

Adelaidean

NEWS FROM THE UNIVERSITY OF ADELAIDE

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inside this issue

4 Cherry project tops off study



5 Open Day '04



12 Graduations photo spread



16 Golden memories for graduate couple



3 Students our best ambassadors

6 Border protection – on a laptop

7 Monro takes on new physics job

8 The flame – from Adelaide to Athens

10 Why IT pays to be a cadet

11 \$30 million boost to sheep genetics research

14 Organ trade highlighted in new course

15 Pain prediction a step closer thanks to fresh science

How we kept the flame alive



Adelaide has made its mark on Olympic history – again.

Dr Richard Kelso (left) and Dr Jordan Parham (right) in Drama, Greece, passing the flame during the torch relay **Photo: Organising Committee for the Olympic Games**

The team responsible for developing the all-important Olympic flame for Sydney in 2000 has done it again for Athens, and gone one better.

After the success of the Games in Athens, the team – headed by Adelaide company FCT-Combustion, and involving staff, students and graduates of the University of Adelaide – has spoken to the *Adelaidean* about their involvement in the flames for the 2004 Olympics.

The Adelaide team designed and manufactured the burner systems and controls that produced all of the flames for Athens 2004, including:

- the flame for the torch relay;
- the flame for the main stadium cauldron (“the giant torch”);
- and the rings of fire for the opening ceremony.

The Olympic flame is one of the most highly visible representations of the Games, with the torch relay

spanning five continents, including 26 countries and 34 cities, before arriving in Greece, the original home of both the ancient and modern Olympic Games.

The opening ceremony is one of the most watched events worldwide, with hundreds of millions of people believed to have seen the ceremony on television.

“FCT was honoured and proud to have won the contracts for the engineering design and supply of all associated equipment that produced the flames for the Athens Olympics, against stiff opposition,” said Mr Steven Hill, Senior Combustion Engineer with FCT-Combustion.

“The performance of the FCT/University of Adelaide team providing similar systems and equipment for the Sydney Olympics was compelling evidence of the Adelaide team’s capability. Having won the contracts, FCT had no hesitation in involving

our long-term technical collaborators from the University of Adelaide to provide much-valued expertise during the course of executing these projects.

“The results of the group’s hard work were again clear for the world to see, adding significantly to the fantastic spectacle of the opening ceremony,” Mr Hill said.

More than a dozen staff and students from the university’s School of Mechanical Engineering and FCT-Combustion were involved in producing the flames for Athens. Together, the university engineers and FCT have a long and successful history of collaboration, with years of expertise in turbulence, energy and combustion.

Testing of the various flame systems and fire effects was primarily conducted at Adelaide University

story continued on page 2

Life Impact



www.adelaide.edu.au



McWha's Words

Golden Years

Each year the University of Adelaide holds a number of reunions, enabling our graduates to celebrate their achievements since Graduation Day in Bonython Hall, and reaffirming their lifelong link with the university and its history.

Last month we had the 20-Year Reunion, this month sees the 30-Year Reunion (on September 11), and soon we will see the latest of our Golden Jubilees, the 50-Year Reunion for graduates of 1954. This celebration, to be held on October 1, marks a very special milestone for our alumni and for the university.

A student's time at university is often considered to be among their "golden years", and no doubt those attending the reunions will reflect fondly on their time at university. For those attending the Golden Jubilee, this takes on a new meaning.

It is widely believed that our graduates from 50 years ago studied during a golden age, at a time when names like Mawson, Jordan and Kerr Grant were such a major presence on campus. Of course, they are still a major presence today, through the Mawson laboratories, the Jordan building and the Kerr Grant lecture theatre, to name just a few. Their efforts also had a lasting

legacy, through their research and through the many students whose lives they touched, shaped and changed.

But in many ways, despite or even because of the difficulties and challenges facing universities in today's modern age, these are also golden years for the University of Adelaide. The quality of our students and our research is world class, we continue to make a lasting impact on our students and the community around us, and we continue to see great achievements from our staff, students and graduates.

There have been some extremely public examples of this recently, but none bigger than the Olympic Games in Athens. I'm sure that many alumni who once played sport for their alma mater will be interested to know that students from the University of Adelaide have been playing their part as athletes in both the 2004 Olympics and the Paralympics.

These students represent the quality of all our students here at the university – those who are committed to wider interests, such as sport, as well as academic achievement, making them well-rounded individuals. The university was rightly proud of such students 50 years ago,

and we are still proud of them today (the results can be seen not just from the recent Games but also among our 96 Rhodes Scholars).

In addition to such fine, athletic students, the University of Adelaide has again played a major role in the development of the flames for the Athens Games, just as we did for Sydney in 2000. Working for industry partner FCT-Combustion, based at Thebarton, the university's engineering staff and students were involved in the creation of the flames for the Olympic torch relay, the spectacular rings of fire seen during the opening ceremony, and the main stadium cauldron in Athens. These flames serve as a symbol of the Olympic spirit; for us, they are a vivid example of the excellence that exists in Adelaide. Hundreds of millions of people right around the world have seen the results of our work, and that's a golden result we should all be proud of.

JAMES A. McWHA
Vice-Chancellor

Adelaidean

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Coming Events:

Please send all coming events to the editor at the address below. There is no charge for coming events, but they must be university related.

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How we kept the flame alive

continued from page 1

Research Park – Thebarton Campus, which is also the base of FCT-Combustion. Regular trips to Athens were also required to consult with Olympic organisers.

"As with the Sydney Games, the team was able to provide flames that were environmentally friendly, highly stable during windy conditions, and extremely visible to the public," said aerodynamics expert Dr Richard Kelso (School of Mechanical Engineering).

The rings of fire were something additional for these Games and they posed a unique challenge, as they required setting fire to several rings – in sequence – on water.

"The whole team enjoyed rising to that challenge, and the final result made a lasting impression on almost everyone who saw it," Mr Hill said.

Dr Kelso and FCT-Combustion staff member Dr Jordan Parham were among the team members who travelled across the world, providing assistance and technical

advice during the torch relay as it made its way across the globe and onto Greece.

