

Impact of Di's death finally revealed in study

THE DEATH of Princess Diana not only created a shared sense of mourning among South Australians, it also had a much stronger impact on some people's physical and mental health, according to a new study.

Research conducted jointly by Adelaide and Flinders universities reveals there was a dramatic increase in demand for support group and counselling services in Adelaide in the weeks immediately following Diana Spencer's death.

More than 50% of metropolitan services which specialise in grief counselling experienced an increase in requests for help—not necessarily because those suffering grief were concerned for Diana or her family, but because her death had made them relive their own experiences of losing loved ones.

While most support services faced a 25% increase in calls from the public, one service received as much as 75% more calls. In many cases the services—including both specialist grief support services and the more general counselling ones—weren't prepared for the rise in need from grieving members of the public.

Princess Diana died from injuries received in a car crash on 31 August 1997. Her death shocked millions of people around the world in a way not felt since the assassination of US President John Kennedy in the 1960s.

Such high-profile deaths can have a major impact on the public, say researchers Dr Sheila Clark (Department of General Practice, Adelaide University), Mr Michael Bull (Department of Social Work & Social Administration, Flinders) and Ms Katherine Duszynski (General Practice, Adelaide).

"There've been papers written showing the impact that deaths of famous people have on

psychiatric patients, but nothing's really been done before on the impact on the general public, how much it affects them and the way it affects them," Dr Clark said.

What surprised the researchers wasn't the increase in demand for grief-related support services, but the wide variety of reasons behind it. In most cases it was because Diana's death had reminded the public of their own losses. People sought counselling for past incidents such as:

- the death of a young person (particularly of Diana's age) or a child;
- death of a young spouse (identifying with Charles);
- death of parents (identifying with William and Harry);
- an accidental death (in particular motor vehicle accident) or a suicide;
- deaths in which media coverage was a feature.

People suffering anxiety disorders or post traumatic stress disorder were also deeply affected by Diana's death.

"There were a few who phoned up just because they were concerned about Diana and her family, but they were in the minority. The real issue was this 'retriggering' of people's grief," Dr Clark said.

"Some of these people were not only experiencing emotional issues but also physical health issues which accompanied their grief.

"Serious complications of grief include depression, anxiety, substance abuse—such as alcohol and medication abuse—relationship breakdown and days lost from work. Some of the people who phoned counselling services following Diana's death were using medication because of the resurgence of their



Princess Diana.

own grief," she said.

Another major issue was the increased workload experienced by support services following such a public event.

"We asked the organisations what lessons they had learnt through this. Many of them felt that they were unprepared for the number of callers, that the people who worked in these organisations were emotionally unprepared, they were surprised at the impact Diana's death had had, and that the counsellors themselves—many of whom have suffered their own grief experiences—felt very drained as a result."

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Dr Sheila Clark (left) and research assistant Ms Katherine Duszynski, Department of General Practice. Photo: David Ellis.

Open Day 2000



OPEN DAY is upon us again, with Sunday 13 August showcasing the University to potential students, their friends, families, and other interested members of the South Australian community.

The North Terrace and Waite campuses are both open to the public on the Sunday, with Roseworthy opening its doors on Monday 14 August.

Open Day (from 10.00am-4.00pm) is an excellent time for students and their families to see the University in action and to find out about careers and academic programs.

The day will help senior secondary students make specific decisions about preferences for future study, and give them a feel for campus life.

Adelaide pays tribute to a university icon

SIR Mark Oliphant, one of the legends of Australian science—and a major figure in the history of Adelaide University—has died at the age of 98.

The Vice-Chancellor, Professor Mary O'Kane, paid tribute to the memory of Sir Mark, who died on 14 July.

"Sir Mark was one of the outstanding figures of Australian science," Professor O'Kane said.

"He made an enormous contribution as a physicist and a science administrator and was among Adelaide University's most eminent graduates.

"Among his major achievements was alerting the community—and particularly scientists—to the serious ethical implications arising from new weapons of mass destruction. This concern stemmed from his own involvement with the Manhattan Project."

Born in Kent Town, Adelaide, in 1901, Marcus Laurence Elwin Oliphant was the eldest of five sons. His father was a civil servant and his mother an artist. Sir Mark was interested in pursuing a career in

medicine or chemistry, and in 1919 began studying at Adelaide University. However, he said his physics teacher, Dr Roy Burdon, "weaned me away... from my ideas of being a chemist or a doctor and taught me the extraordinary exhilaration there was in even minor discoveries in the field of physics".

To finance his university studies, Sir Mark initially worked in the State Library, but was lured by Professor Kerr Grant to take up a cadetship in the Physics Department. He graduated from Adelaide University with a Bachelor of Science degree with First Class Honours in 1923. He continued to work in the Physics Department, managing to do further research in between his duties as a laboratory assistant.

In 1927 Sir Mark won a scholarship that took him to Cambridge University, under the supervision of New Zealand physicist Ernest Rutherford at the famous but poorly funded Cavendish Laboratory. He started research in the field of nuclear physics, working on the artificial disintegration of the atomic nucleus, and positive ions, gaining his PhD in 1929.



This portrait of Sir Mark Oliphant, painted in 1975 by Kerrie Elliott, was commissioned as part of the University's centenary celebrations.

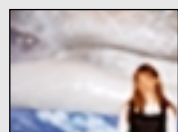
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INTERVIEW

PROFESSOR PENNY BOUMELHA

LEAP provides information about learning and teaching initiatives at Adelaide University. Part of the Advisory Centre for University Education (ACUE), Leap is comprised of case studies, staff development websites and interviews.

One of this year's Leap interviews is with the Deputy Vice-Chancellor Education, Professor Penny Boumelha. Part of the interview is reproduced here—for the full interview, and others in the series, visit the Leap website: <www.acue.adelaide.edu.au/leap/>.

What are some of the issues you think are important for learning and teaching in the University?

I think some of the key issues that we're facing have to do with the increasing amounts of choice that students have about where they'll go and what they'll study, and their increasing awareness that they need to prepare themselves for a future which might involve several different kinds of work or several different careers.

We also have to look at the possibilities of focusing on the skills that students learn and how those can be moved across a range of contexts. Although the disciplinary learning of curriculum won't stop and continues to be very important, I still think we can have more of a focus on generic skills, transferable skills, and how students know when they're prepared for their working lives.

In teaching, I think we're going to have to come to terms with the need to focus more on designing courses. We're going to need to take a closer look at making sure that whole programs of study hang together in ways that we can explain and justify. That's already the case in some programs, often the more professionally focused ones. We probably need to focus more now on being able to give students clear signals about the pathways that are available to them, and put together programs that really work and give them the combinations of skills and knowledge that they need.

How do you see students responding to the educational environment of the near future?

What's clear is that students will exercise more conscious and informed choice about where they go and what they do. Or they may not even need to go, as on-line delivery and virtual universities become more accessible. Students don't necessarily have to make a decision to leave their home State to have access to a different educational system.

One of the things that slightly bothers me about Australia at the moment is the lack of differentiation in our higher education system. Everybody's attempting to do the same things. What I think that we perhaps will do over time is begin to specialise: not necessarily in disciplinary terms, but in terms of the kinds of delivery and the ways in which we seek to shape the particular body of students that we have, the way in which we structure combinations of subjects and so on. In the future, I don't believe we can continue with the idea that every university must do every subject and every degree.

Could we determine our niche by simply being a research university?

I think it's a combination of being a university in which research is a well-established tradition and taken seriously, and the fact that we are not, and not really suited to be, a huge university with multiple campuses in Australia. Many of the very best known universities in the world are actually not particularly large, and that means that they can offer particular kinds of educational experience: opportunities for more in the way of small group teaching or project work or support; closer working relationships, not just with academic teaching staff, but sometimes with library staff, or IT support staff or technical staff. Combining that with the research focus would be very good.

One of the things we need to do is to rethink our understanding of the teaching-research nexus, which we can rightly say is very important in a research-focused university. We need to shift from: 'This is my research: how can I get it into my teaching?' to 'How can we convey to students the excitement of the research endeavour?' What unites education and research is intellectual curiosity and a great desire to learn more. I think we need to make that the bridge between the teaching and the research.

However, we also need to do some work on the teaching ethos. Not because people don't do their teaching well and conscientiously and often innovatively, but because we haven't had an institutional culture in which teaching is something that's really valued and seen as central to the experience of the university. It's tended to be overshadowed by the research successes and excitements. I don't for a minute want to deny those, but I do believe that we also can afford to, and need to, share some part of our sense of what's important about our teaching.

How do we improve our teaching ethos? Is that a difficult question to grapple with?

I think it's actually proving to be rather less difficult than I thought it might be when I first

started in this job. I've noticed some marked progress already in the university. I've got a learning and teaching committee which has representatives from all of the faculties and also people from other areas like the ACUE, Wilto Yerlo, student representatives and so on. It's full of extremely thoughtful, enthusiastic, dedicated people who have done a great deal to shift these attitudes. We've already noticed the strengths of applications for such things as teaching prizes and for some of the funding schemes in the learning and teaching budget.

The learning and teaching committee have talked quite a lot about reward systems for good teaching. I have restructured over the last year the way we use our teaching prizes. I've tried to use the ACUE to offer better support for people in preparing descriptions of their teaching practices. One of the things I've noticed is that people in universities such as this often do very good teaching, but they don't write very well about it. The people who know how to explain what's significant and new and worthy of respect in their research sometimes think it's enough just to list their teaching activities: 'I teach four first-year classes and a second-year subject and supervise three Honour theses'. It sometimes takes a bit of the attention from other people asking questions, teasing out why you do it this way, what's different about it, what's new and special, to uncover what's actually there.

I don't think it's at all necessary for everybody in the university to put teaching first. I think it's just a matter of being sure that those people whose teaching is extremely important to them do not feel that this is something they have to hide or feel slightly ashamed of. I actually don't think it's going to be all that difficult to shift that sense. It isn't necessarily about making people teach better. It's about equipping people better to explain the quality of the teaching they do and the principles on which they're doing it. We've tried to build that into the reward system. The recent versions of our attitude to promotion take a more rigorous attitude to the provision of evidence of good teaching.

Are there structural changes that would better enable the University to meet its learning and teaching challenges?

In terms of the structure, one of the biggest problems that we have—more acute in some parts of the university than others—is to develop greater willingness and ability to work across the edges of disciplines. There's a very strong sense of the Department as the unit here, and of the Department as discipline-based. Some-times, particularly in postgraduate and research training activities (even more than the undergraduate at this stage), people are looking



“Students will exercise more conscious and informed choice about where they go and what they do.”

for combinations of discipline areas, or techniques and methodologies, that don't sit all that readily in departments. A structure that allows more permeability of the boundaries is likely to generate something genuinely new.

