

## Red wine study seeks reasons for healthy hearts

WHEN PhD student Will Greenrod considers of a glass of red wine, he's not thinking about what kind of cheese will make a perfect accompaniment.

He has a more serious interest in the drop, examining whether moderate consumption of red affords some protection against heart disease, Australia's number one killer.

In the 1990s, media hype surrounded red wine thanks to a phenomenon dubbed the "French Paradox". The term derives from an observation that despite an equally high incidence of risk factors, such as heavy smoking, a sample of men in the south of France had a very low actual incidence of cardiovascular disease compared to a matched sample elsewhere in the world. The most apparent difference was the French's fondness for red wine.

In support of the World Health Organisation's recommendation that wine consumption may confer health benefits to the moderate drinker, "We are hoping to expand on current evidence, and possibly even characterise the protective element," Mr Greenrod said.

Based at the CSIRO's Division of Health Sciences & Nutrition, Mr Greenrod is hoping to link the effect to a particular component of red wine.

"For its volume, red wine contains a high level of compounds called polyphenols. One example is catechin, a compound also present in green tea," he said.

These compounds are thought to act as dietary antioxidants. While oxidation by free radicals in the body is necessary to, for example, break up bacteria and activate enzymes, if the level of oxidants outweighs that of the antioxidants (such as during heavy exercise), the body



Will Greenrod pours a potentially healthy glass of red wine. Photo: David Ellis.

becomes stressed and some of its vital systems may be adversely modified.

"In the case of heart disease, it is speculated that oxidative damage occurs to particles in the blood called lipoproteins—particularly low-density lipoproteins (often termed 'bad' cholesterol), which in turn may form deposits in your arteries which can restrict blood flow," Mr Greenrod said.

Although the polyphenols in red wine have been shown to act as antioxidants in a test tube environment, this does not necessarily mean that the body can make use of them. Mr Greenrod needs to first determine if the body can actually absorb these compounds from the wine, before assessing whether they protect the system against excessive free radical activity.

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### Fancy a drop?



Volunteers are now being sought to participate in the red wine study. They must be men aged between 40-60 years, and non-smokers.

"Volunteers need only make a couple of short visits to the CSIRO, where tests will be undertaken to measure risk factors for heart disease. Volunteers' individual results will be made available to them at the end of the study," Mr Greenrod said.

Volunteers will need to maintain a diet limited in other polyphenols to ensure that wine is the major contributor. And, of course, they can also expect to partake in some moderate wine consumption. Mr Greenrod assures that this does not involve browsing the shelves of the local bottle store: "A non-commercial blend of 1997 Grenache Shiraz has been sourced for the study."

To volunteer for the study, call Mr Greenrod on 8303 8982, or email <will.greenrod@hsn.csiro.au>.

## Whiplash mystery continues

WHIPLASH remains a puzzle, despite a major study into the potential reasons why some sufferers take longer to recover than others.

Researchers from Adelaide University have released the first findings of a study which seeks to draw some conclusions about the risk factors associated with longer whiplash recovery periods.

The results to date have been far from conclusive, and the researchers are now turning their attention to psychosocial factors. They're seeking volunteers—Adelaide residents who've suffered a recent whiplash injury—to participate in the next phase of the study.

Whiplash has long been a mystery for health professionals. While some sufferers recover quickly, others have lengthy, sometimes permanent disabilities. Even X-rays and CT scans show no apparent reason for the problem.

A collaborative team at Adelaide University, involving Dr Orso Osti (Orthopaedic Surgery & Trauma), Dr Richie Gun and Ms Alison O'Riordan (Public Health) and physiotherapist Mr Grant Taylor, is undertaking an internationally funded study to investigate whiplash injuries.

In the first part of their study, the team analysed the insurance records of 600 South Australians who made claims for whiplash injury from 1993-96. The findings were presented by Dr Gun at a recent conference in Hobart.

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## Chilli link to cancer a hot issue

A RECENT *Adelaidean* story on research into chillies has received national attention because of findings that about 80% of imported chilli products are contaminated with higher-than-approved levels of aflatoxin, believed to be a potent carcinogen.

The story prompted the Australian & New Zealand Food Authority (ANZFA) to conduct a survey into the risks posed to those who eat imported chilli products.

Dr Andreas Klieber from the University's Department of Horticulture, Viticulture & Oenology made the discovery as part of a study into the growing and processing of chillies in Australia. The *Adelaidean* sought further comment from Dr Klieber about the risks of consuming imported chilli products:

"I would say that people should not stop eating chillies. The aim was really to get the industry to start monitoring for contamination and to correct problems, as they are legally bound to. This reduces the overall load of aflatoxins that we may be exposed to, and that can only be healthy, especially since we as a

nation are eating more chillies and other spices," he said.

ANZFA has calculated that the likely exposure to aflatoxins in those people who eat a lot of chillies is about 80% of that expected from people consuming peanuts containing the maximum permissible level of 15 micrograms per kilogram ( $\mu\text{g/kg}$ ). They conclude that dietary exposure to aflatoxins from chillies, while significant, is not as high as that from peanuts.

Dr Klieber agrees, but puts it another way: "At 80%, the impact of spices seems to be nearly as important as the impact of peanuts. Therefore, if they are monitoring peanuts, they should also be monitoring spices."

ANZFA has since released a statement clarifying the nature and source of aflatoxins in food, and explaining that the Food Standards Code limits its level in nuts to  $15\mu\text{g/kg}$  and in other foods to  $5\mu\text{g/kg}$ . ANZFA concludes that, on the basis of the known toxicity of these substances and the level of consumption of chillies in Australia, the levels are not considered to pose a significant health risk.

This concurs broadly with Dr Klieber's original findings, which stated that significant consumption of chilli and paprika spice could be in the order of two-five grams per day. In the worst measured case of contaminated product in Dr Klieber's study, this would translate to  $0.5\mu\text{g}$  of aflatoxin consumed per day.

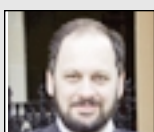
ANZFA has now asked the Australian Quarantine & Inspection Service to increase the monitoring and testing of imported chilli-based foods, including other spice products which may be susceptible to aflatoxin contamination.

Dr Klieber prepared an extensive report earlier this year for the Rural Industries Research & Development Corporation, which funded his research, and a detailed fact sheet on the reduction of aflatoxin contamination risk of chilli and paprika products. Dr Klieber's fact sheet is available free of charge from the Media, Marketing & Publications Unit, Adelaide University, SA 5005 or in electronic form from <rob.morrison@adelaide.edu.au>.

ANZFA's information officer can be reached at (02) 6271 2241.

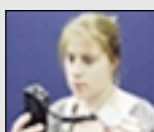
—Rob Morrison

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# INTERVIEW

## PROFESSOR TIM FLANNERY

*The Director of the South Australian Museum, Dr Tim Flannery, was recently made an Affiliate Professor of Adelaide University. The Adelaidean's Science journalist, Dr Rob Morrison, spoke with Professor Flannery about his appointment and his plans to link activities between the two institutions.*

**What can a museum director bring as an Affiliate Professor of the University?**

I hope to bring, first and foremost, collaboration between the two institutions. I think it's silly for us to make appointments alone at the Museum. When we advertise, for example, for a curator of anything in South Australia, who's going to apply? If we make it a joint appointment of lecturer at the University and a curatorship at the Museum, it's much more attractive, particularly if we can develop our areas of strength so that we can have a national and international profile in these areas. So that's what I want to bring to the place—a critical mass of research scientists that will put South Australia on the map as far as our key research areas go.

**That puts research well to the fore, but what about exhibitions?**

The exhibitions are a very significant teaching aid. In a whole array of areas you don't often think about, the Museum can be a useful venue for the University, such as the performing arts, market assessment, design, architecture—a whole series of things like that, so the public face of the Museum can be quite useful for the University as well.

**Will you be teaching any courses at the University?**

I'd love to do some teaching, and next year I'm hoping that I can teach in an area that I'm very enthusiastic about, which is the meeting point of Arts and Sciences. I would dearly love to teach a course at Honours level perhaps, taking people from the Humanities and the Sciences and looking at big questions concerning Australia's society and environment, prehistory—those sorts of issues—because I'd dearly love the opportunity to start breaking down that barrier between the two, the big divide if you like.

**That sounds very much like the aim of the science communicators.**

I guess that's right, but it's also about what the

Humanities can bring to the Sciences. Science Communication is important, but I'd really like scientists to listen carefully to people in the humanities as well. It's a different sort of investigation of the world as we experience it and know it, but the skills that such people develop are often very much in areas that scientists need. I think that bringing both together will bring benefits to both sides.

I suppose you hear it again and again in Adelaide that people say the city has such great potential because all of its significant cultural institutions are on North Terrace, and you wonder why people haven't made more of it in the past. I'm waiting for the hidden trap to fall, to show why we can't do these wonderful things this city should allow us to do. So far it hasn't fallen. The potential is huge; why it hasn't happened to the extent it could, I don't know, but if we do get it right, if we manage to create a seamless research-teaching unit here, we'll have something that no other State in Australia will have, and given the strength that we have here, I think we will be able to raise the Museum and the University significantly in terms of their national and international profile.

What I'd love to have happen here at the end of five years is that students thinking about coming and doing an Honours year somewhere in Australia will want the excitement of working both with Museum staff on expeditions and whatever else, as well as the University site, so we're offering something absolutely unique, and attracting the best.

**Both institutions are changing rapidly and being forced to be more entrepreneurial. How do you see those changes affecting us, and what will happen to the nexus between the University and Museum as the changes take place?**

I think the key issue for both of us is that we need to be valued by the society that we are embedded in. That entrepreneurial spirit often comes about from building links with society in ways that universities and museums haven't done in the past. So I see it as quite a positive thing from that perspective. For example at the Museum, we have Australia's largest molecular biology unit and the oldest and largest collection of wildlife tissues in the world. Now for all sorts of molecular biological applications—commercial and whatever—we could form some wonderful partnerships with industry.

I think we just have to embed ourselves in the psyche of the city we are in. A museum in a city like Adelaide should absolutely be a core activity. It should be integrated at all sorts of levels where it is currently not. So my vision for the place is to make it valued right across the spectrum.

**Robert Champion de Crespigny is now Chair of the Museum Board and the University's Chancellor. How do you see that affecting joint activities?**

I think it's going to be a great advantage to both of us. I'm not sure practically how it will work... [but] the thing I have found about working with Robert is that he is just incredibly dynamic. When he commits to something, he commits 100%. The benefits that has brought to the Museum have been phenomenal, quite frankly, so I think it's going to be very good for both of us.

**You have a diverse background—scientist, explorer, writer and much more. Now you are an administrator. Where do you see your own career going from here?**

I don't know. I'm at the beginning of my five-year plan for the Museum! Beyond that I can't really see at the moment. I know that I don't want to become a professional administrator or museum director; that's not what I'm here for, so at the end of five years I'll be looking about for something else, but I don't know quite what.

I love doing research. Just yesterday for the first time in about 12 months I got to do some genuine research in the Museum's collection, doing some assessment of material. It was just wonderful, so I'll always love doing that, there's no doubt about it, but where to go from here? I don't know.

There's so much that you can do in the world. I had the most fantastic time last year investigating the ecological history of North America, and that book will be published next year, but that was like opening a whole new universe to me—things I just didn't know about, patterns in biology that I was ignorant about, so perhaps to do something like that again?

**The book that you might have written during your time in South Australia you have just published, the journal of Matthew Flinders, which will be highly topical in 2002 when we celebrate the bicentenary of his meeting**



“I think the key issue for both of us is that we need to be valued by the society that we are embedded in.”

**with Baudin. Do you see another book coming out of your stay in South Australia?**

I'm not sure at the moment. I've read most of the South Australian exploration accounts, and some of them are absolutely fantastic, but I'm not quite sure how things will work out there. The next historical book that I want to do is not Australian at all. It's an old Dutch account which is just wonderful. It's an account of a voyage to the East Indies between 1618 and 1625. It's another John Nichol or Watkin Tench—this guy's just a wonderful, humane, fascinating person, and it's a great account and that'll be my next one. Of course he's writing at a time when the economic world as we know it is taking shape. We're getting the first stock markets developed, and hot on their heels the first futures market... it's a most wonderful story.

**As an Affiliate Professor of the University, you're not attached to any particular faculty?**

Because I'm so passionate about the Arts and Sciences coming together, I didn't want to be in any one faculty—we'll see how it works out.

