in Union Hall, University of Adelaide. For full details of the events, including times and venues, check future issues of the *Adelaidean* or visit the official websites:

www.ssp04adelaide.com
www.isunet.edu

Stoler appointed to Australian aid council

Andrew Stoler, the University of Adelaide's 07 TsG683

The former Deputy Director-General of the World Trade Organization (WTO) has received Federal Cabinet approval to serve a three-year appointment on the Australian Government's Aid Advisory Council.

The Council meets twice a year under the chairmanship of the Foreign Minister, the Hon. Alexander Downer, and comprises 11 individuals drawn from academia, business, religious organisations and non-government agencies.

The role of the Council is provision of independent expert views on the planning and delivery of Australia's aid program. It is intended to help ensure that the aid program reflects the values of the wider Australian

community and is an important means of opening up the aid program to new ideas and approaches to development.

"I am truly honoured by the appointment and looking forward to making a contribution," Mr Stoler said.

"Australia's aid program is widely praised and admired for its effectiveness. It is critically important that the program should be kept under regular review so that it continues to be implemented in ways that respond to the up-to-date needs of recipients."

Mr Stoler, who is also an adjunct Professor of International Trade

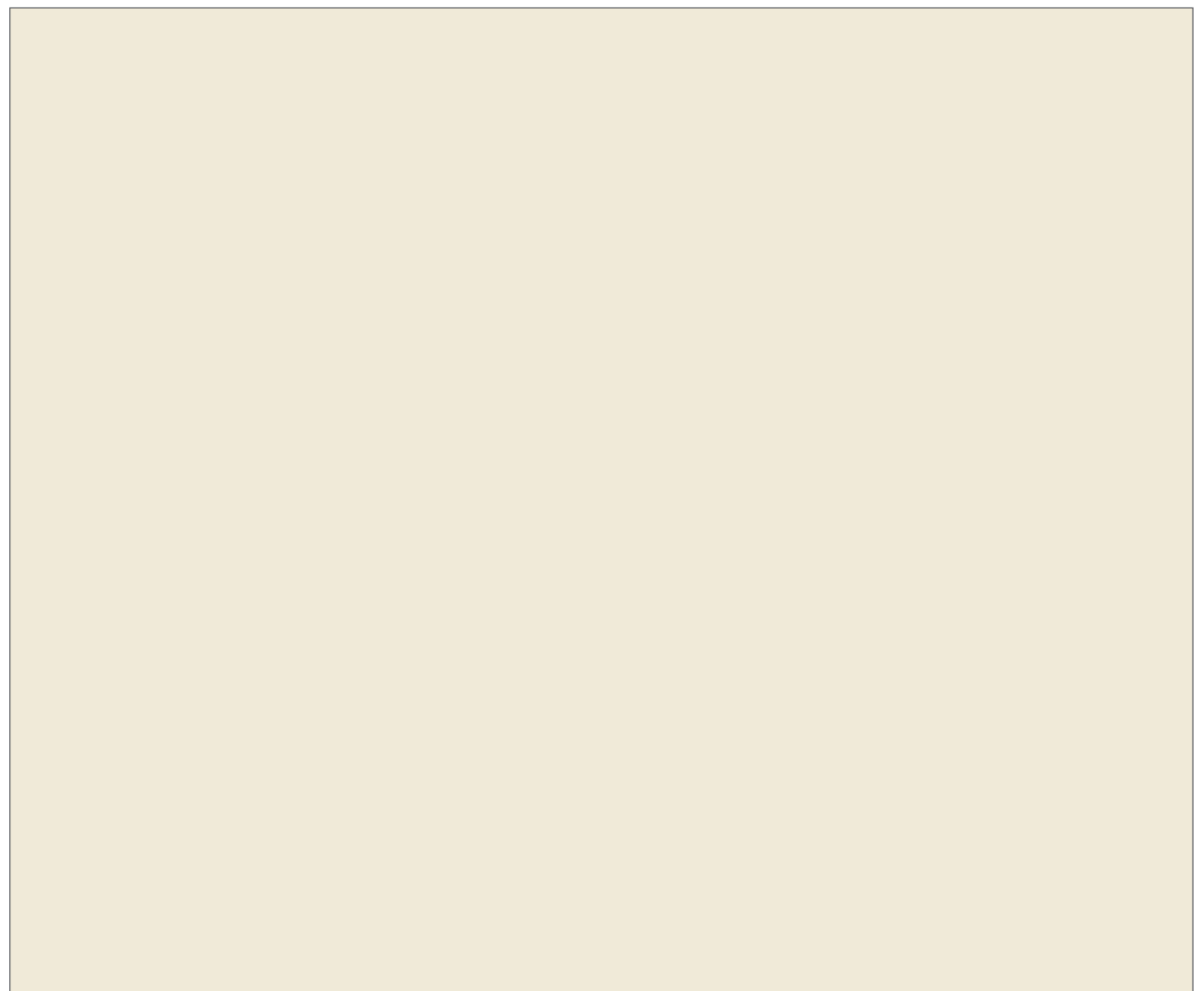
at the University of Adelaide, is a member of the Advisory Committee of the Shanghai WTO Affairs Consultation Centre and a Senior Advisor to the Shenzhen WTO Affairs Centre.