Dr Parham, a PhD graduate of the University of Adelaide and now Combustion Engineer with FCT, was one of the students who worked on the fuel and combustion system for the Sydney 2000 Olympic torch.

"These projects have become an important part of our students' learning over the years, and Jordan is one of those who has now worked on the Olympic flame both as a student and as a project leader," Dr Kelso said.

For a look behind the scenes at the testing of the various Olympic flames, turn to page 8.

Story by David Ellis



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Students our best ambassadors

Eighteen students from the University of Adelaide have been appointed Student Ambassadors.

This is the first time in 130 years that the University of Adelaide has appointed Student Ambassadors, whose aim is to build stronger relations with South Australian schools and to assist in major events, such as Open Day.

The Student Ambassadors scheme was developed in response to the needs of potential students, who often have important questions about the variety of study options, support services, and how to adjust to university life.

"The Student Ambassadors are based on the simple notion that our students are the best ambassadors for our university, because they understand better than anyone what it's like to be a student here," said the university's Director of Student Information and Services, Mrs Elizabeth Geddes.

"Each of our Ambassadors has been chosen because they are not only bright and talented, but they also have the ability and desire to communicate with potential students. They want to help new students to make the transition to university that much easier for them."

The official duties of the Ambassadors include providing advice to new and potential students

at the university's Student Centre, attending education and careers fairs, visiting schools, and providing assistance to members of the community – including potential students, their friends and families – such as at the university's Open Day (see page 5).

"Open Day was the first official duty for all of our new Student Ambassadors, and they brought a level of professionalism and friendliness to the day," Mrs Geddes said.

Mark Powell is in the fifth and final year of his double degree in Mechatronic Engineering and Maths & Computer Science. Earlier this year he was one of the "enrolment buddies" who helped new students ease into their first official days as students at the University of Adelaide.

Being a Student Ambassador was an important role in many ways, Mark said.

"It's a good opportunity to help new students who have no idea of what university is," he said.

"As current students, we have a perspective on the day-to-day life of the uni, and we can use that to help inform other students. It definitely would have helped me to adjust when I started uni."



From left: Stacey Robinson, Mark Powell and Alice Kelly Photo by Ben Osborne

Among her duties as Student Ambassador, Honours English student Alice Kelly has hosted tours of Japanese students around campus.

"With the tours I've been explaining a bit about the history of the uni, the quality of our academic programs and the student life," Alice said. "It's good to point out that it's not just all academic – the uni is well rounded, and there's plenty of fun to be had."

As a relatively new student herself, in her first year of a Bachelor of Science (Molecular & Drug Design), Stacey Robinson can see the value of being a Student Ambassador.

"As a student, you're faced with a lot of information about studying and all the different opportunities on campus.

"But it never feels as relevant as when students who've experienced those things are the ones telling you the information," she said.

"I know from my own experience that the enrolment buddies were a great help, and hopefully as a Student Ambassador I can help to make a difference for other new students."

Story by David Ellis

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Cherry project tops off study

Fresh cherries don't come cheaply, so anything that extends their shelf life has to be of value both to the industry and the consumer.

Two men in Adelaide are working to develop new methods of refrigeration that aim to have important benefits for Australia's cherry industry, as well as exciting spin-offs in the preservation of other fresh fruit and vegetables both in Australia and overseas.

Dr Andrew Granger, Senior Research Scientist with the South Australian Research & Development Institute (SARDI), and Mr Jason Koenders, Manager of Alltech Refrigeration Services (Australia) Pty Ltd, have joined forces to tackle an issue that is extremely relevant to Australia's food industry and the general community.

These two managers from different organisations met as participants in the University of Adelaide's Professional Management Program

(PMP), and from their involvement in the PMP have now formed a strategic alliance.

"Fresh fruit and vegetables are more in demand in today's market," Mr Koenders said. "We have a much larger variety of fruit and vegetables to choose from than just a few years ago. It is possible to achieve a longer shelf life for this fresh food through cooling, but most farmers have not changed their cooling and preservation processes."

Dr Granger said studies had shown that the critical time for the preservation of cherries was within the first few minutes of picking.

"For every hour that you delay getting cherries to zero degrees, you lose one day in shelf life," he said.



Cherries bred by Dr Andrew Granger at SARDI

With a process known as vacuum cooling, Mr Koenders said it was possible to maintain the freshness of some fruit and vegetables by up to three weeks longer than those preserved through standard methods. Alltech now has an agreement with a patent holder on an Australian-built vacuum cooler.

"We're looking to take on the Australian and international markets in this area," Mr Koenders said.

The Professional Management Program, run by the Adelaide Graduate School of Business, is a program for ambitious senior and middle managers looking to strengthen their skills in leadership, analysis, decision making and strategic thinking.

Able to be completed within 12 months, the PMP provides a bridge to further study, such as the Adelaide MBA program, with status for two courses.

Participants are encouraged in team building, networking, and applying their skills in real-world situations, particularly for the benefit of their businesses or ventures.

Dr Granger and Mr Koenders said they had already seen benefits from taking part in the PMP.

"There's a natural fit between SARDI and Alltech, two Adelaide-based organisations that share a customer base in horticulture," Dr Granger said. "This is an excellent example of government and private industry working together - with education from the University of Adelaide helping to give us the skills we need to see the project through."

For more information about the Professional Management Program, contact Program Manager Rosemary Tanner on (08) 8303 4579 or email: rosemary.tanner@adelaide.edu.au

www.agsb.adelaide.edu.au/execed

Story by David Ellis



Dr Andrew Granger (left) and Mr Jason Koenders Photo by Orange Lane Studios

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Open Day '04

Up to 10,000 members of the general community attended the University of Adelaide's Open Day on Sunday, August 15.

The weather was perfect for the day, which saw a steady stream of people moving through the North Terrace Campus to learn more about what the university has to offer – and to taste the food, see the sights, and hear the sounds of a busy, bustling campus.