Letters to the Editor

Please send your letters to the editor, David Ellis, at the address below or email to: <david.ellis@adelaide.edu.au>.

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# LETTERS

## TO THE EDITOR

**Chancellor's Committee**



With respect to your correspondent Dr Bob Clarke (The *Adelaidean*, 14 August 2000) and others who have suggested that “the decision making power of Council” was “delegated to a small sub-committee” presided over by the Chancellor, the resolution passed at the 31 July Council meeting did nothing of the sort.

The resolution provided for the establishment of a committee of Council to review and advise Council on matters coming before it. Apart from that, in strictly limited circumstances, where it is “essential in the interests of the University” to do so, the Chancellor, with the support of the sub-committee, might exercise delegated Council powers, on condition that the exercise of any such delegation be “submitted to the next meeting of Council for ratification”.

Ratification may be granted or withheld entirely at the discretion of Council.

Furthermore, section 10(2) of the University of Adelaide Act, which is the section under which the resolution was passed, provides that “The delegation of powers under this section does not derogate from the power of the Council itself to act in any matter”.

It follows that Council's powers and responsibilities remain completely unaffected. I would not

have supported the motion had it been otherwise.

**The Honourable Justice Perry**  
Council Member

**New Chancellor**



I have viewed with increasing alarm Mr Champion de Crespigny's heavy-handed intro-duction to the office of as reported in the *Adelaidean* and elsewhere. I graduated BScHons from the University of Adelaide (oops, Adelaide University) at the end of 1960 and I have been in Universities ever since—for 44 years altogether, here and over-seas. My credentials would therefore seem to be impeccable for Chairmanship of the Board of Directors of Normandy Mining Ltd, given that the new Chancellor has never worked in a university and by his own admission knows little of its history, culture, teaching and research, yet can still march into the university with hobnail boots.

Mr de Crespigny (he is no Champion to me) perpetuates the myth that Adelaide must soon become “a great world university” like Oxford, Cambridge, Harvard etc. no doubt. This is arrant PR nonsense. For example, Adelaide has “produced” two Nobel Prize winners, both of whom had left the university before they did their prize-winning work overseas. More than

most I have tried to remind Adelaide of its legacy in this regard, but I also know that the Cavendish Laboratory in the University of Cambridge had some nine or 10 Physics Nobel Prize winners on its small staff in the 1930s. The notion that Adelaide will soon rival this sort of record is a self-evident delusion, as is the University of Melbourne's belief that having two or three Nobel Prize winners visit the university for a week or two each year entitles it to say that these people belong to it in some strange sense.

Mr de Crespigny's innovation is not new. In some ways it began in Thatcherite Britain and elsewhere about twenty years ago, and it infected the Australian east coast universities about a decade ago. Adelaide has just caught its most virulent form. We have had it at my university in Melbourne for a number of years, and meetings of our senior academic committee now routinely take less than half-an-hour. Decisions are made “elsewhere”. And the Council, on which I have served three terms (the latest being 1994-97) and which in the 1970s and 1980s was a forum for lively debate, has now become nothing more than a timid rubber stamp. The terms of reference of the Adelaide Chancellor's Committee give it powers that no university committee or official should ever have.

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# Open Day 2000 draws them in

UP TO 12,000 people got a taste of university life at Adelaide University's Open Day on Sunday 13 August.

This year's theme was Your Gateway to the World, and the international flavour was boosted with an array of delicious food, music, international students, the wide range of international work conducted at the University, and the presence of several key visitors from overseas.

Wilton Yerlo and the Centre for Aboriginal Studies in Music also shined on Hughes Plaza, where they hosted a mouth-watering bush barbecue and performed traditional and contemporary indigenous music.

The Academic Programs & Course Expo held in Bonython Hall (pictured, right) was once again a big drawcard, with strong attendance by potential students at information talks.

Vice-Chancellor Professor Mary O'Kane (pictured) was also among the crowd at Open Day, in this case getting closer to an exhibit than many others would dare!

As well as prospective students, the presence of staff and their families, current students and members of the Adelaide community added to a highly successful Open Day 2000.



## Federation Files showcase our role

A NEW radio series celebrating SA's role in the formation of the Australian nation has been officially launched by 5UV Radio Adelaide.

*The Federation Files* comprises 50 short radio programs, each about six minutes long, examining various aspects of the State's involvement in the move towards Federation. The series was funded by the South Australian Government through the SA Centenary of Federation Grants program.

Broadcast on 5UV Radio Adelaide at 8.30am

and repeated at 2pm each weekday, it will also be heard across South Australia on 18 community radio stations and through the internet by international audiences.

A five-CD set of the series will be available for limited sale to schools and interested members of the public.

*The Federation Files* represents a major research feat by series producer Ms Anna Gillam and executive producer Mr Tony Ryan. Support was provided by a reference group that included Adelaide University academics Dr John Williams (Law) and Dr Clement Macintyre

(Politics), as well as Associate Professor Peter Howell from Flinders University, Dr Robert Nicol, State Historian with the History Trust of South Australia, and Dr John Harris from the SA Centenary of Federation Office.

Assistance was also provided by the Hon. John Bannon, Master of St Mark's College and co-editor of *The New Federalist*, and Ms Pat Moore from the State Library of South Australia.

5UV Radio Adelaide can be heard on 531 AM or via the internet: <[www.adelaide.edu.au/5UV](http://www.adelaide.edu.au/5UV)>.

## Thebarton campus to open its gates

SOME of the State's most innovative businesses are inviting visitors to find out more about what they do.

More than 40 research and development enterprises based at Adelaide University's Thebarton campus will participate in the Radnet Open Day on Friday 8 September.

The Radnet (research and development network) event will provide an opportunity to go behind the doors of businesses engaged in a wide variety of R & D and commercial activities in fields such as engineering, biotechnology, computer software, industrial design and many others.

Radnet was founded in 1996 to promote links between businesses at Thebarton. More than 400 people are employed at the precinct.

"It's the first time we've done something on this scale," said Open Day coordinator Mr Andrew Rogers, of Andrew Rogers Industrial Design.

"We hope it will encourage greater collaboration between tenants. Some are already working together in various ways but we believe there are opportunities for more collaborative ventures.

"We also hope to promote a better understanding of what's going on at the precinct both in commercial enterprises and in University departments."

Open Day activities will include displays, trade exhibits and guided tours of the precinct.

Well-known business identity Dr Patricia Crook AO will officially open

the day's activities. Dr Crook is Managing Director of surgical products manufacturers Dynek Pty Ltd. A member of the Reserve Bank Board, she was the first woman to hold the position of Deputy Chair of the Chamber of Commerce. Dr Crook is a highly successful businesswoman, with 80% of her product being exported.

For more information about the Thebarton Campus Open Day, call Mr John Hodges at the Office of Industry Liaison: (08) 8303 4473.



## Teaching & Research excellence – do they go together?

I was sitting in an airport lounge in Singapore last month when I picked up a copy of *The Daily Telegraph* featuring the latest league tables of British universities.

Some of you will be familiar with these tables. They're compiled annually drawing on information from a range of sources, including the Quality Assurance Agency for Higher Education, the funding councils, the Higher Education Statistics Agency, and several other bodies. The resulting league ladders provide a snapshot of how British universities perform in a range of categories, including teaching excellence, research, student staff ratios, graduate employment, income from research grants and so on.

Ratings for teaching excellence are based on inspections of university departments by the Quality Assurance Agency for Higher Education. Each inspection lasts three days and is carried out by a team of academics, accompanied by other experts in the field. The team sits in on lectures and tutorials, talks to present and past students and employers and examines the department's records.

Assessors take each department's aims and objectives as their starting point and judge how well these are met in six areas: the curriculum, the teaching, the progress students make, the support and guidance they receive, the resources available and how well the department is run.

What's striking about the league table for teaching excellence is that it's dominated by the high-performing research universities. Four of Britain's top five teaching universities—Cambridge, Imperial, Oxford and Warwick—also rank among the top five research institutions. This is a result worth pondering given the continuing debate about whether good-quality education and research are linked.

I wonder how Adelaide University would rank in a similar survey of teaching excellence in Australian tertiary institutions. My feeling is that we would compare favourably with the best in the country. The 1994 quality review by the Committee for Quality Assurance in Higher Education ranked us in the top group of Australian universities and, since then, we have introduced many initiatives aimed at further improving educational standards.

We've developed a University Learning and Teaching Plan 2000-2002 and are establishing learning and teaching committees in Faculties. We've introduced Departmental Learning and Teaching Awards, teaching development awards and the annual Stephen Cole the Elder Prizes for Excellence in Teaching. In addition, any department wishing to improve its information technology resources can now apply for finance from our Matching Funds for IT Development budget.

I believe that these and other initiatives would help to ensure a strong showing by Adelaide University in any survey of teaching excellence. But what about individual departments? Would all of them rate equally in a British-style inspection? Which would be the star performers? Would they be the same departments that are also good at research? It's an intriguing question in the light of the British experience.

MARY O'KANE

# Creeping soil takes winning scientist to England

ENVIRONMENT researcher Professor Martin Williams has won the prestigious 2000 Wiley award.

The recognition comes from the British Geomorphological Research Group, whose journal *Earth Surface Processes and Landforms* is published by John Wiley. The publisher established the award for the best paper to appear in the journal each year.

Professor Williams, from Adelaide University's Department of Geographical & Environmental Studies, is one of three authors to share the award. The others are Dr Michael Clarke, formerly of Macquarie University, and Tonia Stokes, from Monash University. Their joint paper is entitled *Soil Creep: Problems Raised by a 23 year study in Australia*.

"Soil creep is the slow downslope movement of soil and weathered rock under the influence of gravity," Professor Williams explained. "It is generally imperceptible except to measurements of long duration.

"Modern funding bodies are understandably reluctant to fund long-term investigations, but in some fields of earth science and geomechanics long-term studies are essential," he said.

"In the Thredbo disaster, there were suggestions that human modification of the landscape may have helped to accelerate the natural rates of slow mass movement sufficiently to initiate slope failure."

Orthodox theories on soil creep have assumed that disturbances such as plant roots, animal activity, weather and severe temperature changes loosen the soil, which is then free to move under the influence of gravity, but at rates that are generally imperceptible. That is now challenged by the findings of Professor Williams and his co-authors, who demonstrate in their paper that the process is more involved.

"In 1965 I was engaged in monitoring a variety of erosional slope processes, including soil creep, in areas that now include Kakadu National Park. I became unsatisfied with the reigning orthodoxy, and thought it might be interesting to

repeat my measurements at intervals during the next quarter century," he said.

"The results proved that initial rates during the first six years were too fast, and were an artefact of the disturbance involved in installing the buried rods used to measure soil creep."

Professor Williams showed that the process of creep is more complex than all previous models envisaged, with a strong upslope and vertically upward component of movement. Similar observations had been made before, but they are so counter-intuitive that all previous researchers had rejected their results as being wrong when, in fact, they are quite usual.

"Thomas Huxley once remarked that one of the great tragedies in science was the slaying of beautiful hypotheses," said Professor Williams. "Karl Popper went further and proclaimed that a theory, to be scientific, needed to be falsifiable. We now need to rewrite the texts dealing with soil creep!"

Professor Williams will be presented with his



Professor Martin Williams.

award during the Conference of the British Geomorphological Research Group at the University of Sheffield on 13 September.

—Rob Morrison

## Nanotechnology – a growing reality

FREE PUBLIC LECTURE

The Claire Corani Lecture of the Women in Physics group (Australian Institute of Physics) will be held at 7.30pm on Tuesday 5 September in Union Hall at Adelaide University.

Guest lecturer is Dr Michelle Simmons, University of NSW, whose topic is "Nanotechnology—where physics, chemistry and biology unite in the realm of the ultra-small".

Nanotechnology is a relatively new branch of technology which tries to build machines capable of carrying out mechanical operations on a tiny (molecular) scale. This fascinating field of research has many potential applications in all walks of life.

Michelle Simmons has a double degree in physics and chemistry and a PhD from the University of Durham, England. She was the first female post-doctoral researcher in the Semiconductor Physics group (the largest research group in the UK) at Cambridge, and is currently a Queen Elizabeth II Research Fellow at UNSW. She is also manager of the atomic-scale fabrication and crystal growth program at the new Centre for Quantum Computer Technology at UNSW, collaborating with physicists at Queensland, Melbourne, Maryland, Caltech and Los Alamos.

