

Wind tunnel Barbie a whole new drag act

RIDING your bike in a wind tunnel can be a real drag at times—just ask international toy icon Barbie.

Wind Tunnel Barbie is the brainchild of Adelaide University researchers looking to improve the aerodynamics of a life-sized bicycle to be entered in the 2001 World Solar Cycle Challenge from Alice Springs to Adelaide.

Staff from the University's Mechanical Engineering, Electronic & Electrical Engineering and Civil & Environmental Engineering departments have joined forces with two of Adelaide's brightest Year 12 students to prepare an entry for the challenge.

Project coordinator Mr Stanley Woithe said tests on Wind Tunnel Barbie formed a vital part of preparing an entry in the A-class section of the challenge.

A-class bikes are only allowed a small section of aerodynamic shaping (known as fairing) at the front of the bike.

"Many previous fairing designs suffer unexpectedly high drag in side-winds," Mr Woithe said.

"The students will be designing a fairing that provides low drag under a broad range of wind angles. It is expected that the fairing will be a significant departure from earlier designs.

"The students will be measuring the drag of an

unfaired and faired bicycle and rider in a wind tunnel, and will also carry out flow visualisation in a water tunnel."

Barbie and her bike represent a one-fifth scale model of the real thing, and were chosen for the task for a number of reasons, Mr Woithe said.

"Barbie and the bicycle are the ideal size for the wind tunnel, and all the components—bicycle, doll helmet and so on—were ready-made," he said.

"Barbie also has free-moving joints that allow her to be mounted in the correct position."

The two students—Paul Quast from Thomas More College and Andrew Smart from Urrbrae Agricultural High School—are working with Adelaide University staff through the CSIRO Student Research Scheme 2000.

The goals of the scheme are to provide students with quality research experience; increase the number of quality students taking up science and engineering careers; and to alert students, parents and teachers to the vital contribution of scientific and engineering research to the Australian community.

Other Adelaide University staff taking part in the project include Dr Richard Kelso as aerodynamics adviser and Mr Ian Linke on model fabrication.

—Ben Osborne



Year 12 students Paul Quast (left) and Andrew Smart (middle), along with Adelaide University's Dr Richard Kelso, check on Barbie's progress in the wind tunnel in the University's Department of Civil & Environmental Engineering. Photo: Ben Osborne.

Cloning technology aims to boost wool industry

AUSTRALIA'S first ever cloned sheep, named Matilda, has been unveiled by the South Australian Research & Development Institute (SARDI).

The breakthrough, which is the result of years of collaboration between SARDI and Adelaide University, comes four years after Scottish scientists created the world's first cloned sheep, Dolly.

A key player in the cloning project was Professor George Rogers, who is the Program Manager of the Cooperative Research Centre (CRC) for Premium Quality Wool. Funding for the project was received from the Commonwealth through the Wool CRC, which is located at Adelaide University's Waite Campus in the Department of Animal Science.

Professor Rogers said the production of Matilda using somatic cell cloning technology (the same technology that produced Dolly at the Roslin Institute, Scotland) was extremely important for Australia's merino sheep industry.

On a basic level, the creation of Matilda involved the following steps:

- a cell was taken from a donor sheep;
- the cell's nucleus was transferred to an egg which had had its nucleus removed;

- the introduced DNA of the nucleus behaved like the DNA of a newly developed egg, enabling the egg to grow as a normal embryo;

- this embryo was then implanted into a host ewe, where it developed normally to produce Matilda.

A number of cloned embryos were implanted as part of the project, but Matilda, delivered in April by caesarean section, was the first live birth.

Professor Rogers said sheep breeders were keenly interested in the benefits of cloning as a means of rapidly breeding elite animals that, for example, were disease free and high producers of fine wool.

Sheep transgenesis has been conducted by Professor Rogers's group at Adelaide University over several years in collaboration with SARDI, aimed at improving the structure of wool fibre.

"These improvements could help Australia's struggling wool industry get back on its feet," Professor Rogers said.

"There is a very conscious need to strengthen wool's competitiveness as a textile fibre, and the application of cloning techniques to introduce new genes into sheep opens up enormous potential.

"It speeds up our research to create

sheep whose wool has new and useful fibre properties," he said.

SARDI Director Mr Rob Lewis said the gains for industry could be significant.

"The ability to clone merinos has potential to help the industry lift annual rates of genetic gain 5% or more, worth about \$300 million over 10 years in South Australia," Mr Lewis said.

He said under the current industry structure, based on breeding techniques, it may take up to 13 years to get the desired improvements in wool fibre. Cloning could shorten this to one year.

"The birth of Matilda demonstrates the viability of the technology, which we think has the potential to allow the industry to leapfrog generations in the search for premium wool types favoured by international markets," he said.

The technology also offers a means of "genetic rescue", where the genetics of flocks endangered by disease can be saved.

Similarly, animals with special qualities nearing the end of their lives can be duplicated, so that stud producers can continue to access their genetic value, he said.

Australia is believed to be among the top 10 countries in the world investigating cloning technologies for



Matilda, Australia's first cloned sheep. Photo courtesy of SARDI.

animal industries.

However, it will be some time before the cloning technology that produced Matilda will be available commercially. More trials are necessary, and the development of Matilda will have to be observed closely.

Mr Lewis said all research involved in

the cloning of Matilda had been undertaken within appropriate genetic manipulations and animal ethics guidelines and approvals, including the PIRSA Animal Ethics Committee.

Notification was also given to the Commonwealth Gene Manipulation Advisory Committee.

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COMMENTARY

WHAT CAN BABE TEACH US?

The Most Reverend Ian George
Anglican Archbishop of Adelaide

In 1748, at the age of 16, George Washington copied out by hand some "Rules of Civility and Decent Behaviour in Company and Conversation", which seemed to guide him throughout his career. These 110 rules are from an English translation of a French Jesuit writing of 1595 intended to replace the courtly manners that restricted honor to aristocrats. A combination of stoic and Christian egalitarianism surfaces in these rules, which guided Washington throughout his life.

For instance, Rule 1 is: "Every action done in company ought to be done with some sign of respect to those that are present," whether they be of aristocratic or ordinary rank. Rule 36: "Treat [artificers and persons of low degree] with affability and courtesy, without arrogance." Rule 32 announces "a principle of accepting honor only with reluctance and modesty". Rule 63 warns: "A man ought not to value himself or his achievements or rare qualities of wit, much less of his riches, virtue or kindred." In general, these rules were outlining and absorbing a system of courtesy appropriate to equals and near equals. Washington's adherence to these democratic manners throughout his public career evoked Parson Weem's comment that it was "no wonder everybody honoured him who honoured everybody".

Would you say that these are common characteristics of community life today?

In the 1990s there were many studies calling attention to the rise of a new "beastliness" in social relations. As J Budziszewski observes, "Good manners seem to be taking it in the chops lately... Discourtesy, ingratitude, boorishness, and indecorum are now so much expected in public life that one begins to make sport of them." In *The Triumph of Meanness*, Nicolaus Mills provides an extensive analysis of a tendency to make "meanness and denigration central to mainstream political writing". He goes on to describe talk shows that provoke guests to say derogatory things to each other, news programs that allow analysts rudely to interrupt each other, the rise of hostilities between the sexes and the races, and the incitement to violence and contempt. Look at what Robert Mugabe is doing in Zimbabwe at the moment. Meg Greenfield criticises "the new verbal incivility", describing it as "a continuous low, nasty, combative whine that has become the accepted background music to our daily lives". It is a form of cowardice: "it does not have the guts", she writes, "to confront the opponent's argument; instead it attempts to discredit and destroy the opponent, to cast doubt on his moral standing to be in the argument at all... And we

ourselves, not to mention our saintly political leaders in both parties, could do a lot to change it for the better if we wished".

This incivility and combativeness saturates our sporting activities. Perhaps that is one of the reasons why sport has become such a dominant factor in all First World cultures. The Age recently published an obituary of the Brazilian goalkeeper who failed to save the crucial goal in the World Cup Final in Rio de Janeiro in 1950. He lived for a further 50 years and for half a century was refused back into his club because he might bring bad luck. A woman pointed at him and said to her boy: "Look at him, son. He is the man that made all of Brazil cry." Last month he said: "Under Brazilian law the maximum sentence is 30 years. But my imprisonment has been for 50 years."

Into this observed descent into incivility and discourtesy appeared in 1995 a film which many of you may have seen. It was called *Babe*. In this Disney-like tale, Arthur Hoggett, a sheep farmer, becomes the owner of a pig, Babe, who is subsequently adopted by Fly, the mother border collie on the Hoggett farm.

Mr Hoggett decides to teach Babe the tricks of shepherding. Fly explains that the key is "attitude. They just have to know who's boss". When Babe tries to push the sheep around, trying to bark like a dog, they just laugh at him. But then Babe speaks to them with a civil and courteous tone. Amazingly, the sheep walk calmly out of the fold two by two in a stately row.

Farmer Hoggett enters Babe for the National Grand Challenge Sheepdog Trials. When they arrive, Babe speaks to the sheep with respect, while Fly uses the ordinary domineering tone of a sheepdog. "All right, blockheads, pay attention over here," she says as the sheep shy away in terror. "Now, you pay attention to what this pig has to say to you, or I'll come in there and rip ya to shreds!" They just veer off and refuse to communicate. Only when Babe discovers the sheep's password do they decide to respond to his requests. The crowd laughs in derision as Babe is led out to the competition, but Mr Hoggett is undeterred. The sheep obediently file through the course, in pairs, in response to Babe's instructions. The sportscaster is speechless as the crowd goes silent in amazement. At the end of a perfect performance of shepherding, the crowd breaks into wild applause. Through a lowly pig treating the lowlier sheep with civil respect, a miracle occurs that affects everyone in the story.

If Miriam Hauser, Director of the Film Studies

“Ah, beautifully done. I can't tell you how grateful I am to you all. Now for one last favor...”

Centre at the University of Chicago, is right when she says: "Film has become the medium in which stories are told that tend to be central to the concerns, problems, preoccupations of a society,"

does Babe throw light on the deeper dimensions and motivations of civility in a time when simple admonitions to behave well are no longer effective?

Babe's success derives from treating the sheep "with brotherly love", so to speak. The sheep take a shine to him because Babe speaks politely to them and treats them with respect. But this sense of brotherhood Babe has already found in Farmer Hoggett and the dog family. The first words Babe says to Fly, the mother dog, come in response to her statement that pigs are almost as stupid as sheep. "Excuse me, no we're not." This polite statement, respectfully but firmly given, sets the tone for the later development. In time, the pups accept Babe as one of the family.

The matter of respect for others whom the world holds in contempt surfaces when Babe meets the matriarchal ewe, who insists, "I'll not be called a common sheep, thank you kindly. I'm a Border Lester ewe. The name's Maa." Babe learns to treat all of the sheep with respect, which is the key to their cooperation and Babe's success as a "sheeppig".

Babe responds appreciatively to the sheep's cooperation, "Ah, beautifully done. I can't tell you how grateful I am to you all. Now for one last favor, if the three ladies with collars would kindly walk out of the ring, I'd be very much obliged."

A distinction between superior beings, embodied by the leading animals on the Hoggett farm along with Mr and Mrs Hoggett, and the "lowly" is evident throughout the film. "Pigs are definitely stupid" is the caption shown when Babe is brought home, to the disapproving view of the sheepdogs. That the creatures at the top have the right to dominate others is the premise of the farm, accepted if not welcomed by all.

After Babe first hears of the bad behaviour of dogs, and yet is welcomed by Fly into her family, the pig's moral resolution is described by the narrator of the film: "The pig promised himself that he would never think badly of any creature, ever again."

Through Babe's example even the dogs learn to be courteous and civil. But the humans change too.

The question of how attitudes of people (and, of course, animals) are changed is a central one from the opening narration of the film:

"This is a tale about an unprejudiced heart, and

how it changed our valley forever. There was a time a few years ago when pigs were afforded no respect, except from other pigs. They lived their whole lives in a cruel and sunless world."

In *St Paul Returns to the Movies*, Robert Jowett, to whom much of this analysis in indebted, states:

"The expression 'unprejudiced heart' appears to include both Mr Hoggett and Babe, but the transformation includes everyone in the valley, implying that a new 'respect' had been achieved. All of the creatures, the people in the stands, the proud officials of the National Grand Challenge, and even Mrs Hoggett—all share in applauding the victory of the humble pig. But there is a curious element in this celebration: Babe and his boss stand silently to receive it, and they appear completely unaffected by it... The narrator informs us that no one in the stands knew what to say, but Mr Hoggett did: 'That'll do, pig. That'll do.' Babe looks up to his master with contentment. It is as if the reward for victory is intrinsic in the performance itself; both the farmer and his pig are content simply to have done the job well. Neither of them needs the honor of public applause, because their need for honor has somehow already been met."