Over the course of a long career in international trade, Mr Stoler served as Deputy Director-General of the Geneva-based WTO from 1999-2002 and Deputy Permanent

Representative of the United States to the GATT and WTO (1989-1999).

As a senior official of the Office of the United States Trade Representative, Executive Office of the President (Washington, DC), he also served as Deputy Assistant USTR for Europe and the Mediterranean and Director for Canada, Australia and New Zealand.

Story by Howard Salkow



Future clothing sizes taking shape

National efforts to improve Australia's clothing standards are taking a hi-tech turn at the University of Adelaide – with a new, state-of-the-art body scanner.

Called a Bodyline Scanner, the 3D human body surface scanner is the first of its kind in Australia.

Installed in the University of Adelaide's Medical School, the new scanner will be used to collect data for a pilot study of human body size and shape. This will lead into the future Body Size Survey of the Australian population.

The scanner will be used by SHARP Dummies Pty Ltd in collaboration with Professor Maciej Henneberg, head of the university's Department of Anatomical Sciences.

"This surface scanner is a second generation machine capable of locating 2,048,000 points on the body surface," Professor Henneberg said.

"The software supplied allows automatic and manual identification of body landmarks and measurement of body surface lengths and girths."

Professor Henneberg said the measurements would support improved sizing in the clothing industry and applications in the exercise and body shaping fields (such as plastic surgery), as well as

monitoring body development from a medical perspective.

"The first use of the scanner will be a trial survey that will compare traditional body measurements of a sample of adult women with those taken by the scanner. SHARP Dummies and the University of Adelaide will be looking for volunteers to be measured and scanned," Professor Henneberg said.

Ms Daisy Veitch, the Managing Director of SHARP Dummies, said this was an exciting step in the update of Australian clothing sizes because the scanner would capture shape and posture in addition to the usual size measurements.

The Bodyline Scanner is on loan to Professor Henneberg by Hamamatsu Photonics K.K. of Japan in conjunction with their Australian Distributor, SDR Clinical Technology, who installed and commissioned it.

Story by Howard Salkow

Cellist centre stage in youth orchestra adventure

The Adelaide Youth Orchestra continues the Symphonic Journeys concert series with their second concert, *Adventure*, to be performed at Elder Hall this month.

Adventure, being held at 3pm on Sunday, June 27, will include performances by all three of the Adelaide Youth Orchestra (AdYO)'s ensembles and will feature the combined forces of two orchestras and more than 100 musicians on stage.

AdYO's first concert for this year, *Star-Cross'd*, was an "impressive start" to its concert calendar, according to *The Advertiser* (April 2004).

Adventure proffers an exciting program ranging from J.S. Bach to Bruch, and sees the first collaboration of AdYO's two "older ensembles", the Adelaide Youth Orchestra and the Adelaide Youth Sinfonia in a performance of Chabrier's *March Joyeux*.

Eighteen-year old-cellist and University of Adelaide student Yasuto Nakamura is the soloist in Bruch's *Kol Nidrei* (Adagio for Violoncello)

to be performed with the first orchestra conducted by the university's Head of Strings at the Elder School of Music, Keith Crellin.

As well as taking his part in AdYO's *Adventure*, Yasuto has embarked on a personal adventure of his own. Learning cello from the Adelaide Symphony Orchestra's Principal Cellist, Janis Laurs, and studying first year Psychology at the University of Adelaide, Yasuto is pursuing success in both academic and performing arts careers.

The orchestra will also perform Dvorak's *Slavonic Dances Opus 46 1,2,3* and Humperdinck's *Hansel and Gretel*.

