

Aspirin fights gum disease too: new study

A WORLD-FIRST study has discovered a link between taking aspirin and protection against gum disease.

The study by Adelaide University dental researchers has found that even ex-smokers can benefit from small doses of aspirin.

Severe gum disease, otherwise known as periodontitis, causes deterioration of the structures in the gums that hold the teeth in place. This can ultimately lead to the teeth falling out.

Gum disease is a major problem in Australia, with an estimated 10% of the population suffering from its most severe forms. The problem particularly affects smokers and ex-smokers.

In the first study of its kind, Dr Arthur Drouganis and Dr Robert Hirsch at Adelaide University's Dental School investigated the dental health of 392 men who were ex- or non-smokers. (Men were chosen for the study because mature-aged women can be affected by hormonal changes which can influence the health of the gums.)

Gum health was assessed using a periodontal probe to measure the extent of gum deterioration around all the teeth.

The study found that men from the general population aged 50 and above who were taking low doses of aspirin to prevent heart attacks, strokes and other vascular diseases, had significantly better gum health than those who did not take aspirin.

Non-smokers were better off than ex-smokers, which confirmed the already well-documented findings that smoking has a negative effect on gum health. Smokers also have fewer teeth at a given age than non-smokers, with ex-smokers

being in the middle of the range.

The implications of these findings are that low doses of aspirin may protect the fibres and ligaments that attach the gums to the teeth. This is possibly because aspirin inhibits the action of prostaglandin E2, a chemical messenger that triggers bone loss in severe gum disease.

"Our findings show that people aged over 50, particularly ex-smokers and probably smokers, may reduce their risk of deteriorating gums by taking low doses of aspirin (100mg) daily," Dr Drouganis said.

He said an important distinction needed to be drawn between superficial gum inflammation, known as gingivitis, and severe gum disease or periodontitis.

"People might think that if they have bleeding gums, the most common symptom of any gum disease, they might benefit from taking aspirin. They certainly wouldn't," he said.

"What I wouldn't like to see is people who have gingivitis — or people in general — start taking aspirin in the hopes of improving their gum health. Only those people who have a history of severe gum disease could benefit from low doses of aspirin, and they may be identified by their dentist or periodontist.

"They should, of course, discuss this with their doctor to avoid interference with other medications or medical conditions."

Dr Drouganis conducted the study as part of his Master of Dental Surgery in Periodontology under the supervision of Dr Hirsch. A paper detailing the findings has been accepted for publication in the Journal of Clinical Periodontology.



A gaping problem—severe gum disease takes its toll.

INSERT: (from left) Dr Arthur Drouganis and Dr Robert Hirsch in the Colgate Australian Clinical Dental Research Centre. Photo: David Ellis.

Dr Hirsch said research would continue at Adelaide University to investigate other potential benefits of aspirin, such as improvements in the response to gum treatment in people with severe gum disease, or whether low doses of aspirin can slow the progression of gum disease in people who are not receiving treatment.

—David Ellis



Science leader our new DVCR

A LEADING biotechnologist is Adelaide University's new Deputy Vice-Chancellor (Research).

Professor Edwina Cornish, formerly of Florigene Ltd, has been appointed to the positions of DVCR and Professor of Biotechnology.

Professor Cornish managed research, product development and intellectual property activities at Florigene, an Australian biotechnology company which uses gene technology to develop new flower varieties for the cut-flower market.

Her involvement in the biotechnology industry stretches back to 1988. A widely published researcher who began her research career with the University of Melbourne's School of Botany, Professor Cornish holds a number of patents and has played a leading role in Australia's research and innovation system.

She was a member of the Prime Minister's Science & Engineering Council and served on the Victorian Government's Science & Engineering Taskforce since its inception.

"Professor Cornish brings great experience and understanding of some of the key challenges facing a research university like



Adelaide," said the Vice-Chancellor, Professor Mary O'Kane

"These challenges include building on our excellent research capabilities to attain more grants from government and industry, making the most of our valuable intellectual property, working effectively with industry, and making a contribution to dynamic growth areas such as biotechnology."

Professor Cornish said she was grateful for her warm welcome at Adelaide and was already finding her new job stimulating.

"Over the next few weeks I will be refining my thoughts on initiatives to support the achievement of our targets for research income. In this regard I am very keen to hear the views of researchers throughout the University," she said.

Love the right medicine for GPs

DOCTORS are much more likely to work in rural practices if their partners are from the country, a major new study has found.

The survey of 500 South Australian GPs has found that doctors with partners from rural backgrounds are twice as likely as urban doctors to base themselves in regional areas.

Education has also emerged as an important influence, with rural doctors twice as likely to have gone to country primary schools.

The survey was undertaken by a partnership between the South Australian Centre for Rural and Remote Health (SACRRH) of Adelaide University and the University of South Australia, the South Australian Rural and Remote Medical Support Agency and Adelaide University's Department of General Practice.

Study leader Professor David Wilkinson of SACRRH said the survey had set out to determine the influence of rural background on location of GPs.

He said researchers had known that family issues were important for rural GPs but had not expected the rural background of partners to be so important.

"This turned out to be the biggest difference between urban and rural doctors surveyed," he said.

"We focused on where the doctors grew up as children, where they were educated as children and whether their partners had a rural background.

"The reason for the study is that the Commonwealth

Government is spending millions of dollars on encouraging rural kids to enter medical school in the expectation that they will become rural doctors. We wanted to see if this assertion is true."

The survey found that 49% of rural doctors had a partner with a rural background, compared with 24% of urban GPs.

Rural doctors were also more likely to have grown up in the country (37% compared with 27%) and more likely to have attended a country primary school (33% compared with 19%).

Professor Wilkinson said the survey results showed that the rural medical workforce shortage would not be solved by dealing with doctors in isolation.

"We need a much broader approach, one that encompasses partners and families and strengthens the rural infrastructure, ensuring that rural children can stay in the country for a high quality education should they so wish."

The report points out that current scholarship schemes target students who have completed Year 12 in rural high schools. It suggests that location of primary education is perhaps more important.

It adds: "The important role of the partner identified in this study raises important questions.

"Should funding be provided for the partners of John Flynn scholars, so that they too can experience rural placements, for example?"

—John Drislane

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COMMENTARY

UPSIDE DOWN EDUCATION

Jonathan Pincus
George Gollin Professor of
Economics

Commonwealth government policy towards universities is inverted. The Commonwealth is encouraging the public universities of Australia to sell what they should be giving away; and at the same time requiring universities to give away what they should be selling.

Imagine the disincentive to innovate in any industry—wine, mining, telecommunications, IT—if government regulation required that Australian customers enjoy, free of charge, all improvements in the quality of products or services made in Australia. An important source of international competitiveness for the industry would have been stifled. The regulated industries would quickly become international basket cases.

This damaging form of regulation has been imposed on universities by the Commonwealth Government—public universities are forbidden to sell innovative value-added educational services to most of their undergraduate Australian students. Instead, they must be given away, free of charge.

The Commonwealth regulations are complex. The vast majority of Australian undergraduates pay a flat charge to government for enrolment in a specific degree. The Common-

wealth sets HECS tuition charges, and the HECS revenue belongs to the Commonwealth. Under the HECS arrangements, the Universities cannot charge HECS-liable students any fees, other than for ancillary services. Thus, Australian public universities cannot sell innovative, quality-improving, value-added educational services to these undergraduates.

However, public universities can and do sell educational services to foreign students and to the rare, Australian full-fee student. Because foreign students, Australian full-fee students, and other Australian students sit in the same undergraduate classes, all students enjoy the same quality and variety of educational services. Improvements in educational services provided to one type of student must be provided to all; but only some students pay fees to the university.

Therefore, Commonwealth Government policy means that Australian undergraduates are given extra educational services that are financed largely by foreign students. Foreign students are subsidising Australian students. Thus, Commonwealth policy discourages innovation in the quality of undergraduate education, and damages Australian competitiveness in the foreign student market.

Australian universities earn about 9%

of their revenue from exports. In comparison, exports are 30% of wine sales. Considering that the Commonwealth has ruled that value-added educational services must be given away to most undergraduates, the universities do amazingly well in international competition.

But, for how long? Higher education, like the industries mentioned above, exists in a global market. Foreign universities will increasingly sell education services to Australians.

“Commonwealth policy discourages innovation in the quality of undergraduate education, and damages Australian competitiveness in the foreign student market.”

A solution favoured by many students is for the Commonwealth to provide more federal taxpayer monies to universities, by way of increases in operating grants. There could be room for increased public spending in the next few years, if the advent of the GST increases the total amount of tax collected in Australia, and if government budgets remain in surplus.

However, I doubt that either political party will increase public grants for undergraduate education, by much, given the evidence that most of the economic benefits from

undergraduate education flow to the graduates themselves, in the form of higher incomes and better jobs; and given the stronger case for more research funding (discussed below).

A better solution is a careful deregulation of university fees. The Commonwealth should permit universities to charge all students for additional educational services that students are prepared to pay for. If combined with a scheme I have called SuperHECS, the additional fees would not disadvantage Australian students from low socio-economic backgrounds. (Under SuperHECS, all fees charged by universities can be borrowed under HECS-like rules, as in New Zealand: no up-front payment of fees is required).

In fact, as I have argued above, deregulation of this kind is required for Australian higher education to remain internationally competitive, whatever the level of public grants to universities.

Having got undergraduate education policy wrong, the Commonwealth Government is swiftly moving to get research policy wrong. The Commonwealth is encouraging the public universities of Australia to sell what universities should be giving away, which is publishable research.

There are two kinds of research outputs, usefully called private-goods research and public-goods research.

Who should do which? Although corporations and universities can do both kinds of research, profit-seeking corporations are much more attracted to private-goods research and are motivated to keep secret and restrict access to the results of their research. So, producing and disseminating public-goods research should be the task of not-for-profit institutions like universities.

Corporations mostly keep research results secret for their own profitable use, or they make money by restrictive licensing of the use of their research. There are occasions when it is profitable for a corporation to make some research results freely available, but these are the exceptions.

Public-goods research results are economically or socially valuable ideas that are difficult to patent or license; and, and this is the essential issue, if you do patent them or license them, by restricting their dissemination you can destroy much of their value to the economy. They are the research findings, ideas, and results that are useful to many people and many corporations in many ways, but once you reveal and explain them, their sale value drops away almost to nothing. You cannot make much of a profit from them, unless you restrict access to them.