Roseworthy Information Day on Friday, August 13 was also well attended, with potential students learning about the wide range of opportunities in Agricultural Science and their applications to industry.

This page contains just some of the sights that greeted visitors to Open Day.

Photos by David Ellis and Ben Osborne



WITH A BANG: Elder School of Music percussion group ATSUI Taiko kept crowds entertained with their pounding routines



THE EYES HAVE IT: Melanie Fishers undergoes a pupillometry examination with help from Psychology PhD student Ben Stone



HAPPY ANNIVERSARY: Vice-Chancellor Professor James McWha cuts the cake celebrating 130 years of the University of Adelaide



UP CLOSE AND PERSONAL: Using a microscope to see the latest developments in grain research



Border protection – on a laptop

It's a high-tech eye in the sky – and it's having a major impact on the sea.

Boat detection software developed at the University of Adelaide is being trialled by the Federal Government to help protect Australia's maritime borders.

Called Scylla, the software analyses huge amounts of data fed from unmanned planes – known as an Unmanned Aerial Vehicle, or UAV – and can automatically detect vessels at sea, saving human operators hours of painstaking scrutiny.

One of the key developers of Scylla, Dr Anton van den Hengel from the university's School of Computer Science, said a recent trial of both the software and the unmanned planes in Western Australia had been encouraging.

"For the trial, we went to Monkey Bay (near Carnarvon) in Western Australia because of the marine parks there," he said. "We wanted to be able to test our equipment on the commercial fishing vessels which operate around that area, because while they are not allowed to fish within the parks they are allowed to move within them.

"Scylla works by being able to automatically detect vessels at sea and then observe their behaviour. When this is combined with the unmanned aircraft also being trialled, it means a lot less work for human operators.

"We attached a camera to the UAV, and then ran Scylla on the video stream which came back to my laptop.

"When Scylla detects a boat, it saves the relevant segment of the video so it can be later analysed by a human operator on computer.

"By doing this, it massively reduces the amount of video the operator needs to view to analyse the behaviour of all visible vessels over a day – instead of 10 hours of raw footage, Scylla reduces it to a few minutes of concentrated footage."

Scylla has been developed by the university through its involvement with the Cooperative Research Centre for Sensor Signal and Information Processing.

Story by Ben Osborne



The Unmanned Aerial Vehicle (above) is launched from the roof of a moving car (below)

Our Tall Poppies of Science

The University of Adelaide more than rose to the occasion at the recent Young Tall Poppy Science Awards.



The awards recognise individuals who have made an outstanding contribution to science in South Australia through their academic achievements and their community engagement in promoting science.

Six of the nine recipients either studied at or are currently associated with the University of Adelaide.

"This is a fabulous achievement and endorses the outstanding work undertaken by our young scientific and biomedical researchers," said Vice-Chancellor James McWha.

- Associate Professor Derek Abbott, School of Electrical and Electronic Engineering; Director of the Centre for Biomedical Engineering, University of Adelaide.

Dr Abbott is a leading researcher in the area of photonics and vision systems.

- Dr Toby Coates, Renal Transplant Nephrologist, The Queen Elizabeth Hospital.

A graduate of the University, Dr Coates is a kidney transplant specialist at the QEHL.

- Dr Adam Fletcher, Senior Research Fellow, Centre for Sleep Research, University of South Australia.

Dr Fletcher obtained a Bachelor of Science degree (with Honours) from the University of Adelaide.

- Dr Michelle Lane, Senior Lecturer, Obstetrics and Gynaecology, University of Adelaide; Research Centre for Reproductive Health, QEHL.

Dr Lane is Director of the IVF Laboratory at Repromed and is establishing a research team in the area of gamete and embryo development and pregnancy.

- Dr Taher Omari, Affiliate Senior Lecturer, University of Adelaide; Senior Research Fellow, Centre for Paediatric & Adolescent Gastroenterology, Women's and Children's Hospital.

Dr Omari is a world leader in his field. He receives regular invitations to speak at national and international conferences and collaborates with other researchers throughout the world.

- Dr Darryl Russell, Georgina Dowling Medical Research Associates; Honours Coordinator – Department of Obstetrics and Gynaecology, University of Adelaide.

Dr Russell's research focuses on the genes and mechanisms through which cells communicate and physically interact as they organise into tissue and organ structures.

Story by Howard Salkow



Monro takes on new physics job

"I foresee that Professor Tanya Monro's enthusiasm and dynamism will lead to a reinvigoration of the Physics discipline. And by her example and leadership, we will see many more students undertaking Physics undergraduate and postgraduate programs at this University."

Above: Dr Tanya Monro, currently based at the University of Southampton, will join Adelaide early next year

Professor John Carver, Head of School of Chemistry and Physics, was among many who could not hide his excitement when it was announced recently that 31-year-old Dr Tanya Monro would return to Australia from the UK early next year to take up an appointment as DSTO professor in Photonics at the University of Adelaide.

"The appointment is an exciting development for Physics at this university. Photonics is a rapidly changing, advancing and expanding area and we have attracted one of the world's best young researchers in the area here," Professor Carver said.

Dr Monro's appointment is a significant step forward in the development of a collaborative

Centre of Expertise in Photonics involving the Defence Science and Technology Organisation (DSTO) and the University of Adelaide.

"Dr Monro will provide considerable expertise in the use of microstructure optical fibres for a broad range of applications in areas such as telecommunications and high-power delivery, and in defence-related areas such as smart materials and counter measures.

"Her research will complement the existing Photonics research strength within the discipline of Physics headed by Professor Jesper Munch," Professor Carver said.

With her international research profile, Professor Carver said

she would attract a wide range of top-quality Photonics researchers to Adelaide.

"Her presence will significantly strengthen our links with DSTO, which is providing the bulk of the finances to support her first five years here," he said.

Originally from Sydney, Dr Monro is currently a Reader at the University of Southampton's Optoelectronics Research Centre (ORC), which is recognised as a world-leading Photonics research centre.

She currently runs two research groups at the ORC, the Novel Fibres and Waveguides group and the Soft Glass group.