Also, the thing that probably most needs to be shifted is the sense of communal responsibility for our educational programs. People have long accepted that research is, in a sense, the university's: we report on research as a university, we manage research, we have a plan for research and so on. There has often still been the feeling that teaching belongs to the Departments. I think we need to develop ways of communicating about teaching methodologies and skills and innovations. We need to develop better communication between areas. And again, one of the things that I find in the learning and teaching committee is that somebody will say, 'What we need to think about is "X"', and then somebody from another faculty will say, 'Oh, we do that; we've been doing that for a couple of years'. We don't really have enough opportunities to share information in those kinds of ways.

The Learn IT seminar that happened last year is an example of us all coming from different parts of the university and learning from each other and finding some solutions to problems. It would help if we stopped reinventing every wheel in every Department, and developed better communication. I think that is one of the key challenges for me in my current role.

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Editor
David Ellis

Layout
Julie Ryke

Printed by
Cadillac Color

Writers
Ben Osborne
Rob Morrison
John Drislane

Contributors
Sheila Bryce
Sally Raphael



Deadline for next issue is 3 August

Room G07 Mitchell Building, South Australia, 5005.
Tel (08) 8303 5174; Fax (08) 8303 4838; Email:
julie.ryke@adelaide.edu.au

<http://www.adelaide.edu.au/Adelaidean/home.html>

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Public Lectures: Dunstan Foundation

“Privatisation—sell off or sell out?” by Professor Bob Walker and Betty Con Walker, Tuesday 8 August 2000, 6.00pm - 7.30pm, Union Hall, Adelaide University, Victoria Drive

Good policy? Or economic vandalism? Australia is a world leader in the privatisation of government assets and services.

Drawing on their recently released book *'Privatisation—sell off or sell out'* published by ABC Books, this lecture will argue that debates on privatisation have been based on rhetoric, sloganeering and flawed financial analysis. A new understanding of the role of government is required.

Bob Walker is Professor of Accounting at the University of New South Wales and is well known for his contributions to reform of accountability arrangements.

Betty Con Walker is an economist with experience in both the public and private sectors and as an adviser to government.

“Changing Track: A new political and economic direction for Australia” by Associate Professor Frank Stilwell, Wednesday 11 October 2000, 6.00pm - 7.30pm, Scott Theatre, Adelaide University, Kintore Avenue

The soon to be released book *Changing Track* (Pluto Press) presents a new look at the Australian economy and how it has served our society.

Showing that there is an alternative to the current emphasis on globalisation, economic rationalism and corporate managerialism, it argues for a new way forward for the start of the 21st century—one based upon people rather than economics.

Associate Professor Frank Stilwell is from the School of Economics and Political Science at the University of Sydney. His research interests are Australian economic policy, political economy of cities and regions and economic inequality.



Don Dunstan

Members of the public are encouraged to attend these events. Tickets are \$10 / \$5 concession for each lecture and can be ordered through The Don Dunstan Foundation office by calling Alison on (08) 8303 3364.

The Don Dunstan  Foundation

Music graduate wins Premier's prize

MUSICAL notes have turned into much-needed dollar notes for Elder Conservatorium graduate Kynan Johns.

The 25-year-old conductor and composer has received a cash windfall of \$40,000 by winning the South Australian Premier's Young Emerging Artist of the Year Award.

The prize—Australia's richest for an artist with outstanding promise—will enable Mr Johns to further his conducting studies overseas.

He intends to use the money to undertake a mentorship in Stuttgart, Germany, with renowned conductor Lothar Zagrosek, who accepts four students a year.

Mr Johns studied composition under Mr Graeme Koehne and conducting under Mr Nicholas Brathwaite at the Elder Conservatorium, having previously studied conducting with Professor Heribert Esser. He graduated with a Bachelor of Music degree with Honours in 1995 and went on to pursue Master's studies in conducting at the University of Sydney.

In 1996, he won the inaugural Nelly Apt Bequest to further his musical studies in Israel with maestro Noam Sheriff.

In his short career, Mr Johns has already conducted more than 20 major musical performances. They include performances by the Adelaide Symphony Orchestra, the State Orchestra of Victoria, the Tasmanian Symphony Orchestra, the Queensland Symphony Orchestra and the Melbourne Symphony Orchestra.

His schedule this year includes performances in Tel Aviv, Barcelona, Athens and Amsterdam.

As a composer he has written for choir, theatre, and dance, describing his music as "an expressive minimalism".



—John Drislane Young Emerging Artist of the Year Kynan Johns. Photo: Hills Photo Studio.

Internet heads inaugural lecture series

THE University's Winter/Spring Inaugural Lecture series began on Friday 28 July with a look at how the Internet works, and how it could be made to work better.

Professor Lang White, Professor of Communication Networks with the Department of Electrical & Electronic Engineering, gave the first lecture, *Researching the Internet: challenges and opportunities*.

It was the first in a series of eight lectures being held every Friday up until 15 September—beginning at 1.15pm in Lecture Theatre G04 in the Napier Building—by recently appointed Professors to the University.

Members of the University community and the public are welcome to attend.

Professor White said the Internet was now very much a part of everyday life for many people, and subsequently was taken for granted.

"When people click on their mouse and open up their Internet browser, they probably aren't thinking too much about what is happening," he said.

"But if you are downloading a page of information from the other side of the world, there's an enormous amount happening in a short space of time.

"It's good in a way that people do take how the Internet works for granted because it means that it is working well, but there is lots of research being done on how to improve it.

"The area I'm focussing my research on is not so much the computers at either end, but the area in the middle, the process and methods by which they communicate."

Future lectures in the series are:

- Professor Graham Harris (Agricultural and Natural Resource Science): *Is the world simple but unpredictable? - new views of the workings of aquatic ecosystems* - 4 August;

- Professor Andrew Barr (Plant Science): *Drought, heat, ice and pestilence - plant breeding for the tough times* - 11 August;

- Professor Philip Hynd (Animal Science): *Follicles and fibres for the future* - 18 August;

- Professor John Gollan (Medicine): *Too much of a good thing: disorders of iron metabolism* - 25 August;

- Professor Edwina Cornish (Deputy Vice-Chancellor [Research] and Professor of Biotechnology): *Application of genetic modification techniques to the cut flower industry* - 1 September;

- Professor Gustaaf Dekker (Obstetrics and Gynaecology): *Pregnancy, an inflammatory issue* - 8 September;

- Professor Purnendra Jain (Centre for Asian Studies): *Japan: the paradoxical power* - 15 September.

For more information contact Mr Ray Choate: 8303 4064.

Art exhibit shows other side of maths

ADELAIDE mathematicians are showing their artistic sides.

A new exhibition features original works by mathematicians and computer scientists from Adelaide and Flinders universities who also happen to be artists, photographers and musicians.

Far from "painting by numbers", the artists' works cover a range of styles and inspirations, including this piece (pictured) by Dr Hilary Booth from Adelaide's Department of Pure Maths.

"I think there's a close association between math and art," Dr Booth said. "The experience feels quite similar—mathematics also has a sense of intuition and aesthetics about it."

The art show will open in The Gallery coffee shop (Union building, 6th floor) at 6pm on Friday 4 August.



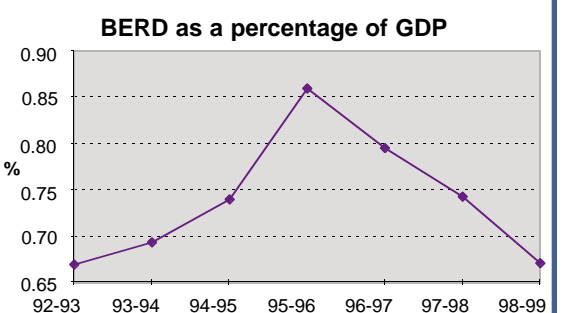
Blue sky and falling BERD

Commentators often point out that, for its population size, Australia is very good at research and development, producing over 2% of the world's new scientific papers each year with only 0.31% of the world's population. Our universities produce a high percentage of these papers, the output of good quality basic (blue sky) research.

But the comment is often made, also, that Australia is less good at turning its expertise in high-quality research into economic benefit for the nation. This concern has risen markedly in recent times as the world has focused increasingly on knowledge-based developments.

Compared with other OECD countries, Australia spends a reasonably high percentage of GDP on research and development, but much of this expenditure is by the public sector. Business expenditure on research and development (BERD) is relatively low in Australia, accounting for less than half of overall R&D spending. There has been considerable comment recently (see, for example, Chelsey Martin and Helen Meredith's article in the *Australian Financial Review*, 4 July) that BERD, which had been rising through the early 1990s, has now declined for the third year in a row. It is falling particularly sharply as a percentage of GDP (see graph below). This is in contrast to most other OECD countries where BERD as a percentage of GDP is increasing.

In a letter to the *Financial Review* (7 July) on the Martin and Meredith article, Rodger Bouette commented that "it is widely accepted that innovation is the key to success in a modern economy" and that is important not to "equate investment in research with investment in innovation". He went on to say:



"Research leads to new science and inventions. Innovation takes existing science and ideas and puts them to work. We need both; but today in Australia the balance is wrong. Is it possible at least part of the reduction in business expenditure on R&D reflects increasing frustration of industry with funding research that fails to contribute to profits? If so, investment in R&D by itself won't solve the problem." Maybe.

Here at Adelaide University we're tackling the issue on several fronts. We're maintaining our emphasis on and performance in high-quality basic research. We've strengthened our links with industry in education and research and increased our industry-funded research in recent years. And we are actively teaching and promoting innovation through our very successful Masters of Commercialisation of Science and Technology (offered in conjunction with the University of Texas at Austin), and spin-offs from that course in the form of education in commercialisation for PhD and high-level undergraduate students.

MARY O'KANE

Arts jobs on the agenda as Norton goes to town on gown

THERE is more to graduating from a university with an Arts degree than finding a job, according to the Executive Dean of the School of Humanities and Social Sciences at Adelaide University, Professor Malcolm Gillies.

Professor Gillies' comment comes as debate over the relevance of Arts degrees intensified recently, following a report into Arts graduates' job prospects by the Centre for Independent Studies.

The report's author, Andrew Norton, claimed graduates from the humanities and social sciences were around twice as likely to be unemployed as others in the labour markets. In addition, salaries for graduates in those fields are declining relative to Average Weekly Earning: in 1999, humanities graduates were earning only 74% of AWE.

"Despite this, universities have continued to increase the number of students commencing degrees in these areas, with the annual number rising by nearly 60% since 1989," Mr Norton said.

"In order to increase the employability of these graduates, the government needs to remove the distorting elements of its higher education policies. Deregulating fees and abolishing the student places quota would create a competitive environment where universities are forced to look at their Arts degrees and whether they teach skills that make graduates employable."

Professor Gillies said he agreed with Mr Norton that combined degrees, of a Bachelor of Arts and another Bachelor degree, were a good answer to providing students with many of the qualities needed in today's workforce.

"Not so many people, in fact, are prepared to plan their future simply on the basis of their love of knowledge—they often want to hedge their bets in some way," Professor Gillies said.

"So that gets to the view, where I do agree with Andrew Norton, that the combined degree arrangement is a sensible hedging of bets.