Put simply, by considering others' needs, Babe has facilitated a transformation in the behaviour patterns of a whole community.

We could do with some transformation in Australia right now.

The embracing of civility and courtesy has many implications for an Australian culture increasingly divided between rich and poor, a dominant white majority back-peddling on reconciliation with an oppressed indigenous minority, and an increase of confrontational styles based aggressively on competition rather than cooperation.

When I was in legal practice there was a tradition that every practitioner was *amicus curiae*, a friend of the court. The first interest of the legal system was to seek together the truth. Perhaps it was always a dream. But what has taken its place seems more of a nightmare every day. My hope and prayer is that we might all be true friends of the society in which we live and work.

You will understand my special interest in mentioning that the events of Good Friday and Easter are a pattern to be noted. Jesus's example of self-sacrifice on the cross, I believe, is the finest model we have. Christians believe that act was vindicated in the resurrection three days later.

It is an ancient pattern: death to self brings new life—to individuals and to communities.

This commentary was adapted from Archbishop George's address to graduating students in Bonython Hall on Wednesday 19 April.

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LETTERS

TO THE EDITOR

University identity



I was interested to read John Edge's letter to staff about the University's identity, in the April 24th edition of the *Adelaidean*.

Several people had asked me recently whether the University had changed its name, and my response was - "not that I'm aware of!" But I note that we are now Adelaide University, not The University of Adelaide.

It's been suggested to me that this puts our University at the top of the alphabet and that may be an advantage in these competitive times, but I must admit I prefer The University of Adelaide. I accept that staff can't be consulted on every issue that arises, but I would have thought that changing the name of our institution was something that deserved some discussion.

Grant Townsend
School of Dentistry

Editor: In August 1999 a draft revision of the University's logo was put forward by Emery Vincent Design. This was the first stage in redesigning the University's visual identity. Comment was invited from Faculties through their Executive Deans. In addition, a series of

focus groups was held. Participants included senior academic staff, other academic and general staff, student leaders, and external community participants. Support for the use of "Adelaide University" emerged from those groups.

Research distinction



In nearly every issue of the *Adelaidean* there are comments or an article on research, and I keep on wondering whether it would be wise to specify the 'type' of research as this term represents a *category* of activities.

As well known, research is a 'collective' word representing *pure or basic research* and *applied research*; the latter comprising four subtypes, namely, *problem-oriented*, *goal-oriented*, *developmental*, and *operational applied* research.

The reasons for making a clear distinction, even in brief newsletter articles, are too many to discuss here. Perhaps an article could be written by one of the researchers?

Dr Karl H Wolf
Eastwood, NSW

Boyd exhibition

STUDENTS from Adelaide Uni are being offered free admission to the Art Gallery's exhibition of the paintings of Arthur Boyd.

The Art Gallery of South Australia has borrowed several Boyd works from Adelaide University, including the *Judges* series, from the *Equinox Cafe*, and *The Circus* and other poems series, from the Barr Smith Library.

Students who present their ID cards will be given free admission, enabling them to see and enjoy the University's works in the broader context of Boyd's art. Those wanting to take advantage of the offer must go to the information desk near the Gallery's cafe to receive their special admission tags.

Aboriginal kids get taste of uni life

A GROUP of high school students from South Australia's rural and remote areas had the rare opportunity to see, smell and touch the sea while they were in Adelaide recently—but just as importantly, they also learnt about how it works.

The students were part of a group of more than 100 indigenous high school students (plus teachers and parents) from across the State who got their first taste of university life, thanks to an innovative program involving all three South Australian universities and coordinated by Wilto Yerlo, the Aboriginal Programs Unit at Adelaide University.

The two-day *Experience Uni—Securing a Future* program has been hailed by organisers as a resounding success, with coordinator Ms Sonja Kurtzer saying many of the students had come away with a new outlook on possible careers.

"Many of the students may not have known of anyone else in their family or peer group who has attended university," Ms Kurtzer said.

"In bringing them to Adelaide, we hoped to encourage them to think about university education as a means to a better career. Our aim was to educate students, but along the way show them that university study can also be lots of fun."

The Year 10, 11 and 12 students came from as far away as Marree and Coober Pedy, as well as Port Augusta, Murray Bridge and Naracoorte, with many commenting on the value of having the opportunity to listen to



Proudly posing for *The Advertiser* photographer Brett Hartwig during their trip to Adelaide University were (from left) Lawrie Rankine, Rohanna McKeown, Azra Rochester and Desmond Karpary. Photo: Ben Osborne.

current and past students talk about their successes and experiences at university.

During the two days they were involved in "hands-on" activities at each university. For example, at Adelaide University students were able to examine a coastal modelling basin which simulated how the ocean works—and then compare it to the real thing at West Beach, where they stayed.

Students were also entertained by a band from Adelaide University's Centre for Aboriginal Studies in Music (CASM) and took part in leisure activities including banner painting, a beach walk and sports.

Experience Uni—Securing a Future was sponsored by the Department of Education, Training & Youth Affairs.

—Ben Osborne

Staff's new role on government bodies

SENIOR Adelaide University staff have been appointed to key positions on State Government advisory groups.

The Executive Dean of the Faculty of Engineering, Computer & Mathematical Sciences, Professor Ian Young, has been appointed presiding member of the SA Government's Coast Protection Board, while the Deputy Vice-Chancellor (Research), Professor Edwina Cornish, and Professor Peter Høj, Professor of Oenology and Director of the Australian Wine Research Institute, have been appointed to the State Government's new Innovation, Science & Technology Council.

The Coast Protection Board is responsible for the maintenance of all coastal regions of South Australia.

Professor Young has been appointed to the board until February 2004.

The new Innovation, Science & Technology Council has been established to develop a "Partnership for Action" on innovation, science and technology matters between business, government, universities, research institutions and the community.

It will advise government and other relevant parties on a range of strategic issues and will be expected to play a central role in fostering a culture of innovation in South Australia.

The Council's 13 members are drawn from the private and public sector.

Adelaide University Vice-Chancellor Professor Mary O'Kane has welcomed the new appointments.

"Professor Young, Professor Cornish and Professor Høj would make invaluable contributions to the State through their representation on these bodies," Professor O'Kane said.

"The Coast Protection Board has a major role

to play in the preservation and maintenance of a major natural resource in South Australia, its coast, and Professor Young's appointment to the board is a tribute to his expertise in physical oceanography and coastal engineering."

She said the establishment of the Innovation, Science & Technology Council would bring key players together in one working group.

"Excellent linkages need to be developed between all the sectors if South Australia is to capitalise on its brightest ideas," she said.

"There are many examples of cutting-edge research in our universities and research centres and we need to make sure that they generate the maximum benefits for our State.

"The new Council will encourage networking between the key players and help to promote a more entrepreneurial culture."

—David Ellis

E-team offers students unique opportunity

FIVE Adelaide High School students have recently spent a week at Adelaide University in a bid to improve an important process at the University.

The students (under the guidance of facilitator Sam Jacob, pictured third from right) were at the University as part of the 'E' Team program.

The 'E' Team program involves high school students spending a week at various workplaces. Using Quality Management principles, they analyse a particular section of the business' work and make recommendations on how to improve a process within that section.

This year's Adelaide University 'E' Team (from left) Aileen Yao, Adrianna Nguyen, Andre Haidar, Linh Lam and Natalie Chhay, examined how student feedback from student service areas in the Division of Student & Staff Services is collected, analysed and used.

—Ben Osborne



Good on you, Oz!

I'm pleased that *The Australian* has run a series of articles about universities entitled "What price knowledge?" including a good article by Adelaide Arts honours student, Robert Geddes. It's critical that the issues, dilemmas and problems facing Australian Higher Education are more widely understood. Debates in our major, national newspaper are a great help, as are editorials highlighting the issues. The editorial in *The Weekend Australian* of 6-7 May, "Knowledge: a strategic investment", was particularly thoughtful.

One article in the series was by Minister Kemp. There's been a tendency for too long for governments to use defensive arguments claiming there have been no cuts, but the line seems to be changing. To quote the Minister: "The overarching policy strategy of the Government during the past four years has been to maintain (and in research, to lift) the public investment in universities, while providing incentives and opportunities for a better and more equitable use of resources and a wider community contribution". True enough, I suppose, if you forget about inflation and the '96 cuts, and overlook some of the more peculiar bureaucracy on fees!

I suspect many of us were personally sympathetic to Simon Marginson's arguments for more public funding of universities. However I don't see much sign of political parties being swayed by it. Given the zero-sum nature of government funding, Australian governments over the last ten years or so have been very reluctant to move the level of funds required to support universities adequately from the Health, Welfare or Defence budgets (the main possible sources). Nor have they been willing to raise taxes – another possible source of funds.

As a nation we face choices about higher education. We can let the universities run down, or let them support themselves by finding increasingly large amounts of their funding from non-government sources (adding to the stress on an already badly-stressed system), or we can ask individuals to pay higher fees (generally not possible for full-time students unless in the form of a deferred loan). Or some mix.

As I said, I see no evidence of a change of heart by either of the major political parties with regard to more public funding of universities. While there is talk by Labor of the need for greater support for education, I have not heard of any well-articulated plan for where funding would come from and at what levels. It is important when calling for public funding also to ask for the details of sources and levels of funding. Being fobbed off with token increases will not help much at all.

We should have backup requests ready too, given the resistance by governments to increased public spending on universities. If there is to be no increase in public funding, then the existing funding system should be restructured. Commonwealth scholarships should be reintroduced and the HECS system should be extended so that universities that want to can offer domestic students a higher-quality education than they can offer at present, given low levels of government funding per student and the highly-controlled nature of funding for domestic students. With the appropriate HECS extension, students would not have to pay for this increased quality until they were earning enough to do so.

So, let's encourage our newspapers to keep printing well-informed debates on higher education. And let's take every opportunity to ask our political leaders if and how they're going to make positive changes to higher education funding and policy.

MARY O'KANE

A mix of alcohol and clergy

AUSTRALIANS are renowned for being able to down large quantities of alcohol—but according to an Adelaide University researcher, we haven't got a patch on religious figures in traditional Europe.

Dr Lynn Martin, Director of the University's Research Centre for the History of Food & Drink, says from the 8th century until as late as the 18th century, priests, monks, friars and even nuns were consuming enormous quantities of alcohol.

This hearty consumption of alcohol led to the popular image of a drunken priest in the past, Dr Martin said.

The figures for average daily consumption or ration of alcohol per person are staggering—a word which would also describe the state of the people on the receiving end of such quantities:

- Priests of Munden's Chantry (Mid-15th century): 18 litres of ale;
- Prior of Blyth (15th century): 13.5 litres of ale;
- Monks of Austrian monasteries (14th century): 2-4 litres of wine;

- Nuns of S. Maria delle Vergini (Mid 15th century): carafe of wine.

To put these figures into perspective, the annual per capita consumption of wine in late medieval and early modern Italian towns ranged from 200 to 415 litres. This contrasts with the annual per capita consumption of 20 litres in Australia and 60 litres for present-day Italy.

In his latest paper, entitled *Alcohol and the Clergy in Traditional Europe*, Dr Martin argues the role of alcohol was far more important in traditional Europe than it is today.

"Alcohol was a necessary component of most people's diet—people drank a significant portion of their daily intake of calories," he said.

"They drank water, of course, but in the period before safe alternatives such as tea and coffee, many people began their day with a draught of ale or wine at breakfast and continued drinking throughout the day.

"Contrary to Karl Marx, religion was not the opiate of the people, alcohol was. Alcoholic beverages often provided the only refuge and the only comfort from the harsh realities of daily life, and the even

harsher catastrophes and disasters that were too often a feature of existence in the past."

This "opium" definitely applied to the religious people of the day, according to Dr Martin, who examined the way literature from the time portrayed the clergy.

For the most part, it wasn't a kind portrayal—priests, monks and friars were supposedly drunkards and haunters of taverns and alehouses, Dr Martin said.

"So widespread was the reputation of clergy for drunkenness that it attained the status of proverbs. *'Bibamus papaliter'*, that is, 'Let us drink like a pope,' did not mean to drink in moderation," he said.

"Medieval monks also perfected ale-brewing techniques and earned a reputation for the quality of their brew.

"In England they produced three grades of ale, weak, mild and strong, and marked their barrels accordingly with one, two, or three Xs. This is of course how Four X beer gets its name, and not, as some people believe, because Queenslanders can't spell beer."

—Ben Osborne



Dr Lynn Martin from the Research Centre for the History of Food & Drink pours himself a ration. Photo: Ben Osborne.

Olympic torch a success, despite the controversy

IF, as the saying goes, "the proof of the pudding is in the eating", the real proof for a team of Adelaide engineers came on Wednesday 10 May when the Sydney 2000 Olympic Torch was lit in Greece.