Dr Monro has significant experience in defence-related

technologies through contract work with the UK's Defence Science and Technology Laboratory and the Defense Advanced Research Projects Agency in the US.

She has won a number of awards including the Bragg Gold Medal for the best physics PhD thesis in Australia in 1998, and now has more than 150 publications. She holds seven patents and currently holds a Royal Society University Research Fellowship.

DSTO funds the Chair in Photonics at the University of Adelaide under a research agreement aimed at improving the national research base in Photonics.

Story by Howard Salkow

The flame – from



BURNING BRIGHT: the FCT-Combustion/University team tests the main stadium cauldron burner at Thebarton



WIND EFFECTIVE: Dr Richard Kelso, testing a torch with a wind tunnel in the Mechanical Engineering lab at Thebarton



FLAME ON: outdoor testing of one segment of the rings of fire, which looked spectacular in the opening ceremony

Adelaide to Athens



GREAT ZEUS: one of the Boeing 747s used for the international torch relay lands in Crete



CROWDED RECEPTION: the final torchbearer of the day makes her way through the narrow streets of Mykonos

Photos courtesy of FCT-Combustion and the University of Adelaide School of Mechanical Engineering. Official torch relay pics from the Organising Committee of the Olympic Games – ATHENS 2004.



DAY'S END: community cauldrons were lit to keep the Olympic flame burning throughout the night



PROUD MOMENT: Dr Jordan Parham from FCT-Combustion sees the results of the team's hard work come to life

Amber rows in Athens

University of Adelaide student and Australian rower Amber Halliday has finished fourth in her Olympics quest.

Competing in the lightweight double sculls with partner Sally Newmarch, Amber won both her heat (in world best time) and semi-final before finishing behind Romania, Germany and the Netherlands in the final on August 22.

"Amber made a phenomenal effort to even reach the final," said the

Executive Officer of the University of Adelaide Sports Association, Ms Gloria Chester.

"I'm delighted for Amber, because I know how hard she worked to get there," Ms Chester said.

"About three months before the Games, Amber got knocked off her bike by a car while training and that took a real toll on her, both physically and mentally.

"The fact that she made the final after such a serious accident shows what sort of person she is."

Amber, who received a Bachelor of Social Sciences (Psychology) in 2000 and is currently partway through her Media degree, was also congratulated on her achievement by Vice-Chancellor Professor James McWha.

"Amber is a world-class sportswoman and we applaud her effort in finishing fourth in the final," Professor McWha said.

"Amber is a fine example of the kind of student the University of Adelaide attracts – someone who is committed to excellence in their chosen field, and combines study with a range of interests, such as sport."



Why IT pays to be a cadet

An innovative scheme offers students the chance to improve their skills while studying – and get paid for it!

The program, offered to students of all disciplines at the University of Adelaide, is believed to be the first of its kind in Australia.

The Student Cadetship Program run by the university's Information Technology Services (ITS) gives students the opportunity to enhance their studies and help contribute to the university's IT maintenance and support.

Not only does this give students hands-on IT and project management skills, it also helps to provide benefits to the university community.

Cadets start employment with the Online Education Helpdesk for a contracted 12 months (12 hours per week); if their contract is renewed, they have the opportunity to transfer into other areas in ITS, helping to broaden their skills ever further.

One student who completed the cadetship, Alfredo Cuadros, has found major opportunities opening up for him in his home country of Bolivia.

"The small amount of time I've worked in ITS... has motivated me so much that I went fully into security," said Alfredo, who is a graduate of the University of Adelaide with both a Master of Information Technology and a Master of Business Administration.

On his return to Bolivia he started work, "first as a Security Analyst and now as the Security Officer of the biggest bank in my country".

Another student, Antonio Giordano (pictured), who is in his final year of a double degree in Bachelor of Science and Bachelor of Engineering, became involved in the cadetship partway into his studies.



"I thought it would provide a good chance for me as a student to work in a professional environment within the University of Adelaide," Antonio said.

"From January this year I have been working in the area of IT Policy & Security, which involves writing IT policies that apply to staff and students of the uni."

He said he has gained many skills and would recommend the program to other students.

"Hours are flexible depending upon your [study] workload and timetable at uni," he said. "The people you work with are great, and especially for my study field, it presents me with some professional skills that you pick up from working in a professional workplace."

GOETHE SOCIETY

Thursday September 9

Time: 19.30

~ presenter ~

Dr. George Couvalis

Senior Lecturer
Department of Philosophy
Flinders University

'The work of David Hume'

Hume is one of the most important
English Philosophers

Thursday October 7

Time: 19.30

~ presenter ~

Dr. Philip Edmonds

Lecturer, Department of English
University of Adelaide

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~ location ~

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\$30 million boost to sheep genetics research, wool quality

Researchers at the University of Adelaide's Roseworthy Campus will play a pivotal role in a \$30 million national effort to improve the quality of sheep wool and meat for export.

The new \$30 million Sheep Genomics Program is a joint initiative between Meat and Livestock Australia and Australian Wool Innovation.

The program is designed to increase productivity in the sheep industry and improve meat and wool quality through identifying sheep genes and their functions.

The Livestock Systems Alliance (LSA) – a partnership of the University of Adelaide and SARDI, based at Roseworthy – is the main contributor to the wool component of this program. The Sheep Genomics Program will provide the LSA with at least \$2.8 million over the next three years to support wool research.

The wool program is headed by the Director of Roseworthy Campus, Professor Phil Hynd, who has an international reputation for his work in genetic biotechnologies. His research includes improvements to hair follicles in sheep to provide better quality wool to industry and consumers.

"The Sheep Genomics Program is a major research undertaking which is aimed at keeping Australia's sheep industry at the forefront of international success," Professor Hynd said.

"The reputation for wool research at Roseworthy has earned it the distinction of being the national leader into improvements in wool for this program.

"This is yet another example of how the cutting-edge scientific expertise at Roseworthy is being utilised to develop practical outcomes that benefit Australia and the rest of the world. It is also an excellent example of how research organisations can work closely with industry and government," he said.