"I am, for instance, a very strong proponent of the Bachelor of Arts/Bachelor of Science combined degree - I just don't see that there are two worlds out there, an arts world and a science world that won't link.

"We also have a large number of students going into a Bachelor of Arts/Bachelor of Engineering degree, which is recognised by both faculties as very useful training for some of our very brightest engineers—they don't see an unbridgeable difference between the skills they get as an engineer, and the communication and analysis skills gained by doing an Arts degree."

Outright dismissal of Mr Norton's comments was dangerous, Professor Gillies said.

"The other side of the Norton argument which I think we can't run away from is that we do have to cost what we provide to students in terms of staffing and resources in whatever we teach," he said.

"He is highlighting the number of people studying for these degrees under the current conditions, who might not do so under a deregulated market. We have to recognise that there may be a deregulated market in the future—certainly there's a tendency towards that in many countries—and so be ready to defend what matters most to humanities and social sciences in the years to come.

"Simply to dismiss his argument is not to be sufficiently prepared."

Professor Gillies said by their very nature Arts degrees appear to have only intrinsic and intangible benefits for each individual student—but he felt such degrees were still vital in today's "information society".

"We live in a society that respects jobs and respects money very highly, and doesn't as clearly see the long-term benefits of learning for its own sake. There are a large number of students who will continue to study for an Arts degree because that's what interests them, and we must not deny those students that opportunity," he said.

"This gets to the issue that based purely on economic data, graduating with an Arts degree may not turn out to be of immediate tangible benefit either for the nation or certain classes of individual.

"What it means to the individual is a totally different issue. I wonder how happy some people are who have pursued the areas that have the best job prospects or have the highest



Executive Dean of the School of Humanities and Social Sciences, Professor Malcolm Gillies.

immediate salary; I wonder how happy they are as citizens of a democracy.

"Are they contributing sufficiently to the public good? Are they interested in all of those generally unrewarded aspects of life which keep our society going, particularly in areas such as social work and community care? What is their compassion for other human beings in society?"

"I'm not saying these people may not have compassion, but I'm suggesting we need to have a lot of people in our society, and who are dedicated to something more than immediate self-interest."

—Ben Osborne

Insect researcher gains presidency

ENTOMOLOGIST Dr Andrew Austin has been elected president of the Australian Entomological Society.

Dr Austin, an Associate Professor with Adelaide University's Department of Applied & Molecular Ecology (Waite Campus), is well known for his work on insect systematics and biodiversity, including research into the biological control of European wasp.

He gained his Bachelor of Science (Honours) from Sydney University and a PhD at Adelaide before heading to Britain to work at the Museum of Natural History. A lecturer and researcher at Adelaide University for the past 15 years, Dr Austin is a previous winner of the Stephen Cole The Elder Prize for Excellence in Teaching.

Dr Austin was elected for a two-year term as president of the Australian Entomological Society at the society's recent national conference in Darwin.

He said he felt "humbled" by the appointment and was pleased a South Australian had been chosen to lead the society.

"The position is a great honour for me

personally and for Adelaide University," Dr Austin said.

"The last South Australian to preside over the society was the late Professor Tom Browning in 1983-84 who was also from Adelaide University."

With more than 800 members, the Australian Entomological Society is one of the largest biological sciences groups in Australia, and is a significant power in lobbying the Federal government for research and training grants.

Dr Austin described South Australia and Queensland as the "two university centres for excellence" in entomological studies in Australia.

He said he hoped to increase the prominence of the society, and had two main aims for his presidency:

"The first is to develop a national program to foster and help undergraduate and postgraduate training in entomology. The second is to set up an endowment fund to support the program and other society activities into the future."

—Sally Raphael
Peter Fuller & Associates



Dr Andrew Austin. Photo: Brenton Edwards

Marimba winners in concert

TO celebrate their repeat success at the 2000 Australian Marimba Competition held in Sydney recently, the winning Elder Conservatorium percussion "dream team" will give a marimba concert at 8pm Tuesday 8 August in the Hartley Concert Room, Kintore Avenue.

Performing will be Jamie Adam, winner of first prize in the open section (he was placed third last year) and Alex Stopa, winner of third place this year (and 2nd prize in 1999). Joining this year's champions will be Andy Buchan (a winner in 1999) and special guest Nick Parnell (1999 winner of the Elder Conservatorium Concerto Competition and Adelaide Eisteddford Percussion prize).

All tickets are \$4 at the door.

Impact of Di's death finally revealed in study

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Dr Clark said in some small way, Diana's tragic death could serve a good purpose. She said there were many positives to come out of this research, such as showing support services the importance of being prepared for high-profile deaths.

"Although these deaths don't often happen, organisations should have a contingency plan for such events, and they should also have adequate numbers of back-up staff who they can call in when their resources are stretched.

"It may also lead to better education among the community about the kinds of services available to them, and how to better cope with personal grief."

Dr Clark's work in this area follows the highly

successful launch late last year of Grieflink, a website funded by the Department of Human Services to provide information about the various grief-related support services available in South Australia. The site is a joint project between Adelaide University's Department of General Practice and the National Association for Loss and Grief (SA) Inc.

Grieflink recently won an international award from a US company for its "high quality and unique content". Other States are now expressing an interest in expanding the SA website to encompass services offered throughout Australia.

—David Ellis

To find out more about the study, visit:
<www.grieflink.asn.au>.

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Reefs and atolls – but not a drop of water in sight

WHEN the explorer Charles Sturt went looking for an inland sea, he wasn't wrong—just a few million years too late.

Oceans once covered great areas of what is now inland Australia. Their traces remain in fossils, minerals and geological formations that reveal much about how Earth has changed over time.

Dr Nicholas Lemon from Adelaide University's National Centre for Petroleum Geology & Geophysics (NCPGG) has been field-mapping a Precambrian reef complex in what is now the Flinders Ranges National Park.

The work began in 1984 as part of his PhD project. Interest was renewed when Dr Lemon showed the area to a group of international geologists. "They were aware of similar occurrences in North America, but which were not of the same age, and they could see the importance of this outcrop," said Dr Lemon.

Not far from the Brachina Gorge Geological Trail, the reefs at Enorama formed as a fringe around a diapiric island. In geological terms, a diapir is a mobile core containing minerals of low density such as salt. The core pushes upwards, deforming overlying rock to form a dome on the Earth's surface. The ancient diapir at Enorama formed an island in shallow seas, buoyed up by salt. There are similar examples today in the Persian Gulf.

The shallows around the island promoted the growth of bacteria. These precipitated minerals around them, the solid residue growing into a form of stromatolite. Living stromatolites survive at Shark Bay in Western Australia, while fossil forms are common in rocks of the Flinders Ranges.

In microscopic sections, the Enorama stromatolites do not show the usual fine layers, but a succession of thick layers with a clotted texture. They resemble calcareous bacteria well known from later times. These bacteria were colonial, growing as "shrubs" anchored to the sea floor or hanging like branches from rocky outcrops.

The Enorama reefs are built of stromatolitic mounds up to six metres high and 10 metres

across. They have grown into one another in stacked structures up 40 metres high and 100 metres across.

The Cambrian period began somewhere between 540 and 570 million years ago, and marked an explosion of animal types, many with hard body parts that fossilised well. Relatively complex organisms existed in Precambrian times, but being soft-bodied they were seldom preserved in rocks. The Ediacaran fossils from the Flinders Ranges are exceptions, providing rare insights into a range of ancient jellyfish, worms and other Precambrian animals, many with no counterparts today.

The Enorama reefs were built by organisms older and even more primitive than the Ediacaran fauna, but the lime that they precipitated preserved a record of them. The reefs are surprisingly similar in shape to modern coral reefs which are built in a similar fashion by much more complex organisms.

"The reef was like an atoll with a protected lagoon inside," said Dr Lemon.

"Its growth was affected by changes in sea level that are still detectable. The reef dried out in shallow water, or shed conglomerates when the water was deep. We can see that a series of pulses pushed the diapir up over millions of years. Each movement tilted the surrounding reef, bigger movements causing it to die and become re-established some distance away," he said.

A row of reefs now stands along the edge of the diapir. Lime precipitated by the bacteria has turned to dolomite—far more resistant to weathering than the surrounding green shales. The outcrop is unusual in that all the reefs have been tilted on their sides by the diapir, which continued to move long after the reefs were deposited. It provides a view of ancient reefs not often encountered.

The line of hills can easily be seen from ground level or the surrounding hills, but is best viewed from the air. Dr Lemon has unravelled the complicated story of the growth of the diapiric island and its reef by comparing low- and high-level photographs of the structures and by



The central line of hills running north to south are all reefs. The diapir lies to the right, while the marine shales that are between and on top of the reefs, outcrop to the left. Photo: Nicholas Lemon.

detailed ground mapping.

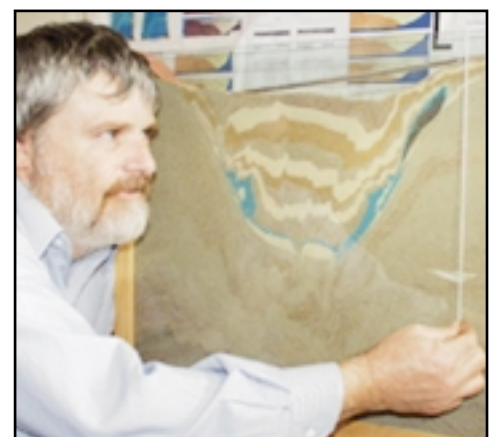
"Tape and compass mapping has given the best information," he said. "If the traverses are closely spaced, I can note all of the rocks, and my children are a great help. They mark out the grid and provide a continuous supply of billy tea."

At Adelaide University's Thebarton Campus, the rocks are sliced into thin layers and analysed under microscope to see the shapes left by the bacteria as they grew. Limestones and dolomites also record isotopic signatures of carbon and oxygen, two of the building blocks of life. Rocks from the late Precambrian show some of the widest fluctuations in the history of the planet.

"Samples from Enorama fill a gap between some of the highest and lowest carbon isotope values, and these can be traced to the evolution of the atmosphere, the oceans and perhaps to life itself," said Dr Lemon.

Oil and gas are known from similar, younger reef complexes around the world.

"The Golden Lane atoll on the east coast of Mexico, and the Golden Spike reef in Alberta Canada are examples of prolific oil producing reefs," he said.



Dr Nicholas Lemon uses a sand model to explore how the geological formations arise. Photo: Rob Morrison.

"The Enorama reef does have traces of bitumen still trapped in the rock, but its value lies in the wonderful outcrop which shows geologists an example of what is often buried. Usually we can only interpret such structures from seismic imaging or a few drill hole intersections."

—Rob Morrison

Virtual tour turns engineering building inside out

ADELAIDE University Open Day (13 August) will provide prospective students and the public with the chance to look around the university and discover its many facets. Those who have not been there for a while will see a few changes. One is the new Engineering and Mathematical Science building on the eastern side of the Adelaide campus.