As well as giving her public lecture, Dr Simmons will also present the Claire Corani prize to the top female student in second year physics.

## Red wine study: reasons for healthy hearts

From Page 1

Mediterranean fashions have no bearing on why red wine is now getting all the scientific attention. During the production of red wine, the seeds and skins are left in after crushing the grapes, hence its distinctive colour and flavour. This also enables polyphenols to be drawn into the wine during fermentation. In making white wine, this plant matter is removed prior to fermentation, normally leading to a much lower concentration of polyphenols in the end product.

This raises the question of whether the alcohol component of the wine is less relevant than the colour and flavour derived from the original fruit. Indeed, polyphenols are found in other plant foods notably strong in colour,

such as blackcurrants and cocoa, although legumes such as soya beans and chickpeas contain them too. To clarify this, Mr Greenrod is also comparing dealcoholised red wine to regular red.

His project is among a number of important studies carried out at the CSIRO to examine the effect of different diets on diseases, with the aim of identifying potential "functional foods". With heart disease accounting for 40% of Australian deaths, Will is hoping that "over the course of the study, we'll start to see some beneficial effects with the wine supplements".

However, he emphasised that "we're not encouraging people to go out and drink", bearing in mind the negative physiological and social

effects that can accompany alcohol consumption. Nor is taking a daily red an ideal way to compensate for poor habits: "You can't really counteract a bad diet," he said. "You should always maintain a healthy diet, including plenty of fresh fruit, vegetables and cereals."

Mr Greenrod's study is a collaboration of various research centres with industry. Sponsored by The Grape and Wine Research and Development Corporation, the study is supervised by Dr Mavis Abbey and Dr Michael Fenech (CSIRO) and Dr Phil Burcham from Adelaide University's Department of Clinical & Experimental Pharmacology. Ms Creina Stockley of the Australian Wine Research Institute is also involved in an advisory capacity.

—Emily Collins

## LETTERS TO THE EDITOR

From Page 2

Here it has led to a number of precipitous actions that a subsequent Council meeting had no reasonable chance to discuss, let alone overturn.

A university is not a business as commonly conceived, and the notion that successful management in one business entitles a person to lead any enterprise is also nonsense. I predict that

- Adelaide University Senate, long moribund, will be killed and buried
- its Academic Board and Council will become largely redundant
- consultation, collegiality, discussion and debate will die
- staff morale will plummet to depths not previously imagined
- fear will stalk its corridors.

It has happened on the east coast and I see no reason why Adelaide will be different.

The tragedy is that we are all supposed to be working towards one common goal: the health and welfare of our teaching and research and everything that flows from it. It should be a cooperative and joyful venture, yet in just a few weeks the new Chancellor has alienated the staff and students from the process. For my part I believe Adelaide University has surrendered to the philistines. In a stroke the university has destroyed my 40-year love affair with my alma mater.

John Jenkin  
Melbourne

President Clinton said of science and technology in his 2000 State of the Union address:

"In the new century, innovations in science and technology will be the key not only to the health of the environment, but to miraculous improvements in the quality of our lives and advances in the economy.

"Later this year, researchers will complete the first draft of the entire human genome, the very blueprint of life. It is important... to recognize that federal tax dollars have funded much of this research, and that this and other wise investments in science are leading to a revolution in our ability to detect, treat, and prevent disease...

"These kinds of innovations are also propelling our remarkable prosperity. Information technology only includes 8% of our employment, but now it counts for a third of our economic growth—along with jobs that pay, by the way, about 80% above the private sector average. Again, we ought to keep in mind, government-funded research brought supercomputers, the Internet, and communications satellites into being. Soon researchers will bring us devices that can translate foreign languages as fast as you can talk; materials 10 times stronger than steel at a fraction of the weight; and—this is unbelievable to me—molecular computers the size of a tear drop with the power of today's fastest supercomputers."

These statements are inclusive of every segment of science and technology, and are very clear about their major contributions to America's present and continuing prosperity. They are in stark contrast to the actions of successive Australian governments which have made drastic science and technology funding cuts to leave us trailing in the wakes of the United States and the other nations with which we must successfully compete. This is accompanied by major Australian companies

either cutting back on research or closing their research activities altogether.

These actions will not be without penalty. There are signs that Australia is already beginning to pay that penalty as evidenced by some recent costly accidents and other embarrassments that are attributable to lack of scientific and technological understanding in management. More may follow as many of Australia's best young (and not so young) scientists leave for more enlightened environments overseas. Australian universities are already suffering as they find it increasingly difficult to fill, or do not fill, academic vacancies in the sciences for lack of suitable applicants.

It is incredible that even in some group of eight universities there is an overt anti science and technology sentiment in management decision-making fuelled to some extent by the realisation that laboratory requirements increase cost. Such attitudes are astonishing in institutions which once prided themselves on making major contributions to the forward thinking of the nation, and educating generations who have contributed greatly to the national prosperity.

There is no doubt that our universities are under great pressure, but this is no excuse for the largely muted response of university managements to continuing government neglect and public apathy. Sadly they often seem more interested in berating their increasingly disenchanted staff and scoring points off other universities. It would be refreshing if the universities could rise above such disharmony and publicly and frequently state that the current irresponsible national attitude to universities, science and technology has already damaged the prospects for future national prosperity and that a continuation of this attitude will simply increase the damage.

Professor Stephen Lincoln  
Department of Chemistry

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# FEATURE

## CUTTING THE NOISE OUT OF HEARTBEATS

HYPERTENSION is a major health problem of the western world.

In one year alone, it has killed in excess of 40,000 people in the United States, contributed to the deaths of more than 200,000 and added to the problems of a further 58 million who suffer from the condition. That amounts to one in every four people; if only those over the age of 65 are considered, the figure rises to two in every three.

In fact, hypertension can be considered an epidemic, and it is not confined to the US. Other western countries show similar problems, with diet and sedentary lifestyles among the causes. Treatment varies, but increasingly health workers are emphasising the benefits of prevention, where appropriate diet, exercise and early detection of hypertensive problems can prevent major difficulties from developing later.

One of the most powerful tools has been the ECG, or electrocardiograph. Electrodes placed on the skin record the heart's electrical activity—diagnosticians examining this can detect a range of problems, such as poor electrical conductivity in the heart and weakness in its muscular contractions.

Another diagnostic tool is the sound of the heartbeat. Recorded as a phonocardiogram (PCG), heart sounds can reveal circulation problems, heart murmurs, faulty valves and coronary artery disease. So important is the heartbeat to clinicians that the stethoscope is the most recognised equipment in the doctor's armoury.

But sound recordings have their difficulties, too. They are hard to hear in noisy surroundings and, in any case, the heart generates 'noise' of its own, compounded by noisy signals from imperfect measuring instruments and conditions.

There are sounds generated by breathing, by the contact of stethoscope on skin, and even by a foetus if a woman is pregnant. To the ear, this noise can be a hissing or scratchy sound, masking the real sounds of normal or abnormal heart function.

When a phonocardiogram is displayed as a trace on a screen, the noise shows as random spikes, interfering with the true record of the heart's activity. For that reason, PCGs have never realised their true potential as a diagnostic tool.

It's a challenge being taken up by Ms Sheila Messer, who is working on the Heart Sound Biomonitor Project in Adelaide University's Centre for Biomedical Engineering.

Ms Messer is an electrical engineering graduate from the Sonoma Valley, just north of San Francisco, California. She spent a semester here on an exchange program in 1996. A Rotary Ambassadorial Scholarship gave her the opportunity to do graduate study abroad, and she chose to return to Adelaide University.

"I'm interested in biomedical engineering because it allows me to apply my engineering skills to a real world problem while the resulting application will help people," says Ms Messer.

"I'm looking at ways to 'de-noise' the PCG. If we're successful, we can see whether there is any difference in the PCG before and after the treatment of hypertension," she says.

Ms Messer's research involves the sophisticated use of wave forms. Perhaps the simplest wave form is a sine wave—a repeating regular series of hills and valleys. The waveform generated by a heartbeat is, by comparison, a complex one, but the two can be related. In fact one of the most powerful tricks in an engineer's mathematical toolbox is Fourier's theorem which maintains that any signal, no matter what it looks like, can be copied exactly by adding together many sine waves of different frequencies.

It follows that a complex signal can be broken down into its sine wave components. If the signal has unwanted frequencies, these can then be filtered out. However, for heartbeat signals there is no way to tell what is noise and what is pure heartbeat. Simple filtering doesn't work.

Also, complex signals such as heartbeat waveforms may require vast numbers of sine waves to describe them faithfully. A heartbeat is a sharp and short-lived pulse, whereas sine waves are smoothly varying signals that repeat forever.

It was long thought that the sine wave was the fundamental building block of all signals, but engineers now use another kind of waveform termed a 'wavelet'. Wavelets are generally not periodic. Whereas sine waves repeat endlessly, wavelets do so only for a short time, quickly declining to zero. They come in a variety of

“It allows me to apply my engineering skills to a real world problem while the resulting application will help people.”

shapes and, since under certain conditions any signal can be made up from lots of wavelets, signals can be represented as a sum of wavelets instead of sine waves.

"A wavelet's shape is not far different from a heartbeat signal," says Dr Derek Abbott, one of Ms Messer's supervisors and Director of the Centre for Biomedical Engineering.

"It turns out that you can decompose a heartbeat signal using only a few wavelets, whereas it takes millions of sine waves to do that.

"The advantage is that the true signal breaks down into a few big wavelet components, whereas noise breaks down into millions of tiny wavelets, and can easily be filtered out," he says.

Ms Messer is developing a technique to remove the noise from phonocardiograms.

"Using wavelets, the signal is decomposed, and any coefficients below a certain threshold are discarded as noise," says Ms Messer. "The remaining coefficients are then recombined to reconstruct the intact signal."

The results show a startling transformation. Both normal and pathological conditions are clearly revealed, free from masking noise.

Ms Messer pays tribute to her other supervisor, Dr John Agzarian, who has degrees in electrical engineering and medicine and is now in private practice.

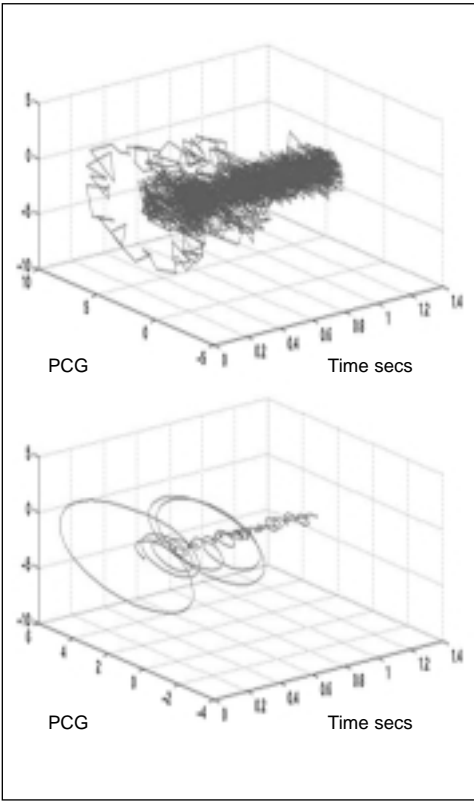
"He explains the medical side of things to me, and obtains real measurements for me to work with," says Ms Messer. "He will be a very helpful guide as we develop this technique for medical use."

The research is likely to have wide-ranging applications in health care, as Ms Messer aims to produce a system where heartbeat sounds can be easily, cheaply, reliably, and repeatably recorded and used by physicians as a diagnostic tool.

—Rob Morrison



Sheila Messer with an electronic stethoscope.



A three-dimensional image of a heartbeat with 'noise' (above), and with the noise cut out (below), giving a much clearer image.

## Whiplash mystery continues

From Page 1

"The major finding was that people injured in a front-end car collision were significantly more likely to have a delayed insurance settlement (and a longer recovery period) than others," Dr Gun said.

"Eighty percent of front-end collisions had a settlement period over two years, compared with 51% for rear-end collisions, 47% for chain collisions and 29% for car rollovers."

Claims involving workers' compensation, a history of neck problems, prior treatment from a physiotherapist or chiropractor, and having consulted a solicitor were other factors associated with delayed settlement.