Professor Hynd said the teaching of Agricultural Science programs at Roseworthy Campus is informed by internationally renowned science, which puts the University of Adelaide at the fore-front of teaching as well as research.

Story by David Ellis



Coming Events

Thursday, September 2

12.15pm Psychology seminar: "Treatment of sleep disorders: A psychological perspective" by Dr Sarah Blunden (Queen Elizabeth Hospital), Departmental Library, Room 526, Hughes Building, North Terrace Campus.

1.10pm Inaugural Lecture by New Professors: "I would rather be vaguely right than precisely wrong: a new approach to assessing the impacts of uncertainty in the oil and gas industry" by Professor Stephen Begg (Australian School of Petroleum), Council Room, Wills Building 7th floor, North Terrace Campus.

1.10pm Student Workshop: "Yoga For Student Life". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

Friday, September 3

1.10pm Elder Hall Lunch Hour Concert Series: Rosalind Martin (Soprano), Elizabeth Campbell (Mezzo Soprano) Diana Weekes (Piano). Duets and Songs by Mendelssohn, Brahms, Schumann

and Rossini. Elder Hall, North Terrace Campus. Tickets \$5 available at door from 12.30pm.

4pm Obstetrics and Gynaecology seminar: "Fetal maternal cell trafficking" by Dr Peter Muller, Clinical Lecturer, Department of Obstetrics and Gynaecology Seminar Room, N229, 2nd floor, Medical School North, Frome Road.

Monday, September 6

1.10pm History seminar: "It might sound something like the embellishment of romance: The Writings of Mounted Constable William Willshire" by Dr Robert Foster, Convenor, History Discipline, Room 205, 2nd floor, Napier Building.

1.10pm Student Workshop: "Meditation". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

Thursday, September 9

12.15pm Psychology seminar: "A memory based theory of verbal cognition" by Dr Simon Dennis (University of Adelaide).

Departmental Library, Room 526, Hughes Building, North Terrace Campus.

1.10pm Inaugural Lecture by New Professors: "Human rights after Abu Graib. Are you a torturer?" by Professor Paul Fairall (Law), Council Room, Wills Building 7th floor, North Terrace Campus.

1.10pm Student Workshop: "Yoga For Student Life". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

Friday, September 10

1.10pm Elder Hall Lunch Hour Concert Series: Pei-Jee Ng, Associated Board Scholar at the Royal Northern College of Music (Cello), Pei-Sian Ng, Elder Overseas Scholar (Cello), Isabelle Trüb (Piano), playing *Sonata Op. 6* by Barber and *Sonata Op. 40* by Shostakovich. Elder Hall, North Terrace Campus. Tickets \$5 available at door from 12.30pm.

Saturday, September 11

8pm Evening Concert: The Adelaide Art Orchestra Inc. Artistic Director/Conductor

– Timothy Sexton presents "Orchestral Fantasies". Featuring Vaughan Williams' magnificent *Thomas Tallis Fantasia* for double string orchestra, Ravel's glorious *Mother Goose Suite*, Holst's *Somerset Rhapsody* and Copland's *Appalachian Spring*. Elder Hall, North Terrace Campus. Tickets \$23 adults/\$15 concession/\$10 children 12 and under. For enquiries phone: 8568 5399 or email: tapsexton@bigpond.com

Monday, September 13

12.30pm Colgate Australian Clinical Dental Research Centre seminar: "Microdamage and Bone Remodelling" by Associate Professor Nick Fazzalari (IMVS), Board Room, Colgate Australian Clinical Dental Research Centre, 2nd Floor, Adelaide Dental Hospital.

1.10pm Student Workshop: "Meditation". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

continued on page 12



More than 850 students braved inclement weather to attend graduation ceremonies last month.

Four ceremonies were held in Bonython Hall across two days, with more than 1200 students graduating in total.

Speakers at the ceremonies included Adelaide Thinker-in-Residence Maire Smith, well-known businessman Ross Adler and media personality Keith Conlon.

The last series of graduations for 2004 will be held in December. For more information, visit: www.adelaide.edu.au/student/graduations



A MEDIA STORY: Channel Nine and Radio 5AA personality – and University of Adelaide graduate – Keith Conlon (left) gave the graduation address for the Humanities and Social Sciences ceremony. He is pictured with Professor John Taplin, Pro Vice-Chancellor (International).



A COLOURFUL DUO: Silke Trzcionka (right) didn't let the weather stop her from celebrating her Classics PhD with supervisor Wendy Mayer



HAPPY GRADUATE: Carol Ormond received her PhD in Environmental Biology



Coming Events

Wednesday, September 15

1.10pm Student Workshop: "Stress Management". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

5pm Lloyd Cox Memorial Lecture: Presented by the Research Centre for Reproductive Health and Repromed – The University of Adelaide Department of Obstetrics and Gynaecology. "The Oocyte and its role in regulating ovulation rate in mammals" with guest speaker Professor Ken McNatty. Main Lecture Theatre, Women's and Children's Hospital, 1st floor, Queen Victoria Building, 72 King William Road. For more information contact Lesley Jenkins: 8222 6788 or lesley.jenkins@adelaide.edu.au

5.30pm Law School Information Evening:

From 2005, the Law School offers exciting postgraduate programs for law and non-law graduates: Master of Laws, Master of Business Law, Master of Laws/ Master of Commerce, Master of Business Law/ Master of Commerce. Lecture Theatre 1, 2nd floor, Ligertwood Building, North Terrace Campus. Further Information and Enquiries phone: 8303 5897 and for program details visit www.law.adelaide.edu.au/degrees/

Thursday, September 16

12.15pm Psychology seminar: "Dying views on end of life decision making" by Professor Ian Olver (University of Adelaide). Departmental Library, Room 526, Hughes Building, North Terrace Campus.

1.10pm Inaugural Lecture by New Professors:

"Biological information - the essence of life" by Professor Richard Ivell (Molecular and Biomedical Science). Council Room, Wills Building 7th floor, North Terrace Campus.