The building, which was completed last year, is part of the extensive redevelopment of the lower level. Designing it to fit such a crowded site had its tricky elements. A large cedar tree of heritage significance needed protection. Brick cladding was required to match the building to others around it. With research and teaching ongoing only three metres away, dust, vibration, hazards, air pollution and noise had to be kept to a minimum.

That involved a great deal of planning, complicated by a decision to make the new building, from the outset, the subject of a teaching resource for courses that will take place inside it.

The result is a CD-ROM for student use that reveals every aspect of the building's design, planning and construction. That is no mean feat in a building of five levels which incorporates lifts, stairs, wheelchair

access, innovative construction methods, and is based on piles pressed 10 metres into the ground.

Within the Department of Civil and Environmental Engineering, Mr Lindsay Doherty had the idea of recording the construction of the building from start to finish. Every aspect of the building's design was recorded. Professor John Agnew and Associate Professor Graeme Dandy provided sufficient funding to employ two post-graduate students, Glenn Potger and Or Aroonsiri, who between them spent 100 hours taking more than 600 digital photographs of all stages of the building's construction.

Glenn Potger then worked with Mr Doherty to organise the content of the CD-ROM and prepare templates for it. 250 more photographs were added and all were then sorted and linked to details of the plans. Their integration was achieved by using the South Australian CAD package, 'QikDraw'.

"I chose QikDraw because it was the only one developed locally, so it could readily be modified to suit our proposals," said Mr Doherty. "Also, it is available at a reasonable price for students."

The company's director, Mr Peter Chan, supported the project by providing the necessary program developments, including a version of QikDraw that can be executed

directly from the CD-ROM without any separate installation. This makes the documentation tool extremely versatile and portable.

The result is a CD-ROM with more than 350 separate screens that integrate architectural and structural drawings with photographs to show the building inside out. It enables students to take a virtual tour of the building and examine any aspect of its design and construction.

The CD-ROM supports CAD operations, so that lecturers can present various aspects of it to a class by using a video projector and drawing arrows, adding text and zooming into or highlighting aspects of the display to make their point.

While there is particular value for Adelaide University students in being able to study the building that houses them, the variety, scope and detail of that building make the CD-ROM a valuable teaching resource for engineering students anywhere. It includes the G-Pile method of almost silent installation of piles, a first in Australia. A 'slide show' within the CD-ROM reveals how the G-Pile system works.

"This is a valuable teaching aid which will enable students to gain a better understanding of the relationship between their designs and what actually takes place in practice," said



Mr Trevor Daniell, Head of Civil and Environmental Engineering. "It should be of interest to all universities, as well as many in industry," he said.

"I originally planned this as an educational aid," said Mr Doherty, "but it became clear that it would also be valuable as a project documentation and quality assurance tool for industry, and probably in other areas where a lot of photographic, written and tabular records can be linked to drawings or diagrams," he said.

Because the CD-ROM provides immense detail of the architectural and engineering aspects of a modern, complex building, it is likely to be a

useful educational resource for the export market, as these principles apply worldwide.

The Department of Civil and Environmental Engineering plans to make the CD-ROM available to students for \$10, and to other universities as a package of 20 copies for \$500, with additional packs of 10 copies for \$100.

Enquiries should be directed to Mr Lindsay Doherty: 0409 998 262 or ldoherty@civeng.adelaide.edu.au.

Civil Engineering will also have the CD-ROM on display for Open Day.

—Rob Morrison

CAREER PATHS

A WHALE OF A TIME

AN ADELAIDE University PhD graduate is aiming to make the popular pastime of whale watching a fuller and more enriching experience for the thousands of South Australians who view the huge and spectacular creatures each year.

Dr Elizabeth Reid has recently been appointed coordinator of the South Australian Whale Centre at Victor Harbor, after completing her PhD thesis late last year. The Whale Centre, which is now run by the Victor Harbor City Council, is one of the State's premier educational facilities and tourist attractions for whale watching.

Dr Reid came to Australia and to Adelaide University from Florida, USA in 1992.

"One thing led to another, and I ended up studying whale watching, or 'watching the whale watchers' as I like to say," Dr Reid said.

She completed her Masters of Environmental Studies, before beginning her PhD in 1995. Both degrees were completed through the Mawson Graduate Centre for Environmental Studies (now the Department of Geographical and Environmental Studies).

Her PhD supervisors were Associate Professors Nick Harvey and Ken Dyer.

"My primary focus for the study of whale

watching was how to ensure that this tourism makes the most of its educational opportunities," she said.

"Rather than simply being an enjoyable tourism activity, whale watching can be a means of increasing people's interest in whales and their understanding of important conservation issues.

"My thesis proposed educational whale watching should raise awareness of how to practice it responsibly, without disturbance to whales or the coast, and ideally, that whale watching should engender a constituency of whale protection advocates."

Her time at Adelaide University is proving invaluable in her new role as coordinator of the Whale Centre, Dr Reid said.

"The best practice standards for educational whale watching, that I developed in my thesis, are highly appropriate for interpretive venues like the Whale Centre, so I have enjoyed this opportunity for a practical application of my research topic," she said.

"My background in environmental studies helps me to educate others about the fragile coastline we have in Encounter Bay, where most whale watching is land-based. During the Centre's promotion of whale watching, I have made it a point to emphasise that the tourism should be pursued in an environmentally responsible manner.

"My studies have also influenced other



Adelaide University graduate and coordinator of the South Australian Whale Centre, Dr Elizabeth Reid.

'environmental themes' within the Centre, and have provided me with an extensive network of like-minded conservationists.

vital and exciting part of environmental education for South Australia's whale enthusiasts."

"Together we can position the Centre as a

—Ben Osborne

Environment council not just a curiosity for our Rob

AN Adelaide University staff member has been appointed to a new national council given the task of improving environmental education in Australia.

Dr Rob Morrison, a science journalist with the University's Media, Marketing & Publications Unit, is one of three South Australians on the nine-person National Environmental Education Council.

Dr Morrison was included because of his work as Associate Professor of Environmental Studies at Flinders University, and 30 years spent as a broadcaster and writer on science and environment issues.

The council is chaired by well-known ABC science identity Professor Robyn Williams, and also includes high-profile science figures Dr Timothy Flannery (director of the South Australian Museum) and Dr

Mandawuy Yunupingu (lead singer of Yothu Yindi).

Dr Morrison said the council was a major part of an Environmental Education National Action Plan announced recently by Federal Environment Minister Senator Robert Hill.

"One of the main things the council has been set up to do is identify the environmental education issues which need action at a national level," Dr Morrison said.

"A major part of that is raising the profile of environmental education not only at schools and universities, but across government departments and in the wider community.

"The council will be looking at the best ways to deliver environmental education to as many people as possible, and making recommendations to the Federal Government accordingly."

The council met for the first time in Sydney earlier this month, and plans to meet next in Adelaide in October.

"The first meeting went well, and it bodes well for the future of environmental education in Australia," Dr Morrison said. "It was noticeable at the first meeting that almost all of the people on the council had interests in more than one discipline, that people could see the bigger picture and weren't there just to advance the interests of one particular group.

"That reflects the approach to environmental education as something not to be taught in isolation, but across all aspects of the curriculum. It obviously helps if you have people with diverse interests who recognise links between subjects rather than boundaries that separate them."

—Ben Osborne



Adelaide University science journalist and member of the National Environmental Education Council, Dr Rob Morrison. Photo: Ben Osborne.

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PUBLIC TALK

Australian Indigenous Architecture: Its Form and Evolution

by Associate Professor Paul Memmott, Director of the Aboriginal Environments Research Centre, Department of Architecture, University of Queensland.

Paul Memmott is an architect and anthropologist who operates a research consultancy practice on Aboriginal projects.

This talk provides an ethnographical and historical overview of four major sub-styles comprising the phenomenon of Australian Aboriginal ethno-architecture.

includes a Kurna Welcome by Kurna Elder Mr Lewis O'Brien

Wednesday 16 August

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'Midlife East and West'

WHAT do women in the cities of Asia think and feel about midlife? Do they have the same symptoms, experiences and responses as women in Australia?

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A panel of international speakers from Asia and Australia have been researching these questions. You are invited to hear and discuss their findings on:

Friday 1 September, Griffith University Gold Coast Campus. Cost: waged \$15 unwaged \$7.

For more information email <chilla.bulbeck@adelaide.edu.au> or phone Maureen Todhunter on (07) 3875 5131.

Invertebrate workshop

Can you tell the difference between a sponge and a sea squirt? Are you an avid diver or snorkeller, or just interested in learning about our unique marine environment?

A one-day workshop is being hosted by Reef Watch, with the support of staff from SARDI and Adelaide and Flinders universities. To be held on October 22, the workshop is designed for those new to marine identification. Contact Sheralee Cox on 8223 5155 or <info@reefwatch.asn.au>.

Olympic Glory for university staff, students

IT WAS the moment of glory for the Adelaide University/Fuel & Combustion Technology torch development team when the Olympic Torch Relay came to Adelaide this month.

Staff and students involved in the development of the torch took part in relay events either as official or unofficial runners. Other staff and students from the University—including the Chancellor, Mr Robert Champion de Crespigny—were also official torch bearers.

Dr Gus Nathan (Mechanical Engineering) was the leader of the torch combustion system team. He ran as an escort runner with the Premier, Mr John Olsen (see photo, far right, with the Premier and Steven Hill):

"It was fantastic to be able to actually participate in the relay after two-and-a-half years of involvement in the design process. It was also touching to have so many of the team present to share in the celebration. The olympic torch is an incredibly powerful symbol. It seems to embody the spirit of the Olympics. Seeing people's interest and their reactions has made the project so rewarding—far more than just a technical challenge."

Engineer **Mr Steven Hill** (Fuel & Combustion Technology):

"Though I was the FCT representative, I felt that along with Gus I was representing everybody from our combined group, and that the focus was to achieve recognition of the group. It was amazing to watch the relay from the point of view of a participant, as a designer and then as an escort runner. The relay seemed to me to be about the people, not the technology, not even

really the flame. It was about the stories of the people that ran with the flame, their friends that had come to see them and even more about the crowds that participated by lining the streets, cheering and waving."

Fuels designer for the torch Associate **Professor Keith King** (Chemical Engineering) was among the many other torch development team members who showed up in force to watch the relay (photo, bottom right):

"It was very pleasing when the Premier stopped to pay tribute to the Fuel & Combustion System Design Team. The Premier was generous with his praise of the team when speaking after his run. The media coverage of our contribution was small relative to many of the relay runners; I think the 'team effort' was lost in the coverage."

Chief design coordinator **Dr Richard Kelso** (Mechanical Engineering) was chosen by SOCOG as an official torch bearer (photo, bottom left):

"The run itself was literally like a dream. It had an unreal feeling. All along the route people cheered me on—'Come on Richard!'. It was strange but, at the same time, quite moving. I couldn't stop smiling. I had more tired muscles in my face than in my legs! I didn't actually dedicate the run to anyone publicly at the time. If I were to, the first leg (I did two) would be dedicated to my mother and my late father, much of whose lives were spent working for the good of others. Their work has been largely unrecognised outside their immediate circles. I would dedicate the second leg (the extra 500m run) to the design team and their families (who supported them), because of the magnificent



work that they did and for the fact that they 'went the extra mile'. This includes my family who put up with me for the whole time."