However, the study found that the amount of damage caused to a vehicle was not a significant factor in recovery times for whiplash sufferers. Other potential factors discounted by the study included a prior history of workers' compensation, the period spent off work, early presentation for medical attention, and whether the person injured was the driver or a passenger.

"We were a bit surprised that the severity of the crash didn't seem to have much of an influence on the patients' recovery period," Dr Gun said.

"We also thought that people who'd been given medical attention on the same day as their accident would have been worse off, but in fact it made no difference—people who sought medical advice days after their accident were no more or less likely to recover quickly.



"This leads us to believe that psychosocial factors—the patients' psychological and emotional well-being, and their functioning in society—may be more important in determining whether or not they recover quickly from whiplash."

The next phase of the study aims to investigate just that. Whiplash victims are now being recruited from medical practices, hospital accident and emergency departments and physiotherapists. More volunteers are urgently needed for the study, which aims to include 150 whiplash sufferers in total.

Each participant will be interviewed and monitored over a 12-month period, with the results hoping to shed more light onto the ongoing whiplash mystery.

Anyone wanting to take part in the study should contact the project manager, Ms Alison O'Riordan, on 8303 4618.

—David Ellis

## Scholarship for wine student



VITICULTURAL Science student Mr David Gallot (pictured second from left) is the inaugural winner of the McLaren Vale Vine Improvement Scholarship.

The new scholarship is available to students enrolled in the third year of a Bachelor of Agricultural Science (Viticultural Science) degree at Adelaide University, and is made possible by the generous support of the McLaren Vale Vine Improvement Society.

The total value of the scholarship paid over two years is \$5000. In addition, during the summer vacation period the recipient will be given an opportunity to gain viticulture experience with a major vineyard in the McLaren Vale region

and gain further experience by assisting the McLaren Vale Vine Improvement Society in the conduct of a clonal improvement program in the McLaren Vale region.

Applicants for the scholarship will be selected on academic achievement, technical knowledge and communication skills. The student must demonstrate a commitment to a career path in viticulture, preferably one likely to be based in South Australia.

Also pictured at the presentation of the cheque are (from left) Horticulture, Viticulture & Oenology senior lecturer Dr Peter Dry, the McLaren Vale Vine Improvement Society's Mr Jock Harvey, and Adelaide University Scholarships Coordinator Ms Anne Witt.

## International coup for wind ensemble

ONE of Australia's finest wind bands, the Elder Conservatorium Wind Ensemble, has now been recognised as one of the best in the world.

Conducted by Mr Robert Hower, the ensemble is one of only 16 selected from a field of 60 worldwide invited to perform at the 10th World Association for Symphonic Bands and Ensembles Conference in Lucerne, Switzerland in July 2001. The conference is held biennially in various cities around the world.

Mr Hower said the conference was the most prestigious worldwide forum for the exposure of new music for wind bands, and to be asked to be a part of it was a great honour for the ensemble and for Adelaide University.

"I would like to perform a couple of world premieres of Australian composers' wind music as part of our performance at the conference," he said.

Concert 4 of the Evening Concert Series on Saturday 9 September in Elder Hall will present this outstanding ensemble at their best. The program includes band classics such as Mendelssohn's Overture for Winds, the theatrical Quiet City by Aaron Copland and Grainger's Hill Song No 2. Also included for light relief is Charles Ives' hilarious Country Band March, written as an intricate musical satire on an amateur wind band gone horribly wrong!

To date, the ensemble has received no financial support to assist with the enormous cost of taking a group of 50 people with instruments and luggage to Europe for two weeks. However, the current ensemble members are determined to achieve this goal, and a fundraising program is already under way.

A fundraising activity will be held in the Elder Hall foyer during the two intervals for Concert 4, and further support from individuals and sponsorship from the private sector will be enthusiastically received.

Tickets are \$24 Adult, \$16 Conc and \$12 Students, with bookings at BASS 131 246 or at the door. For more information contact Di Kidd, Elder Hall Concert Manager (Wed-Fri) on 8303 5925.

## Alyson goes on dramatic hunt

A CONFRONTING youth drama which pulls no punches is the latest work from Adelaide University graduate Alyson Brown.

Ms Brown is the director of *Hunting In Packs*, a production primarily aimed at youth aged 14-20 and based on real-life issues affecting youth, particularly those in Adelaide's southern suburbs.

She graduated from Adelaide in 1994 with a BA in Educational Theatre, and subsequently set up her own theatre company, Queenbitchery. She is now artistic director of the Southern Youth Theatre Ensemble (SYTE), which is putting on the production of *Hunting In Packs*.

Ms Brown describes *Hunting In Packs* as being more than just a drama production.

"It's very much based around real life and the issues that affect young people today, and that's the audience that it's geared towards, although we encourage parents to attend as well," she said.

"For the initial production last year, we spent a lot of time interviewing young people from the southern suburbs about the issues that they faced, and incorporating a lot of that into the production.

"So it's a very realistic, in-your-face type of theatre—we don't try and moralise and say certain things are right or wrong, we are just presenting life as young people see it, which can be very challenging but ultimately very rewarding for the audience.

After the show, a half-hour forum will allow the audience to discuss any of the issues raised in the production. Every member of the audience also receives a booklet which goes through, in cartoon form, many of the issues raised in the performance and lists the youth agencies



Alyson Brown, former Adelaide University student and now director of Southern Youth Theatre Ensemble's major new performance *Hunting In Packs*. Photo: Ben Osborne.

which can help young people deal with those issues.

Public performances of *Hunting In Packs* are being held at the Noarlunga Community Arts Centre on 31 August, and 1-2 September; and at Queens Theatre in Adelaide on 7-9 September (all performances begin at 8pm). Tickets are \$13.20/\$5.50. For more information, phone 8384 6744.

—Ben Osborne

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## New software: a valuable asset for staff and students

Valuable new software tools will soon be in the hands of students and staff at Adelaide University's Department of Electrical and Electronic Engineering and CHiPTEC, the University's Centre for High Performance Integrated Technologies and Systems.

The tools are being provided thanks to the support of US-based software company Wind River Systems and Invest SA, part of the South Australian Department of Industry and Trade.

Wind River Systems (represented in Adelaide by Mayer Krieg Ltd) has donated \$200,000 worth of VxWorks software to the University under its University Partner Program. The package is used by many high-tech engineering companies around the world and is expected to benefit about 800 students

over the next five years.

Invest SA, meanwhile, has presented the University with funding assistance to buy industrial standard VLSI software. This software will enhance the ability of CHiPTEC to win research contracts with major national and international companies. CHiPTEC collaborates closely with academics from the Department of Electrical and Electronic Engineering and partners from industry on leading-edge interdisciplinary research in VLSI systems.

At a function to mark the two presentations, Vice-Chancellor Professor Mary O'Kane thanked both Wind River Systems and Invest SA for their support. She said the new software would be a valuable asset to students and staff and ensure that the University maintained its international reputation for excellence in engineering education and research.

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## Appointment for rural health professor

ADELAIDE University Professor of Rural Health David Wilkinson has been elected to the Steering Group of the international Cochrane Collaboration.

The Cochrane Collaboration is the world's foremost network of professionals committed to evidence-based health care.

Professor Wilkinson, who is Director of the Whyalla-based Centre for Rural and Remote Health, spent 12 years working in rural South Africa where he initiated a series of successful programs in public health priority areas including tuberculosis, HIV/AIDS and sexually transmitted diseases.

He has been active with the Cochrane Collaboration as a reviewer and editor in the Infectious Diseases Group. He has also been involved in reviews of HIV and sexually transmitted diseases. In October he will travel to Cape Town to attend the organisation's annual colloquium and a series of other meetings.

Another Adelaide University staff member, Dr Caroline Crowther, is Deputy Director of the Australasian Cochrane Centre. A Senior Lecturer in the Department of Obstetrics and Gynaecology, she is currently undertaking systematic reviews of evidence around the effectiveness of pregnancy and child birth interventions.

# Malaysian student wins Governor's award

THE Australia Malaysia Business Council SA Inc presented its Merdeka Awards 2000 at its Annual Dinner at the Adelaide Convention Centre on Saturday 12 August.

The event involved 400 corporate leaders, Malaysian and other business council members, university staff and international student leaders.

Applicants for the awards must be Malaysian students in their final year of higher education, demonstrate qualities that will enable them to act as ambassadors for South Australia, have outstanding academic records, demonstrate that they have made contributions beyond just their studies and that they have contributed to the furthering of the relationship between South Australia and Malaysia.

Final-year Mechanical Engineering student Eddie Choong received the Merdeka Award for an Adelaide University student (there was an award for a student from each of the three South Australian universities). The awards include a

hand-made glass trophy, \$1500 cash and four weeks work experience with South Australian companies that do business in Malaysia.

Mr Choong was also presented with the prestigious Inaugural Governor's Award for Excellence by Sir Eric Neal AC CVO for his exemplary and outstanding achievement and significant contribution to bilateral relationships. This award includes return airfare to Kuala Lumpur.

Adelaide University's Alumni Association is a member of the AMBC-SA Inc and represented on its executive committee. Alumni Chair the Hon Greg Crafter was present at the dinner to congratulate Eddie on his success.

—Geoff Sauer

*Pictured from left: Stephanie Ngoi (Flinders University award winner), Eddie Choong (Adelaide University award winner), Datuk Adnan Othman (Malaysia High Commissioner), Sir Eric Neal (Governor of South Australia) and Sharon Yap (UniSA award winner). Photo: Sam Wordley.*



# From bomb scare to technology: women staff reflect

THE achievements of women general staff during Adelaide University's 126 years of operation were recognised at a special networking forum held on campus recently.

Organised by the Women's Professional Development Network steering group, the forum featured recollections of some of the longest-serving women general staff presently at the university, including Mrs Di Coffey, Mrs Sue Turner, Mrs Shirley Pearce and Ms Barbara McCullagh.

**Di Coffey** began her working life at the University in 1962 as a general secretary/typist under Noel Flentje, who was head of the Department of Plant Pathology at the time.

Apart from a stint at the University of Papua New Guinea from the late 1960s and early 1970s, she has been at the university ever since, and is presently the protocol and visits coordinator.

A notable wit and raconteur, she has thoroughly enjoyed her time at the university—including the time she and a fellow employee brought the university to a standstill:

"I was working in the academic registrar with Elizabeth Dines, who was often whizzing in and out off the office on interstate trips," Mrs Coffey recalled.

"This particular day she'd just come back from Canberra, and she'd come in to talk to me, when I heard this ticking noise. I said 'What's that ticking?' We looked at each other, and we worked out that it was coming from her briefcase.



Long-serving women general staff members at Adelaide University (from left) Di Coffey, Shirley Pearce, Sue Turner and Barbara McCullagh. Photo: Ben Osborne.

"So I said 'Perhaps you've picked up the wrong briefcase off the carousel at the airport', and we thought to be on the safe side we better ring security, just in case it was a bomb.

"Security came around, and they got the bomb squad to come around! We had to evacuate the entire building while the bomb squad looked at the briefcase.

"It didn't turn out to be a bomb, and it wasn't even the wrong briefcase—it was just a tape recorder Elizabeth had which was making that

tick, tick, ticking noise they make when they reach the end of the tape and get stuck!"

Mrs Coffey said in her experience, women general staff were always a well-regarded and vital part of the university's operation.

"It has been a delightful place to work, even back when I first started," she said. "People worked together very well, and I can't recall being discriminated against once."

**Barbara McCullagh** has been with the university for more than 23 years, and has spent the

entire time working with the Law School. She is now the School's senior administrative officer.

"The university has changed completely since I started," she said. "I think the biggest change for me is the technology.

"When I first started everything was done with letters, and then faxes took over and everything was done with them—and now, email is the main method of communication."

**Sue Turner** started her 22-year association with Adelaide University at the Barr Smith Library, and is now a project manager with Human Resources.

"The University is obviously a different place to when I first started, but I've really enjoyed working here with all the different people over the years."

**Shirley Pearce** is in her 19th year at the University, and started out as a part-time typist with the Faculty of Science. She is now project administrator of Project Endeavour, which is modernising and redeveloping the University's management information systems.

She too has seen much change at the University, particularly in the area of technology.

"I've gone from taking shorthand to using dictaphone machines, and to now using a laptop computer for taking meeting notes," she said. "Instead of using Gestetner machines—using waxed originals—I'm now using photocopiers where you just about need a degree in technology to operate them."