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CORRECTION

Last issue's letter to the editor by EH Hirsch, "Music Review" (14 February, 2000), stated that "the Review Committee's findings are verbatim as follows".

In fact, due to a typing error, 10 words were accidentally omitted from point 1 of those findings. It should have read:

"The School is characterised by clear and comprehensive course materials and by its strong community orientation. Overall the Committee was impressed by the clear enthusiasm of both students and staff and by the vitality exhibited, as well as by the deservedly universal recognition by the community of the important contribution being made by the School."

The *Adelaidean* reserves the right to edit letters to the editor. However, on this occasion the change was unintentional.

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LETTERS TO THE EDITOR

Drastic step



At its meeting on 14 February 2000, on my motion, the University Council resolved to defer discussion on a paper which

I had written concerning the report of the Music Review Committee and on the general issue of the review of music, to an open session of the Council scheduled for Monday 20 March 2000 (not Monday 30 March as was reported in the daily press).

As my views have received a certain amount of public exposure, I make it clear that after discussions with many concerned members of the University community, and notwithstanding the helpful explanation as to the procedures and rationale behind the Review Committee's report given by Professor Boumelha and Professor Gillies following the Council meeting, I remain committed to the view that implementation of key features of the Review Committee's report would not be in the interests of the University.

In particular, I do not believe that a case has been made out which could possibly justify closing the Elder Conservatorium (albeit retaining the Elder Hall as a concert hall), and in association with TAFE, creating a new entity altogether, which would then become responsible for delivering, amongst other things, a course leading to the award of a degree to be called a degree of this University.

With respect to the authors of the Review Committee Report, it does not identify any cogent reason why rationalisation of the courses offered by this University and the Flinders Street School of Music, no doubt a desirable objective, could not be achieved by improved and extended facilities being established on or near the site of the Elder Conservatorium, at which a joint operation could be conducted by both institutions.

If we aspire to be a great university, we should

be building on our traditional strengths, not getting rid of them.

I think it important that there be ongoing, well-informed and vigorous debate within the University, including our alumni and other concerned members of the community, before such a drastic step as to close down the Elder Conservatorium is taken.

Anyone who wishes to read my paper, which sets out what I see to be the case against the Review Committee Report, is welcome to request e-mail transmission of it via <jperry@camtech.net.au>.

The Hon. Justice Perry
Council Member

Questions



I recently received the University's latest Professional & Continuing Education program and, looking through the courses on offer, I came to one entitled, "Doing more with less".

The first question that came to mind was, "Why should we have to?" Ever since the Second World War we have been striving to improve the excellence of our research, development and educational activities and have made massive investments in all sorts of technology with the aim of improving the "human condition" of the whole population. This suggests that our goal was to make progress towards doing a little less and having more to do it with, i.e. in general, being able to earn a living with somewhat less effort and worry than in the past.

So, what has gone wrong? Why are we going backwards, as evidenced by the need for this course? Is all this striving for excellence and technological advance worth it if the ultimate outcome is that the majority of people are worse off in terms of job security and stress levels with

the consequential health problems?

We keep being told that we are in difficult economic times and, indeed, there is plenty of evidence around us to support this view. Why is this so? The physical conditions like widespread natural disasters, war, epidemics and things of that sort which might be expected to precipitate economic problems have not been present in Australia to any great degree in recent decades, so clearly our present problems are not of a fundamental physical origin.

Does this mean that the economic system, a purely human construct, is the cause? Is it out of control, or is it being astutely controlled to be advantageous to certain groups of people to the detriment of all others? Is "globalisation" to blame? If we are in the onset stage of globalisation and experiencing difficulties, will not fully developed globalisation be even worse? What possible factors can one adduce to suggest that the trend will "flip" and things start to get better?

Is doing more with less really a good idea? In technological matters, the machinery and processes pass judgement on us in the long run. The fire at the Longford gas plant is an example of how expensive and dangerous a bit of penny-pinching can be. The recent aviation fuel problem could well be another example.

Is anybody in the academic community asking these questions and, if so, are answers to them being sought? If not, are we failing the community at large? Who else is there to investigate these things with an adequate degree of intellectual capacity and, one would hope, a relatively dispassionate approach?

Finally, are we approaching a time when the increasing employment insecurity of academics will tend to inhibit discussion of, and research into, matters which might be deemed to be "sensitive"?

Robin Sanderson
Mechanical Engineering

Roseworthy director appointed

THE University's commitment to rural Australia has been further reaffirmed with the appointment of one of its leading scientists as Professor and Director of the Roseworthy Campus.

The newly appointed Director is Professor Simon Maddocks, who has worked as a lecturer, senior lecturer and researcher at the University's Waite and Roseworthy campuses for more than 10 years.

Professor Maddocks is recognised internationally for his research in animal science, particularly in the field of reproduction biology. He has developed collaborative research projects with other departments, other universities, and with colleagues in the South Australian Research

& Development Institute (SARDI).

Vice-Chancellor Professor Mary O'Kane said Professor Maddocks's appointment represented a major commitment to the Roseworthy Campus by the University, along with the State Government and industry partners.

"Professor Maddocks has exceptional skills in management, communication and industry relations, and his appointment will benefit the rural community and industries, potential students, colocated partners on the Roseworthy Campus and the University as a whole," she said.

"Dryland agriculture and animal production represent the major rural activities in South Australia, and the refocus of Roseworthy over the past few years as a centre of excellence in these areas means

the campus will have an important impact on agriculture in this State and around the nation.

"Professor Maddocks is an ideal choice for the position, providing a driving focus for agricultural education and research at Roseworthy."

Professor Maddocks's previous position was as a half-time Director of the Roseworthy Campus, shared with his other responsibilities in the Department of Animal Science. The University has upgraded this position to a full-time professorial position.

The Vice-Chancellor thanked the South Australian Farmers Federation, which was involved in the selection panel for the position.

—David Ellis

Mawson's medals donated to new 'home of the blizzard' at Museum

TWO DOZEN medals presented to the great explorer and scientist Sir Douglas Mawson have now been donated to the South Australian Museum and the Adelaide University Mawson Collection.

The medals—awards given to Mawson for years of scientific endeavour in the Antarctic, the outback of Australia and for service during the First World War—have until now remained part of the Mawson family heirlooms.

Over the years the family has donated many items to the SA Museum and the University. These will go on display in the permanent Mawson exhibition to be opened at the museum in April.

The exhibition includes a realistic replica of the Antarctic hut in which Mawson endured a bitter winter in [which year?], having barely missed his transport back to Australia.

"Mawson's spirit of adventure and scientific endeavour have influenced people around the world," said Mawson's grandson, Mr Alun Thomas.

"The display of his medals at the South Australian Museum will ensure that people continue to learn about and be inspired by Mawson for years to come."

Among the medals are national and international awards from scientific societies and governments. These include the solid gold David Livingstone Medal of the American Geographical Society, the Special



Mawson's grandson Alun Thomas inspects the medals in the SA Museum's replica of Mawson's hut. Photo: David Ellis.

Antarctic Medal of the Royal Society, London, and the Gold Medal for Oceanography of the Geographical Society of Paris.

Mr Thomas made special mention of the Chancellor of Adelaide University, Mr Bruce Webb, who was the driving force behind the Mawson Collection Appeal which raised money for the

permanent exhibition.

He said the handing over of the medals to the museum marked "the beginning of the final chapter in my family's endeavour to find a suitable home for the Mawson collection, a place to display it and to use it to its full potential".

—David Ellis

Mission to Mars comes a step closer

MARS, the red planet, has long fascinated mankind, from science-fiction novels and films to real-life exploration attempts.

A new public lecture at Adelaide University will breathe life into the quest to put humans on Mars.

It will be delivered by US astronautics expert Dr Robert M. Zubrin, the main architect of a controversial plan to send humans to Mars within 10 years.

The lecture will be held in Bonython Hall at 7.30pm on Wednesday 15 March as part of a contribution to the Adelaide Festival by the Australian Institute of Physics and Adelaide University's Centre for Biomedical Engineering.

Mars is a dry and dusty place without a life-giving oxygen atmosphere, but it has water and icy polar caps, as well as the largest extinct volcano in the solar system, Olympus Mons.

Dr Zubrin was part of a small team which drew up a daring plan known as "Mars Direct", which would sharply cut costs and send American astronauts to Mars within a decade.

"Mars Direct" has attracted international attention and broad controversy, with Dr Zubrin presenting it to the International Astronautical Federation congress, and to US bodies and officials.

Dr Zubrin himself has written more than 100 published technical and non-technical papers in the field, including books *The Case for Mars: the Plan to Settle the Red Planet and Why We Must*, and most recently *Entering Space: Creating a Spacefaring Civilization*.

In August 1998, he founded the Mars Society (of which he is still president), an international organisation dedicated to furthering the exploration and settlement of Mars by both public and

private means.

The society will deploy its first major physical project towards putting people on Mars, the Mars Arctic Research Station (or MARS), which will be the world's first fully-simulated Mars base.

It will enable scientists, engineers and even astronauts to test the equipment and technology (such as habitation, transportation, life support and recycling) which may be deployed during a human mission to Mars.

Dr Zubrin was formerly a staff engineer at Lockheed Martin Astronautics in Denver, and is now president of his own company, Pioneer Astronautics.

He holds Masters degrees in Aeronautics and Astronautics, a doctorate in Nuclear Engineering, and has invented several unique concepts for space propulsion and exploration.

—Ben Osborne



Innovation exhortation

*Two, four, six, eight,
Let's all now innovate.
One, two, three, four,
Let's innovate some more.*

Or should that be "Let's innovate offshore"? The Innovation Summit, held recently in Melbourne, was designed to make Australians focus attention on innovation—producing more new goods, processes and services at home instead of going offshore to commercialise clever ideas.

Australia produces over 2% of the world's new scientific papers each year. This is impressive for a country with only 0.31% of the world population. Although we punch well above our weight in science, we're not nearly so impressive in our production of innovative goods, processes and services. At a time when industry and commerce worldwide is becoming much more knowledge intensive, we need to leverage our scientific performance into innovations that improve our social and economic well-being.

The innovation issue is important for Australian universities. Collectively, universities are the largest part of the Australian public-sector research system, so they have a major role to play in fostering and being part of a national push to increase Australian innovation.

Major world centres of innovation are often found close to great universities. Silicon Valley is near Stanford University, for example, and Route 152 is close to Harvard University and MIT. Universities can provide students with the fundamental knowledge and generic skills that are the prerequisites for building innovative enterprises. Whether we provide this adequately in Australian universities is a moot point.