After almost two years developing the fuel and combustion system for the torch, the hard work by engineers at Adelaide University and local company Fuel & Combustion Technology (FCT) was finally put to the test.

Despite being outshone by the controversy of who was carrying it, the torch itself performed admirably.

The torch-lighting ceremony in Olympia, Greece, was the first real sign that the Sydney 2000 Olympics will soon be underway.

From Greece the torch is making its way to Asia and then to Australia for the longest torch relay of any Olympics.

Members of the torch development team from Adelaide's departments of Mechanical Engineering and Chemical Engineering, and from FCT, held an impromptu celebration on the night of the torch lighting.

The team had reason to celebrate. They were awarded the contract to develop the fuel and combustion system for the torch back in

1998, beating national competition for the prestigious contract.

In a team effort itself worthy of a gold medal, countless hours of design and testing by around 20 researchers, including academic staff and students (including a postgraduate student from Malaysia), plus the efforts of technical and secretarial staff, produced a flame for the torch which has burned brightly.

The torch flame is the most environmentally friendly of all the Olympic torches, with little to no visible smoke or toxic emissions and the lowest greenhouse gas emissions yet.

The development team is confident that the torch will perform well in a variety of weather conditions in Asia and Australia.

"We're very pleased that after all this time the torch is working as expected," said team leader and Mechanical Engineering senior lecturer Dr Gus Nathan.

"It's impossible to test for every possible situation the torch will face, but at this stage we're glad to see that the flame is burning brightly and is doing everything that SOCOG wanted it to do.

"The real excitement for us will come when the torch relay begins in Australia. We will be closely monitoring the torch's performance and hope that it lives up to the nation's expectations.

"It was a great challenge and a great honour for the development team to take on this contract, and we're obviously delighted to have played our role in Olympic history," Dr Nathan said.

The Adelaide team was also awarded SOCOG's contract to develop the barbecued community cauldrons which travel with the Olympic torch during the relay.

—David Ellis



Wind tunnel testing was vital in the development of the Sydney 2000 Olympic torch, enabling researchers to gauge the flame's reaction to a variety of wind conditions. Pictured here are Associate Professor Keith King (Chemical Engineering), Dr Gus Nathan (Mechanical Engineering) and Mr Steven Hill (FCT). Photo: Brenton Edwards.



Sophie Gosper runs with the Olympic torch in Greece. Photo by Associated Press.

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SEMINAR

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Edith Cowan University in Perth recently celebrated the 5th Birthday of its School of Engineering, and paid tribute to Adelaide University Vice-Chancellor Mary O'Kane. ECU is grateful for the "vision and encouragement" of Professor O'Kane, who was on the original steering committee that guided the inception of its engineering school. Pictured at the celebration are (from left) Dr Derek Abbott from Adelaide University's Department of Electrical & Electronic Engineering (representing Professor O'Kane), Professor Millicent Poole, Vice-Chancellor of Edith Cowan University, and Professor Kamran Eshraghian, Head of the School of Engineering at Edith Cowan.

New outback telescope opens up the heavens

A \$4 MILLION telescope operated jointly by Adelaide University and the University of Tokyo has been officially opened at Woomera by the Japanese Ambassador to Australia, Mr Masaji Takahashi.

The powerful 10-metre CANGAROO telescope will enable scientists at the International Astrophysical Observatory to make observations of radiation (gamma rays) from supernovas, pulsars and black holes.

It replaces the 3.8 metre telescope used at the Observatory since the two universities established the CANGAROO Project in 1992.

(CANGAROO takes its name from the Collaboration of Australia and Nippon for a Gamma Ray Observatory in the Outback).

A contribution of \$200,000 towards the cost of the telescope was provided by the Australian Research Council and the National Committee for Astronomy.

Further funds of around \$10 million from the University of Tokyo will fund three additional telescopes at the site over the next four years. These will combine with the newly opened telescope to form CANGAROO 3, a powerful telescopic system expected to provide important new scientific findings.

At least two other such systems will come into operation in the next few years and combine with forthcoming satellite programs.

Adelaide University Vice-Chancellor Professor Mary O'Kane said the CANGAROO project was an outstanding example of international cooperation in science.

"Over the last eight years the project has achieved significant scientific results and played an important part in training a new generation of astrophysicists," Professor O'Kane said.

"As well as the research component, the program provides

training for Japanese and Australian PhD and Masters students.

"It underlines Adelaide University's commitment to the concept of research partnerships and confirms the University's stature as a research institution of international significance."

The Australian coordinator of the project is Associate Professor John Patterson from Adelaide University's Physics & Mathematical Physics Department.

He said CANGAROO 3 would enable scientists to look for huge black holes at the centre of galaxies, and study the effects on galaxies of black holes.

Also present at the official opening in Woomera on 9 May were Professor Yoji Totsuka, Director of the Institute for Cosmic Ray Research, Professor Tadashi Kifune from the University of Tokyo, and Mr Joe Van Homelen, Woomera Area Administrator.

—John Drislane



Media attention as Professor Mary O'Kane speaks at the opening of the telescope. Photo: Rob Morrison.



Night sky over Woomera. Photo courtesy of Dr John Patterson.

Stephen Cole Prize



Dr Geoff Crisp. Photo: Ben Osborne.

DR Geoff Crisp tries to do more than just impart sheer knowledge through his teachings—he wants his students to think about what they are learning.

It is a philosophy based on the student being able to put their learning to effective use in today's society—and it is also a philosophy which has been recognised by Adelaide University. Dr Crisp has been awarded one of the three Stephen Cole Elder Prizes for Excellence in Teaching for 1999.

Senior lecturer and deputy head in the Department of Chemistry, Dr Crisp said he was very pleased to receive the award, describing it as the highest tangible reward for his teaching career thus far.

"It was very nice to receive it," he said.

"But if I hadn't, I wouldn't have stopped teaching the way I'm doing it now because I wasn't being recognised—I would still be doing it this way because it is important for the students.

"I guess you could describe my teaching philosophy as being more than just teaching content—I am trying to put this content in some sort of context for the students, to try and encourage them to become more responsible scientists.

"This involves teaching problem-solving, utilising resources and identifying consequences of their actions before they do anything. It's one thing to mix small quantities of chemicals here at the University and then dilute it and wash it down the sink (if you are allowed to), but you can't take that approach mixing large quantities out in industry—that's the sort of thing I try to get my students to think about."

Dr Crisp did his undergraduate and postgraduate studies at the University of Queensland and Australian National University respectively, and has worked at universities in Germany, the USA and Australia.

He has taught at Adelaide University since 1988, and since that time has won two Faculty of Science Teaching Excellence Awards (1994 and 1996).

—Ben Osborne

Young scientists keep it fresh

FOR the past three years, a major event of National Science Week has introduced young researchers and their work to the spotlight.

'Fresh Science', part of the 'ScienceNOW' event held in the Melbourne Exhibition Centre, emphasises the importance of Science Communication.

Each year it introduces 16 young scientists who present their research to the public. They are chosen from around Australia, with their work representing some of the most exciting, as yet unpublicised research.

As well as introducing science to the media, Fresh Science also introduces the media to the researchers. They have access to experienced science communicators who advise them on presentation and media releases. They present their work in a public illustrated talk, undergo a 10-minute interview with a journalist, and then review media reports of their research.

One of this year's participants, Dr Yasmin Edwards (whose paper "Why Don't We Breathe Ourselves To Death?" was discussed in the 8 May issue of the *Adelaidean*), has found the experience to be invaluable.

"As a scientist, I always felt that I was an effective communicator, who could walk the walk and talk the talk because I was academically trained. However, since participating in ScienceNOW I have realised that the ability to communicate is not a skill that is automatically bestowed on all our species after we graduate. What's more, the failure to recognise the need to communicate well in a science career is the one sure way of killing it off," Dr Edwards said.

So who do scientists need to communicate with?

"First, with other scientists. Science is so diverse that practitioners who are very knowledgeable in one discipline can be relatively ignorant in another," she said.

"It is through interaction with other scientists that we can more rapidly advance our research and our understanding of the global challenges that face us as a society.

"Second, we have a responsibility to teach and mentor our students. This needs finely tuned communication skills, well beyond the 'chalk and talk' approach that most of us grew up with. Students, especially younger ones, have not yet learned the language, jargon and shorthand communication common to those who have been active in a scientific field for a long time.

"More and more it is how students learn rather than what they learn which is important in teaching. This is because the subject matter of scientific disciplines continues to expand and become rapidly outdated, and if students are to have successful professional careers, they need to be equipped with the skills to continue to learn after they have left the classroom.

"Third, we need to interact with the community. We need to expose ourselves, show members of the public what we are doing and why. Only then can we raise our profile to a point where we really have public credibility. Maybe then the government will recognise the awesome capacity of the scientists that they have in this country."

Ms Rachel Melland is a PhD student with the Cooperative Research Centre (CRC) for Weed Management Systems at Adelaide University's Waite Campus. She was also chosen as a finalist in Fresh Science.

Her topic, "Fire Destroys Weed and Saves Biodiversity", dealt with a new environmentally-friendly way of killing boneseed, among Australia's worst weeds.

The new methods combine controlled fires, herbicides and revegetation, and replace the old "hit or miss" method that threatened to wipe out rare and endangered plant species as it killed the boneseed.

"We are now able to restore native biodiversity to areas which are currently being wiped out by boneseed," Ms Melland said.

"After the fire has burnt out existing boneseed, new native grass growth chokes the weed out and stops it re-establishing."

She said landowners and conservation workers were often nervous about using fire, both because of the potential effects on native species and concern that a fire will escape to damage to surrounding property.

However, legal controllable fires can be a powerful weapon against boneseed and other weeds.

Like Dr Edwards, Ms Melland found her experience at ScienceNOW to be overwhelmingly positive.

"As a result of my presentation and media attention at ScienceNOW I was able to spread the results of my research to a large audience.

"Media attention so far includes national and local coverage on ABC TV news, interviews with ABC radio, an article in the *Stock Journal* and a feature in *Town and Country*, and an invitation to write an article for *Australian Science* magazine due out in June/July," she said.

International award to rural medicine professor

THE Director of the South Australian Centre for Rural and Remote Health, Professor David Wilkinson, has been awarded a major prize by the Royal College of Physicians in London.

Professor Wilkinson, who was appointed to head the Whyalla-based Centre last year, has won the Frederick Murgatroy Memorial Prize for 2000.

The prize is awarded every three years by the College to a graduate who has made an important contribution to the science or practice of tropical medicine.

Previous winners have included Professor Nick White and Professor Sebastian Lucas, two of the acknowledged world leaders in the field.

The award recognises Professor Wilkinson's outstanding work in South Africa between 1987 and 1998.

Professor Wilkinson worked initially

as a medical officer in two busy district hospitals with about 450 beds and progressed to the position of medical superintendent (head of the hospital).

As public health program developer, he initiated a rural research program that focused on public health priority areas including tuberculosis, HIV/AIDS and sexually transmitted diseases.

His most successful initiative was a community-based program for treating patients with tuberculosis. Treatment occurred in patients' homes or workplaces and completion rates reached 85% compared with previous rates (typical of parts of Africa) of around 20%.

This model of community-based, directly-observed therapy has now become a central part of the World Health Organisation's (WHO) Global TB Control Strategy.

Professor Wilkinson's research unit developed a collaboration with the

South African Medical Research Council and won millions of dollars of competitive grants from the WHO, Wellcome Trust and the US National Institutes of Health.

It grew to over 100 staff and incorporated the Africa Centre for Population Studies & Reproductive Health and a field site for the testing of HIV vaccines. Research outputs were published in more than 100 papers in major medical journals.

The South Australian Centre for Rural and Remote Health is a partnership between Adelaide University, the University of South Australia and Commonwealth and State Governments.

It has established a university-owned and run teaching practice, increased the number of rural student placements, undertaken critical research and helped to attract extra doctors and specialists to regional South Australia.



—John Drislane Professor David Wilkinson.

Soccer engineers score a win



After a number of years competing in the Adelaide Corporate Challenge Competition, the Department of Electrical & Electronic Engineering's five-a-side soccer team (pictured above) has finally been victorious, winning the first season for 2000.

Recruiting of some talented postgraduates ably supported by some seasoned staff veterans took the team from wooden spooners last year to the top of the table, losing only one game for the season.

The Adelaide Corporate Challenge organises friendly lunchtime competitions in a number of sports including soccer, basketball, volleyball, netball and eight ball. Further information: Adelaide Corporate Challenge, 0412 842 127, web page <<http://www.seol.net.au/challenge>>

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AUSTRALIA

Joan Burton Paton AM, 1916-2000

JOAN PATON was born at Cremorne, Sydney in 1916, the fifth and youngest child of John and Dora Cleland. She moved to South Australia with her parents in 1919 when her father became the first occupant of the Marks Chair in Pathology at Adelaide University.