—Ben Osborne

# Alumni and friends sign in on Open Day

AS a symbolic gesture of its 'reaching out' approach, the Alumni & Community Relations office constructed a Sign-in Wall on the Goodman Crescent Lawns during this year's Open Day.

Students (both current and prospective), university staff, graduates and visitors to campus were invited to sign their name on an Adelaide University community board. Signatures from the Chancellor and Vice-Chancellor were among the first to appear on the wall. By the end of the day around 300 signatures had been collected, reflecting the diversity of our alumni and friends of the University.

Signatures from international students and visitors from Thailand, India, Malaysia, Hong Kong, Philippines, Lesotho and the United Arab Emirates highlighted the international theme of this year's Open Day. Alumni from the Association's Singapore Chapter faxed their signatures and the Hong Kong Chapter sent a colourful signed poster expressing their good wishes to the University.

Chairs and members of local alumni Chapters also contributed their signatures to the wall, including two



ROCA President Mr Brian Hannaford adds his name to the sign-in wall at Open Day.

members of the Roseworthy Old Collegians Association, Mr Brian Hannaford (President of ROCA) and Mr Peter Lewis who came to sign the wall in their new ROCA blazers.

It was wonderful to see so many graduates return to campus and not only sign the wall but also register with the Alumni Association. The Alumni & Community Relations office would like to thank all alumni and friends of the University who contributed their signatures to our community wall.

—Kim McBride

# CALL FOR NOMINATIONS TO NEW ALUMNI BOARD

At the recent Annual General Meeting of the Alumni Association on 27 June 2000, members voted to adopt a revised Constitution. As a result, there is a need to establish a new Alumni Board. The Nominations Committee for the selection of membership to the new Alumni Board will be meeting shortly to consider nominations. There is an urgent need to attract dynamic, effective and active policy making board members to the Association. As part of this process the Alumni Association is calling for nominations to the Alumni Board from current students, graduates, current and former academic and general staff, and friends of the University in the wider community. We are seeking nominations to provide the Board with:

- six nominees from Chapters of the Alumni Association
- four board members at large
- one nominee from the Postgraduate Students' Association who shall be a postgraduate student of the University
- one nominee from the Adelaide University Union who shall be an undergraduate student of the University.

Additional information on the Alumni Board, revised Constitution and required format for the nominations letter can be obtained from Kim McBride at the Alumni and Community Relations office at +61 8 8303 3196 or email <kim.mcbride@adelaide.edu.au>. The deadline for submission of nominations is Friday 15 September, 2000.

# Elder Con springs to life with new concerts

SPRING is upon the Elder Conservatorium, with a stunning program of concerts in Elder Hall to suit every music lover.

**The Lunch Hour concert** at 1.10pm on Friday 1 September features the Elder Conservatorium Symphony Orchestra conducted by the Adelaide Symphony Orchestra's internationally acclaimed Mr Nicholas Milton. Milton has been working with the orchestra this year as Conductor-in-Residence, and his chosen program for this concert is sensational, including:

- Aaron Copland's "Clarinet Concerto", featuring clarinet student Stephanie Wake-Dyster, winner of the 2000 Adelaide Eisteddfod Woodwind Concerto Final;
- Stravinsky's "The Firebird", based on the Russian fairy tale and first performed in Paris in 1910 with Anna Pavlova in the cast.

There have already been two complete sell-outs in the Lunch Hour Concert Series this semester. Doors open at 12.30pm and admission is still only \$3.00 (inc GST). Be early!

Meanwhile, the **Bach Festival 2000** is off to an early spring start with four Lunch Hour concerts from Tuesday 5–Friday 8 September at 1.10pm at Elder Hall. In this special year commemorating 250 years since the death of J S Bach, Dr Semyon Kobets, Head of Strings at the Elder Conservatorium, has been appointed Honorary Coordinator.

The program will showcase outstanding student chamber ensembles and soloists, together with distinguished local and international artists performing some of Bach's greatest chamber music. In a new initiative in 2000 the festival also includes the music of other composers who have been directly inspired by the great master.

**Tuesday 5 September**—"Secular and Sacred", featuring the 50-strong voices of the Adelaide Philharmonia conducted by Ian Boath, and the Sinfonia South Australia Chamber Orchestra under the baton of Artistic Director Russell Larkin. Keyboard student Anthony Hunt will also feature as a soloist on Elder Hall's Casavant Pipe Organ playing Bach's Toccata and Fugue in D Minor.

**Wednesday 6 September**—"Musical Offering", with international guest violinist Natsuko Yoshimoto from the United Kingdom, a scholarship student of the late Lord Yehudi Menuhin. Student musicians sharing the program are Kate Adams (cello), and Guy Harrison (violin) and Leigh Harrold (piano) with Sonata in A Major.

**Thursday 7 September**—"Homage to Bach" features acclaimed Elder Conservatorium lecturers Janis Laurs (cello) and Stefan Ammer (piano) performing Three Chorale Preludes by Bach-Kodaly, as well as award-winning student violinist Eleonora Szczepanowski with Sonata No 2 after Bach's "Preludio" for violin solo by Isaye. This concert also features soprano Rosalind Martin and the Elder Conservatorium Cello Ensemble performing the intriguing Bacchiana Brasileira No 5 by Villa-Lobos.

**Friday 8 September**—"Brandenburg Gates", including the Brandenburg Concerto No.3, the Elder Conservatorium Chamber Orchestra with distinguished guest artists Margaret Blades (violin), Juris Ezergailis (viola) and Carolyn Mooz (viola) from the Adelaide Symphony Orchestra. Dr Semyon Kobets (violin) and Janis Laurs (cello) will share the Conductor's role, as well as performing in this stunning finale.

—Diana Kidd  
Elder Hall Concert Manager



The Elder Conservatorium Symphony Orchestra.

## Enchanted evening on the South Pacific

MAGNIFICENT voices from the Elder Conservatorium Vocal School are set to revive the magic of Rodgers and Hammerstein's captivating romance, South Pacific.

Known as the singers' musical, South Pacific, directed by Tessa Bremner, opens on Friday 1 September with two further performances on Saturday 2 September in the Union Hall, Adelaide University.

First performed in 1949 on Broadway, South Pacific takes place on a tropical island during War World Two, where American sailors, nurses, Pacific islanders and a handsome Frenchman all live and love together.

As well as featuring well-known songs and music, there's high drama with the tension of war and a bittersweet story-line revealing racial prejudice and hatred, as well as the hazards of unexpectedly falling in love.

In the lead roles are Eleanor Blythman as the effervescent Nellie with David Thelander as

the fascinating Emile. Other cast members include James Pratt, Sum Ho, Marie Ashmore and David Hayton.

Ms Tessa Bremner is one of the most distinguished stage directors in Australia. She began her career as a dancer, singer and actor appearing in London's West End musicals and is now one of this country's most sought-after theatre professionals, combining a freelance lecturing career with her many other theatre commitments. She is also artistic director of the popular CoOpera company and founded the Multicultural Youth Theatre in Adelaide.

"Large-scale musicals are enjoying a major revival around the world and I've always wanted to do South Pacific," Ms Bremner said. "The issues it raises are very relevant today, the songs are still popular and it's a great learning experience for young singers to do a musical of this scale—to work in any music theatre, including opera, you have to be able to sing, dance and act."

The Musical Director is distinguished Elder Conservatorium graduate Mr Ian Boath, who has brought together an orchestra of 20 musicians from current Conservatorium students and graduates.

"South Pacific is quite a departure for the musicians, most of whom have been classically trained," Mr Boath said. "In the production they have to play blues riffs and jazz phrasing which they may not have experienced before, but like all performers they need to be versatile, even capable of playing a Bach Oratorio one day and My Fair Lady the next."

South Pacific is showing 8pm Friday 1 September and 2pm and 8pm on Saturday 2 September at Union Hall.

Tickets are \$15, \$10 concession and \$5 for Elder Conservatorium students and children under 12. All tickets are available from BASS on 131 246 or at the door.

—Sheila Bryce  
Helpmann Academy



Tessa Bremner "washes that man right out of her hair".

**ACCOMMODATION**

**ALBERTON:** Beautiful, comfortable cottage, 15-20 mins by train to city. 2 br, lge living rm with b-i bookshelves, sep dining, gas heating, air cond., fireplaces and polished floors. New kitchen & bathroom with spa. Unfurn; pets neg. Bond & refs required. Avail now. \$180 pw. Ph Eva 8447 8586 <eva.sallis@adelaide.edu.au>.

**ALDINGA BEACH:** Seafront holiday apartment. 2 br, fully furn & self cont, air cond, mins from Southern Vales wineries & restaurants. Beach walks. Ph: 8211 7500 (w) 84312679 (ah).

**BEACHFRONT:** Townhouse fully furn, fully self-cont, 2 br plus study, balcony, beautiful sea views, avail now. Ph Anne anytime 8400 8120 or 0419 380 503.

**BRIGHTON:** Beach Frontage: - 2 br unit with b-i robes, living room, bathroom &

kitchen. Secure carport. Great sea views. \$175 pw. Ph 0402 266 339.

**GLEN OSMOND:** 2-3 brs, unfurn. house (some b-is), close to transport & good schools, walking distance to Waite, no pets, lawns mown. Avail now. \$220pw + bond. Ph 8379-4869.

**HOLIDAY HOUSE SWAP.** Are you interested in swapping accomm in your holiday house for accomm. In my holiday house at Second Valley? School holidays, Sept or long vacation at Christmas. Ph Dianne 8379 6510.

**HOUSE EXCHANGE:** Mature age Masters student would like to exchange a house in or near the city (incl Gawler) for his farm house (Bordertown District) or student and his partner would house sit your house in or near city (incl Gawler) for up to 3 months initially. Ph 08 87532278.

**HOUSE SITTING:** Short

## Adelaidean

### CLASSIFIEDS

term rent needed from 13 Sept to end of Nov by 2 lecturers awaiting completion of city apartment. Ph 8376 7987 or 0407 396 440.

**NORWOOD:** 1 br studio apartment in tree lined street, fully equipped & furn. City bus close by, walking distance to Norwood Parade & restaurants. Suit short/med term researchers or visitors to Adelaide. Ph. 8211 7500.

**SHARE ACCOMODATION:** Male/Female non-smoker to share 2 br townhouse in Glenelg North. Close to transport & Jetty Road. \$85pw + exps & bond. Ph Julianne on 8376 8516 (ah) or <jclark@cancersa.org.au>

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

Ph Liliane 8362 4243.

**WANTED:** Academic & family seeks 3-4 br furn & equipped home for 1 year from Jan 2001. Prefer near Waite. Email: <ullman@udel.edu>.

**WANTED:** Academic couple & daughter seek accomm from 20 Jan 2001 to mid-2001 (shorter periods considered), prefer to house-sit. Ph Leighton McDonald (02) 6279 9772 or email: <leighton.mcdonald@adelaide.edu.au>.

**WANTED:** UK Prof with family requires 4 br fully furn house in eastern suburbs or within 10 kms of city 15 Sept - 28 Dec 00. Ph Val Kuliwaba 8303 5100 or email: <val.kuliwaba@adelaide.edu.au>.

**FOR SALE**

**BMX BICYCLE:** Suit 7-10

year old, 20-inch wheels, \$30.00. Ph 8303 4509.

**DAIHATSU ROCKY:** 1984 2.8 diesel, power steer, air cond., equipped for serious outback touring. HF radphone with Aust wide coverage, dual batteries, etc. UMO 259. \$7000 ono. Ph 8295 1611 or 0419 814 120.

**FORD FAIRLANE:** 81 6 cyl auto dual fuel, elec windows, p/steer, auto trans cooler, new tyres, suspension, engine upgrade. URA 532. \$2,800 Ph. 8264 0515, 0413 616 650 or email <gruvybabyeh@hotmail.com>

**FURNITURE:** Antique white wooden dressing table with stool, 2 chests of drawers, small table & chair, \$250 complete, or neg individual items. Ph 8303 4509.

**JAPANESE LANGUAGE TEXTBOOKS.** Very reasonably priced and in excellent cond. View at Unisure Level 1, 10 Pulteney Street. Ph Val 8303 5141.