I am proud that Adelaide University has been addressing this issue in a particularly innovative way. We recently awarded the first Professional Certificates in Science & Technology Commercialisation and have now launched a Masters degree course in this area. The course is a very exciting one delivered in conjunction with the University of Texas, Austin. Students work on real-life commercialisation problems and do their work in global teams using video and internet technologies for communication.

It's an excellent example of what is needed by the lifelong learning market to develop specialist skills in commercialisation of innovative ideas. We need to pay attention, however, to ensuring we impart appropriate generic skills germane to innovation throughout our standard undergraduate curricula.

We also need to be innovative as an organisation. This will provide our students with a practical model of good innovation (one of the biggest problems for developing an innovation culture in Australia is the shortage of home-based models of innovative organisations). It could also help us to generate new funds and cost savings. Clearly, this is important at a time when there is no increase in government funding of universities and all that means for maintaining quality and ensuring staff are paid well.

That said, it is important we realise (and make sure our governments realise) that innovation is unlikely to thrive in Australia unless we are prepared to invest seriously as a nation in higher education. Such investment might mean paying higher taxes, but if it leads to significant improvement in the social and economic benefits that can come from innovation, then we will have a much higher standard of living. Or, in summary:

*Two, four, six, eight,
Let's educate to innovate.
One, two, three, four,
Let's value education more.*

MARY O'KANE

Canadian ensemble a music coup for Adelaide

IN a major coup for Adelaide, an international music event will be staged, in collaboration with the Elder Conservatorium, at Adelaide University as part of the Telstra Festival of Arts in March.

Forum 2000 is a musical event featuring new works from some of the world's most exciting young composers.

At the centre of Forum 2000 is Canada's leading new music group, the 15-piece *Nouvel Ensemble Moderne* (NEM) which is based at Montreal University.

Young composers from around the world are chosen to write original pieces for the NEM. The four finalists' compositions will be performed during the two weeks of the forum (7-18 March), with the forum winner chosen on the final night.

The entire second week of the forum will be held at Adelaide University's Elder Hall. Music students and staff will also feature throughout the week, including a final-night performance by Adelaide's premier new music ensemble, LIGHTS, alongside members of the NEM.

Forum 2000 (otherwise known as the Forum International des Jeunes Compositeurs) represents the culmination of years of work by Adelaide Festival director Robyn Archer, NEM director Lorraine Vaillancourt, and Grahame Dudley, director of LIGHTS and senior lecturer with Adelaide University's Elder Conservatorium.

In 1998 Ms Vaillancourt spent two weeks as an artist-in-residence at Adelaide University working with staff and students of the Conservatorium. Grahame Dudley was invited to participate in Forum 1998 in Montreal, and this year he will be one of three judges at Forum 2000, joining Lorraine Vaillancourt and celebrated Canadian composer John Rea.

"This is a major event for Australia because the biennial forums have never before been held

outside of Canada," Mr Dudley said.

"It's more than just a series of performances; there are public rehearsals, lectures and workshops which are fascinating and educational in their own right.

"The benefits to Adelaide from an event such as this are enormous, because the NEM and the forums are world renowned."

Around 180 young composers submitted works for the Forum 2000. The jury of three in Montreal had the hard task of selecting only four finalists, including works by composers from Australia, Canada, Portugal and the UK.

In addition to these works being performed in Adelaide, the Telstra Adelaide Festival has commissioned Quentin Grant to write a composition for the NEM and the Elder Conservatorium music ensemble.

Famous Canadian composer Denis Gougeon has also been selected by the Canadian Broadcasting Commission (CBC) to compose an original piece for LIGHTS, which will be showcased at Forum 2000.

"This event is truly international in every sense, and the contribution it is making to new music is extraordinary," said Mr Dudley.

"One of the most important aspects of it all is the fact that our music students and staff will have a greatly enriched experience thanks to the presence of the NEM on campus. And, of course, this builds on the international links between our two universities and generates enormous goodwill between staff, students and composers.

"Being able to attract the Forum and the NEM from Canada says a lot about the quality of our new music programs in Adelaide, and we can only gain from associations such as this."

Performances at Forum 2000 will be broadcast by ABC-FM and recorded for broadcast by the CBC. ABC Television is also making a program of the event.



Above: the *Nouvel Ensemble Moderne*, with Lorraine Vaillancourt in the foreground, in Montreal.

Right: Grahame Dudley.

The collaboration between the Elder Conservatorium and NEM has been generously sponsored by a grant from the Division of PALACE (Performing Arts, Law, Architecture, Commerce & Economics).

The final performance is 6pm, Saturday 18 March in Elder Hall. Tickets are \$30/\$26 for friends/\$22 concession. Another performance is being held at the Adelaide Town Hall. Bookings at BASS: 131 246.



Concert celebrates Bach's 250th

ADELAIDE-BORN violinist Jane Peters will play in Adelaide on Monday 28 February as part of a special concert to celebrate the 250th anniversary of the death of JS Bach (1685-1750).

Peters will be joined by two other accomplished Australian soloists, cellist David Pereira and pianist Ian Munro, as well as the Australian Youth Orchestra (AYO) Camerata for the concert titled "The Bach Celebration".

The concert will be held at the Adelaide Town Hall, beginning at 8pm.

The first half of The Bach Celebration will consist of each of the three soloists performing one of Bach's solo pieces, while the second half sees the AYO Camerata join the soloists for two concertos.

Works to be performed at the concert include Brandenburg Concerto no. 3 in G Major, Concerto in D minor for two violins and the haunting Chaconne from Partita in D minor for solo violin.

The Bach Celebration is coming to Adelaide as part of a Musica Viva national tour which also takes it to Melbourne, Canberra, Newcastle and Sydney.

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Music Review: interview

A COMMITTEE appointed by Adelaide University and the Department of Education, Training & Employment undertook a review of Tertiary Music and Education Training in South Australia last year.

It recommended that a merger of the Elder Conservatorium of Music and the Flinders Street School of Music would be in the best interests of music education and training in the State. No decision has yet been made on the review's recommendations.

Professor Richard Johnstone, recently appointed Pro Vice-Chancellor (Education and Quality Enhancement) at the University of Technology, Sydney, was convenor of the review committee. He discussed the Music Review with the *Adelaidean*.

Why was your committee asked to review music education and training in South Australia?

There was a general feeling in South Australia that the time had come to look at ways in which the two institutions could collaborate and cooperate more effectively and position themselves for an increasingly competitive climate in music education.

We were very impressed by the number of people who took a strong interest in these issues. They were very keen to see an effective outcome that would allow the two institutions to work together more productively.

What changes have been taking place in music education generally?

The competition is becoming more global. As this happens, you have to look at whether it's effective to continue competing with an organisation in the same city or state. It becomes increasingly difficult to sustain your own ambitions if you're competing with someone so close to home. If you join forces you can compete more effectively on the

national and international stage.

What are some of the benefits you have identified?

Eliminating areas of duplication would provide flexibility to explore new areas of interest to potential music students. One area is electronic music, for example. The associated costs in terms of equipment are quite high, but if you can get the economies of scale that come with a large institution it increases your ability to expand what you're doing in areas like that.

For students and staff there are immense benefits in having a single institution offering the full range of musical education and training. There are opportunities for cross-fertilisation of ideas and collaborations of all types.

What form of new institution are you recommending?

The review committee is recommending the creation of an institution that would build on the strong traditions and successes of both the Elder Con and the Flinders Street School of Music. This new home would attract a leader of energy and stature who could take tertiary music education in South Australia on to the next stage.

What would this mean for Elder Hall?

The committee has made no recommendations about Elder Hall.

Elder Hall has a long and proud history of association with Adelaide University and is the public face of music in the State. Long may that continue.

But any successful arts institution is much more than its concert hall or its display area: it's all the infrastructure required to ensure that what is performed in the hall is of the highest quality. Our review is about trying to ensure that we have the most appropriate infrastructure for quality music education and training in South Australia.

At the mouth of the Amazon, 7000 km later...

HE'S BEEN shot at by rebels, submerged in whitewater rapids, tossed about in furious storms and almost run down by larger vessels.

And now Adelaide University student Ben Kozel has made history by becoming one of the first in the world to navigate the entire stretch of the Amazon River in an inflatable raft.

Ben, 26, joined with 23-year-old South African Scott Borthwicke and 28-year-old Canadian Colin Angus for an incredible adventure known as *amazon2001*.

Their aim was to cross South America from the west to the east, starting at the source of the Amazon in Peru and rowing all the way to the coast of Brazil, using only a four-metre raft.

They completed their trek on 10 February, five months and almost 7000 km after the journey began.

Ben, who deferred the final semester of his Science degree at Adelaide for the expedition, described some of his experiences:

"The past month was absolutely gruelling as we struggled through the enormous Amazon delta. Near constant headwinds, ocean-style chopiness and powerful tides plagued us as we negotiated the maze of fluvial islands.

"It took five days to cover the final 80 kilometres. The rain barely ceased, and big ocean swells whipped up in the now 25 km wide expanse of river tossed our little red raft about mercilessly. We huddled under plastic sheets when it wasn't our shift at the oars, and thought—as we had on so many other occasions—how wrong it seemed to feel this cold so close to the equator."

When they finally reached their destination, they were "exhausted, sodden wretches, spraying each other with champagne and somehow finding the energy to whoop with joy".



From left: Scott Borthwicke, Ben Kozel and Colin Angus celebrate the end of their Amazon River journey. Photo courtesy of Ben Kozel.

The three international travellers are some of the very few people in the world to completely navigate the mighty Amazon. There have been two previous expeditions, but none in an inflatable raft.

Ben said he had many reasons for accepting the challenge.

"From childhood, I've always associated the word Amazon with a natural world at its most exotic, mysterious and dangerous. As I've pursued a career in conservation with my studies in Botany and Zoology, that awe has mixed with an appreciation of the region's huge ecological significance.

"I wanted to see some of the bizarre creatures and plants living there. Combine that with a

chance to, plain and simple, get the adrenalin pumping, and I just couldn't resist. It wasn't until we'd gotten underway that I became more consumed by the desire to happily put myself through a tonne of hardships in order to conquer the largest river on the planet."

One of Ben's most harrowing experiences involved traversing a whole month through running rapids, in canyons and gorges.