1.10pm Student Workshop: "Yoga For Student Life". Counselling Centre, ground floor, Horace Lamb Building, North Terrace Campus.

Friday, September 17

1.10pm Elder Hall Lunch Hour Concert Series: Adelaide Symphony Brass Quintet - Courtesy of the Adelaide Symphony Orchestra. Elder Conservatorium Brass Ensemble "The Splendour of Venice Grand antiphonal brass works of the 16th century" including works by Gabrieli,

Monteverdi, Susato and Praetorius. Elder Hall, North Terrace Campus. Tickets \$5 available at door from 12.30pm.

8pm Opera Highlights: featuring the Elder School of Music Vocal School, Stage Director Felecia Hick and Musical Director Anthony Hunt. Excerpts from Mozart's 'The Magic Flute' and 'Cosi fan Tutte' and Smetana's 'The Bartered Bride'. The second half of the program features Puccini's 'Suor Angelica'. Tickets are \$12adult/\$8conc/ student at the door – University of Adelaide staff at concession price. For further information from The Manager, Evening Concert Series phone: 8303 5286.

Saturday, September 18

8pm Opera Highlights: featuring the Elder School of Music Vocal School, Stage



OFFICIAL DUTIES: Renowned businessman Ross Adler (centre) gave the graduation address at the Professions and Health Science ceremony. He is pictured with Vice-Chancellor Professor James McWha (left), and new Chancellor John von Doussa, who was attending his first graduation ceremonies since beginning in his position.

SMILES ALL ROUND: Helping Winnie Woon enjoy her Bachelor of Commerce (Corporate Finance) degree were (from left) Abbie Yin Sin Chu, Woon Feng Chong, Lee Chye Guan and Roslyn Foo Wan Shuin



INTERNATIONAL SUCCESS: Dr Sornchai Mungthaisong, pictured here with his supervisor Dr Peter Mickan, received his PhD in Linguistics. Dr Mungthaisong is Assistant President of International Relations at Chiang Rai Rajabhat University in northern Thailand, and for his PhD examined the teaching of the English language in Thailand.

Director Felecia Hick and Musical Director Anthony Hunt. Excerpts from Mozart's 'The Magic Flute' and 'Cosi fan Tutte' and Smetana's 'The Bartered Bride'. The second half of the program features Puccini's 'Suor Angelica'. Tickets are \$12adult/\$8conc/student at the door - University of Adelaide staff at concession price. For further information from The Manager, Evening Concert Series phone: 8303 5286.

Thursday, September 23

1.10pm Inaugural Lecture by New Professors: "Mathematics and the telecommunications industry: what do ants have to do with it?" by Professor Nigel Bean (Applied Mathematics). Council Room, Wills Building 7th floor, North Terrace Campus.

Friday, September 24

1.10pm Elder Hall Lunch Hour Conert Series: Emerging Artists from the Australian National Academy of Music. Rachel Homburg (Violin), James Wannan (Viola), Martin Penicka (Cello) Benjamin Kopp (Piano). *Serenade for String Trio Op.10* by Dohnányi and *Piano Quartet K478* by Mozart. Elder Hall, North Terrace Campus. Tickets \$5 available at door from 12.30pm.

4pm Obstetrics and Gynaecology seminar: "The vocabulary of the egg - the oocyte as a regulator of granulosa cell function and fertility" by Dr Rob Gilchrist. Department of Obstetrics and Gynaecology Seminar Room, N229, 2nd floor, Medical School North, Frome Road.

Monday, September 27

12.30pm Colgate Australian Clinical Dental Research Centre seminar: "Special Needs Dentistry" by Dr Mark Gryst (Adelaide Dental Hospital). Board Room, Colgate Australian Clinical Dental Research Centre, 2nd Floor, Adelaide Dental Hospital.

Tuesday, September 28

1pm Anthropology and Public Health National Short Course Keynote Address: "Re-situating ethnography and epidemiology: critical reflections on anthropology and public health in Australia" by Professor Sandy Gifford (La Trobe University). Lecture Theatre 102, Napier Building. Entry by gold coin donation.

Wednesday, September 29

12.30pm Clinical Nursing seminar: "Cancer Prevention in the 21st Century and important role nurses can play in achieving this in a community setting" by Associate Professor Brenda Wilson. 3rd floor, Room 36, Eleanor Harrald Building.

Thursday, September 30

1.10pm Inaugural Lecture by New Professors: "Looking at lines and dots: how do we process visual information?" by Professor Douglas Vickers (Psychology). Council Room, Wills Building 7th floor, North Terrace Campus.

www.adelaide.edu.au/news/

Organ trade highlighted in new course

It can scarcely be defined as organ "donation".

The international trade in organ parts is a growing concern for health professionals, ethicists and anthropologists alike.

It is an illegal trade fraught with risk: people in developing countries endangering their own lives for very little financial return by selling their organs to local dealers. These dealers then organise for the body parts to be surgically delivered to well-off Westerners who barely know exactly what they are getting for their money.

This topic, along with many others, will be discussed at an innovative course held at the University of Adelaide later this month.

Hosted jointly by the universities of Adelaide and Flinders, the Anthropology and Public Health National Short Course is the first of its type to be held in Australia and will examine how the fields of public health and culture are related.

One of the organisers, Dr Megan Warin from the University of Adelaide's Department of Public Health said international organ trade

is a perfect example of how closely the two fields are aligned.

"This trade is not just about organ donation or medical work, but is also grounded in cultural issues of global inequity and poverty," she said.

"Affluent Westerners pay huge sums of money to get kidneys from impoverished communities in developing countries. The 'donors' receive little money for their organs, are no better off financially and in their everyday lives, and are often left with the disabling effects of major surgery, or ongoing complications.

"Many 'donor' recipients find they are no better off either, as they receive organs that are infected with Hepatitis C or similar diseases.

"It is certainly not the altruistic 'gift' that many of us like to think organ donation is – it is more like exploitation. It's the issues underlying this trade that illustrate the ways in which the changing shape of culture and health is intimately entwined."