The Adelaide Youth Sinfonia directed by Tim Marks will perform works by Charpentier, Bach, Schubert and Verdi. Always refreshing and creative, the eight to 12-year-old members of the Adelaide Youth Strings, directed by Martin Butler, have selected works by Mozart and Debussy and the funky *African Reggae* by Jimmy Durante.



The Elder Hall Evening Concert Series on June 24 features the Australian premiere of Emmy award-winning composer James Oliverio's timpani concerto, *The Olympian*.

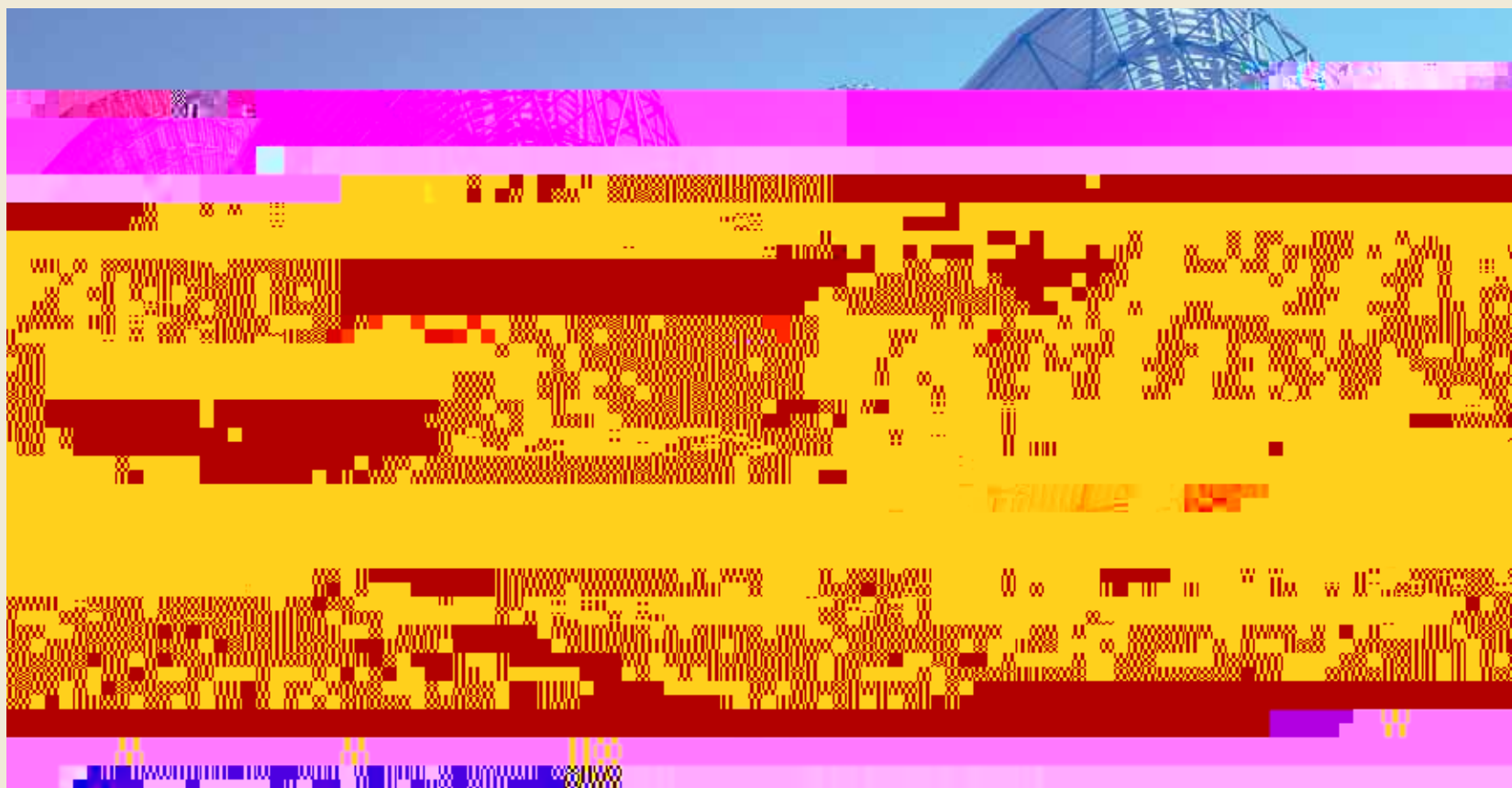
The Olympian will be performed by outstanding young percussionist Ryan

In making the announcement, Mr Harvey Marcus, State Manager South Australia, said Optus was a strong supporter of education in Australia and had enjoyed a long-standing corporate partnership with the University of Adelaide.