"We danced with disaster on a day-to-day basis, knowing that if something went wrong, medical help was many days away and the only way out was downriver. The raft flipped a total six times but there were many more incidents of being bucked or tossed out the boat. Sometimes this meant swimming the next set

of rapids all the while feeling your mortality. The chance of breaking limbs against submerged rocks was high but luckily I never sported anything more serious than bad bruising," he said.

"When the river bed drops suddenly, water recirculates as it's pushed down vertically, and the water in front of it flows back to fill the gap. 'Holes' are formed here, and drowning in the larger ones was a real risk. I swam through some smaller ones, was held for as long as half a minute—equivalent to half a lifetime—then spat out and dragged back into the raft shaking and drained of colour. I don't think it's possible to feel any more helpless. The sheer power of the whitewater in places made me shudder."

Natural elements weren't the only dangers.

"Despite hearing beforehand that the communist Sendero rebels were no more, the part of Peru known as the Red Zone is in fact a war zone. In three days we were stopped, sometimes searched, sometimes interrogated by both the army and local militias. We were shot at by terrorists and the jittery patrol soldiers, and I started to wonder when, not if, the killer blow would come."

Travelling around the clock and sharing the rowing duties in three-hour shifts, Ben, Scott and Colin battled exhaustion, tropical storms and the constant threat of disease. But there were many positive aspects to the adventure, such as meeting friendly villagers and other locals, and coming face-to-face with an incredible array of wildlife, including pink dolphins in the Amazon's flatwater.

Now that his experience is over, Ben will return to Adelaide and finish his Science degree later this year. He said he now feels a much stronger commitment to Australian plant life, animal life and local conservation concerns.

— David Ellis

Hunt is on for brush-tailed phascogale

A NEWLY-FORMED wildlife group, mainly made up of Adelaide University researchers, wants the South Australian public's help in tracking down a rare marsupial.

The Brush-tailed Phascogale was last officially recorded in the Adelaide Hills in 1910, and could well be extinct in SA - but the Friends of Native Wildlife group isn't so sure.

"The tree-dwelling species used to be common in the Mount Lofty Ranges and there have been recent sightings which, although unconfirmed, suggest they may still be around," said group leader Chris Leigh, from Adelaide's Anatomical Sciences Department.

"That is why a concerted effort is being made to find them."

Professor Wood-Jones, in his 1923 book *The Mammals of South Australia*, described the Brush-tailed Phascogale as one of the most beautiful of the little carnivorous marsupials, and having the appearance of a "small, lightly-built grey rat, with a long tail terminating in a full silky black brush."

They have an overall length of 410mm (16 inches), just less than half of which is the tail.

Mr Leigh said the Brush-tailed Phascogale had a bad reputation for raiding fowl houses, despite being attractive to look at.

"The name phascogale literally means 'pouched weasel'; a good indication of what their predatory behavior was like," he said.

"The Adelaide Zoo has a colony in the Nocturnal House that was imported from Queensland, but you have to be very quiet and patient, and have a good eye, to see them.

"Unlike other tree-dwelling native species such as possums, phascogales are alert, agile, fast-moving mammals, so seeing them in the wild may not be much more than a glimpse as they flash through the trees."

Another group leader, Dr Peter Hornsby from Adelaide's Psychology Department, said the destruction of stringybark forests, the phascogales' main habitat, was one of the key reasons for their disappearance.

"Our stringybark forests were their stronghold, but since European settlement, these open forests of great trees have almost totally disappeared," Dr Hornsby said.



"Today they have been replaced with dense stringybark woodlands, much of which have developed from the coppice regrowth of the old trees.

The Friends of Native Wildlife group, which also includes Mr Jamie Chapmand from Anatomical Sciences, has received four small grants to survey likely areas in the Adelaide Hills using techniques which are not stressful to animals.

They have also been supported by the group known as ROBIN (Rotary's Native Bird Nestbox project) which has generously supported research efforts with the donation of 100 nestboxes.

The Friends of Native Wildlife is keen to hear from anyone who thinks they have seen the elusive Brush-tailed Phascogale—phone Chris Leigh on 8303 3126 or Peter Hornsby on 8303 6674 if you can help.

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Robot mouse no trap for students

TWO Adelaide University students have performed well in an international robotics competition known as the "Micromouse" competition, held in Singapore late last year.

Mechatronic Engineering students Daniel Stanef and John Kaesler comprised the first Australian team to take part in the competition, finishing a respectable fourth out of 10 teams.

The competition sees students developing and programming a small autonomous robot 'mouse' capable of traversing an unknown maze in the shortest time possible.

Team member Mr Stanef described the competition as a "great eye-opener", particularly since other teams had much more time to prepare their entries.

"Being the inaugural Australian team at the competition, and having no prior experience with the 'mouse', John Kaesler and I were destined to be up against it," he said.

"However, after a four-day crash course on the mouse, we became competitive and finished a creditable fourth, with Thailand taking out first place honours.

"The members of the other teams had been preparing for this competition for a lot longer than John and I—all had had at least one month, and some up to a whole year.

"Consequently, their 'mice' were a lot better 'trained'—capable of accelerating faster, braking later, turning sharper, turning in arcs and even doing 'diagonal' turns.

"All in all, the Micromouse competition was a great experience, and John and I look forward to working on the mouse that we brought back with us, to train it well and take it to the 2000 Micromouse Competition in Manila, Philippines later this year."

The Micromouse Competition has been running for more than 10 years, and recently has been held in conjunction with the annual South East Asian Regional Computer Confederation (SEARCC) Conference.

Teams to compete in last year's event against Australia were two each from host nation Singapore, Thailand and Hong Kong, and three from the Philippines.

—Ben Osborne

Anti-violence project wins award

VIOLENCE in the home, bullying in the school yard, torture in the prison cell.

All are issues that ought to engage doctors at every level of the profession, according to Jennifer Schaffer, affiliate lecturer in Adelaide University's Department of Public Health.

Ms Schaffer, a social worker, is the developer of an innovative curriculum project, Violence as a Public Health Issue, which has won an Australian Violence Prevention Award.

The program taught third-year medical students about the effects of different types of violence on the health and welfare of groups in society.

It covered various types of violent behaviour, including global conflict, use of land mines, school and workplace violence, homophobia, racism and domestic violence.

Students were taught how to detect signs, and intervene effectively, in situations where patients may be experiencing violence or abuse.

They were also encouraged to take a more public role in campaigning against violence of all kinds.

"The response to the course was

very positive," Ms Schaffer said.

"Because of their backgrounds, many students were unaware of the oppression and disadvantage experienced by various groups in the population—refugees who have suffered torture, or children abused by their fathers, for example.

"The project has enabled them to become more aware and sensitive to the disadvantages with which others may live."

Ms Schaffer said the program had underlined the social responsibilities of doctors, both locally and internationally.

"Doctors have a duty to speak out about human rights abuses.

"They can do it at a local level by going to their local school and talking about preventing bullying or they can join international organisations campaigning against torture."

The idea for the elective course developed from a series of domestic violence workshops run for final-year medical students. Until 12 months ago, all six year medical students attended a day-long workshop on how to identify domestic violence and provide appropriate and effective help for the women, children and men living



State Attorney-General Trevor Griffin with Jennifer Schaffer. Photo courtesy of Sascha Brooker.

with, or escaping from, violent homes.

South Australian Attorney-General Trevor Griffin said the Australian Violence Prevention Award recognised projects which aimed to correct misconceptions about violence and encouraged people to

challenge existing thinking on domestic violence reduction.

Although the courses are no longer running Ms Schaffer hoped the crucial issue of violence and abuse would be covered in the curriculum for medical students.

—John Drislane

Industry award goes to pig researcher

For the past two years, the organisers of the SA Pig & Poultry Fair have awarded a prize in the form of financial support to people in South Australia, who are keen to investigate areas that may practically benefit pig and poultry producers.

This year, the \$2500 award was presented to Thomas Banhazi, a researcher with the SARDI - Pig and Poultry Production Institute (PPPI) and a postgraduate student with Adelaide University's Animal Science Department.

Thomas has a special interest in air and environmental quality within intensive livestock buildings.

Previous research work demonstrated that the

health, feed conversion and growth rate of pigs are affected by environmental influences, such as high concentration of ammonia, airborne dust and bacteria.

The effects of air quality on the respiratory health of humans are also very well documented in the international scientific literature and Thomas now spends much of his time examining methods which can improve environmental quality within intensive animal buildings.

Thomas' previous work demonstrated that poor dunging patterns within pig pens can result in excessive airborne gas, dust and bacteria levels, but the addition of limited amount of bedding material can improve dunging patterns.

However, the bedding itself is a source of airborne dust, which can carry harmful gases

and bacteria.

Thomas feels that by applying vegetable oil to the bedding material (based on previous Danish research), dust levels may be reduced to acceptable levels, while the benefits of improved dunging patterns are still evident.

The SA Pig and Poultry Industry Award will be used to assess the environmental and production benefits of using oil impregnated bedding material in pig and poultry sheds, for the benefits of both livestock and staff.

The results of Thomas' investigation will be communicated to the South Australian intensive livestock industries through publications including the Pig Industry News and through producer meetings and industry events, such as the next SA Pig and Poultry Fair.

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Lifelong Learning conference

THE Australian Federation of University Women (AFUW) is holding its 31st Triennial Conference at Adelaide University from 17-20 April.

"Lifelong Learning—Effecting Change in the Global Society" is a two-day conference open to both members and non-members of the AFUW.

Keynote speakers include Professor Denise Bradley, Vice-Chancellor of the University of South Australia and Dr Ngaire Brown, AMA Adviser on Aboriginal Health.

Early registration should be made prior to 17 March. Call the AFUW office on (08) 8303 4945 for more information.

Want a piece of history?

We have 15 copies of *The Advertiser* newspaper's final edition for 1999 and its first edition for 2000 to give away.

To get your free copy, simply drop in to the Media, Marketing & Publications Unit, Room G07, Mitchell Building, North Terrace Campus during business hours.

COMMENTARY

UPSIDE DOWN EDUCATION

From Page 2

The recent white paper policy on research and research training gives universities a financial incentive to produce more private-goods research. This may be defensible if public-goods research was being sustained. However, the real value of public funding for university research has fallen, outside of medical research; independent consultants have verified that there has been a serious deterioration in university research infrastructure.