A host of other topics will also be discussed during the course, including the health and wellbeing of refugees in Australia, health research with indigenous communities, culturally appropriate sexual health programs in Brazil, and the Catholic Church's stance on contraception.

"The Catholic Church situation is an interesting one, particularly for developing countries," Dr Warin said.

"From a health point of view, we know that condoms in particular are a highly effective and relatively cheap and accessible way of controlling sexually-transmitted diseases, which for many countries around the world are an enormous problem.

"And yet from an anthropological or cultural viewpoint, we have the Catholic Church, which can exert enormous influence on the way people live their lives, telling local health workers in countries such as Kenya that condoms do not stop HIV transmission as they have holes in them.

"The flow-through effects of this health education into communities is disastrous. The church's objection to the use of birth control measures is blocking access to condoms and sex education, and as a result, helping the disease to spread. This is a clear example of religious beliefs and public health impacting on one another.

"There are no easy solutions to how we can reconcile

The keynote address of the Anthropology and Public Health National Short Course will be given by Professor Sandy Gifford, Professor of Public Health and Director of the Refugee Health Research Centre at La Trobe University. Entitled *Re-situating ethnography and epidemiology: critical reflections on anthropology and public health in Australia* and drawing on her work with refugees, it will be given on Tuesday, September 28 at 1pm in Napier Lecture Theatre 102. Entry is by gold coin donation.

these two points of view, but the short course is designed to at least recognise that they are very much intertwined and need to be considered together."

The Anthropology and Public Health National Short Course will be held from September 27 to October 1, and is open to postgraduate students and health professionals in related fields. It is supported by the Department of Health.

Story by Ben Osborne



04 Alumni Events

Commerce Chapter: Marketing Week

Tim Pethick, Founder and Chief Executive of Nudie, will be presenting on Brand Creation and Management at a session hosted by the Commerce Alumni during the Australian Marketing Institute's (AMI) Marketing Week 2004.

Date: Thursday, September 2

Time: 5.30-7.30pm

Venue: Holiday Inn on Hindley

Cost: Member price \$61

RSVP: Marilyn Penhall from the AMI on 8235 2500 or sa@ami.org.au, or email the Commerce Alumni at: commerce.alumni@adelaide.edu.au

John Bray Law Chapter

Tim Costello, CEO of World Vision, will provide the address at the annual John Bray Oration on Wednesday, September 29. Bookings are essential, and further details are available at: www.adelaide.edu.au/alumni/

Melbourne Network

The next Melbourne Network event is a family day BBQ lunch.

Date: Sunday, October 10

Venue: Valley Reserve in Mt. Waverley

For more information, email the committee at: melbourne_alumni@adelaide.edu.au

30-Year Reunion for Graduates of 1974

Join your fellow Alumni and celebrate 30 years as a graduate of one of Australia's finest Universities.

Date: Saturday, September 11

Time: 7.00pm pre-dinner drinks

Venue: The Eclipse, Level 4 Union House, University of Adelaide

Cost: Tickets \$45. Includes pre-dinner drinks and hors d'oeuvres, main meal, dessert, coffee/tea/chocolates and entertainment (drinks available for purchase throughout the evening).

RSVP: Ms Kim McBride, Alumni, Community Relations and Development Office, phone +61 8 8303 5800, fax +61 8 8303 5808 or email: kim.mcbride@adelaide.edu.au

50-Year Reunion - Golden Jubilee 1954

We invite graduates from 1954 to attend the ceremony, followed by a luncheon on Friday, October 1.

Commemoration Ceremony:

Time: 10.30am – 11.30am

Venue: Bonython Hall, North Terrace Campus

Note: guests can be seated in Bonython Hall as early as 9.30am, but no later than 10.15am.

Reunion Luncheon:

Time: from 12 noon onwards.

For more information, contact Joan Soon, Alumni, Community Relations and Development Office, phone on +61 8 8303 3317, fax +61 8 8303 5808 or email: joan.soon@adelaide.edu.au

Pain prediction a step closer thanks to fresh science

A breakthrough by a young Adelaide researcher may lead to a new era of pain control.

University of Adelaide student Mark Hutchinson has discovered a strong link between the immune system and how we feel pain.

His results, now published in the international journal *Pain*, could revolutionise the prevention and control of pain.

Pain and its associated suffering is a global health problem, costing society in excess of A\$12 billion a year in Australia and US\$100 billion in the United States.

"We still don't fully understand pain," said Mr Hutchinson (pictured), who is studying for his PhD in the university's Department of Clinical & Experimental Pharmacology.

"The brain and nerves were traditionally thought to control pain signalling. While neurons are vital to pain, our experience with pain medications led us to investigate what role the immune system might play in pain.

"85% of the cells in the brain are immune-like cells and I had an idea these cells might be involved in pain control."

Mr Hutchinson was the only South Australian participant in this year's Fresh Science event, which provides a national forum for young scientists to explain their work and interact with the media and the public.

His research led to the discovery of a simple blood test that uses morphine

to produce a response in the collected immune cells, which can be used to predict pain tolerance.

"A simple blood test is much easier than asking for a brain tissue sample," he said.

"While the science behind the blood test remains a mystery to us, we believe it is possible our test reflects the activity of brain immune cells. We appear to have stumbled across a biological pain dimmer switch that is controlled by the immune system."

The finding may lead to the development of new pain treatments targeting both the immune system and the brain.

"Our discovery will initially accelerate pain research focusing on the way the immune system controls pain. Subsequent research will then be required to further develop the pain blood test and new pain medications," Mr Hutchinson said.

"This research has opened

a window into the brain, which will enable us to significantly expand our understanding of how we feel pain and why some people feel pain more.

"Furthermore, our findings may help to explain the variable response people have to the available pain medications and treatments."