Her interest in natural history began at an early age, accompanying her father on walks and learning the basis of the scientific approach.

Her lifelong interest in birds was spawned by attending meetings of the South Australian Ornithological Association and in dissecting all beach-washed birds. In 1932 she wrote an essay on the birds seen on her holidays and won a pair of canaries and a guinea.

Joan was a student at Adelaide University where she majored in Organic Chemistry and Biochemistry before graduating BSc (Hons) in Biochemistry in 1939, followed by an MSc in 1947. She was a keen hockey player being a University Blue in 1939 and also a State representative.

Her career as a Biochemist commenced at the Institute of Medical & Veterinary Science in 1940, where she worked for 12 years. In 1951 she married Pat and the demands of marriage, children and caring for an ailing father were all taken in her stride. She simply incorporated all of these things into her life without fuss. Having children was a turning point in her busy life as it gave her an excuse to rediscover her passion for birds and nature study. Like her parents she encouraged her children as well as nieces and nephews to explore their surroundings. She took great delight in re-living her early naturalist days with her children.

In the early 1960s she develop an interest in bird banding and became a registered bird bander in 1962. There was a lack of suitable books for bird identification at that time, so Joan built up a large collection of photographic slides of birds. This interest was maintained in tandem with a busy teaching career as a part-time teacher and demonstrator in the Biochemistry Department at Adelaide University (1953-70) and in Biology (1970-87).

In 1967 she joined the WEA Spring School at Angorichina as ornithologist and tutored each year until 1981. Her classes in ornithology for the WEA continued until 1999. These were the introduction to birds for many, many people who subsequently joined her on bird study tours, including trips to the Musgrave Ranges, the Sir Joseph Banks Islands, and safaris to Lawn Hill and the Kimberley and Broome areas.

Joan also forayed into many parts of Australia with Pat Thomas (daughter of Sir Douglas Mawson, formerly of Adelaide's Zoology Department), a parasitologist with a particular interest in the parasites of the native fauna. Joan collected samples for Pat throughout her busy career and has several parasites named after her.

Joan's many roles in conservation included being National Parks Commissioner (1968-71), member of the National Parks and Wildlife Advisory Committee (1973-78), the Cleland Conservation Park Trust (1978-



80), the Mt Lofty Ranges and Sturt District National Parks Advisory and Consultative Committees from 1982, and the Burnside Environment Advisory Committee from 1994. She also served as Vice President and then President of the South Australian Ornithological Association, was the Regional Representative of the Royal Australasian Ornithologists Union before joining the Council of the RAOU from, and served as Vice President and then President of the Adelaide Ornithologists Club.

Joan authored over 65 papers and wrote chapters for books about birds on the Heyson Trail, the Flinders Ranges and Encounter Bay. She also enjoyed composing poetry and telling stories, and joined a group of enlightened and well-educated women—the Tatlers—who delivered their papers, prose and poems at monthly meetings.

All these amazing achievements were recognised in 1996 when Joan was awarded an AM (Member of the Order of Australia) for her service to ornithology, education and the environment.

As valuable as these contributions were, they pale into insignificance against her greatest contribution and greatest asset—her ability to teach, to enthuse, encourage and inspire others. She had great patience and treated all people as equals, never fussed over anyone, never expected anything in return.

Joan Paton touched and moulded the lives of her children and influenced the lives of many others. In South Australia few bird-watchers can look at birds and not be reminded of the day Joan showed them something ornithological; a generation of doctors fondly recall her teaching them biochemistry; a generation of Biology I students remember her initiating them into the intricacies of the circulation of the sheep heart, or the life history of a moss.

Joan died at home on 28 April 2000, and is survived by her children, Barbara, David and James, and her six grandchildren.

—adapted by Margaret Davies from the tribute at Joan's funeral delivered by Dr Ross Reid

CAREER PATHS

SOLDIERING ON FOR EAST TIMOR

A CAREER in the Army isn't exactly typical for Adelaide University graduates, but it's part of the winding path being taken by Science graduate Paul Rosenzweig.

With 20 years Army Reserve service behind him, late last year Major Rosenzweig was selected to raise and command the Deployed Force Support Unit - Darwin, which is responsible for the preparation and training of Australia's armed forces for operations in East Timor.

Paul comes from a long-standing South Australian family which has lived in SA since 1849. He attended Edwardstown Primary School and Marion High School. In the early 1980s he graduated from Adelaide University with an Honours degree in Zoology, and from the then South Australian College of Advanced Education (now UniSA) with a Graduate Diploma in Education.

He spoke to the Adelaidean about his unique career.

I joined the Army Reserve in 1979 while studying at Adelaide Uni, and served with the Adelaide University Regiment at Torrens Depot. I was commissioned in 1985 and served as a Reconnaissance Troop Commander in the North West Mobile Force in Darwin. Later I commanded Darwin's Defence Force Careers Reference Centre (1996-97) and Operational Support Squadron, North West Mobile Force (1998-99). During this time I was awarded the Reserve Force Medal, which was a great honour.

My background in Science and Zoology was not wasted, however. From 1997-99 I was the Executive Officer of Wildlife Management International Pty Ltd, a private wildlife research consultancy and management firm in Darwin. Before this, I had been Aide to the Administrator of the Northern Territory (1991-97) at Government House, Darwin, and had facilitated a number of vice-regal visits to the eastern provinces of Indonesia.

The research skills I learnt at university I diverted towards my interests in history, and I have now published two books and numerous papers on military history and biography, and have twice received the Sabretache Award of the Military Historical Society of Australia. In addition to these activities, recently I have provided support as a facilitator and linguist to three surgical reconstruction team visits to Flores, Indonesia, conducted by the Australia-South East Asia Rehabilitation Foundation.

By late 1999 I had reached a "career decision-point" and was considering options for my future. In November, as the Australian commitment to East Timor continued to grow considerably, I became aware of a role being created in Darwin for the "pre-deployment training" of personnel.

Australian Defence Force personnel who were joining the International Force in East Timor (INTERFET) were required to undergo a comprehensive regime of preparation and training. The idea was to raise and command a new unit to do this within an exceptionally short time frame.

I try to maintain a pro-active approach

to life, and my inspiration at this time was a quote from Sara Henderson of Bullo River Station (Northern Territory): "Don't wait for the light to appear at the end of the tunnel; stride down there and turn the bloody thing on yourself." With this in mind, I pursued the opportunity to become involved with the pre-deployment training of troops for Timor, and was chosen for the job of raising and commanding the Deployed Force Support Unit - Darwin. Initially, I carried out this role as a Reservist, but in January was offered a Short Service Commission in the Regular Army.

The opportunity to participate in the raising of a new unit was a great experience, made all the more significant for two main reasons: I'd just completed the requirements for a Diploma in Frontline Management, so the concepts of transformational management, corporate sustainability and methodologies for enacting change in the workplace were fresh in my mind; and I'd just submitted my thesis for a Master of Arts in Southeast Asian Studies, which included my recent experience in Indonesia and my knowledge of regional history and culture.

Taking on this full-time role, I suddenly found myself working 18-hour days, seven days a week, throughout December, January and February, with only two days off during that period. It sounds intense, but I was thriving on it! In just four months, we conducted 18 Force Preparation Courses, one fly-away training team visit to Enoggera, and one preparation course for United Nations Military Observers. Our unit has deployed



over 1200 personnel and also conducted the redeployment of Military Observers returning from East Timor.

Since February, Australian military personnel have continued to deploy to East Timor for service with the United Nations Transitional Administration in East Timor (UNTAET), and our unit in Darwin has continued to conduct the preparation and training of individuals for service with UNTAET.

Throughout this time, the unit has been supported by a variety of people including some Defence Reserve specialists from Adelaide such as Lieutenant Ravi Mahajani RANR (Medical Officer) and Flight Lieutenant Stacey Ellul (Nursing Officer), and it was great to catch up with some fellow South Australians who were able to get involved.

While I'm currently based in Darwin, my heart has remained in Adelaide, although I am keen to pursue interests overseas.

I see it as an honour and a rewarding experience to play such a significant role in the Australian Defence Force's operational commitment to East Timor. For me personally, it has provided the opportunity to capitalise on all the skills I have developed since my time at Adelaide University. On a more global scale, it just reinforces that the skills you learn at university provide the basis of a skill-set to which you keep adding throughout life. Every experience opens the door to a new potential. "Going with the flow" is a soft option—you need to be dynamic and proactive, and seize those opportunities as they arise.

Alumni Convention in Malaysia

AROUND 1500 international graduates of Australian universities are expected to attend the Second Australian Universities International Alumni Convention, to be held in Kuching, Sarawak (East Malaysia) from 24-27 August.

The theme of the convention is "Globalisation and the New World Order". A range of speakers across several disciplines have already agreed to participate.

This a particularly appropriate theme given the pressure on all countries for increased global interaction and a need for the peoples of the world to come to understand what globalisation really means, what the positives and negatives of it are, and what the future may look like.

This convention continues on from the highly successful inaugural convention held in Adelaide in 1998, at which [how many attended?].

In addition to the stimulating plenary and concurrent sessions there are a range of complementary

activities planned for this year's event.

Kuching is not a mainstream tourist destination, rather a place to enjoy a rich cultural heritage and an extremely diverse, tropical natural environment; the old blends with the new, and the people are warm and friendly.

It is expected that a large number of Adelaide alumni from peninsular Malaysia and Sabah will attend as well as those who live in Sarawak.

The convention offers the opportunity for Adelaide alumni, and not just those living in Adelaide, to share the mutual bond of their alma mater in an international environment.

Further details about the convention and travel packages can be obtained by calling (08) 8232 8722 or email: <geoffrey.sauer@adelaide.edu.au>.

Earlybird registration closes on 31 May.

—Geoff Sauer

Australian Secretary, Second Australian Universities International Alumni Convention

PUBLIC DEBATE

The Adelaide University Labor Club in association with the Don Dunstan Foundation presents a light-hearted Public Debate:

That the Labor Party is no longer the worker's party

"When I joined the Labor Party, it contained the cream of the working class. But as I look about me now all I see are the dregs of the middle class."—Hon. Kim Beazley Snr. (March 1979).

Panel members Anthony Durkin, Linda Kirk, Anne Levy, Jane Lomax-Smith, Tim Stanley and Penny Wong

Thursday 25 May, Lecture Theatre 102, First Floor, Napier Building, Adelaide University, 6.00pm - 7.30pm. Entry by donation.

Public Seminars

A SERIES of free public seminars is being held at Adelaide University's Thebarton Commerce & Research Precinct on 31 May in the Lecture Theatre, Building 16.

The first seminar will be held at 9.30am. The speaker is Dr Malcolm Campbell, Managing Director and founder of Abcon Management Services. Dr Campbell will discuss issues related to the area of intellectual and industrial property.

The second seminar at 1.30pm will be presented by Ms Leonie McKeon. Ms McKeon's business is Chinese Language & Cultural Advice, which commenced in 1998 as part of the Business Initiatives from Graduates (BIG) Scheme.

Details: Tania Johnson at the Enterprise Education Group on 8303 3098.

Sciences Chapter aids National Science Week

THE Alumni Association's Science & Mathematical Sciences Chapter has once again contributed to the success of National Science Week in South Australia by jointly organising or sponsoring several educational and entertaining events.

In cooperation with the Bureau of Meteorology, Physics alumnus Stuart Gibbs gave a two-part presentation in the Rennie Lecture Theatre on 4 and 11 May entitled "Whither the Weather".

Mr Gibbs provided a look at the history and future of weather forecasting in Australia and around the world.

A fascinating feature of the talk was a live link to the Bureau of Meteorology's main computer to demonstrate the effects of small errors in the mathematical models used in creating weather forecasts.

It was readily apparent from this demonstration that over longish periods of time (ie, greater than a week), there were some serious differences in the outcomes predicted by different models, and as the speaker pointed out, all models in use in all countries were being continuously reviewed and improved.

Probably the most popular event involving the Chapter was the organisation of the "Sleek Geeks Show", a visit by popular ABC Triple-J personalities Dr Karl Kruselnicki and Dr Adam Spencer. The Scott Theatre provided a wonderful venue for an

audience of over 600 to enjoy an original and worthwhile presentation by these two prominent science popularisers.

As the *Adelaidean* goes to press, an event with the provocative title "Science Saved Me From Sport!" is being organised by Youth ANZAAS and sponsored by the Chapter for students in years 8 to 12.

The speakers for the evening, Dr Peter Teague and Dr Stephen Russell, will be addressing how real science affects our daily lives, opening up new technical, economic and cultural options for people and jobs.