The Chief Scientist, Dr Robin Batterham, in his recent paper "Investing in Knowledge Generation for the Twenty First Century", stated that governments "...will ensure that public goods research continues to be performed"; but he also quoted Gus Nossal that "Australia, by cutting support and funding, is drastically shooting itself in the foot" (pp. 5, 13).

In these circumstances, public universities will divert resources from the production of public-goods research to the production of private-goods research for profit; and, like private firms, they will increasingly restrict the publication of public-goods research.

The correct combination, reversing both errors, is more public funding for public-goods research, and superHECS for university fees.

Searching for 1950 Alumni

THE ALUMNI ASSOCIATION is looking for the addresses of its missing 1950 Golden Jubilee Graduates.

If you know the whereabouts of any of the following, could you please contact Kathy Butler on (08) 8303 3196 or email: kathy.butler@adelaide.edu.au

Degree of Bachelor of Laws:
Bennett, Henry Trevor
Woodhouse, Roy

Degree of Doctor of Medicine:
Flore, Mary Ethel Hayter

Degree of Master of Arts:
Rosenhain, Geoffrey
In Political Science and History:
Haynes, James Dalrymple

Degree of Bachelor of Arts:
Allert, Margaret Elizabeth
Farr, Alan Pembroke
Gann, Eric Crump
Gillham, Doreen
Gubbins, Heather Welch
Hansen, Ian Victor
Harrington, Enid Gretta
Hogan, Margaret Mary
Irving, Iris Mary
Lamshed, Albert Saville
Liston, Mary Howard
McGregor, Gordon Thompson
McLeay, Helen Mary
MacSkimming, Walt Ronald Auscot
Murdoch, Bronwen
Ockenden, Garth Palmer
Parham, Elizabeth Ann
Scragg, Walter Robert Lambert
Sigmont, Victor Charles
Usher, Emilie Pauline
Whittle, Edith Julia
Wood, Collin James

Ad eundem gradum:
Benson, Maurice Bernard

Honours Degree of Bachelor Of Economics:
Raftery, George Aldborough

Degree of Bachelor of Economics:
Higginbottom, Edwin John
Sturme, Stanley George

Honours Degree of Bachelor of Science:

In Physics
Colville, John Stuart

In Chemistry
Nicholls, Colin Herbert

In Geology
Darragh, Peter John
Dolling, Eleanor Ngaire
Wilson, Robert Bruce
Wymond, Alonzo Pearse

In Biochemistry
Hine, Denise Charlotte

Degree of Bachelor of Science:

Aldersey, Algernon Lumley Haydon
Bonner, Brian Christopher
Buckley, Joseph Edward
Chartres, Bruce Aylwin
Cole, Rueben Herbert George
Collins, Frank Miles
Cooke, Frank Edward
Coulls, Brian Helston
Dorman, David Charles
Ellis, Brian David
Hall, William Oswald James

Hogben, Roy
Hopkins, Brian McDonald
Jeffery, Margaret Wyn
Jenkins, Heather Gordon
Jephcott, Bruce Reginald
Johnson, Keith Douglas
Lewis, Graham Ethelbert
McGrath, Kelvin Paul
Morey, Burnard Spindley
Morris, Lenore
Moyle, Francis James
Rayson, Patricia
Reynolds, Howard
Rowe, Stanley Edgar
Sanderson, John Gavin
Seidler, Jan Hynek
Taylor, Kevin Lyle
Thompson, Aileen Joyce
Thomson, Bruce James
Wollaston, Jocelyn Mary
Wright, Robert Errol

Welcome to international students

AROUND 600 new international students from 50 countries around the world were welcomed to Adelaide University this month.

At a reception in Bonython Hall, the Pro Vice-Chancellor (Internationalisation & Development) Dr Norman Ashton greeted the students and spoke about the important contributions they would make to the University.

Among the 600 students are many who have received scholarships from Adelaide University, other Australian organisations and their home countries.

While many of these will be studying engineering, international students have shown a wide range of interest in courses at Adelaide University, including commerce, science, music, arts, medicine, dentistry and law.

Elijah Sithole is a student from Zimbabwe who will be studying for his PhD in Arts.

He said he chose Adelaide University over other universities throughout the world because of its excellence in teaching and research.

"Adelaide University has a high profile and a strong international reputation," he said.

"I wanted to gain some academic exposure overseas but I didn't want to go to Europe, so I chose Adelaide instead."

Elijah said he had already found Adelaide to be a "perfect learning environment" with excellent facilities.

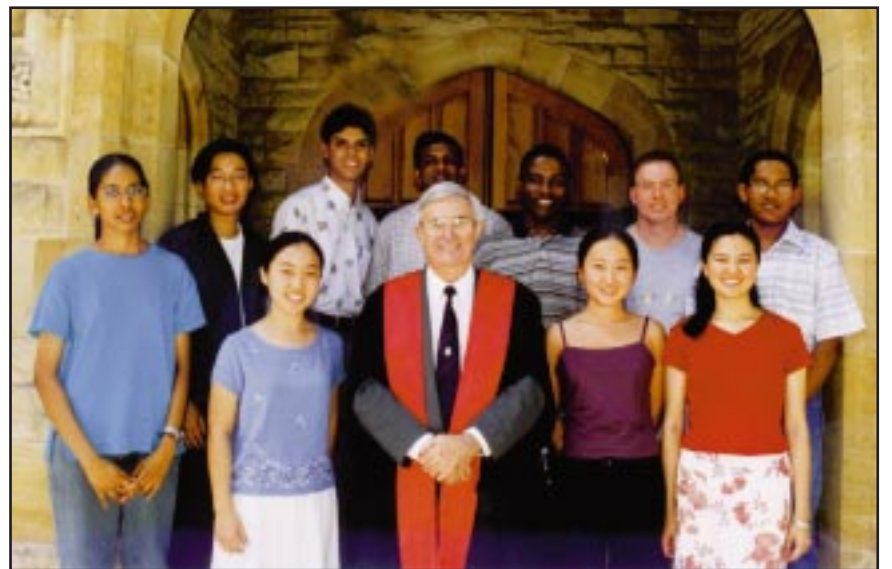
Another new student is Chen-Yee Cobden Lee from Taiwan. Chen-Yee will be studying for a degree in Medicine at Adelaide.

"The low cost of living in Adelaide and the long history of the medical courses here are two reasons why I chose Adelaide University," he said.

"I'm also interested in the interactive style of teaching offered by the University."

"There is some very good international student service available on campus, and various modern technologies are applied here. Importantly, the staff seem very friendly."

—David Ellis



Dr Norman Ashton (centre) with several of the international scholarship winners. Front (from left): Gayathri Sivaramakrishnan (Singapore), Elizabeth Li-Ying Cheng (Malaysia), Young Seung Kristin Han (Korea), Siew Seen Lim (Malaysia). Back (from left): Gene Shane Liew (Malaysia), Asad Mohammad Nasir (India), Dinesha Ranathunga (Sri Lanka), Elijah Sithole (Zimbabwe), Casper Groth (Denmark), Chathura Gunathilake (Sri Lanka). Photo: David Ellis.



Chen-Yee Lee.



Elijah Sithole.

CAREER PATHS

KEEPING YOUR OPTIONS OPEN

GRADUATES from Adelaide University can find a career anywhere.

With that in mind, the Adelaidean is this year running a new series called "Career Paths", looking at the career choices made by recent graduates.

Stephen Schoemaker graduated with a degree in Civil Engineering (First Class Honours) in 1993. He was recruited by Esso Australia Ltd (Melbourne) where he began work as a construction engineer. Still with the firm today, Stephen has found that it helps to keep your career options open.

In retrospect, it was very shortsighted to tell the Esso graduate recruitment representative that I was not interested in a job with his company. That bold statement, made at Esso's campus presentation early in the final year of my Civil Engineering degree, was based on my aspiration to obtain work as a consultant design engineer rather than the petroleum engineering and project management roles that Esso was offering.

The smarter choice was deciding that, at the very least, I would accept the first and second round interviews that were offered in order to find out more about what experiences Esso might offer me.

During the interview process Esso made it clear that I would have the opportunity to perform several different jobs in the first six years or so of my career, with ample training and support in the technically challenging roles I would be given. The opportunity for broad professional development and the potential size of the projects in the offshore oil and gas environment are what swayed me, and with all this in mind I made the decision to move to Melbourne with Esso. The result has been a career which to date has been one of broad experience, immense variety and endless technical and project management challenges.

My first role was as a Project Engineer in what



Stephen Schoemaker at Esso in Melbourne

was then the Construction Operations Group. This role gave me experience in the areas of project planning, scheduling, contracting, fabrication and installation for new and retrofit offshore plant and equipment projects that ranged in value from \$150,000 to \$5,000,000. A highlight of these first two years was the chance to learn from 20-30-year-experienced field personnel who taught me that flexibility and innovation are key skills to successfully manage projects in the offshore environment.

After two years I moved groups while retaining my role as a Project Engineer. My responsibilities expanded to include design, commissioning, and overall project

management responsibility for larger and more complex projects.

A good example was the Flounder Platform Additional Compression Project, a \$30,000,000 upgrade to the gas compression capacity of one of Esso's 20 production facilities in Bass Strait. Designed to significantly boost daily production volumes, the objective was to complete the detailed design, fabrication, installation and commissioning safely and promptly to reap the benefits as early as possible. I was faced with the challenge of effectively coordinating a multi-discipline team of engineers with activities over many different sites to bring the project together on time.

My third role in my seven-year career was another about-face from what I expected to be doing as a civil engineer, with the last three years spent in a drilling engineering role. As one of Esso's core petroleum engineering disciplines, drilling engineers have a more hands-on role and receive excellent technical training both locally and overseas. The role included day-to-day engineering support for operational drilling rigs, combined with well planning and design. My most recent role has placed me in a sub-surface engineering group, responsible for well repairs and maintenance.

In addition, assignment to Esso's graduate recruiting team means that I am now the one at the front of the lecture theatre, facing questions from final-year engineering students at Adelaide Uni. When someone raises their hand to ask if Esso offers careers for people looking for design experience, I'll need to be as blunt as I was that day early in 1992.

"No. But let me tell you about some exciting things you will be doing..."

—Stephen Schoemaker
Sub-surface Engineer
Esso Australia Ltd (Melbourne)

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Fringe another string in percussionist's bow

MUSIC graduate Nick Parnell will thrill audiences with a world music "Percussion Spectacular" as part of the Adelaide Fringe 2000 in March.

At just 22 years of age, Nick is already one of Australia's most exciting percussionists.