“The scholarships are a fantastic opportunity for young people to develop their skills and further their career prospects,” Mr Marcus said.

“We value innovative thinking and people who strive to achieve, so we are proud to support and 1.2 so we

Telstra funds research for next wave of phone, data technology



Australian telecommunications giant Telstra has awarded a \$950,000 contract to the University of Adelaide to develop key tools for next-generation technology.

Under the contract, the university's TRC Mathematical Modelling unit will develop analysis tools and techniques applicable to Telstra's network infrastructure. These will help to cater for future telephone, broadband data and mobile services.

"Telstra's research activities are aimed at ensuring that our telecommunications infrastructure is ready for the next generation of services that will be offered by broadband internet and mobility. The performance must be of the highest quality, robust, and scalable into the future," said Dr Hugh Bradlow, Managing Director of Telstra

Research Laboratories and Telstra's Chief Technology Officer.

"Telstra carries out significant research and development in our research laboratories, but also commissions specialist research such as the mathematical modelling in TRC.

"We are delighted to maintain our relationship with the university's TRC over the next three years to build on our understanding of the key traffic issues applicable to next-generation networking technology," he said.

TRC Mathematical Modelling is a centre within the University of

Adelaide devoted to solving industrial problems, involving modelling, measurement and performance. Its historical focus has been in the area of telecommunications, with recent expansion into solving resource optimisation problems in manufacturing.

This latest contract continues an 18-year partnership between Telstra and TRC, and secures TRC's services to provide technical expertise as it relates to traffic analysis and engineering.

A major focus of the research will be ensuring the required tools and techniques can help to efficiently

plan and monitor the network infrastructure, and allow it to respond to the predicted growth in traffic levels.