They will also address the disastrous perception among our youth that science and technology is for "nerds" and "nigels". The speakers will demonstrate the exciting and important nature of science and technology and will highlight areas to which young people can best relate.

The Chapter thanks the Alumni Association, ANZAAS-SA and the NSW-SA Coordinating Committee for providing sponsorships and facilities for its contribution to National Science Week in South Australia.

The next talk in the Chapter Evening Series, titled "HIV, Immunology and the Potential for a Vaccine", is scheduled for Wednesday 28 June in the Rennie Lecture Theatre, commencing at 7.30pm.

For more information call Robert Perrin, Chair of the Science & Mathematical Sciences Chapter, on (08) 8303 4965.

Benefit concert for radio 5MBS

STUDENTS of Adelaide University's Elder Conservatorium Vocal School are performing to support a local radio station.

The 70 students are investing their time and talent in a Benefit Concert for Adelaide fine music radio station 5MBS (101.5FM).

The concert will have a varied program of highlights from popular opera and operetta, and will feature bassoonist Karene Cooks.

5MBS, which grew out of the fine music broadcasting on University Radio 5UV, is entirely volunteer operated. Proceeds from the benefit concert will enable 5MBS to continue to improve its service to the music-loving community of South Australia.

"The students are delighted to support 5MBS with their talent," said Mr Keith Hempton, head of the Vocal School.

"Every opportunity to perform is welcome, and in this benefit concert the students are supporting a very important resource for the Adelaide fine music scene."

The concert will be held on Friday 26 May in Elder Hall at 8.00pm. Tickets at \$17/\$10 conc. Book at BASS on 131 246. For information call (08) 8303 3933 during business hours.

ASQ offers classical delights

THE upcoming Concert 2 in the Australian String Quartet's subscriptions series on 2 June gives the ASQ a chance to perform some of the most delightful music in the repertoire.

The sublime string quartet of Debussy will be sandwiched by two great classical works, Haydn's String Quartet in E flat (opus 64/6) and Beethoven's "Rasumovsky" String Quartet No 1.

The early start time of 6pm will be appreciated by many who come straight from work, enabling concert-goers to dine afterwards in the many restaurants and cafes in the East End or with the ASQ at the Art Gallery Cafe. These after-concert three-course dinners at the Art Gallery Cafe are sure to prove popular. Concert goers, sponsors and musicians will all dine together with the Quartet—enjoying the fine food of Cath Kerry and the very fine wines from Petaluma.

The ASQ is offering a special "latecomers subscription" for the last three concerts in the Adelaide Subs Series. Three fabulous concerts for \$96 (\$64 concession/\$32 student). Dinner subscriptions for these three concerts are also available at \$256 per person, which include a three-course meal and a glass of fine wine to accompany each course. Single tickets for Concert 2 can be purchased for \$33 (\$22 concession/\$11 under 26). Call BASS on 131 246, or for more information about the ASQ series call Freecall 1800 040 444.

—Tom Carrig, ASQ

Maestros and Apprentices shine

STUDENT talent, filmmakers and spectacular jewellery will all be showcased in this year's annual "Maestros and Apprentices" black tie dinner on 26 May at the Adelaide Convention Centre.

The annual dinner raises funds for the Helpmann Academy's twice-yearly grants scheme, which offers assistance for projects to students, graduates and staff of the Academy's seven partner schools.

To be auctioned at the dinner is a stunning piece of jewellery (pictured) designed by Justine Heinrich, an honours graduate from the South Australian School of Art, and manufactured by John Campbell.

The pendant has been created in pink and yellow 18ct gold, and platinum with eight yellow-and-white Argyle diamonds and three large champagne-coloured pearls, suspended on an 18ct yellow gold cable chain.

Entertainment throughout the evening will be supplied by students from the Helpmann Academy's partner schools.

A Masters student and winner of the University Medal at his graduation in April this year, Leigh Harrold opens the Adelaide

University Elder Conservatorium section of the entertainment program, with a solo piano performance of "St Francis of Paola Walks on the Waters" by Franz Liszt.

The piece is a virtuosic tone poem depicting the legend of St Francis of Paola who, "having been refused a ferry ride due to poverty, invoked the glory of God and spreading his cloak across the water and holding one end of it up like a sail, floated across the sea. The ferryman, overcome with awe, dropped to his knees and begged for God's forgiveness".

The story's romantic nature is not lost on Liszt, who crams the piece full of grand gestures, expansive rhetoric and sumptuous harmonies, before concluding with a larger-than-life finale.

Guest speaker at the dinner will be internationally acclaimed Australian filmmaker Scott Hicks, who directed "Shine" and "Snow Falling On Cedars".

Tickets to "Maestros and Apprentices" include a four-course dinner, all wines and entertainment for \$120. For more information call (08) 8303 3692.

—Sheila Bryce, Helpmann Academy



Adelaide University graduate and University Medallist Leigh Harrold.

Elder Con's 2000 concert series "world class"

THE 2000 Elder Conservatorium Concert Series in Elder Hall presents a series of five superb evening concerts in a showcase of the Conservatorium's finest musicians and ensembles.

World-renowned conductor Nicholas Braithwaite conducts the opening concert on Saturday 3 June, featuring the Elder Conservatorium Symphony Orchestra performing Berlioz's "Symphonie Fantastique", one of the great Romantic milestones of classical music.

Acclaimed internationally for its interpretive finesse, the Australian String Quartet performs a powerful and passionate chamber concert on Saturday 29 July. The program includes Wolf's "Italian Serenade" and the recently commissioned String Quartet No. 2 by Australian Roger Smalley, with Schubert's "Death and the Maiden" providing a power-packed finale to this magnificent evening.

"A World of Jazz" on Thursday 24 August presents a spectacular triple bill. The vocal jazz ensemble, the Adelaide Connection directed by Connaire Miller, and the University of Adelaide Big Band directed by Hall Hal are joined by the Horingo Ensemble, making its series premiere. These groups will explore a myriad of musical influences in the name of jazz—from Latin, African, World music, Brazilian, blues and swing, from classical to ragtime—a night of virtuosic performances not to be missed.

Concert 4 on Saturday 9 September features one of Australia's finest wind groups, the Elder Conservatorium Wind Ensemble conducted by Robert Hower. As one of only 16 ensembles selected from a field of 60 worldwide, it has been invited to perform at the prestigious 10th World Association for Symphonic Bands and



Ensembles (WASBE) Conference in Switzerland in July 2001. This concert presents this outstanding ensemble at their best as a prelude to their international premiere.

"Symphonic Stories" provides the theme for Concert 5 on Friday 27 October, featuring the Elder Conservatorium Symphony Orchestra conducted by Nicholas Braithwaite. Richard Strauss' symphonic poem "Till Eulenspiegel" tells the story of a peasant clown in a series of musical episodes, while "Kakadu" by Peter Sculthorpe evokes the beauty, desolation and splendour of the Australian landscape. The series concludes with Tchaikovsky's Fourth Symphony, one of the most important pieces in the Western canon of orchestral music.

This world-class series is sponsored by Orlando Trilogy wines. Subscriptions are available in packages of three or six concerts—call BASS Subscriptions on 8400 2277. Booking brochures and tickets for single concerts are also available through all BASS outlets.

—Di Kidd, Elder Hall Concert Manager

Benefits for Alumni Members

ADELAIDE University's Alumni Association is offering its members special rates for the 2000 Elder Conservatorium Concert Series.

Current Alumni Association members, on presentation of their membership card, can purchase a subscription package at the following concession prices: three concerts at \$40.70 (including Concert 1) or \$42.00 (excluding Concert 1), or the full series of five concerts at \$58.90. Please note: only one ticket per cardholder per concert.

Alumni Association members who have a "Services Package" will be issued with a printed ticket voucher which entitles them to one free ticket per concert. Other entitlements include purchase of an extra ticket for any of the concerts at the single concert concession price of \$14.50 before 1 July or \$16.00 after 1 July. This voucher can be exchanged by the bearer for a ticket not less than four days before each concert and only at the BASS outlet at the Adelaide Festival Centre.

Please note that all prices quoted above include the GST where applicable. For additional information regarding this concert series and ticket concessions for Alumni Association members, contact Julie Vozzo at the Alumni & Community Relations Office, 44 Kintore Avenue, Adelaide University, (08) 8303 5800.

ACCOMMODATION

EDEN HILLS: Modern house 3 br, study, 2 bath on half acre landscaped block. Fully furn, gardener, lawns, electricity and water incl, phone avail. 5 min walk to train, 5 min bus to Flinders Uni. Avail July for 6 months \$300 pw. Ph 8370 0589.

FAIRVIEW PARK: House-mate wanted to share 3 br, close to transport, prefer worker or mature age/ post grad student, non-smoker, tidy person. \$60 pw plus exp (excl water). Ph Emma 8288 7219 (h) or email <emoore@medicine.adelaide.edu.au>.

KENSINGTON PARK: Charming 2 bed cottage, suit academic, fully furn., ideal park location off Norwood Parade. Buses to city and Uni. Ph 8332 6928 or email <hunsdon@chariot.net.au>.

KENSINGTON PARK: Female, non smoker, to share house with same. Own lounge/ ph number/br, share facs, 1-up garage, quiet area. \$95 pw + exp. Ph 8332 9973.

SECOND VALLEY: Holiday house, weekend or weekly rental. Sea and rural views, wonderful in winter, short drive to Deep Creek Conservation Pk. Ph Dianne 8379 6510.

Adelaidean CLASSIFIEDS

ST MARY'S: Fully furn and equipped 1 b/r house with double study. A/C Pleasant garden. Near Flinders and on bus route to Adelaide Uni. Avail 12 July for 1 year. \$240 pw. Ph 8276 4006.

SWITZERLAND: Furn flat, 4km from Interlaken, on lake with view of Alps. 2 br, large lounge, can sleep up to 6. Available for one week or more. Ph Liliane 8362 4243.

TENNYSON: Absolute beachfront house, fully furn.

3 br. Avail now for 6-8 months. \$220 pw neg. Ph 8269 2892 or Fax 8269 4148.

FOR SALE

BATTERY: Century N70ZSS car/boat cranking battery. Rated 600CCA. 1 year old. Test report avail. Suits large 4WD's or boat application. \$50. Ph David 8303 4558.

DINING TABLE AND CHAIRS: Glass top round dining table and 4 chairs. VG cond. \$250. Ph. 8204 7565

or email <casmith@medicine.adelaide.edu.au>.

MISC: 4 drawer steel filing cabinet with file frames and folders, \$90. Foldaway luggage carrier, \$20. Motorola 8400 mobile phone with car charger, \$40. Ph 8363 9198 or email <jraftery@camtech.net.au>.

MITSUBISHI COLT: 1989, very reliable & regularly serviced, auto, a/c. VFT 350. \$2,300 ono. Ph Ian 8303 7379 or email: <isingleton@waite.adelaide.edu.au>.

VOLVO: 1982, white, blue interior, a/c, new tyres, exc cond. VLP 813. \$2900 ono. Ph Jim 8302 3752.

WARDROBE: Aust hardwood wardrobe with hanging space & drawers. \$100. Ph 8204 7565 or <casmith@medicine.adelaide.edu.au>.

DEPARTMENTAL

FUME CUPBOARD: Filtration type, Astecair 3000 - purchased 87. Ph Mick 8222 6849.

MISCELLANEOUS

CHILD CARE/NANNY: Babysitter wanted 2 days pw starting June. Ph Marc 8303 5399 or 8271 4494 (ah) or email <marc.lemire@adelaide.edu.au>.

Bulletin Board

MAY 22, 2000

ADELAIDE UNIVERSITY

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MONDAY 22 MAY

11.00am Politics Seminar: Reconciliation & Gift-Giving by Pal Ahluwalia. Common Room, 4th Floor, Napier Building.

12noon Plant Science Seminar: Characterisation and mapping of chromosome regions conferring improved growth and yield of barley on sandy soils of low fertility by Mr Nigel Long (PhD student). PS Seminar Room, Waite.

1.00pm Microbiology & Immunology Seminar: Genetic characterisation of toxic cyanobacteria (blue-green algae) by Dr Chris Saint (SA Water). Library, 5th Floor, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: Hydralazine: new actions for an old drug by Dr Phil Burcham (Clinical & Experimental Pharmacology). Seminar Room, 6th Floor, Medical School, North Wing.

1.10pm Law Seminar: Housing Law by Kath McEvoy. Room 216, Ligertwood Building.

1.10pm Student Workshop: Learn deep relaxation by Mark O'Donoghue; Relationships by Susan Howard. Counselling Cen, Grnd Flr, Horace Lamb Bldg.

1.10pm History Staff/Postgraduate Seminar: The ghost who ran a sugar factory by Dr Roger Knight (History). Common Room 420, 4th Floor, Napier Building.