Another Adelaide University staff member, **Mr Chris Brooke** (Finance & Infrastructure), was also chosen as an official torch bearer (photo, top left):

"It truly was the best high of my life. From the start of the day, when we met to the other runners and escorts and hosts for our part of the run, to actually driving up the Parade/Portrush Road to be dropped off, to actually receiving the flame, running with the torch, and then getting back on the bus to pick the other runners up and share their experiences... it was just all amazing. The crowd was fantastic, get-

ing mobbed my hundreds of people, with everybody wanting to get a glimpse of you, meet you, talk to you, shake your hand, hold the torch, touch the torch, have a photo taken with you... just amazing. It was a fantastic day, and I was on a high for the rest of the week."

Adelaide pays tribute to Sir Mark

From Page 1

Following in the footsteps of earlier nuclear research, Sir Mark discovered new forms of Hydrogen (Deuterium and Tritium) and Helium (Helium 3)—discoveries which laid the foundation for the development of nuclear weapons.

Following the onset of the Second World War, his research focus changed to support the war effort. Initially he was in charge of a team at the University of Birmingham which successfully developed microwave radar. Then, in 1943, Sir Mark moved to the United States to work on the infamous Manhattan Project. During the war, he travelled back and forth between the US and the UK, leading a team of British physicists who collaborated with American scientists on the development of the atomic bomb. But Sir Mark publicly opposed the development of atomic weapons as a misuse of atomic power:

"I suddenly realised that anybody who has a nuclear reactor can extract the plutonium from the reactor and make nuclear weapons, so that a country which has a nuclear reactor can, at any moment that it wants to, become a nuclear weapons power. And I, right from the beginning, have been terribly worried by the existence of nuclear weapons and very much against their use," he said.

He finished working for the Manhattan Project in 1945 and returned to England, without having witnessed the test-firing of the atomic bomb.

After the war, when Australia was looking towards a future based on the new scientific revolution, Sir Mark returned home, giving up greater opportunities for personal research achievement overseas. In 1950 he accepted an offer by the newly established Australian National University to become the first Director of the ANU Research School of Physical Sciences. In 1954 he became the founding president of the Australian Academy of Science.

After an interval of nearly 50 years, Sir Mark resumed his association with Adelaide University in 1971 upon his appointment as Governor of South Australia and Visitor of the University. During the term of Sir Mark's Governorship, the University set aside a room at the School of Physics which he used occasionally for research, and he enjoyed attending physics seminars at the University.

Sir Mark also hosted visiting international physicists at Government House and had generously invited the University's physicists there to meet them.

The Prime Minister, Mr John Howard, expressed his

sympathy to Sir Mark's family. He said Sir Mark had a distinguished academic career and his term as Governor of South Australia highlighted his contribution to the nation as a scientist and a public figure.

The President of the Australian Academy of Science, Professor Brian Anderson, has expressed the deep sense of loss felt by all scientists on the passing of Sir Mark, describing him as Australia's "leading statesman of science in the post-war period".

"Mark Oliphant joined with other leading scientists in 1954 to found the Australian Academy of Science... his global standing was essential in winning the support of Sir Robert Menzies, the then Prime Minister, for the project, and he became the Academy's first president," Professor Anderson said.

The South Australian Protocol Office has confirmed that a memorial service for Sir Mark Oliphant will be held on 18 August in Bonython Hall at Adelaide University.

Tribute from Alumni

ADELAIDE University's Alumni Association expresses deep regret and sadness at the passing of one of our great alumni, Sir Mark Oliphant.

Sir Mark's service and long-standing commitment to the University, as a founding member and the inaugural Patron of the Alumni Association, will forever be honoured and remembered.

As a dear friend and profoundly influential man, he will be dearly missed and we extend our deepest sympathies to Sir Mark's family.

Correction

The last issue of the *Adelaidean* (17 July, 2000) contained an error in the list of alumni who received Queen's Birthday Honours.

Brian William Chatterton was incorrectly listed as "The Honourable".

He is in fact Mr Brian William Chatterton, responsible for the foundation of Co-Opera, not Brian Chatterton the former Member of Parliament.

Apologies to Mr Chatterton for the mistake.

Adelaide University Alumni Association Free Registration Form

Your details:

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Qualification	Course	Year of Graduation
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All information provided on this form will be added to the University's Alumni and Community Relations databases for University and University related purposes only and will not be passed on to any third party not affiliated with the University.

Helpmann Academy Grants

THE final round of the Helpmann Academy twice yearly grants awards for 2000 will close 5pm 11 August 2000.

Applications are invited from all students, staff and recent graduates of the following Helpmann Academy partners. Consideration will be given to funding for any project that will enhance the applicant's study and career development.

Elder Conservatorium—School of Performing Arts, Adelaide University South Australian School of Art, University of South Australia; Drama Centre, Flinders University; Centre for the Performing Arts, Adelaide Institute of TAFE; Flinders Street School of Music, Adelaide Institute of TAFE; North Adelaide School of Art, Adelaide Institute of TAFE.

Grants application forms are available from:

- The Academy's office on 8th Floor Schulz Building, Adelaide University
- The Administration office in each partner institution
- From the Academy's website: <www.artelaide.com.au/helpmann>. (Please note: to print from website, click printer symbol on form page toolbar.)

Over \$41,000 was awarded to 19 projects in the March 2000 grants round.

For further information contact the Helpmann Academy on (08) 8303 3250.

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Angela's off to London to study with opera diva

SOUTH Australian soprano Angela Black is this year's winner of the Dame Roma Mitchell Churchill Fellowship for the Pursuit of Excellence in the Performing Arts.

Ms Black will receive her award at a ceremony at Government House on 7 August.

The award will enable her to undertake 10 weeks of intensive study at the international Guildhall School of Music and Drama in the heart of London with opera diva Sarah Walker.

She will also study with Voice Coach Enid Hartel and two of Europe's best-known répétiteurs, Roger Vignoles and Malcolm Martinaeu. In addition, Ms Black will receive language coaching in French, German and Italian.

There have been nine winners of the Dame Roma Mitchell Churchill Fellowship since its inauguration in 1992, only two of which have been from South Australia. Ms Black's win brings the award back to SA after three years, when it was won by baritone Douglas McNicol in 1997.

In 2000 Ms Black was a member of the Australian National Academy of Music Advanced Performance Program and



Angela Black

attended masterclasses and workshops when Ms Walker visited Australia. It was as a result of this meeting that Ms Black received her invitation to study with the flamboyant opera star at the Guildhall.

"I essentially want to study advanced vocal techniques in vocal colouring and expression. But I'm not just going to concentrate on technical matters but also on how to connect and express music and the content more completely to give me a more

enhanced performance interpretation," Ms Black said.

For someone who began singing seriously only four years ago she has already amassed an impressive range of achievements and performance credits to her name, despite her hectic schedule of juggling work as a registered nurse at the Repatriation General Hospital Memory Disorder Study Unit, her studies as a Bachelor of Music Performance Honours student at Adelaide's University's Elder Conservatorium—School of Performing Arts and her burgeoning performance career.

This year Ms Black has already performed as a chorus member in the State Opera of South Australia's production of Cossi Fan Tutte and will appear in Romeo and Juliet. She has also won a position in the State Opera's Young Artists' Program.

In December Ms Black will sing the role of Agatha in the Adelaide Symphony Orchestra's concert production of Guys and Dolls at the Festival Theatre.

Among her scholarships, awards and prizes, Ms Black has acquired the Robert Whinham Prize and the Clement Q Williams Lieder Prize.

[The Elder Conservatorium is a partner of the Helpmann Academy].

Theatre Guild goes measure for measure with Shakespeare

FOLLOWING the success of its most recent production *God & the Theatre*, the University of Adelaide Theatre Guild has now set its sights on Shakespeare's rarely-performed dark comedy, *Measure for Measure*.

Measure for Measure is a tale of the chaos and corruption which ensue when power is used as a weapon to gratify political and sexual desire, and is regarded with interpretative puzzlement by many critics. This, combined with the well-recognised anomalies, corruption and omissions of the text, means it is rarely performed.

The Theatre Guild production will be directed by Michael Baldwin (who will also play the character of The Duke), who has retained the play's location of Vienna but moved the period to the late 19th/early 20th century.

"I hope to make some connections with a more familiar historical moment, but without making identifications between major characters and specific historical figures," Baldwin said.

"Rather, I have sought to suggest a social and political ambience, which allows the text to provide an insight into the way in which personal obsession, encouraged by political circumstances, manipulates private and public life."

Measure for Measure will be performed at 7.30pm, Little Theatre, Adelaide University on the following dates: Saturday 5 August; from Tuesday 8 to Saturday 12 August; and from Tuesday 15 to Saturday 19 August. Tickets are \$15/\$10 concession/\$7 members, and can be booked at BASS on 131 246, or the Theatre Guild on 8303 5999.

—Ben Osborne

Special offer for Adelaide University staff: Tues 8, Wed 9, Thurs 10 August only. Buy one \$15 ticket and get another free. Simply present your Adelaide University card at the box office on the night. Or, to be sure of a seat, ring ext. 35999 and book your tickets in advance, quoting the staff number on your card. Offer subject to seating availability.



Taking a break during rehearsal for *Measure for Measure* were University of Adelaide Theatre Guild members (clockwise from far left) Zo Poppyjon (who plays Isabella), designer Susan Ward, assistant director Helen Geoffreys, Brant Eustice (Angelo), director Michael Baldwin (who also plays The Duke), and stage manager Erin Green.

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Bulletin Board

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ADELAIDE UNIVERSITY

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MONDAY 31 JULY

12noon Plant Science Seminar: Title to be advised by Mr Steve Jefferies (PhD student); Development of endosperm without fertilisation in apomictic Hieracium by Mr Matthew Tucker (PhD student). PS Seminar Room, Waite Campus.

1.00pm Clinical & Experimental Pharmacology Seminar: Pulmonary surfactant: plasticity and vulnerability by Dr Olga Lopatko (Clinical & Experimental Pharmacology). Seminar Room, Level 6, Medical School, North Wing.

1.00pm Environmental Biology Seminar: Ecological relativity: an approach to temporal scaling of ecological processes by Dr Ashley Sparrow (University of Canterbury). Benham Lecture Theatre, Ground Floor, Benham Building.

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

3.30pm ACUE Seminar: The efficacy beliefs of international postgraduate students by Karen Adams (Lecturer, ACUE). Seminar Room 2, Level 2, Schulz Building.

TUESDAY 1 AUGUST

1.10pm Student Workshop: Managing your emotions: Part I by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb Building.

5.00pm LaTeX Course: Scientific document preparation for beginners: engineering, maths, physics. CATS C, Top Floor, Engineering South.