Last year he completed his Music degree at Adelaide University with First Class Honours, receiving the highest mark of any percussionist in the 100-year history of the Conservatorium.

Nick also won the Elder Conservatorium Concerto Competition, received first prize in the concerto section at the Adelaide Eisteddfod, and was one of only two South Australian finalists in last year's Australian Young Performers Award in Perth.

His sheer energy and precision on relatively new and unknown instruments, such as the marimba and vibraphone, has fascinated and enchanted audiences in Australia, the US, Europe and Asia.

"Percussion Spectacular" will be a musical journey around the world, from pulsating African rhythms to the magical sounds of the Brazilian rainforest. The performance features a range of percussion instruments, including the repineque (a small Brazilian drum), the berimbau (a stringed instrument with a gourd which looks like a bow and arrow) and the xylophone.

Nick will be joined for the one-hour concert by pianist Leigh Harrold and percussionist Tim Irgang.



Venue: Holy Trinity Church, 87 North Terrace, Adelaide.
Date & Time: 8pm, Thursday 2 March. **Tickets:** \$6, available through Fringetix on 8201 4567 and from 7.30pm at the door.

Two new books

PAINTINGS by South Australian artist Dorrit Black have provided the basis for a new book of stories and poetry by former students of Adelaide University's Postgraduate Diploma in Creative Writing.

Painted Words is co-edited by students Brenda Glover, Kim Mann and Scott Hopkins, and English lecturer and author Dr Eva Sallis.

The book features 23 contributions from the second intake of students into the creative writing course.

Adelaide University's Professor of Creative Writing, Tom Shapcott, describes *Painted Words* as a "celebration".

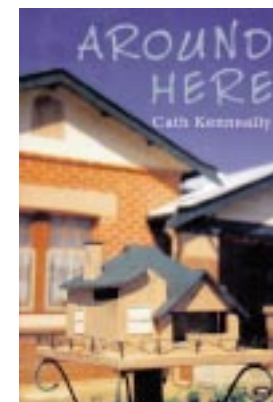
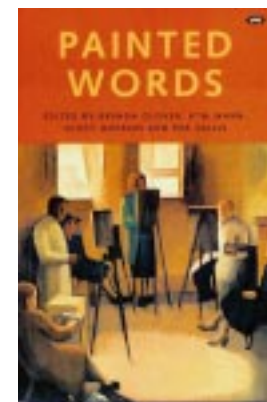
"This is a book, though, not about techniques and crafting, but about human response and the excitement of discovery.

"What I hope the reader will come away with is a sense of the energy and liveliness in a group of writers in the process of flexing their creative muscles, and having fun in doing so."

Painted Words is published by Wakefield Press, and has a recommended retail price of \$16.95.

UNIVERSITY Radio 5UV arts producer Cath Kenneally's latest poetry offering, *Around Here*, has been published by Wakefield Press.

A widely-published poet, her work is described as "unique: confident, discursive writing driven by intuition and



association and a doubting, quick intelligence".

With a focus always changing between local and global, present and past, familial and political, Kenneally wants to draw you into her world with a compelling combination of emotional intensity and clear-sightedness.

Ken Bolton said of *Around Here*: "What is most valuable in these poems, and what is rare, is Kenneally's avoidance of metaphor and of the conventionally poetic in favor of intelligence and education plain-speak—a plain-speak that, of course, isn't so plain, so unitary."

Kenneally produces and hosts the Saturday morning arts breakfast program at 5UV and also produces "Writer's Radio", a nationally distributed writers' program.

Around Here is published by Wakefield Press, and has a recommended retail price of \$16.95.

—Ben Osborne

Memorial Service

The Department of Anatomical Sciences' Annual Memorial and Dedication Service will be held at 5.30pm on Wednesday, March 3 at Bonython Hall.

The service pays tribute to those who bequeath their bodies to medical science, which provides for life-saving research and training for the community's health workers.

New students to the serious and respectful study of anatomy are also dedicated at the service.

Families of all past donors, university staff, students, community representatives and members of the public are invited to attend.

For more information or to RSVP, phone the enquiries office on 8303 5998.

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ATHELSTONE: Large furn. family house, suit visiting academic. Avail. mid-April to end Sept. 2000. Easy access to public transport, O-Bahn, schools. \$250/week. Ph 8336 6980 or email <dlw@physics.adelaide.edu.au>.

GLEN OSMOND: 3 br, fully furn house, close to transport and schools, walking distance to Waite Campus. No pets; lawns mown. \$220 pw + bond. Ph 8379 4869.

HENLEY BEACH: Lge family home on foreshore, 5 br, study, modern kitchen, 3 car garage. Close to schools, transport, shops, hospitals. Suit prof family 1-2 yr lease, avail mid April. \$500+ pw. Ph Anne 8275 1025.

HOUSE-SITTER WANTED:

Mid March - end April. Mature non-smoker, no pet-care involved. Ph Henk 8431 5202 or Mary 8222 5443 or email <peterson@camtech.net.au>.

NEW ZEALAND: Home (3br, furn, mins to beach) & car to swap in Nelson, NZ with same in Adelaide or nearby beach suburbs. Min. 3 weeks at mutual convenience. Email: <robin.stuart@ts.co.nz>.

NORTH ADELAIDE: Spac house, 4 brs., open plan, furn, avail April to suit non smokers. Ph 07 3901 4664 or <os-milner@yahoo.com>.

NORTH ADELAIDE: Spacious townhouse, 2 brs, with beautiful, low maintenance garden. 10-15 mins walk to Uni. Avail. 7 March. \$220 pw. Ph Shoko 8303 5187.

Adelaidean CLASSIFIEDS

NORTH ADELAIDE: Garden apartment, fully furn, 4 lge rooms plus kitchen & bathroom, swimming pool. Ph 8267 1081.

PROSPECT: (City end) Modern 2 storey townhouse, 3 bedrooms (b-ins), ducted air/cond., lock-up garage with internal access, fully furn (would consider semi-furn). Avail 23 March, length/rent neg. Ph./Fax 8265 3485.

WANTED: Visiting academic and family require accomm in North Adelaide, minimum 3 br from Aug/Sept for 9-12 months. Ph 8204 5129 or email <david.turner@flinders.edu.au> or <petter.stromme@klinmed.uio.no>.

FOR SALE

BMW 320i: 1977, manual, motor & gearbox replaced 45,000 kms, Alpine stereo system. VKZ 420. \$3000. Ph Susie 8337 9912 or 0413 736 901.

COMMODORE: 1999 VT, V6, air con, p/steering, 2 airbags, 49,000 km, WIA 266. \$20,900. Ph 8303 3285 or 8132 0256 (ah).

DRAFTING DESK: Architecture student's desk. Medium to good condition. \$175. Ph 8332 3542 or email <cdbaker@senet.com.au>.

FORD FESTIVA TRIO: 1995 2 door hatch back, 1.3 litre, 5

speed manual, teal green with Armorglaze, one owner, security immobiliser, as new, only 13,500 km. VSZ 732. Best offer to RAA valuation of \$10,900. Ph Pat on 8267 7602 or 0419 846 776.

HOLDEN COMMODORE: 1985 VK, manual s/wagon with tow bar, good cond. UKX 310, \$2,900 ono. Ph Stella 8303 5274.

MISC: Bow front Crystal Cabinet \$850, Traymobile \$350, Hall Table \$250, Mahogany-cased cutlery set \$150, Royal Doulton Dinner Set (60 pieces) \$500, Timber Bookshelves, Water Bed (Prince) \$150, Zig Zag Electric Sewing Machine \$30, Bedroom Furniture, Mink Cape. Ph Diana Coffey 8303 5204 or email <diana.coffey@adelaide.edu.au>.

MISC: Old Piano \$450. Deluxe Rat/Mouse cage \$40. Ph 8326 2026 or 0417 840134 or email <driordan@physics.adelaide.edu.au>.

SCANNER: Hewlett Packard Scanner with Scanjet Document Feeder, scuzzi port, suit Windows 95 - not suitable Windows NT. All offers considered. Ph June 8303 5747.

MISCELLANEOUS

SCUBA DIVING ADVENTURE: Alor, Indonesia, 16 June - 2 July or 1 July - 16 July. Website: <www.jabu.com.au/>.

WORD PROCESSING: Formatting of WP on disk including IBM/PC and Mac. Ph Anne Every 8212 6869 or 8415 7866.

LINCOLN COLLEGE**Administrative Assistant**

Lincoln College is seeking an enthusiastic and well organised person for a full time position in a small but busy office. The College accommodates 240 university students from rural areas, interstate and overseas. The work is interesting and varied. Some training will be provided.

You will assist the Administrator and perform a wide range of duties including: general reception duties, answering student queries, conference bookings and room reservations; administration of the telephone system; maintain databases; payment of salaries via direct crediting of accounts, superannuation, payment of union and other fees, maintain leave records, handle petty cash; management of the College's email account; receiving money.

You should possess the motivation to work well in a team environment; have well developed interpersonal skills and be able to relate easily to tertiary students and staff; excellent word processing and secretarial skills; organisational skills with attention to detail.

Full time salary: HEO3 \$27,174 - \$30,979.

This continuing position is available immediately. Further information, including the duty statement and selection criteria from Mr GA Vincent, Lincoln College, tel 8290 6000 or email: <admin@lincoln.college.adelaide.edu.au>.

Applications in duplicate, addressing the selection criteria, should include the names and addresses of two referees and should reach the College by 3 March 2000.

Women's Professional Development Network

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

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

COMING EVENTS**Breakfast**

- 8.00am on Wednesday 15 March and
- 8.00am on Friday 14 April, see web site for venue

Lunchtime Workshop

- Wednesday 1 March - "A funny thing happened on my way to the office: how to put some fun back into your workplace"
- Wednesday 5 April

Free event of 1hr duration, bring your lunch. Further details on time, venue and topics will be available on the web site.

Association for Tertiary Education Management (SA Branch)**Professional Enhancement****Start of Year Breakfast Function**

Date: Wednesday 22 March 2000, 8.00am - 8.30am (7.45am for 8.00am start)

Venue: Botanic Garden Restaurant, North Terrace, Adelaide

Cost: \$17 members/\$20 non members

RSVP: 15 March 2000

Lee Jones, Adelaide University, 8303 4643, email: <lee.jones@adelaide.edu.au> or Louise Renfrey, Flinders University, 8201 3137, email: <louise.renfrey@flinders.edu.au>

Speaker: Professor Fay Gale (ATEM Patron)

Professor Gale is the President of the Academy of Social Sciences in Australia. She was Vice-Chancellor of the University of Western Australia and during that time she was also President of the Australian Vice-Chancellors' Committee. Previously she held the positions of Pro Vice-Chancellor and Professor of Geography at Adelaide University.