3.30pm ACUE Seminar: The quality of learning: Memories of early experiences of maths by Christine Ingleton (Educational Development, ACUE). Seminar Room 2, Level 2, Schulz Building.

TUESDAY 23 MAY

1.10pm Student Workshop: Surviving a PhD by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

3.15pm Anthropology Seminar: Provincializing Europe by Prof Dipesh Chakrabarty (South Asian Language & Civilization, University of Chicago). Room 722, 7th Floor, Napier Building.

7.30pm Musicological Society of Aust/The Elder Conservatorium, School of Performing Arts Seminar: The role of the violin in early 17th century Italian instrumental ensemble music by Dr Julia Szuster; Ideology, authenticity and the canon: The first published version of Bruckner's Ninth Symphony by Mr John Phillips. Rm 1107, Level 11, Schulz Bldg.

WEDNESDAY 24 MAY

12.10pm Recitals Australia 2000 Autumn Series: Jeffrey Kong & Berenice Harrison - 2 pianos; Leigh Harrold - piano. Adults \$3/Conc \$1. Pilgrim Church, 12 Flinders St, Adelaide.

1.10pm Geology & Geophysics Seminar: Global Lightning Studies and Groundwater Detection (current research projects in electromagnetism) by Dr Graham Heinson (Geology & Geophysics). Mawson Lecture Theatre, Mawson Laboratories.

1.10pm Genetics Seminar: Casper Groth and Jason Powell - PhD proposals. Seminar Room, Ground Floor, Fisher Building (southern entrance).

4.00pm Physiology Seminar: Autonomic ganglia - why do we need them? by Prof Ian Gibbins (Anatomy, Flinders Medical Centre). Seminar Room N416-N417, Medical School North. Light refreshments served afterwards.

COMING EVENTS

May 22nd - June 4th

4.30pm Environmental Biology Seminar: Rabbits, sheep, cattle and mulga by Dr Fleur Tiver (UniSA). Seminar Room, 4th Floor, Fisher Building.

6.30pm Australian Institute of International Affairs Talk: The South African Reconciliation Process by Ms Anika Johnstone (Politics). Union Cinema, Level 5, Union House.

THURSDAY 25 MAY

12noon HCCR Seminar: ATM: Complex control in multiple pathways by Professor Martin Lavin (Queensland Institute of Medical Research, Royal Brisbane Hospital). Robson Theatre, Eleanor Harrald Building, RAH.

12.05pm Psychology Seminar: Decision processes and memory by Dr Doug Vickers (Psychology). Room 527, Hughes Building.

1.10pm Physics & Mathematical Physics Seminar: Slow light and what to do with it by Dr Andrew Greentree (The Open University, UK). Kerr Grant Lecture Theatre, Physics Building.

6.00pm Adelaide University Labor Club/The Don Dunstan Foundation Light-Hearted Public Debate: That the Labor Party is no longer the workers' party. Panel members: Anthony Durkin, Linda Kirk, Anne Levy, Jane Lomax-Smith, Tim Stanley and Penny Wong. Lecture Theatre 102, Napier.

FRIDAY 26 MAY

10.00am Animal Science Seminar: Visions for the Sheep Industry Development Centre by Cheryl Pope (Project Manager, sheep Industry Development Centre). Room 12, Callaghan Building, Roseworthy Campus.

10.00am Social Inquiry Seminar: Labour Studies - Explaining Australian workers' compensation 'reforms' by Kevin Purse. 11.00am Gender Studies - Feminist theories of news media research by Kathie Muir. Seminar Room, Level 3, 10 Pulteney Street.

1.00pm Biochemistry Seminar: Regulation of cell cycle progression by protein phosphorylation by Dr Boris Sarcevic (Garvan Institute). Seminar Room, 2nd Floor, Darling Building.

1.00pm Asian Studies Seminar: Post-Mao New Poetry: Occidentalism by Dr Xianling Song. Room 518, Level 5, Ligertwood Building.

1.10pm Elder Conservatorium Lunch Hour Concert: Elder Conservatorium Chamber Orchestra, Semyon Kobets - artistic director, Janis Laurs - conductor. Works by Schoenberg and Vivaldi. \$3 at the door. Elder Hall.

1.15pm Inaugural Lecture: Percy Grainger as essayist by Professor Malcolm Gillies (Executive Dean, Humanities and Social Sciences). Lecture Theatre G04, Napier Building.

2.00pm Public Lecture: Why I did it and what happened by Fran West (first woman to fly a fixed-wing aircraft around the coast of mainland Australia & Tasmania). Florey Lecture Theatre, Medical School, North Wing.

4.00pm Obstetrics & Gynaecology Seminar: Inhibin and Activins in Pregnancy: Transforming growth factors

transforming outcomes by Dr Euan Wallace (Obstetrics & Gynaecology, Monash Medical Centre, Monash University). Seminar Room, 6th Floor, Medical School, North Wing.

MONDAY 29 MAY

11.00am Politics Seminar: An Italy of Asiatic Dimensions: 19th century Italy as a model for 21st century India by Peter Mayer. Common Room 420, 4th Floor, Napier Building.

12noon Plant Science Seminar: Oxidative Stress and Plants: Possible Strategies in Improving Tolerance by Dr Arun Aryan (Plant Science). Charles Hawker Conference Centre, Waite.

1.00pm Microbiology & Immunology Seminar: Meiotic recombination in *Neurospora crassa*: pure research with commercial implications by Dr Jane Yeadon (Biological Sciences, Flinders University). Departmental Library, 5th Floor, Medical School South.

1.10pm Law Seminar: Positivism and the rule of law by Leighton McDonald. Room 216, Ligertwood Bldg.

1.10pm History Staff/Postgraduate Seminar: One Hundred Years of Malaysian History by Dr Peter Burns (History). Common Room 420, 4th Floor, Napier Building.

2.00pm English Staff/Postgraduate Seminar: The Girl of the Period: Girls, Culture and Crisis in Joyce's Fiction by Dr Catherine Driscoll (English); London, Babylon, Adelaide, confusion signifying: C17the Prophecy, C21st Neurosis by Paul Lobban (English). Room 618, Napier Building.

3.30pm ACUE Seminar: The outcomes of an international education for Indonesian graduates by Associate Prof Bob Cannon (Director, ACUE). Seminar Rm 2, Level 2, Schulz Building.

8.00pm The Fourth Galatis Annual Byzantine Lecture & Prize Ceremony: Our Image of a Byzantine Emperor: Constantine VII Porphyrogenetos by Dr A Moffatt (ANU). Council Room, 7th Floor, Wills Building. Drinks 7.30pm. RVSP: 8303 5638.

TUESDAY 30 MAY

1.10pm Student Workshop: The perfect procrastinator by Sally Hebenstreit. Counselling Centre, Ground Floor, Horace Lamb Building.

3.15pm Anthropology Seminar: Dancing with Snakes: the Poetic Politics of Aboriginal Dance in the Face of the Whites by Fiona Magowan. (Anthropology). Room 722, 7th Floor, Napier Building.

WEDNESDAY 31 MAY

9.30am The Enterprise Education Group Free Public Seminar: Intellectual Property by Dr Malcolm Campbell (Managing Director/Owner Abcon Management Services). Lecture Rm, Bldg 16, Thebarton.

10.10am Electrical & Electronic Engineering Seminar: A Direction Sensitive Model of Atmosphere Noise by Associate Professor Chris Coleman. Room EM212, New Engineering & Maths Bldg.

12.10pm Recitals Australia 2000 Autumn Series: Robin Higgs - piano; Irina Lioubimova - piano. Adults \$3/Conc \$1. Pilgrim Church, 12 Flinders Street, Adelaide.

12.30pm Clinical Nursing Seminar: Care of Dying Patients in Acute Care Settings by Dr H McCutcheon (Lecturer, Clinical Nursing). Room 36, Level 3, Eleanor Harrald Building, RAH.

1.10pm Genetics Seminar: Title to be announced, by Dr R D'Andrea. Seminar Room, Ground Floor, Fisher Building (southern entrance).

1.30pm The Enterprise Education Group Free Public Seminar: Business start-ups by Leonie McKeon (Owner, Chinese Cultural & Language Advice). Lecture Room, Building 16, Thebarton.

4.00pm Physiology Seminar: Problem based learning: just a fashion or does it perform? by Dr Adrian Bower (James Cook University). Seminar Room N416-417, Medical School North.

4.30pm Environmental Biology Seminar: The opportunity and challenges of conducting ecological research in urban and suburban environments by Dr M MacDonnell (Botany, Uni of Melbourne). Seminar Room, 4th Floor, Fisher Building.

THURSDAY 1 JUNE

12noon HCCR Seminar: FibroGen: Connective Tissue Growth Factor (CTGF) and renal fibrosis by Dr M DeNichilo (Bresagen Limited). Robson Theatre, Eleanor Harrald Building, RAH.

12.05pm Psychology Seminar: Inspection time: an "elementary" task? Apparently not by Dr Nick Burns. Room 527, Hughes Building.

1.10pm Student Workshop: Effortless Exams by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb Building.

FRIDAY 2 JUNE

10.00am Animal Science Seminar: Genotype x environment interactions in wool characteristics of Merino sheep by M Yamin (PhD student). Conference Rm, Davies Building, Waite.

10.00am Social Inquiry Seminar: Labour Studies - Title/speaker to be advised. 11.30am Gender Studies - Title to be advised, by Donna Chung. Seminar Room, Level 3, 10 Pulteney Street.

1.10pm Elder Conservatorium Lunch Hour Concert: Nick Parnell - percussion, Leigh Harrold - piano (1999 Elder Conservatorium Classical Musical Awards winners). Works by Feld, Prokofiev, Schmitt, Rosauero & Green. Admission \$3 at the door. Elder Hall.

1.15pm Inaugural Lecture: Culture, emotion and illness by Professor Robert Barrett (Psychiatry). Lecture Theatre G04, Napier Building.

4.00pm Obstetrics & Gynaecology Seminar: Relaxin in human pregnancy by Dr P Kristiansson (Obstetrics & Gynaecology, WCH). Seminar Room, 6th Floor, Medical School, North.

SUNDAY 4 JUNE

7.30pm Jazz Series 2000: The Peter Raidel Quartet present a mix of originals and standards plus Serenity Now featuring Michael Kay (saxophone). Governor Hindmarsh Hotel, 59 Port Road, Hindmarsh. Tickets \$12/\$8 conc. Bookings and enquiries: Margaret Reines 8303 4339.

SITUATIONS VACANT

For further information about the following vacancies please refer to Human Resources' Web page at <<http://www.adelaide.edu.au/HR/advpos.htm>> or the contact person named in the advertisement.

Please note that applications, in duplicate, addressing the selection criteria and quoting the relevant reference number should include names and full addresses of three referees. The address for applications is C/- the Department or Officer named in the advertisement. **Selection criteria and applicable duty statements may be obtained from the contact officer named in the advertisement.**

Applications for the following vacancy will be considered only from members of the staff of the University*

COMPUTING OFFICER (Ref: 4380) (Continuing)
Department of Civil and Environmental Engineering
Salary: HEO7 \$43,478 - \$48,779

This continuing position is available immediately. Further information, including the duty statement and selection criteria, may be obtained from Mr Trevor Daniell, Head of Department, tel 8303 5135, fax 8303 4359 or email <trevor.daniell@adelaide.edu.au>. Further information on the Department may be obtained on the website: <<http://www.civeng.adelaide.edu.au>>. Applications close 2 June 2000.

RESEARCH ASSISTANT (Ref: 2974) (Fixed-term)
Department of Plant Science, Waite Campus
Salary: HEO3 \$27,174 - \$30,979
*Junior rates apply to those persons 20 years of age and under

This fixed-term position is available from 1 July 2000 to 30 June 2001. Further information from Dr Vivien Vanstone, tel 8303 7456, fax 8303 7109 or e-mail <vivien.vanstone@adelaide.edu.au>. Applications close 26 May 2000.

GENERAL LIBRARY ASSISTANT (Ref: 2130) (Continuing)
The University of Adelaide Library
Salary: HEO2 \$25,815 - \$27,445*
*Junior rates apply to those persons 20 years of age and under.

This continuing position is available immediately. Further details from Tina Hardin, tel 8303 5370 or email <tina.hardin@adelaide.edu.au>. Applications close 29 May 2000.

*includes only those persons who hold current written contracts of appointment with the University.

Applications for the following vacancies are not restricted to members of the University.

TENURABLE LECTURER/ SENIOR LECTURER IN STRUCTURAL ENGINEERING (Ref: 10380)

Department of Civil and Environmental Engineering
Salary: Lecturer \$49,249 -

\$58,484/Senior Lecturer \$60,329 - \$69,564

These positions are available immediately. Further information concerning the duties of the positions may be obtained from Mr Trevor Daniell, Head of Department, tel 8303 5135, fax 8303 4359 or email <trevor.daniell@adelaide.edu.au>. Further details of the Department are available on <<http://www.civeng.adelaide.edu.au>>. Applications close 23 June 2000 to the General Manager, Human Resources.