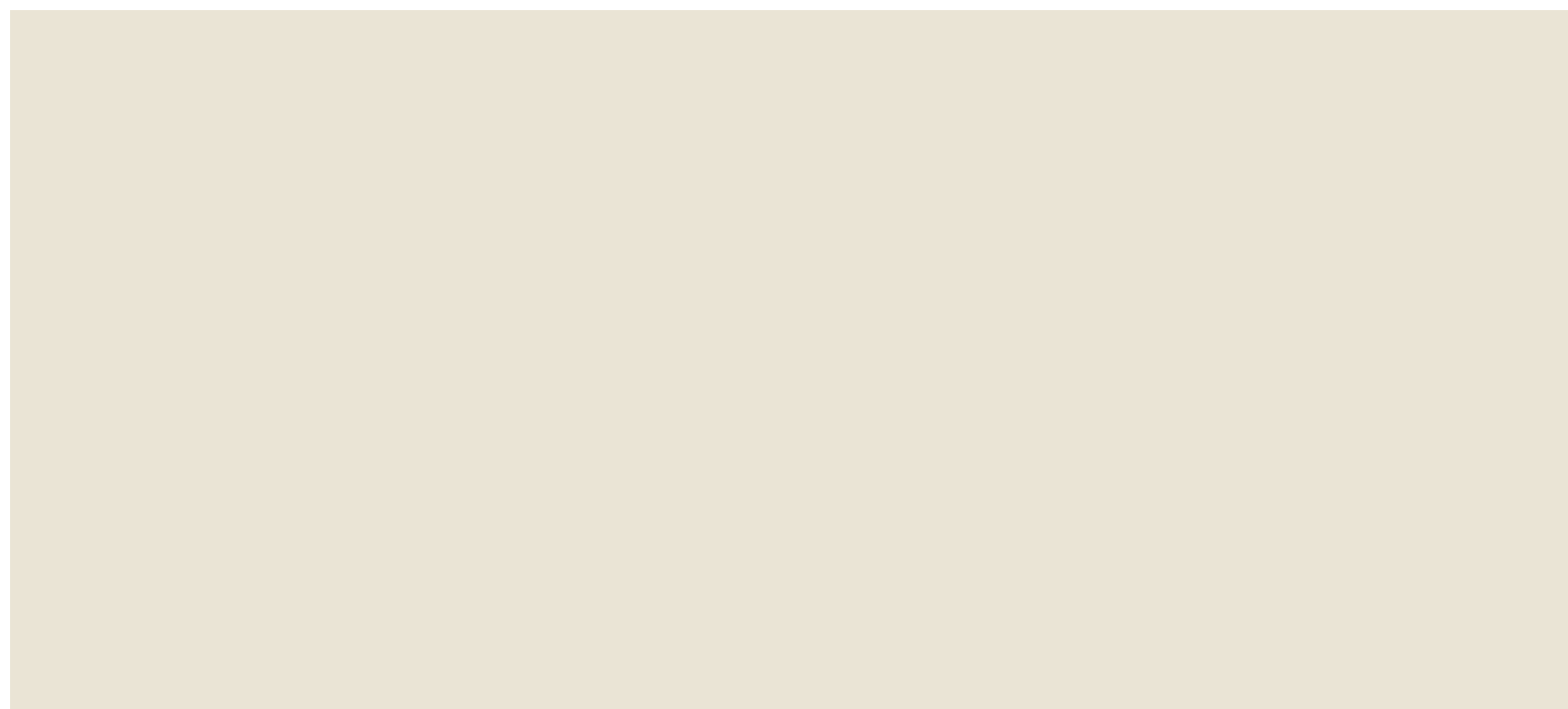
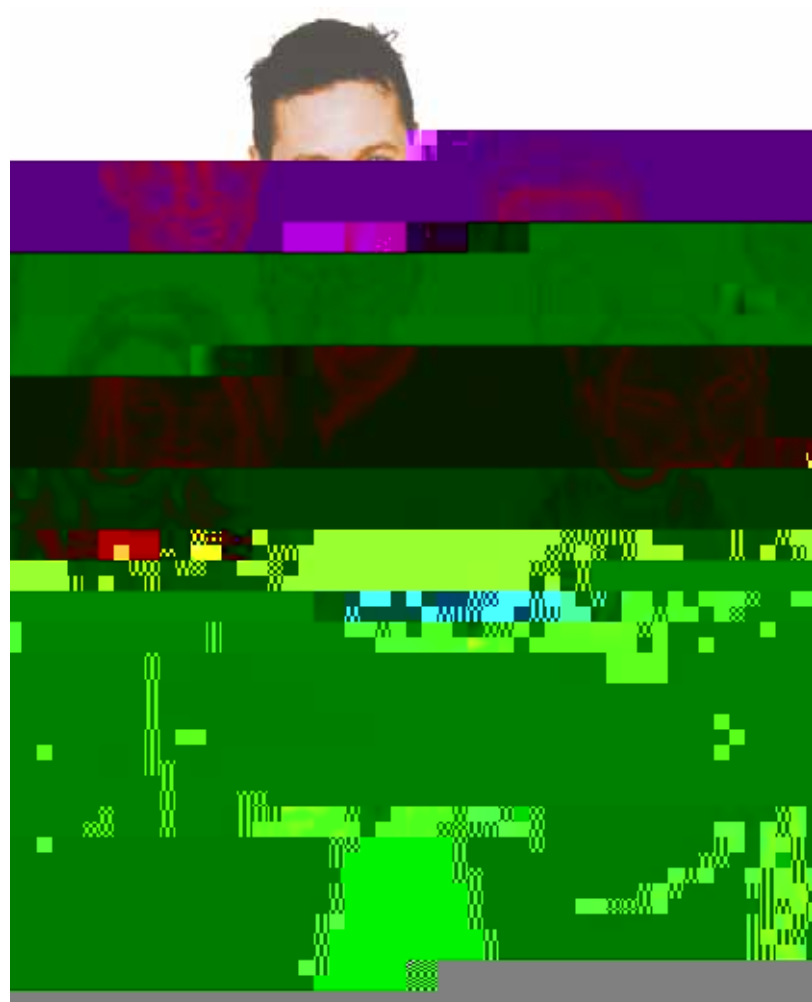
The University of Adelaide's Vice-

A highlight of the group's tour will be their performance in the Elder Hall Lunch Hour Concert Series on Friday, June 11 at 1.10pm.

Described by Australian jazz virtuoso James Morrison as "the best contemporary a cappella group in the country", The Idea of North came to international prominence after they were crowned National Champions at the Harmony Sweepstakes in the United States.

They were the first group from outside the US to win this prestigious competition in its 19-year history, and since then they have maintained a busy touring schedule both nationally and internationally.

Following the success of an ARIA jazz top 10 album and a recent tour of Japan and the US, including an





The University of Adelaide Bachelor of Media student, who will represent Australia in the women's lightweight double sculls, was riding her bike for fi