Cheques made out to the Association for Tertiary Education Management (SA Branch) can be sent to either Lee Jones or Louise Renfrey or payment can be made on 22 March at Registration.

ANTI-CANCER FOUNDATION OF SOUTH AUSTRALIA**Cancer Research Fellowship**

Applications are invited for a three-year Cancer Research Fellowship which will assist the Anti-Cancer Foundation of South Australia in meeting its objectives and advance the career of a postdoctoral research scientist.

The successful applicant will have post-doctoral experience in a relevant field of cancer research and will be expected to work, for the term of the Fellowship, in an appropriate South Australian institution.

APPLICATIONS:

Should be submitted in duplicate to the Executive Director, Anti-Cancer Foundation giving details of the proposed project, the applicant's CV addressing research experience, previous research grants and listing recent publications and presentations. The names and contact details of three referees should be supplied.

Evidence should be provided that the applicant's Head of Department is prepared to support the proposed project, and to state that it is compatible with the applicant's interests, capabilities and career development needs.

SELECTION:

Selection will be based on the applicant's track record, the scientific merit of the research project and its relevance to cancer. An interview will be conducted with short listed applicants. The Anti-Cancer Foundation reserves the right not to make an appointment.

SALARY AND CONDITIONS:

The salary will range from AU\$45,070 to AU\$58,484 depending on institutional practice, qualifications and post-graduate experience. The appointment is a for a 3 year period and is NOT renewable. Commencement date is negotiable.

A maintenance grant of up to AU\$5,000 per year may be available under certain circumstances. Other conditions of employment will be met by the supporting Institution.

Further information may be obtained from the Executive Director, tel (08) 8291 4131. Applications should be addressed to: Dr Kerry Kirke, Executive Director, Anti-Cancer Foundation of SA, PO Box 929, Unley, SA 5061, fax (08) 8291 4122. **Applications close 31 March 2000.**

FRIENDS OF THE WAITE ARBORETUM**All in a Day's Work**

Exhibition of artworks by Gilbert Dashorst, 4-19 March, 11.00am - 4.00pm daily. Artworks include botanical and zoological illustration, portraits, landscapes and wine labels. Works for sale.

Admission free. Urrbrae House, Adelaide University Waite Campus (enter Fullarton Rd) Urrbrae. Enquiries: 8303 7497.

MONDAY 28 FEBRUARY

1.10pm Student Workshop: Learn deep relaxation with Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building (every Monday for Semester 1).

TUESDAY 29 FEBRUARY

12noon Child Health Research Institute Seminar: Postnatal Development of the SI by Dr Adrian Cummins (Gastro, QEH). Seminar Room, 7th Floor, Rieger Building, WCH.

WEDNESDAY 1 MARCH

10.10am Electrical & Electronic Engineering Seminar: Signal Processing Techniques for Calibrating Sonar, Radar and Radio Astronomical Arrays by Professor Doug A Gray (Deputy Director, CSSIP). Room S112, Engineering South Building.

1.10pm Invitation for New Students: Coffee, Cake and Conversation with Susan Howard. Counselling Centre,

COMING EVENTS

Monday 28th — March 10th

Ground Floor, Horace Lamb Building (every Wednesday for Semester 1).

THURSDAY 2 MARCH

12noon IMVS/HCCR Seminar: Regulation of bHLH/PAS transcription factors by hypoxia and environmental pollutants by Dr Murray Whitelaw (Biochemistry). Robson Theatre, Ground Floor, Eleanor Harrald Building, RAH, Frome Rd.

FRIDAY 3 MARCH

1.00pm Centre for Asian Studies Seminar: Japanese Security Policy and the United States, 1945-1968 by Dr Eiichi Katahara (Kobe Gakuin University, Japan). Room 518, Level 5, Ligertwood Building.

4.00pm Obstetrics & Gynaecology Seminar: Is respiration in the early embryo important for development?

by Dr Jeremy Thompson (Obstetrics & Gynaecology, QEH). Seminar Room, 6th Floor, Medical School, North Wing.

MONDAY 6 MARCH

3.30pm ACUE Seminar: Rich reflections: Developing effective qualitative interviewing skills by Dr Debbi Long and Megan Warin (Anthropology). Seminar Room 2, Level 2, Schulz Building.

WEDNESDAY 8 MARCH

10.10am Electrical & Electronic Engineering Seminar: The Impact of the Internet on Convergence towards the Info-communications Industry by Prof Reg Coutts (Director, CTIN & IITT). Room S112, Engineering South Building.

12.30pm Clinical Nursing Seminar: Advanced Practice and the Orthopaedic Nurse: an Interpretive Study

by Anita Taylor (Registered Nurse, RAH). Rm 36, Lev 3, Eleanor Harrald Bldg, RAH.

1.10pm Horticulture, Viticulture & Oenology Seminar: The Maintenance of Redox balance during Industrial ethanol production: A comparison between *Pichia stipitis* and a recombinant *Saccharomyces cerevisiae* by Dr Scott Pedler (HVO). Plant Research Centre Auditorium, Waite Campus.

THURSDAY 9 MARCH

12noon IMVS/HCCR Seminar: Regulation of TRAIL-induced apoptosis of melanoma by Prof Peter Hersey (Hunter Melanoma Research Group, Newcastle, NSW). Robson Theatre, Ground Floor, Eleanor Harrald Building, RAH.

7.45pm Field Geology Club of SA Lecture: Coorong Geology by Prof Bob Bourman (UniSA). Mawson Lecture Theatre, Mawson Laboratories.

THURSDAY 9 MARCH

9.10am Animal Ethics Training Day: The Use of animals in science: ethical and practical considerations. See boxed notice on page 3 of BB for details.

SITUATIONS VACANT

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

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

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

LABORATORY MANAGER (Ref: 2504)

Department of Animal Science, Roseworthy Campus
Salary: HEO7 \$43,478 - \$48,779

This continuing position is available from March 2000. Further information, including duty statement and selection criteria, may be obtained from Michelle Coe, telephone (08) 8303 7823, facsimile (08) 8303 7972. Applications close 6 March 2000.

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

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

POSTDOCTORAL FELLOW (Ref: 3655) (Fixed-term)

Department of Plant Science, Waite Campus
Salary: \$38,414 - \$46,786

This fixed-term position is available from April 2000 for a period of one year, subject to satisfactory performance. Further information, including selection criteria, can be obtained from Dr Andrew Barr, telephone (08) 8303 6553, facsimile (08) 8303 7109 or email <andrew.barr@adelaide.edu.au>. Applications close 10 March 2000.

COORDINATOR, ALUMNI AND COMMUNITY RELATIONS ACTIVITIES (Ref: 10143)

Alumni and Community Relations Office
Salary: HEO6 \$39,402 - \$42,664

This continuing position is available from immediately. Further information, including the duty statement and selection criteria, may be obtained from Julie Vozzo, telephone (08) 8303 5800 or email: <julie.vozzo@adelaide.edu.au>. Applications close 10 March 2000.

DATABASE COORDINATOR (Ref: 10144)

Alumni and Community Relations Office
Salary: HEO6 \$39,402 - \$42,664

This continuing position is available from immediately. Further information, including the duty statement and selection criteria, may be obtained from Julie Vozzo, telephone (08) 8303 5800 or email: <julie.vozzo@adelaide.edu.au>. Applications close 10 March 2000.

SENIOR LIBRARY ASSISTANT (BOOKS) (Ref: 2083)

Barr Smith Library
Salary HEO5: \$35,191 - \$39,268

This continuing position is available immediately. For further information contact Ruth Slater, telephone (08) 8303 4258. The duty statement and selection criteria may be obtained from Tina Hardin,

telephone (08) 8303 5370 or email: <tina.hardin@adelaide.edu.au>. Applications close 6 March 2000.

THEATRE ADMINISTRATOR (Ref: 10128)

Theatre Guild
Salary: HEO4 \$31,252 - \$34,376

This continuing position is available immediately. Further information, including the duty statement and selection criteria, may be obtained from John Edge, telephone (08) 8303 4030, facsimile (08) 8303 4838 or email: <john.edge@adelaide.edu.au>. Applications close 3 March 2000.

ADMINISTRATIVE OFFICER (Ref: 2953)

Wilto Yerlo
Salary: HEO4 \$31,252 - \$34,376

This continuing position is available immediately. Further information including, the duty statement and selection criteria, may be obtained from Nahtanha Davey, telephone (08) 8303 3140 or email: <nahtanha.davey@adelaide.edu.au>.

Aboriginal and Torres Strait Islander people are particularly encouraged to apply. Applications close 13 March 2000.

LIBRARY ASSISTANT (Ref: 10141)

Document Delivery Department, The Barr Smith Library
(North Terrace)
Salary: HEO3 \$27,174 - \$30,979

This continuing position is available immediately. For further details contact Bernadine Hardin, telephone (08) 8303 3863. The duty statement and selection criteria may be obtained from Tina Hardin, telephone (08) 8303 5370 or email: <tina.hardin@adelaide.edu.au>. Applications close 6 March 2000.

LIBRARY ASSISTANT (Ref: 10142)

Roseworthy Campus Library
Salary: HEO3 \$27,174 - \$30,979

This continuing position is available immediately. Further information concerning the duties of this position may be obtained from Marie Kozulic, telephone (08) 8303 7941. The selection criteria and duty statement may be obtained from Tina Hardin, telephone (08) 8303 5370 or email: <tina.hardin@adelaide.edu.au>. Applications close 6 March 2000.

ADMINISTRATIVE ASSISTANTS (3 positions) (Refs 1024; 7128; 10137)

Office of the Vice-Chancellor
Salary: HEO2 \$25,815 - \$27,445*

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

These continuing positions are available immediately. Further information, including the duty statement and selection, criteria may be obtained from Rosalyn Chardon, telephone (08) 8303 5780, facsimile (08) 8303 4407 or email: <rosalyn.chardon@adelaide.edu.au>. Please indicate if you wish to be considered for more than one position. Applications close 6 March 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 13 March 2000, advertising paper work must be received in Human Resources by 25 February 2000.