**PIANO:** Full iron frame, Russell of London, including stool, good cond. \$800. Ph. 8288 1034.

**PHOTOGRAPHIC EQUIPMENT:** WOK studio strobe lighting system. Model WOK 3001-ML. \$300. Table top photographic stand, \$50. Ph 8222 4155 or email: <neville.deyoung@adelaide.edu.au>

**TABLE:** Pine, 3'11" x 2'6" with 3 chairs (foam seats) \$150 neg. Ph. 8250 8474.

**TRAMPOLINE:** Steel frame 2.6 m x 1.6 m. \$50. Ph 8303 4509.

**MISCELLANEOUS**

**CHILD CARE:** Reliable, references available, own transport. Ph Rebecca 8262 5134.

**RESEARCH SCIENTIST:** Thesis editing, literature searches, editing of research papers, incl. Checking references. Ph 8338 0334.

# Bulletin Board

AUGUST 28, 2000

ADELAIDE UNIVERSITY

PAGE 1

## MONDAY 28 AUGUST

**10.00am Politics Postgraduate Seminar:** Leo Strauss's Machiavelli by Kim Sorensen and Frequent Flyer Field Work by Jennifer Lauritsen. Room 420, Napier Building.

**11.30am Politics Staff Seminar:** The Political Lack in Australian Films by Greg McCarthy. Room 420, Napier Building.

**12noon Plant Science Seminar:** Genomics of wheat and barley by Professor Peter Langridge (Plant Science). Charles Hawker Conference Centre, Waite Campus.

**1.00pm Clinical & Experimental Pharmacology Seminar:** Do you give aspirin to a feverish reptile? By Dr Bruce Firth (Anatomical Sciences). Seminar Room, Level 6, Medical School, North.

**1.10pm Law Seminar:** Heterogeneous engineer: The construction of "judicial science" in the US Supreme Court by Gary Edmond. Room 216, Ligertwood Building.

**1.10pm Geographical & Environmental Studies Seminar:** Bringing them back: Interstate migration and South Australia by Professor Graeme Hugo (Geographical & Environmental Studies). Room 104, Environmental Studies Building.

**1.10pm Student Workshop:** Learn deep relaxation by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

**2.00pm English Staff/Postgraduate Seminar:** Progress and Pitfalls in Producing Aboriginal Life Narrative by Sue Hosking, Anne Bartlett & Maryanne Gale. Room 618, Napier Building.

**3.30pm ACUE Seminar:** Examination of PhD Theses by Dr Gerry Mullins (ACUE). Seminar Room 2, Level 2, Schulz Building.

## TUESDAY 29 AUGUST

**4.15pm History Staff/Postgraduate Seminar:** The Magical Comestible: The Role of Venison in Early Modern England by Dr Roger Hainsworth (History). Common Room 420, 4th Floor, Napier Building.

## WEDNESDAY 30 AUGUST

**10.10am Electrical & Electronic Engineering Seminar:** Assessing the Testability of Asynchronous Circuits Using Reachability by Mike Liebelt (Electrical & Electronic Engineering). Room EM212, New Engineering & Mathematics Bldg.

**1.10pm Horticulture, Viticulture & Oenology Seminar:** Accumulation of proline to high concentrations in plant tissues: a comparison of the osmotic stress response and developmental accumulation in grape berries by Dr Robyn van Heeswijck (Horticulture, Viticulture & Oenology). Plant Research Centre Auditorium, Waite Campus.

**1.10pm Geology & Geophysics Seminar:** Overpressure in the Barrow Sub-basin, North West Shelf, Australia by Dr Peter Tingate (NCPGG). Mawson Lecture Theatre, Mawson Laboratories.

**1.10pm Genetics PhD Update:** Michael Silson (third year). Seminar Room, Ground Floor, Fisher Building.

## COMING EVENTS

28th August — 8th September

**7.30pm Science & Mathematical Sciences Chapter of the Alumni Association:** The Detection and Identification of Illegal Pharmacologically Active Substances by Noel Sims (State Forensic Science Laboratories). Admission is free. Details from Robert Perrin 8303 4965. Rennie Lecture Theatre, Ground Floor, Johnson Building.

## THURSDAY 31 AUGUST

**12noon Hanson Centre for Cancer Research Seminar:** Current perspectives on the oxidative hypothesis of atherosclerosis by Dr Wendy Jessup (Heart Research Institute, NSW). Robson Theatre, RAH.

**12.05pm Psychology Seminar:** The psychological refractory period revisited by Dr John Brebner (Psychology). Room 527, Hughes Building.

**1.00pm Environmental Biology Seminar:** Shadow and light-effects of spatio-temporal cycles in under-canopy environments on plant growth and survival by Graeme Hastwell (Environmental Biology). Benham Lecture Theatre, Ground Floor, Benham Building.

**4.30pm School Governance Seminar:** Partnerships 21: How will we know it's working? By Paul Kilvert (DETE, SA). Flinders University. Details: fax 8274 1199 or email: <saier@cbconsult.com.au>.

## FRIDAY 1 SEPTEMBER

**10.00am Animal Science Seminar:** Rumen microbial degradation of non-protein amino acids in forage legumes by Hai Hong Peng (PhD student). Conference Room, Davies Building, Waite Campus.

**10.00am Social Inquiry - Labour Studies Seminar:** Can South African unions transform and meet the challenges of globalisation? By Jeannie Rea. Seminar Room, 3rd Floor, 10 Pulteney Street.

**11.30am Social Inquiry - Gender Studies Seminar:** The (m)other myth: disrupting feminism's commitment to the 'maternal subject' in reproductive politics by Angella Duvnjak. Seminar Room, 3rd Floor, 10 Pulteney Street.

**1.10pm Elder Conservatorium Lunch Hour Concert:** Elder Conservatorium Symphony Orchestra, Nicholas Milton - conductor, Stephanie Wake-Dyster - clarinet. Copland - clarient concerto; Stravinsky - Firebird Suite. Admission \$3 inc GST at the door. Elder Hall.

**1.15pm Inaugural Lecture:** Application of genetic modification techniques to the cut flower industry by Professor Edwina Cornish (DVC Research & Professor of Biotechnology). Lecture Theatre G04, Napier Building.

**1.15pm Physics in the Spotlight:** Theoretical Physics by Professor A Thomas, Associate Professor A Williams, Dr R Crewther, Dr L Leinweber. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

**4.00pm Obstetrics & Gynae-**

**cology Seminar:** Asthma management: wherefrom? whereto? by Prof Dick Ruffin (Medicine, TQEH). Seminar Room, 6th Floor, Medical School, North.

## MONDAY 4 SEPTEMBER

**12noon Plant Science Seminar:** Improving the characteristics of barley-amylase by Ms Yeufang Ma (PhD student). PS Seminar Room, Waite.

**1.00pm Clinical & Experimental Pharmacology Seminar:** Metabolism and disposition of methadone with respect to stereoselectivity by Mr David Foster (Clinical & Experimental Pharmacology). Seminar Room, 6th Floor, Medical School, North.

**1.10pm Geographical & Environmental Studies Seminar:** Geography and Environmental Studies in Australia: Symbiosis for survival in the 21st century by Associate Professor Nick Harvey (Geographical & Environmental Studies). Room 104, Environmental Studies Building.

**1.10pm Law Seminar:** Judicial power: A qualitative analysis by Linda Kirk. Room 216, Ligertwood Building.

**8.00pm Classical Association of SA Meting:** The Art of Crucifying and the Crucifixion in Art: Fact and Fiction in the Earliest Images of Christ's Death by Felicity Harley. Council Room, Hughes Building.

## TUESDAY 5 SEPTEMBER

**1.10pm Elder Conservatorium Bach Festival:** Secular and Sacred - Adelaide Philharmonia Chorus, Timothy Sexton - Music Director. Admission \$3 inc GST at the door. Elder Hall.

**1.10pm Student Workshop:** Procrastination by Sally Hebenstreit. Counselling Centre, Ground Floor, Horace Lamb Building.

**4.15pm History Staff/Postgraduate Seminar:** The Web of Honour in Seventeenth Century England by Dr Barbara Donagan (Huntington Library, Visiting Fellow - ANU). Common Room 420, 4th Floor, Napier Building.

**5.00pm North Terrace Neuroscience Discussion Group:** Studies on the nerve cell response following traumatic brain injury by Dr Corinna Van Deen Heuvel (Pathology). Seminar Room, 6th Floor, Medical School, North Wing.

**7.30pm Free Public Lecture:** Nanotechnology - where physics, chemistry and biology unite in the realm of the ultra-small by Dr Michelle Simmons (Uni NSW). Union Hall.

## WEDNESDAY 6 SEPTEMBER

**10.10am Electrical & Electronic Engineering Seminar:** A Novel TCP Congestion Control Scheme and its Performance Over Wireless Links by Wei Xu (Postgraduate). Room EM212, New Engineering & Mathematics Bldg.

**12.30pm Clinical Nursing Seminar:** Exploring the Role of Enrolled Nurses in the Rural Setting by Dr Carol

Bradley (Research Fellow, Centre for Research into Nursing & Health Care, University of South Australia). Room 36, Level 3, Eleanor Harrald Building, RAH.

**1.10pm Geology & Geophysics Seminar:** Palaeoecology: temporal context for environmental management by Dr Peter Gell (Geographical & Environmental Studies). Mawson Lecture Theatre, Mawson Laboratories.

**1.10pm Elder Conservatorium Bach Festival:** Admission \$3 inc GST at the door. Elder Hall.

**1.10pm Genetics Seminar:** Title to be advised, by Silvia Manzanero. Seminar Room, Ground Floor, Fisher Building (southern entrance).

**5.30pm Centre for Biomedical Engineering Seminar:** Reverse anatomy: building body parts instead of cutting them up by Professor Maciej Henneberg. SG15 Hone Lecture Theatre, Ground Floor, Medical School South.

## THURSDAY 7 SEPTEMBER

**12noon Hanson Centre for Cancer Research Seminar:** Growth Hormone Receptor Signalling: expect the unexpected by Professor Mike Waters (Physiology & Pharmacology, University of Queensland). Robson Theatre, RAH.

**12.05pm Psychology Seminar:** Current Special Education Policy in NZ for children with mild intellectual disability: Does "Inclusion" really mean "Exclusion"? by Dr Keri Wilton (Education, University of Auckland). Room 527, Hughes Building.

**1.00pm Environmental Biology Seminar:** New theory on parasites of Australian fauna by Dr Ross Andrews (Environmental Biology). Benham Lecture Theatre, Ground Floor, Benham Building.

**1.10pm Elder Conservatorium Bach Festival:** Homage to Bach. Admission \$3 inc GST at the door. Elder Hall.

**4.15pm Centre for British Studies Talk:** Enemies and Friends in War and Peace: The English Civil War and English Society by Dr Barbara Donagan (Huntington Library, Visiting Fellow - ANU). Napier Undercroft, Ground Floor, Napier Building.

## FRIDAY 8 SEPTEMBER

**11.30am Social Inquiry - Gender Studies Seminar:** Evocations of belonging: contingent boundaries and identities by Megan Warin. Seminar Room, 3rd Floor, 10 Pulteney Street.

**1.10pm Elder Conservatorium Bach Festival:** Brandenburg Gates. Admission \$3 inc GST at the door. Elder Hall.

**1.15pm Inaugural Lecture:** Pregnancy: an inflammatory issue by Professor Gustaaf Dekker (Obstetrics & Gynaecology). Lecture Theatre G04, Napier Building.

**1.15pm Physics in the Spotlight:** Mathematical Physics by Dr P Szekeres, Dr Max Lohe, Dr P Bouwknegt. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

**4.00pm Obstetrics & Gynaecology Seminar:** Cloning pigs for xeno transplantation by Dr Andrew Boquest (BresaGen, Medical School). Seminar Room, 6th Floor, Medical School, North.

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\*

EXPRESSIONS OF INTEREST  
MANAGER STRATEGIC PROCUREMENT  
(Ref: 3172) (Continuing)  
Division of Finance and Infrastructure  
Salary: HEO10 \$61,141

As a result of the refocussing of the Division of Finance and Infrastructure on more business-like practices the position of Manager Strategic Procurement has been established.

This continuing position is available from 1 October 2000. Further information including the duty statement and selection criteria can be obtained from the Executive Director, Finance and Infrastructure, tel 8303 4840.

Expressions of interest close 8 September 2000.

COURSE COORDINATOR  
(Ref: 3189) (Fixed-term)  
Department of General Practice RAH  
Salary: HEO3 \$27,174-\$30,979

This fixed-term position is available immediately for a period of one year. Some out of hours work required. Further information including the duty statement and selection criteria may be obtained from Felicia Burton, tel 8303 3460.