TENURABLE LECTURER IN ENVIRONMENTAL ENGINEERING (Ref: 10379)

Department of Civil and Environmental Engineering
Salary: \$49,249 - \$58,484.

This position is available immediately. Further information concerning the duties of the position from Mr Trevor Daniell, Head of Department, tel 8303 5135, fax 8303 4359 or email <trevor.daniell@adelaide.edu.au>. Further details of the Department are available on <<http://www.civeng.adelaide.edu.au>>. Applications close 23 June 2000 to the General Manager, Human Resources.

TENURABLE LECTURER IN GEOGRAPHIC INFORMATION SYSTEMS (Ref: 7657)

Department of Soil and Water, Waite Campus
Salary: \$49,249 - \$58,484

This tenurable position is available immediately. Further information including the selection criteria, may be obtained from Professor Sally Smith, tel 8303 7210 or email <sally.smith@adelaide.edu.au>. Applications close 13 June 2000 to the General Manager, Human Resources.

RESEARCH ASSOCIATE/ POSTDOCTORAL FELLOW
Fault Seals to Hydrocarbon Reservoirs

(Ref: 10365) (Fixed-term)
Salary \$38,414 - \$46,786
(*A minimum of \$43,584 is payable to the holder of a PhD)

RESEARCH FELLOW
Geological Disposal of Carbon Dioxide
(Ref: 10366) (Fixed-term)
Salary \$49,249 - \$54,484
National Centre for Petroleum Geology and Geophysics

These fixed-term positions are available from 1 July 2000 for a period of 2 years. Further information from Professor Richard Hillis, tel 8303 4299, fax 8303 4345 or email <rhillis@ncpgg.adelaide.edu.au>. See also <<http://www.ncpgg.adelaide.edu.au>>. Applications close 9 June 2000.

SENIOR ASSESSOR (Ref: 3368) (Continuing)

South Australian Tertiary Admissions Centre
Salary: HEO7 \$43,478 - \$48,779

This continuing position is available

immediately. Further information including duty statement and selection criteria, should be obtained from Gail McGie, tel 8224 4039 or email <gail.mcgie@satac.edu.au>. Applications close 5 June 2000.

SCHOOL EXECUTIVE OFFICER (Ref: 6898) (Continuing)
School of Economics
Salary: HEO7 \$43,478 - \$48,779

This continuing position is available immediately. Further information may be obtained from Associate Professor Colin Rogers, Dean, School of Economics, email <colin.rogers@adelaide.edu.au>. The duty statement and selection criteria from Ms. Melissa Gibbs, tel 8303 5717, fax 8223 1460 or email: <melissa.gibbs@adelaide.edu.au>. Applications close 2 June 2000.

STUDENT SERVICES POLICY OFFICER

(Ref 7218) (Continuing)
STUDENT SERVICES PROJECT OFFICER
(Ref: 10362) (Fixed-Term)
Student Services Policy Branch
Salary: HEO7 \$43,478 - \$48,779

Both positions are available from 5 June 2000. Further information from Ms Pamela Cook, tel 8303 5882 or email: <pamela.cook@adelaide.edu.au>. Applications close 2 June 2000.

POSTGRADUATE SECRETARY (Ref: 6882) (Fixed-Term)
Department of Public Health
Salary: HEO3 \$27,174 - \$30,979

The position is available immediately until 31 December 2000. Further information from Mrs F Kalambokas, tel 8303 3563 or email: <florence.kalambokas@adelaide.edu.au>. Applications close 29 May 2000.

RESEARCH SUPPORT AND ADMINISTRATION OFFICER (Ref: 4697) (Continuing)
Salary: HEO 3 \$27,174 - \$30,979

CLERICAL SUPPORT (Ref: 4662) (Continuing)
Salary: HEO2 \$25,815 - \$27,445*

*Junior rates apply to those persons 20 years of age and under.

Research Branch

These continuing positions are available immediately. Further information including the duty statement and selection criteria may be obtained from Mrs Coleen Roddam, tel 8303 5137 or email: <coleen.roddam@adelaide.edu.au>. Applications close 29 May 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 5 June 2000 advertising paper work must be received in Human Resources by 19 May 2000.

For the *Adelaidean* of 19 June 2000 advertising paper work must be received in Human Resources by 2 June 2000.

GENERAL NOTICES

Payroll Services: update

PAYMENT FORMS & CHANGES

Due to a system upgrade required for Group Certificate purposes and the end of the financial year, Payroll Services would like to remind all staff of the need to have casual forms and pay changes, eg bank authority changes & overtime claims, in by the deadlines set out below.

The following standard deadlines apply in June and will be adhered to:

Deadline	for	Payday
10 am Tuesday 23 May		2/6/00
10am Tuesday 6 June		16/6/00
10am Tuesday 20 June		30/6/00

Faxes will only be accepted by NON North Terrace Campuses and must also be received by 10am on the Tuesday.

Your help and cooperation is appreciated.

GROUP CERTIFICATES

As you are no doubt aware, the University has undertaken a major upgrade of its Information Technology systems in 1999 and 2000, including the introduction of a new Human Resource/Payroll system. As a consequence of changing to a new system part way through a financial year, there will be changes to the issuing and distribution of Group Certificates for the 1999/2000 financial year.

Staff who have been paid in both the previous system (Legacy) and the new system (Peoplesoft) will receive two (2) Group Certificates this financial year. The certificates will look very different from each other and will have different payment details. The Legacy Group Certificate will have details of payments made up to and including 5 November 1999, while the Peoplesoft Group Certificate will cover payments made from the 6 November 1999 onwards.

Both certificates will need to be included in your taxation return.

The Legacy system certificate will be distributed to departments for all current staff. The Peoplesoft certificate will be posted to your home address.

Staff who have been paid only in Peoplesoft will receive one Group Certificate which will be posted to your home address. Former employees of the university who were paid only in Legacy will receive one Group Certificate that will be posted to their home address.

The Legacy system certificate will be printed on Australian Taxation Office stationery while the Peoplesoft certificate will be printed on A4 paper. Both forms comply with Australian Taxation Office requirements.

It is anticipated that the certificates will be distributed during early July. This is a little later than in previous years, but still within Australian Taxation Office guidelines.

Staff who have recently changed their home address should complete a Change of Name/Address form which is on the Human Resources Web site (www.adelaide.edu.au/HR/forms). Should you have any questions please contact Human Resources on 35666.

A PHILBEY
A/g Manager, Payroll Services

GST and postgraduate scholarships

All academics who fund postgraduate scholarships which are indexed to the Australian Postgraduate Award/University of Adelaide Scholarships/Australian Postgraduate Award (Industry) rates should be advised that following advice received from DETYA, all stipends/allowances will increase with effect from 1 July 2000 as follows:

Base Stipend:	\$17,071pa
Priority/Industry:	\$22,030pa
Thesis allowances:	Masters: \$415 PhD: \$830

Missed the deadline?

For all the latest news see the online bulletin boards at <<http://online.adelaide.edu.au>> available to staff and students of the University.

The Stephen Cole the Elder Prize for Excellence in Teaching 2000

The Stephen Cole the Elder Prizes for Excellence in Teaching recognise and reward outstanding teaching. The prizes are awarded annually to academic staff whose teaching is regarded by students and academic colleagues as being of excellent quality.

Applications are invited for the 2000 Stephen Cole the Elder Prizes for Excellence in Teaching at the University of Adelaide. Three prizes will be awarded for undergraduate teaching, one of which will be awarded to an applicant in the first five years of their teaching career, and one award will be made for postgraduate teaching. Each prize will consist of a monetary award of \$5,000 and a certificate presented at the appropriate commemoration ceremony. The prize money is to be used by the winners to help them with the further development of their teaching activities.

Each winner will be required to agree with the Deputy Vice-Chancellor (Education) on appropriate form of dissemination of their achievements in teaching (which might include a seminar, an article for the *Adelaidean* and/or a web-page article). Candidates with at least two years' service to the University in a teaching position are eligible for nomination by their students and academic colleagues. Teaching groups may also be nominated.

Nominations will be considered by a selection committee convened by the Deputy Vice-Chancellor (Education) and consisting of student and academic staff representatives.

Nominations are now sought for The Stephen Cole the Elder Prizes for Excellence in Teaching for 2000. Guidelines and nomination forms can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Rm G04, Mitchell Building, ext 35511, fax: 35150, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's web-site: <http://www.adelaide.edu.au/DVC/quality/stephen_cole_prize.html>.

Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by Monday 5 June 2000.

PENNY BOUMELHA
Deputy Vice-Chancellor (Education)

Women's Professional Development Network (WPDN)

The WPDN is a development initiative for all women general staff of Adelaide University. It focuses on issues affecting the professional and personal development needs of women general staff.

The WPDN runs a variety of activities including breakfasts, lunchtime speakers and workshops. For more information, visit our web site at:

<<http://www.adelaide.edu.au/wpdn>>

or contact Sam Jacob <sam.jacob@adelaide.edu.au>, ext 34201, or Danielle Hopkins <danielle.hopkins@adelaide.edu.au>, ext 33937.

COMING EVENTS

Breakfast

- 8.00am on Thursday 15 June
- 8.00am on Friday 14 July at the Union Gallery Coffee Shop.

Lunchtime Speaker

- Monday 5 June. Venue and speaker details will be on the web site. Free event of 1 hour duration, bring your lunch.

Sunday afternoon concert

On Sunday 11 June at 2.30pm at 65 Watson Avenue, Rose Park. Tickets \$12 at the door; afternoon tea provided.

Lisbeth Rutter - pianoforte,
Kimberley Mann - piano,
Addrienne Eccles - appalachian dulcimer and folk songs.

RVSP: The Magdalene Centre
8232 6898.

Inaugural Lectures

Fridays 1.15pm, Lecture Theatre G04, Napier Building.

26 May: Percy Grainger as essayist by Prof Malcolm Gillies (Executive Dean, Humanities & Social Sciences)

2 June: Culture, emotion and illness by Prof Robert Barrett (Psychiatry)

Professional & Continuing Education courses

Professional and Continuing Education is presenting the following professional development courses.

The cost for Adelaide University staff for these one-day programs is \$208.

Risk Management

02PD1011
Wednesday 24 May 2000

Leading Change

02PD1016
Tuesday 30 May 2000

Project Management

02PD1018
Thursday 1 June 2000

From Team Member to Team Leader

02PD1030
Wednesday 7 June 2000

Interpersonal Communication for Success

02PD1039
Friday 9 June 2000

Contact Nadia Tarasenko, 8303 4777 to enrol or for further information.

On-line advertising service

SEEK Communications has recently been selected by the AVCC as the successful provider of on-line advertising for Australian universities. Use of the service has been endorsed formally by Adelaide University.

SEEK is a premier Internet recruitment site in Australia, and has already entered into successful partnerships to provide tailored advertising services.

SEEK Communications will set up a specialised website for university job advertisements, called UniJobs. This site will permit interested applicants to browse on-line advertisements and includes the capacity for individuals to search for advertisements by preferred criteria (eg by location or by occupation classification). In time, the service will allow applicants to lodge applications electronically, through the email system.

Departments may utilise UniJobs as part of their advertising strategy to complement/replace external advertising in the print media. All advertisements on UniJobs will be placed through Human Resources. Staff will be available to assist departments in the development of advertisements and to provide advice on lodgement.

To encourage universities to take up this service and to quickly build up the critical mass needed for success, SEEK is offering a half price discount until the end of 2000.

Cost per advertisement: \$30 (will normally be \$60)

Period of display: 28 days

It is anticipated that the service will commence mid-year. Briefing sessions will be conducted around the University in the coming weeks. For further information, contact Kathie Hurst or Lee Jones in Human Resources, ext 35666.

STEVE DAYSH
General Manager, Human Resources

Car Parking Update

Car Parking: for Guests

All vehicles parked on campus must show a valid permit or a valid ticket. Hand written notices or copies of invitations to functions are not acceptable.

If you are organising a function and it is reasonable (essentially any University business meeting, conference of the like) to provide parking for guests this must be specifically organised. Temporary Parking Permits can be obtained by lodging a request at the Property Services home page at <<http://www.psb.adelaide.edu.au>> and following the prompts. We would prefer at least a days notice for the issue of temporary permits. Ideally these should be included in your invitation to your guests.

For functions that commence after 4.45pm tickets can be obtained from the ticket machines located in the Underground Car Park, in gate 10 and in gate 13. Tickets costs \$4.00 and provide parking until 8.00am the next day. This is the preferred option for events that are not University business but are using University facilities. The University does not provide free parking as part of facilities hire.