8.00pm Philosophy Public Lecture: Scholarly Skywriting: Freeing the Refereed Journal Literature Online Through Public Self-Archiving by Professor Stevan Harnad (Cognitive Science, University of Southampton). Lecture Theatre 102, Level 1, Napier Building.

WEDNESDAY 2 AUGUST

10.10am Electrical & Electronic Engineering Seminar: Parrondo's Paradox: Losing Strategies Can Cooperate to Win by Dr Derek Abbott (Electrical & Electronic Engineering). Room EM212, New Engineering & Mathematics Building.

12.10pm Recitals Australia 2000 Autumn Series: Rebecca Williams - piano; Stephen Van der Hoek - piano. Adults \$3/Concession \$1. Pilgrim Church, 12 Flinders Street, Adelaide.

1.10pm Geology & Geophysics Seminar: Early Cambrian "old mysteries in a new context" by Dr Richard Jenkins (Geology & Geophysics). Mawson Lecture Theatre, Mawson Laboratories.

1.10pm Genetics PhD Updates: Esther Camp and Jane Sibbons (second year). Seminar

COMING EVENTS

31st July — 11th August

Room, Ground Floor, Fisher Building (southern entrance).

1.10pm Student Workshop: Confident tutorial and seminar presentations by Sally Hebenstreit. Counselling Centre, Ground Floor, Horace Lamb Building.

5.30pm Centre for Biomedical Engineering Seminar: The modelling of biological ion-channels using principles from physics by Professor Shin-Ho Chung (Chemistry, Australian National University). SG15 Hone Lecture Theatre, Ground Floor, Medical School South. All welcome - free refreshments.

THURSDAY 3 AUGUST

12noon Hanson Centre for Cancer Research Seminar: Dissection of global regulatory circuits in filamentous fungi by Dr Joan Kelly (Genetics). Robson Lecture Theatre, RAH.

12.05pm Psychology Seminar: Wrinkles and sagging: Women's body image across the lifespan by Dr Marika Tiggeman (Psychology, Flinders University). Room 527, Level 5, Hughes Building.

1.00pm Environmental Biology Seminar: Artificial mixing in reservoirs by Rudi Regel (Environmental Biology). Benham Lecture Theatre, Ground Floor, Benham Building.

4.30pm School Governance Seminar: Research on Educational and Management Issues by John Ainley and Phillip McKenzie (ACER). Flinders University. Details: Fax 8274 1199 or email: <saier@cbconsult.com.au>.

FRIDAY 4 AUGUST

10.00am Social Inquiry Postgraduate Seminar Series: Labour Studies: Tackling workplace harassment in pubs and clubs: Workplace culture and workers experience by Claire Howie (Postgrad). Seminar Room, Level 3, 10 Pulteney Street.

11.30am Social Inquiry Postgraduate Seminar Series: Gender Studies/Anthropology: Bodies Overflowing: Blood, Milk, Semen, Babies and Embodiment by Debbi Long (Postgrad). Seminar Room, Level 3, 10 Pulteney Street.

1.10pm Elder Conservatorium Lunch Hour Concert: Marina Kolomiitseva (first prizewinner of the Sydney International Piano Competition of Australia). Admission \$3 at the door (inc GST). Elder Hall.

1.10pm Asian Studies Seminar: India meets China in the New Millennium by Prof KR Sharma (University of Delhi, India). Room 518, Level 5, Ligertwood Building.

1.15pm Physics in the Spotlight: Archaeometry by Professor JR Prescott and Dr D McCoy. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

1.15pm Inaugural Lecture Series: Is the world simple but unpredictable? New views of the workings of aquatic ecosystems by Professor Graham Harris (Agricultural & Natural Resource Sciences). Lecture Theatre G04, Napier Building.

MONDAY 7 AUGUST

12noon Plant Science Seminar: PB Inc - The Future of Field Crop Breeding in SA? By Professor Andrew Barr (Plant Science). Charles Hawker Conference Centre, Waite Campus.

1.00pm Clinical & Experimental Pharmacology Seminar: A brain slice preparation for investigating neurotoxicity by Dr Steve Johnson (Clinical Pharmacology, Flinders Medical Centre). Seminar Room, Level 6, Medical School, North Wing.

1.10pm Law Seminar: The legal rights of Great Apes by Andrew Alston. Room 216, Ligertwood Building.

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

TUESDAY 8 AUGUST

1.10pm Student Workshop: Managing your emotions Part II by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb Building.

3.15pm Anthropology Seminar: Nationalism and Law as a Primordial Experience: Kapferer and the Limits of Ontological Hermeneutics by Roshar de Silva (Law, East London University). Room 722, 7th Floor, Napier Building.

5.00pm North Terrace Neuroscience Discussion Group: Motor Cortical Representational Changes Induced by Prolonged Peripheral Stimulation by Dr Michael Ridding (Physiology). Seminar Room, 6th Floor, Medical School, North Wing.

5.00pm Matlab Course: An introduction to this popular maths package - engineering, maths, physics. CATS C, Top Floor, Engineering South.

6.00pm The Don Dunstan Foundation / Centre for Labour Research Public Lecture: Privatisation - sell off or sell out? The Australian experience by Professor Bob Walker (Accounting, University of New South Wales) and Betty Con Walker (Economist). \$10/\$5 concession. Union Hall. Bookings Alison 8303 3364.

WEDNESDAY 9 AUGUST

10.10am Electrical & Electronic Engineering Seminar: Fractal Geometry in Parrondo's Games by Andrew G Allison (Lecturer). Room EM212, New Engineering & Mathematics Building.

12.30pm Clinical Nursing Seminar: Meeting the Needs of Relatives in ICU: The Role of Hope by Mr Leslie Gelling (Research Nurse, Neurosurgery, University of Cambridge). Room 36, Level 3, Eleanor Harrald Building, RAH.

1.10pm Geology & Geophysics Seminar: Martian Geology & Life by Dr Vic Gostin (Geology & Geophysics). Mawson Lecture Theatre, Mawson Laboratories.

1.10pm Genetics PhD Update: Scott Spargo (second year). Seminar Room, Ground Floor, Fisher Building.

1.10pm Student Workshop: Developing a lifestyle that reduces stress and worry by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

THURSDAY 10 AUGUST

12.05pm Psychology Seminar: Extending the ALCOVE model of categorisation by Dr Michael Lee (Communications Division, DSTO). Room 527, Level 5, Hughes Building.

1.00pm Environmental Biology Seminar: The ecophysiology of terrestrial-nesting frogs by Nicola Mitchell (Environmental Biology). Benham Lecture Theatre, Ground Floor, Benham Building.

7.45pm Field Geology Club Brian Daily Memorial Lecture: Sequence stratigraphy by Dr Nick Lemon. Mawson Lecture Theatre.

FRIDAY 11 AUGUST

10.00am Social Inquiry Postgraduate Seminar Series: Labour Studies: The portfolio worker: experiences within and outside of the discourse of flexibility by Dandy Laing. Seminar Room, Level 3, 10 Pulteney Street.

11.30am Social Inquiry Postgraduate Seminar Series: Dark, Desperate and Dangerous Victorian Women mourning and sexuality 1840-1890 by Dr L Summers. Seminar Room, Level 3, 10 Pulteney St.

1.15pm Physics in the Spotlight: Astrophysics by Dr J Patterson, Dr B Dawson and Dr R Protheroe. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

1.15pm Inaugural Lecture Series: Drought, heat, ice and pestilence: Plant breeding for the tough times by Professor Andrew Barr (Plant Science). Lecture Theatre G04, Napier Building.

4.00pm Obstetrics & Gynaecology Seminar: Mice, melatonin, molecules and minutes by Associate Professor Dave Kennaway (Obstetrics & Gynaecology). Seminar Room, 6th Floor, Medical School, North Wing.

SITUATIONS VACANT

Further details 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 vacancies are not restricted to members of the University.

TENURABLE LECTURER IN MOLECULAR BIOLOGY (Ref: 10496)

Department of Animal Science, Roseworthy Campus
Salary: Lecturer Level B \$49,249-\$58,484

This tenurable position is available from 1 January 2001. The possibility exists for a flexible appointment (eg of more senior applicants on a part-time or shared salary basis). Details from Professor Philip Hynd, tel 8303 7871 or email <philip.hynd@adelaide.edu.au>. Applications close 31 August 2000.

HYDROCARBON SEALS DATA RESOURCE OFFICER (Ref: 10492) (Fixed-term)

National Centre for Petroleum Geology and Geophysics, Thebarton Campus

Salary: Research Associate/Post-doctoral Fellow \$38,414 - \$46,786

This fixed-term position is available immediately for a period of 2 years. Further information, may be obtained from the NCPGG administration, tel 8303 4299, fax 8303 4345 or email <admin@ncpgg.adelaide.edu.au>. Applications close 11 August 2000

POSTDOCTORAL FELLOW (Ref: 10491) (Fixed-term)

Department of Plant Science, Waite Campus

Salary: \$34,475-\$46,786

This fixed-term position is available immediately for a period of three years. Details from Professor Peter Langridge, tel 8303 7368 or email <peter.langridge@adelaide.edu.au>. Applications close 11 August 2000.

RESEARCH EDUCATION AND DEVELOPMENT COORDINATOR (Ref: 10467) (Continuing)

Research Branch

Salary: HEO6 \$39,402 - \$42,664

This continuing position is available immediately. Further information

may be obtained from Coleen Roddam, tel 8303 5137 or email <coleen.roddam@adelaide.edu.au>. Applications close 11 August 2000.

EXECUTIVE ASSISTANT (Ref: 4471) (Continuing)

Office of the Vice-Chancellor
Salary: HEO6 \$39,402 - \$42,664

This continuing position is available immediately. Details Rosalyn Chardon tel 8303 5780, fax 8303 4407 or email <rosalyn.chardon@adelaide.edu.au>. Applications close 11 August 2000.

TECHNICAL ASSISTANT (Ref: 3573) (Fixed-term)

Department of Plant Science, Waite
Salary: HEO4 \$31,252 - \$34,376

This fixed-term position is available immediately until 30 June 2001. Further details from either Anne Marshall or Sam Merchant, Department of Plant Science, tel 8303 6740, 8303 6815 or fax 8303 7109. Technical enquiries Dr Sue Logue 8303 7348 or Prof Andrew Barr 8303 6553. Applications close 11 August 2000.

ADMINISTRATIVE ASSISTANT (Ref: 9567) (Fixed-term) (Part-Time)

Cooperative Research Centre for Clean Power from Lignite
Department of Chemical Engineering

Full-time salary: HEO4 \$31,252 - \$34,376

This fixed-term position is available immediately for a period of three years on a 22.05 hours per week basis. Further details from Jennifer Critchley, Department of Chemical Engineering, tel 8303 5657 or email <jennifer.critchley@adelaide.edu.au>. Applications close 4 August 2000.