Applications close 5 September 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.

COMPUTING OFFICER  
(Ref: 10547) (Continuing)  
Department of Computer Science  
Salary: HEO 5/6: \$32,337-\$42,664

The position is available immediately on a continuing basis. Further information including the selection criteria and duty statement from Professor CJ Barter, tel 8303 5681, fax 8303 4366, or email <[vacancies@cs.adelaide.edu.au](mailto:vacancies@cs.adelaide.edu.au)>.

Applications close 8 September 2000.

TELECOMMUNICATIONS TECHNICIAN  
(Ref: 10550) (Fixed-term)  
Division of Student & Staff Services  
Information Technology Services  
Salary: HEO5 \$35,191-\$39,268

This fixed-term position is available immediately on a five-year contract. Further information including the duty statement and selection criteria may be obtained from Margaret Cooper, tel 8303 5813.

Applications close 1 September 2000.

NETWORK SUPPORT OFFICER  
(Ref: 10551) (Fixed-term)  
Information Technology Services  
Salary: HEO4 \$31,252-\$34,376

This fixed-term position is available immediately for a period of two years.

Further information, including the duty statement and selection criteria, may be obtained from Margaret Cooper, tel 8303 5813.

Applications close 1 September 2000.

TECHNICAL ASSISTANT  
(Ref: 10520) (Fixed-term)  
Department of Plant Science - Waite Campus in association with Cooperative Research Centre for Molecular Plant Breeding  
Salary: HEO4 \$31,252-\$34,376

The Department is seeking a suitably experienced person to provide technical assistance in a Grains Research and Development Corporation (GRDC) funded project in the Cereal Cytogenetics Laboratory. The position involves laboratory, glasshouse and some field duties.

This fixed-term position is available from 1 September 2000 until 30 June 2004.

Further information including the duty statement and selection criteria may be obtained from Dr Ian Dundas, tel 8271 5086, mobile 0417 819986 or email <[ian.dundas@adelaide.edu.au](mailto:ian.dundas@adelaide.edu.au)>.

Applications close 8 September 2000.

STUDENT SERVICE OFFICER  
(Ref: 4745) (Continuing)  
Student Support Services  
Salary: HEO4 \$31,252-\$34,376

To provide a full range of administrative services including front counter support.

This continuing position is available immediately. For information including the duty statement and selection criteria please contact Sally Hebenstreit on: 8303 5663 or email <[counselling.centre@adelaide.edu.au](mailto:counselling.centre@adelaide.edu.au)>.

Applications close 4 September 2000.

SENIOR ANIMAL CARE OFFICER  
(Ref: 2425) (Continuing)  
Laboratory Animal Services  
Salary: HEO4 \$31,252-\$34,376

Laboratory Animal Services supports Adelaide University's biomedical research community through the delivery of best practice animal husbandry and the provision of world standard laboratory animal products and services.

This continuing position is available immediately. Information about the position can be obtained from Andrew Bartlett, Manager, Laboratory Animal Services, tel 8303 4665.

Further information including the duty statement and selection criteria may be obtained from Faye Gardner, tel 8303 5340 or email <[faye.gardner@adelaide.edu.au](mailto:faye.gardner@adelaide.edu.au)>.

Applications close 11 September 2000.

HUMAN RESOURCES  
DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 11 September, advertising paper work must be received in Human Resources by 25 August.

For the *Adelaidean* of 25 September, advertising paper work must be received in Human Resources by 8 September.

GENERAL  
NOTICES

Special Studies Program

**Special Studies commencing in the period July-December 2001.**

Applications are now invited for Special Studies commencing in the **second half of 2001**. Applications from Human Resources (ext 35666 or 35177) or from: <[http://www.adelaide.edu.au/HR/services/f\\_sspapp.htm](http://www.adelaide.edu.au/HR/services/f_sspapp.htm)> and should be returned to Human Resources through the Head of the Department **no later than 30 September 2000**.

Following a recent review of the SSP, the University has revised the rates of financial support for staff undertaking SSP activities from 2001 as follows:

1. Calculation of airfare assistance will be simplified and related more closely to the actual cost for the staff member and dependents, to provide reimbursement of the economy-class, advance-purchase return airfares up to a maximum figure as set out below for the staff member and each dependent charged an adult fare, with an appropriate fraction for dependent minors based on actual fares charged.
- for travel to UK, Europe or North America up to \$2,800;
- for travel to Asia, Africa or South America up to \$2,000;
- for travel in Australia and the Pacific up to \$1,000.
2. The travel grant may be awarded once for each three years of employment and the present complexity under which a staff member elects to use a certain number of "fare days" will be eliminated.
3. The allowance as a cost of living subsidy will be doubled, ie based on 14.4% of the daily salary of a Level C at step 6 for travel in Australia or the Pacific.

The revised policy and associated documentation are available on the HR web page. The payment procedures with regard to taxation arrangements are currently under review and will be finalised shortly.

The supporting statement on page 6 of the application must be completed by the Head of the Department and Heads are reminded that in accordance with Para 2.1.6 of the Special Studies Program Policy they are asked to comment specifically on both the academic justification for the program and itinerary, and the implications in terms of the teaching, examining and administrative needs of the Department. All applications should be considered by the Departmental Committee before submission.

Under the terms of Paragraph 2.1 of the Policy all applicants will be required to justify the period of Special Studies sought, irrespective of the length of the period involved. Questions about the scheme should be directed to the Julie Raeck, ext 35177.

STEVE DAYSH  
General Manager  
Human Resources

Academic Promotions Update

The processing and ranking of applications for each of the levels has progressed to the following stages:

**APPLICATIONS FOR PROMOTION TO LECTURER (LEVEL B) AND SENIOR LECTURER (LEVEL C)**

Faculty of **Agricultural and Natural Resource Sciences** - recommendations approved and applicants are currently being advised.

Faculty of **Science** - recommendations approved and applicants are currently being advised.

Faculty of **Humanities and Social Sciences** - promotions committee to meet and consider applications in late August.

Faculty of **Performing Arts, Law, Architecture, Economics and Commerce** - promotions committee to meet and consider applications in late August.

Faculty of **Health Sciences** - promotions committee to meet and consider applications over two meetings, the last to be held early October.

Faculty of **Engineering, Computer and Mathematical Sciences** - promotions committee to meet and consider applications in late September.

**APPLICATIONS FOR PROMOTION TO ASSOCIATE PROFESSOR (LEVEL D)**

Some reports are still outstanding which Human Resources are pursuing.

Applicants are reminded that these applications will be ranked by the Discipline Sub-Panel and the University Promotions Committee. Recommendations will be approved by the Vice-Chancellor.

**Physical Science Discipline Sub-Panel:** Ranking will begin early September.

**Biological & Health Sciences Discipline Sub-Panel:** Ranking will begin early September and will continue through to late October.

**Humanities and Social Sciences Discipline Sub-Panel:** Ranking will begin mid September.

The University Promotions Committee will meet on a regular basis from early September.

**APPLICATIONS FOR PROMOTION TO PROFESSOR (LEVEL E)**

Assessor and/or Head of Department reports are still outstanding for the majority of applications.

Human Resources will continue to pursue these reports and are also arranging meetings of the Discipline Sub-Panels (E).

We thank members of the Faculty Committees and Discipline Sub-Panels for making themselves available for the meetings arranged and those about to be organised.

STEVE DAYSH  
General Manager  
Human Resources

# Survey of Occupational Stress in University Staff

Dear Colleague

A letter appeared in the last issue of the Adelaidean (Bulletin Board, 14 August 2000) ostensibly from me and Dr Rod Crewther. Unfortunately, neither the letter nor the survey had been sent to me for amendment or clearance.

The letter asked staff members to take 30 minutes of their time to fill out a survey on occupational stress.

However, following the publication of this letter I have received some understandable complaints from staff who believe that to take half an hour to complete the survey may in fact add to busy workloads.

This was not the intent of the survey.

I would like to make it quite clear to all staff that the survey of occupational stress is optional.

It is entirely up to individual staff members to decide whether or not they choose to take part.

MARY O'KANE  
Vice-Chancellor

## Website redevelopment

A project team attached to the Media Marketing & Publications Unit has been working for several months on a major redevelopment of the University's website.

The aim of the redevelopment is to create a website that provides easier access to the University's services and positions the University as a leading international provider of tertiary education, research and research training.

The project team has consulted widely with staff and students in all areas of the University.

The project is about to enter its next phase and, once again, the input of University staff and students will be critical. From September, the website will take on a new appearance for a three-month trial period. This initial "facelift" will change the look rather than the structure or content of the site, although the information on student and staff services, and on alumni, will reflect recent changes in these areas. (A new structure for the overall website will be trialled later in the year.)

To gather comment on the new look, on-line feedback forms will be provided. These will be available not only to students and staff at the University but also to the wider web community, including such key users as prospective students, researchers, industry and others.

As part of the trial, all Faculties are being asked to explore how their individual identities can best be expressed within the new-look website. To assist with this, the project team will be providing draft templates to staff responsible for maintaining Faculty and/or departmental pages.

This trial will be critical in helping the University to develop a website that better meets the needs of users and promotes the University more effectively as an international leader in education and research. I encourage everyone to support it.

MARY O'KANE  
Vice-Chancellor

## Project Endeavour update

The Admissions and Campus Community modules of PeopleSoft are all set to Go Live (ie commence operation) at the end of August, putting into place the first steps in the process that will see all enrolments for 2001 handled by the new system.

Faculties and Schools will be entering data on prospective students and applicants into the PeopleSoft system from the Go Live date in readiness for the enrolment of new students for next year. Re-enrolments in the new system commence in November.

The new system will provide the opportunity to track people through the student life cycle from prospect to graduate and beyond. This wealth of information will be available to assist in the planning process to ensure that the University remains the institution of first choice within the local community, and continues to develop its standing with students around the world.

Indeed Adelaide University has drawn comment from universities both in Australia and overseas for the capability we have shown in implementing PeopleSoft modules in such a short time and with the level of resources we have.

A network of trained Super Users has been put in place, together with the Student System Administrator and technical specialists, to provide support and assistance to users of the system.

Other projects which are moving toward Go Lives in a month or so:

**FINANCE**

The Upgrade to PeopleSoft version 7.5 has been deferred indefinitely. Asset Management, Billing, Receivables and Inventory will now be implemented as Version 7.0. Asset Management will now Go Live in September. It is envisaged that the Assets module will only impact the Finance Branch in the first instance. Billing and Receivables along with Inventory will Go Live on October 3. These two modules will have small user bases (around 50 in total), with Inventory impacting only on the Faculty of ANRS and Science. Training for these modules will commence in Mid September. · CRP's have been completed for Asset Management and Inventory. Billing and Receivables CRP's are in progress. Development work for all modules is currently underway and acceptance testing for Assets will commence in mid August. The Finance project will wind up at the end of October when the month's post implementation support period concludes.

**RESEARCH MASTER**

ResearchMaster was implemented in December 1999 within Research Branch to manage competitive research grants. Its extension into the Office of the Vice-Chancellor to manage human and animal ethics has followed recently. In both instances historical data has been brought over from old systems backdated to at least 1995.

During Stage 2 the project team is involved in an upgrade to a more recent version offering new required functionality and enhanced performance. Currently personnel interfaces are being developed to automatically provide staff and student details, while a link to the General Ledger is to be developed with the software vendor to bring summary income/expenditure data alongside project information. These enhancements, along with the embedded email triggered by milestone events, will enable improved customer service and procedures centrally to researchers and departments. At the same time a pilot activity with representatives from nearly all faculties is investigating how these will be used in the long term by the university as locally funded and internal research activity come under one "research" umbrella. In conjunction with these activities the project team is investigating a reporting tool which will be able in the longer term to serve central, local and executive reporting needs. Recommendations from the pilot group are expected to provide a structured framework framework within which to extend the use of the resulting research system across the wider university community beyond the current project.

CHERYL MCDONNELL  
Project Endeavour

## Women's Professional Development Network

For more details visit our web site at: <<http://www.adelaide.edu.au/wpdn>>. **Coming Events:** 12.30pm, Tuesday 5 September: "How do recruitment agencies work? How to get the job, Getting the job, Why didn't I, How important is Networking?" Our guest facilitator is Christine Locher from Select Staff. Free event, bring your lunch, Ira Raymond Room, Barr Smith Library

Urrbrae House & Snell Productions

## Broadway Hits

**Performing highlights from the popular musicals featuring Adam Goodburn, Jane Duncan & Katrina Reynolds, Sunday 3 September, 2-4pm.** Urrbrae House, Waite Campus. \$20/Conc \$17.50 (inc GST & refreshments). Tel: 8303 7497.