Underground Car Park: Changes to Ticket Machine

A new ticket machine has been purchased and will be installed and be operational on the upper level of the Underground Car Park by the time you read this.

The existing ticket machine will be re-located from its present location outside Bonython Hall to the lower level of the Underground Car Park between 16 and 26 May 2000. This will coincide with new signage relating to the use of these machines. The new procedure will be to park, obtain a ticket from the machine and then display the ticket in the vehicle. This is the same procedure as for parking in the Adelaide City stress and some of the Adelaide City car parks.

A sign detailing the parking procedure will remain at the existing ticket machine location for possible 6 months. An attendant will be required for after hours events until the end of June 2000. After which the car park will be able to operate unattended. The attendant booth will then be removed.

CARL BRADNEY
Manager, Car Park

FLINDERS UNIVERSITY ACADEMIC AND STUDENT SERVICES DIVISION

International Student Services Unit

Coordinator

HE07 - \$42,180 - \$45,344 pa continuing

Ref: 00098. Available immediately, the appointee will be required to support the welfare of international students; implement various programs to ensure the smooth integration of international students on to the campus and into the community, and provide the first of contact for issues facing international students.

Further information, including position documentation, must be obtained from Ms Helen Herreen, Health & Counselling Unit, phone 8201 2117, fax 8201 3154 or email: <Helen.Herreen@flinders.edu.au>.

Applicants must address the selection criteria in the documentation. Applications, **quoting the reference number**, and giving qualifications, experience and the names, addresses and facsimile numbers/email addresses of three referees of whom confidential enquiries may be made, should be lodged with the Manager, Human Resources, Flinders University, GPO Box 2100, Adelaide, SA 5001, or fax 8201 3131 **by 5.00pm Monday 29 May 2000.**

Kathleen Lumley College

Is the postgraduate residential college of the University. The College has 2 small flats and 2 single study bedrooms (with bathroom) available for short and medium term visitors to the Uni.

Contact Allyson Sandham, tel 8267 3270, fax 8239 1705, email: <klc@adelaide.edu.au>.



Barr Smith Library tours

Join a free 30 minute guided tour on the first Thursday of every month. Ideal for staff, postgraduates or honours students unfamiliar with the layout, collections, resources and services of the Barr Smith Library. RSVP to Jennifer Osborn (Reference Services). Max of 12 per group. Tel: 8303 3706 Email: <jennifer.osborn@adelaide.edu.au>.

Web re-development

Check out <<http://www.adelaide.edu.au/pr/webdev>> for an update on the University's web scoping project.

Research Branch: Positions vacant and ARC grants

POSITIONS VACANT IN THE RESEARCH BRANCH

If you are interested in working in a role where you can assist in helping the University to achieve its research goals check out the ads for vacant positions at HEO2 and HEO3 level in the Situations Vacant page of this edition of the *Adelaidean*.

In addition the Branch is looking urgently for enthusiastic and reliable staff to fill the two following casual contract positions:

Research Grants Officer (HEO 6): to relieve the Grants Officer responsible for NHMRC programs and other health and medical research grant programs for a minimum of 3 days a week;

Administrative and Data Support Officer (HEO4): to coordinate data entry for the operation and maintenance of research-related data bases, oversee the promotion of grant opportunities in the University and assist in the update, maintenance and enhancement of the Research Branch website. Required for 2 to 3 days a week.

In both cases the positions are available immediately for

the remainder of 2000. Documentation relating to these positions from Coleen Roddam (ext 35137) and enquiries or requests for further information to Cyril Brown (ext 33534).

AUSTRALIAN RESEARCH COUNCIL (ARC) GRANTS FOR 2001

Research Infrastructure Equipment and Facilities Scheme: Final applications for this scheme are due in the Research Branch by no later than Friday 26 May. Application forms and guidelines are on the Research Branch website and further information is available from Sondra Gould on ext 33387.

Indigenous Researchers Development Scheme: The key objective of this scheme is to develop the research expertise of Indigenous Australian researchers to a level at which they can compete in open competition for mainstream research funding. Applications are accepted only from Indigenous Australian researchers and all Chief Investigators must meet this criterion. However, as the

scheme aims to develop the research expertise of successful applicants, it is strongly recommended that a mentor (who does not need to be an Indigenous Australian) is associated with the proposal to provide specific expert advice on the subject of the research.

Application forms and guidelines are available on the Research Branch website and further details from Sondra Gould on ext 33387.

Applications close with the Research Branch on Friday 16 June.

ARC STRATEGIC PLAN

The inaugural Strategic Plan for the Australian Research Council was launched in Canberra on 3 May. The Plan can be accessed, in summary or in full, on the ARC's home page at: <http://www.arc.gov.au>.

Research Branch web site:
www.adelaide.edu.au/RB/

RESEARCH GRANTS AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellowship and other research funding schemes currently available for application. A more detailed electronic version of this listing (Update: Research), together with guidelines and application forms for some of the major schemes, are available at: <http://www.adelaide.edu.au/RB/>. For hard copy application forms and guidelines for the funding schemes listed below, contact the Research Branch, ext 35137; or email renae.minerds@adelaide.edu.au.

Sponsored Programs Information Network (SPIN): SPIN Australia - A database containing current and comprehensive information on over 2,600 government and private funding opportunities. The SPIN web site is accessible via the Research Branch web site.

International Union Against Cancer (UICC) - International Cancer Fellowship: International Cancer Technology Transfer Fellowships (ICRETT): No closing date, selection results within 60 days.

American Chemical Society - Programs of the Petroleum Research Fund: Applications may be made at any time. Web site: <http://www.acs.org/acsgen/prf/grant.htm>.

The Charles A. and Anne Morrow Lindbergh Foundation - Grants: Internal closing date: 6 June 2000. Web site: <http://www.lindberghfoundation.org/grantssummary.html>.

Kate Challis RAKA Award - Poet's Award: Internal closing date: 9 June 2000

National Heritage Trust - Coastcare Funding for Environmental Projects: Internal closing date: 9 June 2000. Web site: <http://www.environment.gov.au/marine/coastcare/guide.html>.

Queensland Government - Literary Awards 2000: Internal closing date: 12 June 2000

Pig Research and Development Corporation (PRDC)

- **Training and Development Awards:** Internal closing dates: 21 June & 22 September 2000
- **Travel/Conference and Distinguished Visitor Awards:** Internal closing dates: 21 June & 22 September 2000
- **Partnership Projects, Industry Placement Awards, & Regional and Special Projects:** Internal closing date: Applications may be submitted at

any time. Web site: <http://www.dpie.gov.au/prdc>

Australian Academy of Forensic Sciences - Oscar Rivers Schmalzbach Foundation Research Grant: Internal closing date: 23 June 2000

Australian Academy of the Humanities: Travelling Fellowships: Internal closing date: 23 June 2000

Australian Academy of the Humanities/Royal Academy of Letter, History and Antiquities: Overseas Program - Sweden: Internal closing date: 23 June 2000. Web site: <http://www.asap.unimelb.edu.au/aah>.

Australian Kidney Foundation - Medical Research Project Grants, Medical Research Equipment Grants, Medical Research Seeding Grants: Internal closing date: 23 June 2000. Web site: <http://www.kidney.org>.

National Archives of Australia - Frederick Watson Fellowship 2000: Internal closing date: 23 June 2000

Australian Spinal Research Trust - Grants for Spinal Cord Research: Internal closing date: 23 June 2000. Web site: <http://www.spinetrust.com.au>.

Diabetes Australia Research Trust - Call for Research Grant Applications: Internal closing date: 23 June 2000

NHMRC Travelling Award for Research Training: Internal closing date: 13 July 2000. Web site: <http://www.nhmrc.health.gov.au/research/2001/training/travel/flyer.htm>.

Matsumae International Foundation - Matsumae International Foundation Fellowship Program: Internal closing date: 17 July 2000

BHP - Community Trust and Community Support Programs: Internal closing dates: 22 July & 25 October 2000. Web site: <http://www.bhp.com.au/community/trust.htm>.

Australian Academy of the Social Sciences in Australia - Australia/China Exchange in the Social Sciences: Internal closing date: 23 July 2000

Australian Academy of the Humanities: Publication Subsidies: Internal closing date: 24 July 2000. Web site: <http://www.asap.unimelb.edu.au/aah>.

Australian Academy of the Humanities/Academy of Social Sciences in Australia/Vietnam National Centre for the Social Sciences and Humanities - Overseas Program - Vietnam: Internal closing date: 24 July 2000. Web site: <http://www.asap.unimelb.edu.au/aah>.

Australian Academy of Science - Fenner Medal: Internal closing date: 24 July 2000. Web site: <http://www.science.org.au/awards/femmed.htm>.

Australian Academy of Science - Gottschalk Medal: Internal closing date: 24 July 2000. Web site: <http://www.science.org.au/awards/gottscha.htm>.

Australian Academy of Science - Moran Medal: Internal closing date: 24 July 2000. Web site: <http://www.science.org.au/awards/moran.htm>.

Australian Academy of Science - Pawsey Medal: Internal closing date: 24 July 2000. Web site: <http://www.science.org.au/awards/pawsey/htm>.

JH & JD Gunn Medical Research Foundation - Research Grants: Internal closing date: 24 July 2000

Royal Society of London / The Australian National University / The National Health and Medical Research Council - Howard Florey Fellowships in Biomedical Sciences: Internal closing date: 24 July 2000

Australian Academy of the Humanities/Royal Netherlands Academy of Arts and Sciences/ Academy of the Social Sciences in Australia - Overseas Program - The Netherlands: Internal closing Date: 8 Aug 2000. Web site: <http://www.asap.unimelb.edu.au/aah>.

Scholarships

Unless otherwise indicated, further information and application forms are available from the Student Centre, Level 4, Wills Building. Please lodge all applications with the Student Centre unless otherwise stated.

Canadian Studies Awards: ACSANZ Postgraduate Awards: Up to \$A2,800 for Masters or Doctoral candidates engaged in research into Canadian studies to undertake research trips to Canada for up to six months. Closing: 30 September. ICCS Graduate Student Thesis/Dissertation Scholarship: \$CAN3,500 for Masters or Doctoral candidates to undertake thesis-related research at a Canadian university for 4-6 weeks. Closing: 15 November. Further details from Canadian High Commission, Academic & Public Affairs Section, Commonwealth Avenue, Canberra ACT 2600, tel: (02) 6270 4000, fax: (02) 6270 4083, email: eva.zarka@dfait-maeci.gc.ca or visit the ACSANZ Web Site: <http://www.powerup.com.au/~acsanz>.

French Government Scientific Fellowships 2001: Tenable for 3-6

months between March 2001 - December 2001. The purpose of the fellowships is to enable Australian scientists (Australian citizens), involved in French-Australian scientific research projects, to visit a French host laboratory or institution in order to pursue their current collaborative research, to complete their training or to implement a well-defined project that can be beneficial to France and Australia. Applications available from http://www.france.net.au/frames_eng.html. Closing: 15 August.

National Heart Foundation Postgraduate Research Scholarships 2000 (Medical and Non-medical): Open to Australian citizens or permanent residents for full-time postgraduate research studies leading to a PhD at an Australian university. Research should be concerned with cardiovascular function, disease or related problems. Closing: 26 May (Medical)/25 October (non-medical) (Student Centre)

River Basin Management Society - Ernest Jackson Memorial Research Grants: For the purpose of providing support and assistance in meeting costs associated with student research projects being undertaken in any field of study allied to river basin management. Value: up to \$2000. Closing: 31 May (Vic)

Taiwan Economic and Cultural Office - Scholarship for Mandarin Chinese Training: Open to Australian citizens wishing to further their studies in Mandarin and/or carry out research in Taiwan between September 2000 and August 2001 for one year. Value: tuition fees and NT \$15000 per month. Students will need to pay their own airfare, lodging/accommodation fees, food, health insurance, and other expenses during their stay. Application forms available from Taipei Economic and Cultural Office, tel: (03) 9650 8611. Closing: 25 May (Melbourne)

Turkish Government Scholarships 2000/2001: Language and Culture Summer Courses: value: 51 million Turkish lira. Tenable for 2 months commencing 1 July 2000. Applicants must be graduate students and in good health. Closing: 10 May 2000. Higher Education Scholarship: Open to Year 12 graduates who wish to study or are currently studying at universities in Turkey. Value: 47.5m Turkish lira p/m. Closing: 10 July 2000.

Zonta International - Amelia Earheart Fellowship: Open to women of any nationality in an effort to encourage and support women to expand their horizons by pursuing aerospace-related sciences and aerospace-related engineering. Value: \$US6000. Applications and further details may be downloaded from www.Zonta.org Closing: 15 November (USA).