September 2004

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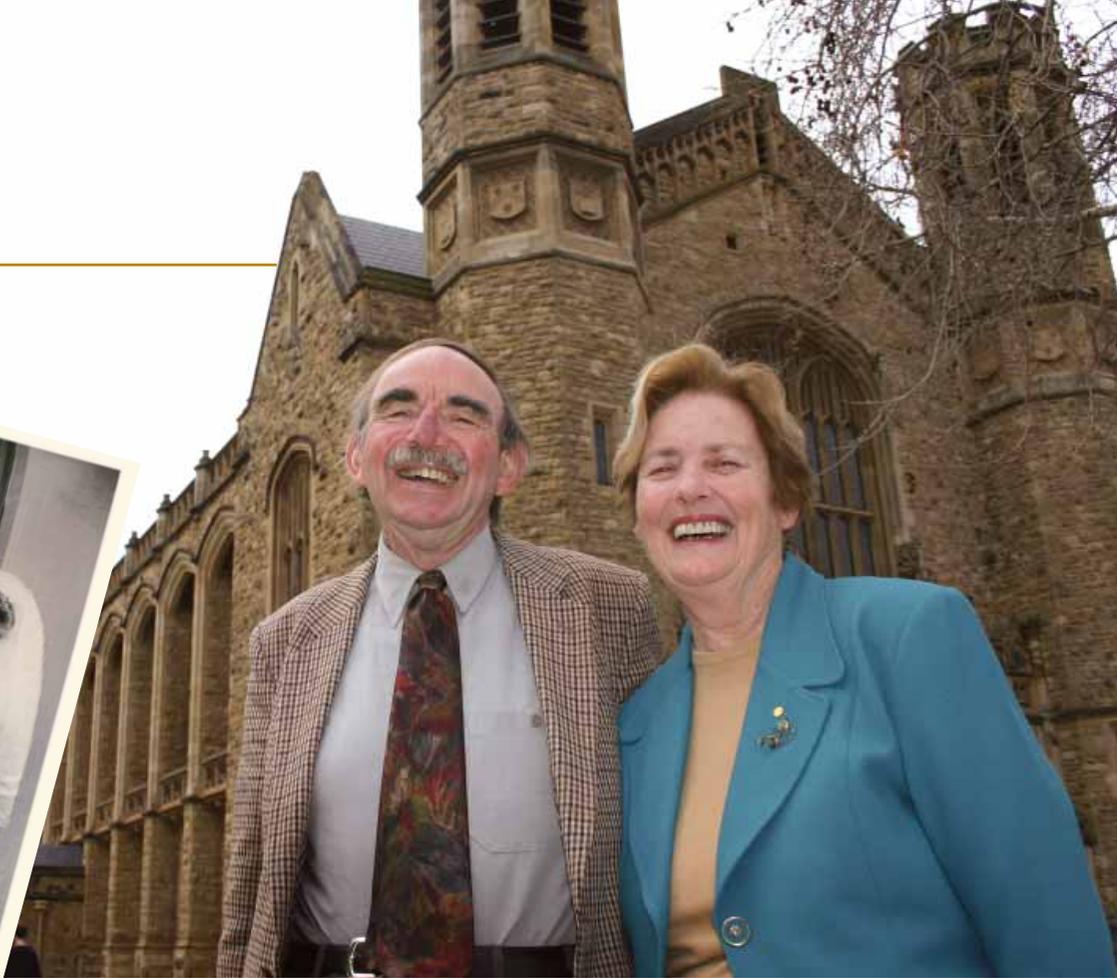
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Above: Ian and Marion McCarthy outside Bonython Hall, where they will celebrate 50 years of being University of Adelaide graduates **Photo by Ben Osborne**
Left: Ian and Marion's graduation day and their wedding in 1954

Golden memories for graduate couple

It could be argued that the McCarthys had the right chemistry in the 1950s – and they still have it, after 50 years.

As Chemistry students at the University of Adelaide, Ian McCarthy and Marion Sizer met back in 1951. At the time, Ian was studying for his Honours and was a chemistry demonstrator in Marion's first-year class. Three years later, they not only graduated together, they also got married!

Having just celebrated their 50th wedding anniversary last month, the McCarthys will now celebrate the Golden Jubilee of their graduation at the University of Adelaide, with a ceremony being held in Bonython Hall on October 1.

They are among 150 graduates, guests and staff who will attend the event, which commemorates the unique achievements of the university's alumni and their links to their alma mater.

Ian said that even though he was a fellow student, because of his role as a chemistry demonstrator he was very careful about approaching Marion to ask her out.

"I said to myself 'not until after the exams'... so the morning the exams finished I was down at the uni and I asked her out for that evening," Ian said.

Marion said with a smile: "I didn't at that stage have any particular boyfriends, and I wasn't doing anything that night, so I said 'yes'."

The rest is 50 years of history.

Ian went on to complete his Master of Science (Chemistry) at the university, while Marion finished her Bachelor of Science degree. They graduated on March 31, 1954, and were married on August 28 of that same year.

"The university days were some of the best years of our lives," Ian said.

"I was honoured to have attended lectures given by professors Sir Kerr Grant and Sir Douglas Mawson. It was a great thrill to attend lectures given by those two esteemed gentlemen."

For his Masters, Ian worked on research in organic chemistry under the supervision of the late, great Professor Geoffrey Badger. Ian's research involved looking for chemical compounds that would potentially be effective in treating cancer.

University in those days was quite different for female students, with

Marion being the only woman in her inorganic chemistry class.

Her fond memories include lectures by Professor MacBeth and Dr Pennycuik, playing table tennis in the Lady Symon Hall basement, and "making friends with fellow students... lifelong friendships".

"We enjoyed our academic life, and it was quite a thrill when I learnt through invitation about the Jubilee," Ian said.

Ian worked in a number of positions, as Development Chemist for SA Rubber Mills (later Bridgestone), and as a Research Chemist, Director of Research and later Managing

Director of an Adelaide-based company involved in manufacturing chemical-based products for the building and construction industry.

In the 1950s there were not many positions for women in industry, so Marion turned to teaching and became Science mistress at two girls' colleges. She has been actively involved in education and the community, and earned an OAM in 1997 for her services to education.

The McCarthys have four daughters, one of whom is an Adelaide graduate, and six grandchildren.

Story by David Ellis

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