## Undergraduate Medical Research Vacation Scholarship 2000-2001

The University of Adelaide offers Vacation Scholarships to provide undergraduate students with an opportunity to participate in medical research projects. These projects are to be carried out during the summer vacation. The Scholarships are tenable up to a max of 8 weeks during the vacation, with a stipend of \$150 pw. The final 2 weeks payment will be made only after the receipt of a satisfactory report in the form of a short, scientific report (approx. 2-3 pages). In addition, awardees would be expected to give a verbal presentation within the Department or on a Faculty-organised basis.\*

Projects can be carried out in University Departments, the IMVS and affiliated hos-pitals which provide appropriate facilities. They are to be supervised by an appropriate research worker or clinician who is required to supply a written agreement regarding his/her ability and willingness to provide the necessary supervision.

**ELIGIBILITY**

The Scholarships are open to undergraduate students of the University of Adelaide. Applicants should have success-fully completed at least two years of their course at the time the scholarship commen-ces. All arrangements for acceptance and supervision by a University department must be made by the applicant who may only hold one scholarship at any one time. As a rule, the project will be undertaken individually; however, consideration will be given to applicants who may elect to work in pairs on a particular project if such an arrangement has the approval of the relevant Head of Department.

**PARTICIPATING DEPARTMENTS**

The Scholarships may support Medical Research in the following Departments: Anaesthesia & Intensive Care, Anatomical Sciences, Clinical & Experimental Pharmacology, Clinical Nursing, Dental School, General Practice, Medicine, Molecular Biosciences (formerly

Biochemistry, Genetics and Microbiology & Immunology), Obstetrics & Gynaecology, Orthopaedics & Trauma, Paediatrics, Pathology, Physiology, Psychiatry, Psychology, Public Health and Surgery and any other departments undertaking biomedical research.

**APPLICATION PROCEDURES**

Applications should be made (in duplicate). In submitting an application the following information should be provided:

(a) Full name, date of birth, private address and telephone number of applicant and address for all correspondence.

(b) Details of academic record to date, including courses completed, year of completion and results obtained, current student identification number.

(c) A title and brief description of the medical research program envisaged (minimum 500 words, maximum two typed A4 pages), the department and location concerned, the proposed starting date and the perceived length of time the work will take - excluding holiday breaks and public holidays.

(d) A letter from the Head of Department indicating support for the project and its ranking within the Department. The Head should also nominate a supervisor for the project (the supervisor may be an academic staff member or a clinical or affiliate title holder approved by the Head of Department).

(e) The date of application and your signature.

**Completed applications should be addressed to:**

Mrs Stella Richards, Committee Secretary (Medicine), Faculty of Health Sciences Research Committee, Medical School, University of Adelaide, AUSTRALIA 5005

**Applications will close at the Medical School Office on Friday 6 October 2000 at 4.00pm.**

# Research Branch: Special Notices

## ADELAIDE UNIVERSITY SMALL RESEARCH GRANTS SCHEME 2001

Following the discontinuation of the ARC Small Grants Scheme, applications are invited for funding under the Adelaide University Small Research Grants Scheme for 2001.

This scheme aims to support, on a competitive basis, high quality research projects of modest cost conducted by excellent researchers. In assessing applications attention will be paid to the potential of the project to lead to future funding from other sources and the strategy identified in the application to obtain such funding. Some allowance will be made for early career researchers or those who have had career interruptions or other special circumstances.

The Application Form, the scheme guidelines and other information are available on the Research Branch web site at: <<http://www.adelaide.edu.au/RB/electronic.html>> or by clicking on "What's New" on the Research Branch home page.

Prospective applicants should note that the closing date for applications is Monday 18 September and that late applications will be accepted only in the most extreme circumstances.

### INFORMATION SESSION

An Information Session for prospective applicants will be held in the Council Room, Level 7, Wills Building, North Terrace at 12.30pm on Monday 28 August 2000 (not Friday 31 August as indicated in the preliminary notice in the *Adelaidean* of 14 August).

## MEMBERSHIP OF DISCIPLINE PANELS: Expressions of Interest

Expressions of interest are invited for appointment to the four Discipline Panels responsible for assessing and ranking applications to the scheme [Biological Sciences; Chemical, Mathematical and Physical Sciences; Engineering, Earth and Applied Sciences; and Humanities and Social Sciences]. In particular, there are a number of vacancies on the Engineering, Earth and Applied Sciences panel.

Those eligible to serve as Panel members are all members of the University who are eligible to apply for AU Small Research Grants as first-named chief investigators. Further details concerning eligibility and a form to be used to lodge an Expression of Interest may be found on the Research Branch website at the address given above. Expressions of Interest close on Friday 8 September.

## AUSTRALIAN-GERMAN JOINT RESEARCH CO-OPERATION SCHEME

We are pleased to announce details of a two year pilot scheme which is jointly funded and managed by Adelaide University, Australian National University, the Commonwealth Government Department of Industry, Science and Resources, and the German Academic Exchange Service (DAAD). The scheme aims to foster international scholarly and scientific cooperation through funding of researchers who participate in co-operative research projects between Adelaide University, the Australian National University and the Federal Republic of

Germany. We envisage that up to 100 staff exchanges will be funded during the course of the pilot scheme.

The scheme will enable Australian researchers from the two Australian universities to:

- pursue international networking;
- undertake research and development projects funded by other sources;
- gain access to leading edge technologies;
- promote innovation;
- establish links through exploratory visits; and
- work closely with Australian industry on new applications and processes.

The focus of the scheme is mainly on science and technology collaboration and the attraction and diffusion of leading-edge technologies to industry in both countries. A limited allocation is set aside, however, for research projects in humanities and social sciences disciplines which demonstrate potential benefits to both countries.

Fields of science to be covered under the scheme include:

- Agricultural and Rural Based Manufacturing including food industry, forestry, fisheries and mariculture;
- Biotechnology and Medical Science and Technology including health, pharmaceuticals, scientific instruments, and enhancements to other sectors where biotechnology is the main focus;
- Environment including water, renew-

- able energy, marine science, greenhouse gases, climate change;
- Information and Communication Technology including surveying, mapping;
- Materials, Manufacturing Technologies and Systems including engineering, automotive, building, construction, standards, chemicals, transport, aerospace, space technologies, nanotechnology;
- Mining and Energy including fossil fuels, geology;
- Other including astronomy.

A unique aspect of this scheme is that successful applicants will participate in a pre- and post- visit program which will include a short course in the areas of industry liaison, commercialisation and intellectual property as well as survival German. Funds have also been allocated for participants to receive some teaching relief support after their visit, for a period of up to six weeks, to enable researchers to follow up the results of their overseas visit by approaching local industry and writing reports.

Subject to final approval of the details, it is intended that the first call for applications will be made on 1 September, 2000. The application form and scheme guidelines will be available on the Research Branch website from that date.

Should you require any further details, please contact Lynette Kelly of the Research Branch on ext 35175.

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

# RESEARCH GRANTS AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

## Research Grants and Fellowships

The following is a sample of grant, fellowship and other research funding schemes currently available for application. The complete listing, together with guidelines and applications for some of the major schemes, are available at: <<http://www.adelaide.edu.au/RB/>>. For hard copy applicationss and guidelines for the funding schemes listed below, contact the Research Branch, ext 35137; or email <[kelly.parish@adelaide.edu.au](mailto:kelly.parish@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.

**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>>.

**Australia Council Grants Program - Aboriginal & Torres Strait Islander Arts:** Internal closing date: Various. Web site: <<http://www.ozco.gov.au/atsia/index.htm>>.

**Australian Academy of Technological Sciences & Engineering - The Crawford Fund Training Fellowships** (international research in agriculture and natural resource management): Applications may be made at any time. Web site: <<http://www.atse.org.au/crawford/crawford.htm>>.

**Radiological Society of North America - Research and Education Foundation - Seed Grants:** Internal closing dates: 1 September 2000. Web site: <<http://www.rsna.org>>.

**University of Cambridge in association with Wolfson College at Cambridge University - Smuts Visiting Fellowship**

**in Commonwealth Studies 2001-2002:** Internal closing date: 1 September 2000. Web site: <<http://www.wolfson.cam.ac.uk/notices/smuts.html>>.

**Dept of Industry, Science and Resources - National Science Week 2001 Project Grants:** Internal closing date: 4 September 2000. Web site: <<http://www.isr.gov.au/science/stap>>.

**Australian Centre for International Agricultural Research (ACIAR) - Collaborative R&D projects:** Internal closing date: 4 September 2000. Web site: <<http://www.aciar.gov.au>>.

**Criminology Research Council - Research Grants:** Internal closing date: 8 September 2000. Web site: <<http://www.aic.gov.au/crc/application.html>>.

**National Research Council (USA) - Resident Research Associateships for the NASA Ames Research Cen:** Internal closing date: 15 September 2000. Web site: <<http://www4.nas.edu/osep/rap.nsf>>.

**Dept of Health and Human Services (USA) National Institute of Neurological Disorders & Stroke Research / National Institute of Diabetes, Digestive and Kidney Disorders / National Institute of Child Health and Human Development / National Institute of Mental Health / National Centre for Research Resources - Project Grants:** Internal closing date: 15 September 2000. Web site: <<http://grants.nih.gov/grants/guide>>.

**Korean Association of Science & Technology in Australia (KASTA) - 2nd Korean Brain Pool Program in 2000** (scientists and engineers from overseas to work in various research institutes in Korea): Internal closing date: 15 September 2000. Web site: <<http://www.kasta.org.au>>.

**Adelaide University Small Research Grants Scheme 2001:** Internal closing date: 18 September 2000. Web site: Research Branch (click on Electronic Application Forms)

## 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 SA2,800 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: SCAN3,500 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](mailto:eva.zarka@dfait-maeci.gc.ca)> or visit the ACSANZ Web Site: <<http://www.powerup.com.au/~acsanz>>.

**Epilepsy Association of NSW Research Scholarships 2001:** Open to medical, nursing and allied health professionals who have experience in the care of people with epilepsy and/or are working in epilepsy research at universities, colleges or teaching hospitals in Australia. Value: \$35,000pa plus up to \$2,500 travel and conference expenses. Tenable for one year. Applications from Mr Keith Roberts, tel: )02) 9856 7090, email: <[researchschol@epilepsy.org.au](mailto:researchschol@epilepsy.org.au)>. Closing: 29 September (NSW).

**Fulbright Awards 2001 to study in the USA: Postgraduate Awards:** to undertake an American higher degree or engage in research towards an Australian higher degree in any field of study. Postdoctoral Awards: for study/research for 3-12 months. Senior Scholars Awards: for senior scholars and professionals of academically based professions to visit the

USA for 3-6 months. Professional Awards: for practitioners in any field who have a record of achievement and are posed for advancement to a senior management or policy role wishing to undertake a professional development program in the USA for 3-4 months. Further information & applications available only from the Fulbright Web site: <<http://sunsite.anu.edu.au/education/fulbright>>. Closing: 31 August (Student Centre).

**George Murray Scholarship:** Open to Adelaide University graduates who wish to undertake postgraduate study or postdoctoral research in approved universities or other institutions outside of Australia. Postgraduate study tenable for up to three years, postdoctoral research tenable for one year. Closing: 31 October (Student Centre).

**National Heart Foundation Postgraduate Research Scholarships 2000 (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: 25 October (non-medical) (Student Centre).

**Mutual Community Postgraduate Travel Grant; AUGU/RC Heddle Award:** Up to three grants in total, each worth \$2,500, are available to assist doctoral candidates (a) to travel to a conference at which the student will present his or her work, or (b) to travel to another institution to learn a particular method essential to his or her work (which cannot be learned at Adelaide). Application forms for the September round can be obtained from Alumni & Community Relations, 44 Kintore Avenue or from the website at: <<http://www.adelaide.edu.au/pvc-id>>. Applications close 5pm, 15 September. Further details from Kim McBride, Alumni & Community Relations Activities, tel (08) 8303 3196 or email: <[kim.mcbride@adelaide.edu.au](mailto:kim.mcbride@adelaide.edu.au)>.