HUMAN RESOURCES OFFICER (Ref: 6420) (Fixed-Term)

Human Resources
Salary HEO4: \$31,252 - \$34,376

This fixed-term position is available immediately to 31 July 2001, to replace staff on leave for the care of children. Further information from Kathie Hurst, Human Resources Manager, tel 8303 4520. The selection criteria and duty statement may be obtained from Human Resources Reception, tel 8303 5666. Applications close 7 August 2000.

ADMINISTRATIVE OFFICER (Ref: 10488) (Fixed-term)

Law School
Salary HEO3: \$27,174 - \$30,979

This fixed-term position is available immediately for 12 months. Further details from Ms B McCullagh, tel 8303 5818, fax 8303 4344 or email <barbara.mccullagh@adelaide.edu.au>. Applications close 14 August 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 14 August 2000, advertising paper work must be received in Human Resources by 28 July 2000.

For the *Adelaidean* of 28 August 2000, advertising paper work must be received in Human Resources by 11 August 2000.

GENERAL NOTICES

Review of the Adelaide University Law School

Call for Submissions

The University is currently undertaking a review of the Law School.

Staff, students and members of the community are invited to make a submission to the Review on matters relevant to the Terms of Reference. The primary term of reference is to evaluate the quality of the Law School and its academic programmes in relation to international standards of Law education.

The complete terms of reference can be obtained at the following web address:

<http://www.adelaide.edu.au/DVC/reviews/law_review.html>.

or by contacting Tim Scroop, Reviews Officer, on 8303 5902.

It is requested that submissions be received by Friday 8 September 2000. They should be sent to Tim Scroop, Reviews Officer, Room G04, Mitchell Building, Adelaide University, SA, 5005. Please indicate if you wish your submission to be confidential.

PROFESSOR PENNY
BOUMELHA
Deputy Vice-Chancellor
(Education)

University Teaching Development Grants 2000

The aim of the University Teaching Development Grant is to promote the enhancement of learning and teaching at the University of Adelaide.

Applications are invited for the 2000 round of the University of Adelaide Teaching Development Grants. The Grants are intended to promote good learning and teaching practices; to encourage and foster innovation in higher education teaching; and to provide staff development opportunities at the University of Adelaide.

A total of \$150,000 will generally be available and is to be used by the successful individual(s), team, department or centre to effect practical improvements in learning and teaching. Individual grants are likely to fall within the range of \$10,000 to \$50,000 according to the scale and nature of the projects funded.

Each grant recipient will be required to agree with the Deputy Vice-Chancellor (Education) an appropriate form of dissemination of their achievements in learning and teaching (which might include a seminar, an article for the *Adelaidean* and/or a web-page article for LEAP).

Eligibility for the University

Teaching Development Grants:

- All full-time and part-time members of academic staff (including clinical, affiliate and adjunct titleholders) in a teaching position at Adelaide University are eligible. Members of academic staff on contract should have at least one year of service remaining of their contract period and demonstrate that the objectives of the proposal are deliverable within the time available.
- Teaching groups which include full-time and part-time members of the academic staff which may include members of the general staff are eligible.
- All teaching faculties, departments, centres and interdisciplinary groups in the University of Adelaide are eligible.

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

Applications are now sought for and application forms can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, ext 35511, fax: 34873, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's website: <http://www.adelaide.edu.au/DVC/quality/teaching_development_l&t_grants.html>.

Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by **Friday 4 August 2000**.

Professional and Continuing Education Courses

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

The cost for Adelaide University staff is \$220 for a one-day course and \$116 for a half-day course.

Managing Stress: 03PD2020. 9.00am - 12.30pm. Tuesday 8 August 2000.

Creatively Managing Conflict: 03PD2016. 9.00am - 4.30pm. Thursday 10 August 2000.

Developing Risk Management - A Practical Approach: 03PD1011a. 9.00am - 4.30pm. Friday 18 August 2000.

Preparing an Effective Business Plan: 03PD2003. 9.00am - 4.30pm. Wednesday 23 August 2000.

Please contact Nadia Tarasenko on 8303 4777 to enrol or for further information.

National Symposium

The Department of Medicine at the Queen Elizabeth Hospital is currently organising a 2-day national symposium titled **New Directions in Asthma and Zinc Research to be held at the Queen Elizabeth Hospital on Friday 8 and Saturday 9 September 2000**.

The program consists of two international plenary speakers and a number of well recognised Australian speakers.

Could all interested parties please register and if desired, submit an abstract for the poster sessions as soon as possible, as places are quickly filling. For details on abstract and poster specifications contact Ai Truong-Tran, tel: 8222 7347 or email: <ai.truong-tran@student.adelaide.edu.au>.

Symposium program and registration forms can be obtained from the QEHS 2000 Symposium web page at: <<http://www.nwahs.sa.gov.au/research/september%20conference.htm>>.

"What is Ethical Research" Workshop

Friday 11 August

This 4-hour workshop will be run by Associate Professor Paul McNeill. He is an Associate Professor of Ethics and Health Law in the School of Community Medicine, University of NSW.

The workshop is part of the Surgical Research Society of Australasia - Start of the Millennium Annual Scientific Meeting.

There is no cost to attend the workshop. However, you do need to register by contacting Natalie Howard, 8222 7836 or email: <natalie.howard@nwahs.sa.gov.au> by Tuesday 1 August 2000.

Enquiries about the Annual Scientific Meeting can be directed to Siobhan Rowe, 8222 6756 or email: <siobhan.rowe@nwahs.sa.gov.au>.

University mouse mats

The Media, Marketing & Publications Unit has commissioned some mouse mats bearing the Adelaide University logo.

They are available for purchase at \$5 each. Departments interested in purchasing mouse mats for gifts or promotional purposes should contact Pue-San Ng, 8303 6479 or email: <puesan.ng@adelaide.edu.au>.

2001 Academic Year

Week	Activity
1-7	Summer semester (six weeks)
8	Orientation week
9-14	Semester 1, first half (six weeks)
15-16	Mid-semester break
17-22	Semester 1, second half (six weeks)
23-24	Swot vac
25-26	Examinations
27 - 28	-
29	Supplementary examinations
30-37	Semester 2, first half (eight weeks)
38-39	Mid-semester break
40-43	Semester 2, second half (four weeks)
44	Swot vac
45-46	Examinations
47-48	-
49	Supplementary examinations
50	-
51	Commemorations
52	-

Full details are available on from the website at: <http://www.adelaide.edu.au/DS_SS/yeardate/2001.htm>.

Scholarship Opportunities at TQEH in 2001

Postgraduate Research Scholarships
Honours Research Scholarships
Vacation Research Scholarships

Information sessions: Friday 25 August 2000, 12.30 - 2.30pm, Benham Lecture Theatre and Meeting Room, Benham Building, Adelaide University.

For details contact the Research Secretariat, TQEH, tel (08) 8222 7836 or (08) 8222 6870, email: <natalie.howard@nwahs.sav.gov.au> or <gwenda.graves@nwahs.sa.gov.au> or visit the web site at: <<http://www.nwahs.sa.gov.au/research/Scholarships.htm>>.

Women's Professional Development Network (WPDN)

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

The WPDN runs a variety of activities including breakfasts, lunchtime speakers and workshops. For more information and instructions on how to join our listserver, visit our web site at: <<http://www.adelaide.edu.au/wpdn>> or contact Sam Jacob <sam.jacob@adelaide.edu.au>, ext 34201, or Danielle Hopkins <danielle.hopkins@adelaide.edu.au>, ext 33937.

Coming Events

Lunchtime Networking Forum - Tuesday 1 August "Adelaide University - 126 years old and still surviving: Recollections of some women general staff - who may not be 126 - but are survivors". A special invitation is extended to all general staff women who have worked in the University for 20yrs and more! Guests include: Shirley Pearce, Mary Parry, Di Coffey. Free event of 1hr duration, bring your lunch. Venue is the Ira Raymond Room, Barr Smith Library, 12:30pm.

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Dental treatment for University staff and students

The Colgate Australian Clinical Dental Research Centre (CDRC) is a state-of-the-art clinical research facility located in the Adelaide Dental Hospital building (adjacent to the Royal Adelaide Hospital and IMVS) and is a unit of Adelaide University and the Dental School.

Emergency dental treatment and routine dental care is available at the CDRC. All patient treatment is carried out by qualified staff. Competitive rates and EFTPOS facilities are available. Concessions are also available for holders of University cards. Convenient public transport access is available.

For further information or to make an appointment for treatment, please contact Freya on 8303 3437.

Competitive Rates...Convenient Access

Dental School
Adelaide University



Royal Society of South Australia Talks

The Royal Society of South Australia was incorporated in 1883 with the aim of dissemination and exchange of scientific knowledge, particularly regarding the natural history of South Australia. The Society (which is not connected with Australians for a Constitutional Monarchy) also publishes a journal cited

by Current Contents. The current interests of members are chiefly botany, zoology, geology, geomorphology, palaeontology, anthropology and soil science - although this is ever expanding. The Society has also published a number of very popular "Natural History" books covering Kangaroo Island, the Flinders Ranges and other parts of South Australia.

The Society organises a program of guest speakers each year. These are held following meetings on the second Thursday of each month, from March to November. They are held in the Society's rooms adjacent to the SA Museum's Natural Sciences building (off Kintore Avenue) and begin at 6.30pm.

Members of the public are welcome to attend these talks. Speakers for the next three months are:

10 August:

Insect parasitoids - models for the evolution of antagonistic interactions by Dr Andry Austin.

14 September:

Lessons from the last 65 million years by Dr Tim Flannery.

9 November:

Kangaroos; second rate mammals or Beautifully designed machines? by Professor Russell Baudinette.

Enquiries to Craig Williams 8302 1623 (business hours).

Research Branch: Special Notices

NEW STAFF

The Research Branch welcomes the following new staff members:

Lynette Kelly who has joined us from Chemical Engineering and will be responsible for establishing and administering a two year pilot program for a proposed Australian-German Research Cooperation Scheme. The pilot scheme involves Adelaide University, the ANU and the German Academic Exchange Service (DAAD) and has been supported by a grant from the Commonwealth Department of Industry, Science and Resources. Lynette can be contacted on ext 35175.

Linda Knoben previously with the SA Department of Industry and Trade who replaces Louise Moore as the Research Support and Administration Officer, largely responsible for publicising funding opportunities. Linda is available on ext 34722.

Kelly Parish who has taken up our Clerical Support position previously occupied by Renae Minerd and is the person to contact if you need a hard copy of a grant application kit. She has previously worked on a casual basis with the Departments of Applied Maths and Pure Maths. Kelly is on ext 33716.

GRDC - PRELIMINARY RESEARCH PROPOSALS

The GRDC invites researchers to submit Preliminary Research Proposals which are consistent with the Corporation's priority areas as detailed in its 2001-2002 Research Prospectus which has recently been distributed to Departments. Research priorities for 2001-2002 fall under various programs in the following investment objectives:

- Meeting Quality Requirements
- Increasing Productivity
- Protecting and Enhancing the Environment
- Delivering Outcomes

For further details regarding the programs, locate the 2001-2002 Research Prospectus on the GRDC website at <<http://www.grdc.com.au>> or through the Funding Opportunities page in the Research Branch website.

Time line: Preliminary research proposals should be submitted to the Research Branch by 11 August 2000. Feedback from the GRDC on PRPs will be provided to applicants by November, and researchers who are invited to submit Full Proposals will be required to do so by 12 January 2001.

Applications: Complete the Word 6 PRP form by

accessing the Research Prospectus Web page on the GRDC website. When you have completed the PRP form send eleven (11) paper copies (A4 size, double sided, stapled) and email an electronic copy to the Research Branch by 11 August 2000.

Funds required for travel which is integral to the research project should be incorporated into project applications and accompanied by suitable justification.

Further information can be located on the GRDC website or contact Angela Thomas in the Research Branch (ext 35137).

NHMRC GENERAL PRACTICE FELLOWSHIP IN RURAL HEALTH

A new full-time postdoctoral Fellowship is available for a general practitioner interested in, and able to make a contribution to, rural health. It will be awarded for a maximum of four years and is tenable only in institutions approved by the NHMRC. The Fellowship is intended primarily to contribute to the development and strengthening of the general practice research and evaluation workforce. Applicants must hold vocational recognition as a general practitioner and recently have completed a PhD (within two years) or have equivalent research experience in a relevant health discipline.

Further details are available on the Fellowships page of the Research Branch website or from Simon Brennan or Daina Shaw on ext 35137.

AUSTRALIAN BUREAU OF STATISTICS - CONFIDENTIALISED UNIT RECORD FILES

The ABS has entered into an agreement with the Australian Vice-Chancellors Committee to provide public use Confidentialised Unit Record Files (CURFs) to participating universities for research and teaching purposes. CURFs contain unidentifiable unit record data from most of the key ABS social and labour household surveys. Applications must be submitted on a booklet available from the Research Branch and must be signed by the Deputy Vice-Chancellor (Research). Further information, including a list of available CURFs and application booklets is available on the ABS website at <www.abs.gov.au/websitedbs/D3110129.NSF/ABS-AVCC> or from Cyril Brown, Manager, Research Operations in the Research Branch on ext 33534.

Research Branch <www.adelaide.edu.au/RB>

Missed the deadline?

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



Barr Smith Library tours

Join a free 30 minute guided tour on the first Thursday of every month.

Ideal for students, staff or alumni unfamiliar with the layout, collections, resources and services of the Barr Smith Library.

RSVP to Jennifer Osborn (Reference Services). Max of 12 per group. Tel: 8303 3706 Email: <jennifer.osborn@adelaide.edu.au>.

RESEARCH GRANTS AND SCHOLARSHIPS

AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

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

Australian Greenhouse Office - Alternative Fuel Conversion Program: Internal closing date: Apply at any time. Web site: <http://www.greenhouse.gov.au/transport>.

Heart Foundation - Travel Grants: Travel Grants may be applied for at any time. (Applications should be lodged as early as possible to allow time for further correspondence, but not later than two months before the departure date). Web site: http://www.heartfoundation.com.au/research/index_fr.html.

Wellcome Trust - Various Fellowships, Grants and Travel Awards: (biomedical research): Applications can be submitted at any time. Web site <http://www.wellcome.ac.uk/>.

Dairy Research and Development Corporation - Research and Development Funding: Internal closing date: 1 August 2000. Web site: <http://www.drdc.com.au>.

National Research Council (USA) - Resident Research Associateships for the NASA Ames Research Center: Internal closing dates: 2 August and 15 September 2000. Web site: <http://www4.nas.edu/osep/rap.nsf>.

Australian Academy of Science - Boden Research Conferences: (for intent to hold a biological sciences conference in February 2001): Internal closing date: 4 August 2000. Web site: <http://www.science.org.au/awards/boden.htm>.

National Facility Steering Committee Oceanic Research Vessel Franklin - Call for applications for use of Franklin in 2002 and expressions of interest for 2003 and beyond: Internal closing date: 4 August 2000 and 24 March 2001. Web site: <http://www.marine.csiro.au/franklin/>.

Sudden Infant Death Research Foundation Inc (SA) - Research Grant/Research Fellowship: Internal closing date: 4 August 2000.

Asthma NSW Research Grants 2001: Internal closing date: 8 August 2000.

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

Australian Rotary Health Research Fund - Mental Illness Research Grants & First Aid, Pre-Hospital Treatment and Emergency Care Research & Ian Scott Fellowship: Internal closing date: 8 August 2000. Web site: <http://www.rotar.net.com.au/arhrf>.

French Embassy - French Government Scientific Fellowships 2001: (any field of natural, basic and applied science, in engineering, or in a field

associated with cultural aspects of science): Internal closing date: 8 August 2000. Web site: http://www.france.net.au/site/science_culture/scient/bourse/bour188.htm.

Grains Research and Development Corporation - Preliminary Research Proposals: Internal closing date: 11 August 2000. Web site: <http://www.grdc.com.au>.

Horticulture Research & Development Corporation - Graham Gregory Awards: Internal closing date: 11 August 2000.

The Garnett Passe & Rodney Williams Memorial Foundation Awards for 2001: (for research in Otorhinolaryngology or the related fields of biomedical science): **Research Training Fellowships:** Internal closing date: 18 August 2000. **Senior / Principal Research Fellow-ship, Project Grants, Sabbatical Fellowship, Overseas Research Fellowship:** Internal closing date: 6 October 2000.

Garnett Passe & Rodney Williams Memorial Foundation - Grants-In-Aid - 2001: Internal closing date: 18 August 2000.

Motor Neurone Disease Research Institute of Australia Incorporated - Grant-in-Aid for Research: Internal closing date: 18 August 2000.

National Cancer Institute, USA - Molecular Epidemiology of HIV-Associated Cancers - Grants: Internal closing dates: 18 August and 18 October 2000. Web site: <http://grants.nih.gov/grants/guide>.

Australian Academy of Science - Selby Fellowship: (for overseas scientists to visit Australia for public lecture/seminar tours and to visit scientific centres in Australia): Internal closing date: 21 August 2000. Web site: <http://www.science.org.au/awards/selby.htm>.

The Asia Link Centre - The Sir Edward Weary Dunlop Asia Fellowships: (for young Australians who are committed to making a lasting contribution to Australia-Asia relations): Internal closing date: 24 August 2000. Web site: <http://www.asialink.unimelb.edu.au/public/dunlopfellow.html>.

Australian American Educational Foundation - Fulbright 2001 Awards: (for study, research or lecturing in the United States): Internal closing date: 24 August 2000. Web site: <http://sunsite.anu.edu.au/education/fulbright>.

Australian Academy of Science International Programs: Scientific Visits to Japan, China, Korea and Taiwan FY 2001-2002: Internal closing date: 25 August 2000. Web site: <http://www.science.org.au/internat/exchange/contcix.htm#Asia>.

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>.

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

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>.

Perpetual Trustees - Grants: Internal closing date: 15 September 2000.

Gastroenterological Society of Australia Awards For 2000: Grants, Travel Awards and Postdoctoral Fellowship for 2000 and 2001: Internal closing dates: 20 September, 29 September and 20 October. Web Site: <http://www.gesa.org.au>.

Australian Academy of the Humanities - Overseas Program with the Former Soviet Union: Internal closing date: 22 September 2000.

Australian Academy of Science - Maxwell Ralph Jacobs Fund: (forestry science): Internal closing date: 22 September 2000. Web site: <http://www.science.org.au/awards/jacobs.htm>.

Canadian High Commission; Canada-Asia-Pacific Award in Canadian Studies (CAPA); Faculty Research Program (FRP); Faculty Enrichment Program (FEP); ACSANZ Postgraduate Award for Canadian Studies: Internal closing date: 22 September 2000. **International Council for Canadian Studies - Program for International Research Linkages: Canadian Studies Academic Internship Program:** Internal closing date: 8 November 2000. Web site: <http://www.powerup.com.au/~acsanz/>.

Department of Foreign Affairs and Trade - Australia Indonesia Institute - Project Funding: Internal closing date: 22 September. Web site: <http://www.dfat.gov.au/ai>.

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.

Cambridge University - Peterhouse - Friends of Peterhouse Bursary: Open to a those who intend to be candidates for a degree at Cambridge, either undergraduate as an affiliated student or to pursue a one or two year taught course as a graduate student. Applications available from Senior Tutor, Peterhouse, Cambridge CB2 1RD. Those wishing to be affiliated students are reminded that applications for places at all University colleges close on 15 October 2000. Information sheet available on request. Closing: 1 April 2001

Cambridge University - Peterhouse - Research Studentships: Applicants must intend to be candidates for PhD at Cambridge University. First consideration will be given to candidates who nominate Peterhouse as their College of preference in their Cambridge Intercollegiate Graduate Application Scheme form (CIGAS). Applications available from Senior Tutor, Peterhouse, Cambridge CB2 1RD. Information sheet available on request. CIGAS applications and prospectus available from the Board of Graduate Studies, 4 Mill Lane, Cambridge CB2 1RZ. Closing: 1 April 2001

Canadian Studies Awards: ACSANZ Postgraduate Awards: Up to \$A2,800 for Masters or Doctoral candidates engaged in research into Canadian studies to undertake research trips to Canada for up to six months. Closing: 30 September. ICCS Graduate Student Thesis/Dissertation Scholarship: 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 or visit the ACSANZ Web Site: <http://www.powerup.com.au/~acsanz>.

Cassamarca Scholarships for Research in Italy: Open to students at honours, research master's or PhD level wishing to undertake research in Italy in 2001. Areas include Italian language, literature, culture, history, politics and society, including migration studies. Value: \$7,500. Further details only available from Ms Rita Bennett, Office of Development, University of WA, Nedlands, WA 6907, tel: (08) 9380 7944; fax: (08) 9380 1063, email: rbennett@acs.uwa.edu.au. Closing: 1 September (WA).

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. 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).

Gowrie Research Scholarships: When awarding the scholarships, consideration will be made to the character and other activities of the candidates, and special attention shown to lineal descendants of a member of the Forces who was killed on active service or who died as a result of any occurrence which happened during period of enlistment. Value: \$4000 pa. Closing: 31 October (Student Centre).

Lionel Murphy Postgraduate Scholarships: Open to Australian citizens who have completed, or are about to complete an undergraduate degree in science, law or legal studies, or other appropriate disciplines, and who intend to pursue a postgraduate degree in these fields. Value: \$15,000pa. Overseas scholarships are also available. Value: \$30,000pa. Closing: 25 August (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).

Women's and Children's Hospital Medical Postgraduate Scholarships: Open to applicants who have an MBBS or equivalent (minimum) and who are eligible to enrol for a higher degree in any aspect of health care at a South Australian university. Only medical graduates of high academic achievement will be considered. Value: \$30,000pa tax free. Applications from: Miss Nikki Johnson, Research Secretariat, Women's and Children's Hospital, ph: 8204 6390, fax: 8204 6112, email: johnsonn@wch.sa.gov.au Closing: 11 August (WCH).