For the *Adelaidean* of 27 March 2000 advertising paper work must be received in Human Resources by 10 March 2000.

GENERAL NOTICES

University Reviews for 2000

The Office of the Deputy Vice-Chancellor (Education) is planning to hold a number of Reviews during the coming year, following approval by the Vice-Chancellor's Committee.

The following Reviews have now been scheduled:

- An International Review of the University of Adelaide Libraries in the first half of the year.
- A Review of the Department of Geographical and Environmental Studies in the first half of the year.
- A Review of the School of Law in the middle of the year.

The Terms of Reference for each review will be made available once they have been finalised, and submissions will be called for at the appropriate time in the process of each review.

PENNY BOUMELHA
Deputy Vice-Chancellor
(Education)

Smart Card - Building Access

Due to the implementation of the new software for integration of Card Personalisation and Security, we are experiencing some problems with building access.

Some staff members and students have reported that their after-hours building access is not working. This problem is easily solved.

Any staff or students who find they are unable to gain after-hours access to buildings for which they are authorised are urged to contact Security in the first instance. We can then ascertain if your data has not transferred correctly.

If a problem has occurred, you will be directed to your department's Access Control Delegate for further assistance.

We apologise for any inconvenience caused.

ELIZABETH HARDMAN
Access Control Coordinator
Security Services

Departmental Learning and Teaching Award 1999

The aim of the Departmental Learning and Teaching Award is to promote and reward excellence in learning and teaching at a departmental level.

Recipients of the 1999 University of Adelaide Departmental Learning and Teaching Award were announced in late December last year and are the:

- Dental School (\$25,000)
- Department of Physiology (\$20,000)

- Department of English (\$5,000)

The Selection Committee, consisting of student and academic staff representatives, received and considered a total of six applications which were considered to be of extremely high quality.

The prize money is available to be used by the successful department(s) and/or centres to support continued development of their learning and teaching activities.

The learning and teaching portfolios presented by the successful applicants will be placed on the Deputy Vice-Chancellor (Education)'s website at: <http://www.adelaide.edu.au/DVC/quality/departmental_l&t_awardwinners_1999.html>.

Further details can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, tel 8303 5511, fax 8303 5150, email: <marie.reitano@adelaide.edu.au> or from the DVC's web site: <http://www.adelaide.edu.au/DVC/quality/departmental_l&t_award.html>.

The Stephen Cole The Elder Prizes for Excellence in Teaching 1999

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

Recipients of the 1999 Stephen Cole the Elder Prizes for Excellence in Teaching at Adelaide University were announced in late December last year and are:

- Dr Geoffrey Crisp, Department of Chemistry
- Associate Professor John Gray, Department of Anthropology
- Mr Stephen Knopoff, Elder Conservatorium - School of Performing Arts (awarded for excellence in teaching in the first five years of teaching).

The Selection Committee, consisting of student and academic staff representatives, received and considered a total of ten applications which were considered to be of excellent quality. Each prize consists of a monetary award of \$5000 and a certificate presented at the commemoration ceremonies. The prize money is to be used by the winners to help them with the further development of their teaching activities.

Further details can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, tel 8303 5511, fax 8303 5150, email: <marie.reitano@adelaide.edu.au> or from the DVC's web site: <http://www.adelaide.edu.au/DVC/quality/stephen_cole_prize.html>.

Animal Ethics training course

THE USE OF ANIMALS IN SCIENCE - ETHICAL AND PRACTICAL CONSIDERATIONS - Friday 10 March 2000 from 9.10 to 4.00 in the new Robson Theatre, Eleanor Harrald Building, Frome Road, Royal Adelaide Hospital.

The University's Animal Ethics Committee, in co-operation with the Institute of Medical and Veterinary Science, will conduct its annual one-day training course for staff and honours/postgraduate students on Friday 10 March. It is particularly aimed at new users but is of interest and value to animal users generally. The broad object of the day's program is to expose animal users to some of the ethical questions which the University must consider under the South Australian Prevention of Cruelty to Animals Act, including the Australian Code of Practice for the Care and Use of Animals for Scientific Purposes. In addition, it raises wider issues of community interest in relation to the humane use of animals. The programme is available on the Noticeboard at <<http://www.adelaide.edu.au/secretariat/ethics/animal/index.htm>>.

Interested persons from other institutions are welcome. No fee is charged.

Contact Mrs Helen Malby to register attendance email: <helen.malby@adelaide.edu.au>, tel 830 34014 by 6 March.

DR JOHN HATCH
Convenor, Animal Ethics Committee

Counselling Centre



WORKSHOPS

- Learn Deep Relaxation
- Developing a Lifestyle that Reduces Stress and Worry
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- Confident Tutorial and Seminar Presentations
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LUNCH TIMES - FREE BOOK ON 8303 5663 OR CALL IN

DAILY DROP IN SERVICE

1.00 - 2.30PM Brief consultations only - no appointment required

Glassblowing Service

For all your Glassblowing needs in Borosilica Glass up to 100mm OD. Repair work and custom design.

Located in the Department of Chemistry.

Phone 8303 4273 or email <brendan.edwards@adelaide.edu.au>.

COUNCIL NEWS

Council met on 14 February and, amongst other things:

- endorsed the University Operational Plan 2000-2002-2004 (copies are available to staff at <http://www.adelaide.edu.au/VC_office/home.html>).
- noted a report from the Deputy Vice-Chancellor (Education) which briefed Council members about the Federal Government's national quality assurance framework.
- noted the report on progress against the Operational Plan 1999.
- noted a final report on our Year 2000 compliance project, which pointed out in particular that the year 2000 rollover went smoothly with no major problems reported.
- noted a report showing that the recipients of the 1999 Undergraduate scholarships achieved outstanding results in their first year at Adelaide University.
- noted a presentation from the Executive Dean, Faculty of Agricultural and Natural Resource Sciences.
- welcomed general staff member Mr John Cecchin to his first Council meeting.

After the Council meeting, Council Members attended a briefing on the Review of Tertiary Music and Education Training presented by Steering Group Convener Professor Penny Boumelha, and Review Committee member Professor Malcolm Gillies.

The Council agenda, non-confidential minutes and reports to Council from senior managers are available to staff at: <<http://www.adelaide.edu.au/secretariat/council/2000/meeting00.htm>>.

SUSAN GRAEBNER, Council Secretary

Teaching at University courses 2000

Semester 1 dates: Tuesdays 9.15am - 12noon, 14, 21, 28 March, 4 April, 2, 9 & 16 May.

These courses are open to all academic staff at the University. Teaching at University focuses on learning and teaching at Adelaide University and consists of seven sessions and a project. The course is designed for staff teaching, or intending to teach, in a university. One of the conditions of tenure is that staff should undertake a program of teaching development.

Please contact Lynne Bradshaw, 8303 5771, for enrolment details.



Welcome in the new millenium with one of our dental care specials!

Dental treatment for University staff and students

To welcome you back from the Christmas break we are offering a very special rate for new patient checkups and scale and polish.

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

Emergency dental treatment and routine dental care is available at the CACDRC. 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, to book a tour of the Centre or to make an appointment for treatment, contact Lisa 8303 3437.

Dental implants

**Had enough of your partial denture?
Having trouble with you full lower denture?**

Volunteer to be part of a research project into dental implants and your denture could be a thing of the past. The latest types of titanium dental implants are being investigated. The cost of the implants and to have the superstructure made is considerably less than is charged for the same work outside of this research project.

Where? Colgate Australian Clinical Dental Research Centre
2nd Floor, Adelaide Dental Hospital, Frome Road

To register your interest phone 8303 3437.

Unfortunately we are not able to accept you into the study if you are a smoker, a poorly controlled diabetic, taking steroids, if you need antibiotic cover for dental treatment, if you are on hormone replacement therapy, if you have a pacemaker or if you are pregnant.

Do you have access to adequate child care?

Student Care Inc. is carrying out research into the use of child care by students at Adelaide University. We are seeking students who are parents to complete a simple questionnaire.

Questionnaires are available from Student Care Inc. Ground Floor, Lady Symon Building, or one can be mailed to you.

As an incentive we will be offering two UniBook vouchers to the value of \$75.

Research participants needed

Participants for research are needed by Adelaide University into stress and pain processing for headache sufferers and people who do not suffer headache.

Participants will have various sensory mechanisms assessed at a laboratory session lasting approximately 60 minutes and receive some questionnaires to complete at home.

Participants will be compensated \$10 for their time.

Please contact Stuart Cathcart, 8303 5849 or email <uahms@hotmail.com>.

RESEARCH BRANCH: UPDATE

Australian Research Council (ARC) grants for 2001

Strategic Partnerships with Industry-Research and Training (SPIRT) Scheme

This scheme is designed to encourage and develop long-term strategic alliances between higher education institutions and industry, to provide industry-oriented research training for postgraduate research students and to foster opportunities for postdoctoral researchers to pursue internationally competitive research in collaboration with industry.

Application forms and guidelines for funding in 2001 are now available from the Research Branch web site. Applications will close with the Research Branch on Wednesday 26 April.

INFORMATION SESSION WITH PROFESSOR PETER ROBINSON - TUESDAY 14 MARCH:

Professor Peter Robinson, chair of the ARC's University-Industry Research Collaboration Committee will be at the University of Adelaide on Tuesday 14 March to conduct an Information Session on the SPIRT scheme and meet with intending applicants and their Industry collaborators.

The Information Session will be held in the

Council Room, Level 7 Wills Building from 1.30pm to 3pm.

It is expected that Professor Robinson will be also be available to meet applicants by appointment from 9am to 12 noon. Contact the Research Branch on extension 35137 for more information or to make an appointment

International Researcher Exchange (IREX) Scheme

The objectives of this scheme are to build strong ongoing collaborations between research groupings or centres of excellence in Australia and overseas, involving exchange of researchers at both senior and junior levels; to strengthen international research experience for junior researchers at both postdoctoral and postgraduate levels; and to enhance existing, and develop new, collaborations among senior researchers.

Applications for funding in 2001 will close with the Research Branch on Friday 7 April. Applications and guidelines are available from the Research Branch web site. Further information is also available from Professor Russell Baudinette, Department of Environmental Biology (a member of the ARC committee responsible for the scheme).

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

RESEARCH AND SCHOLARSHIPS

AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellowship and other research funding schemes available for application. A more detailed electronic version of this listing (Update: Research), together with guidelines and applications 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, please contact the Research Branch, extension 35137; or email renae.minerds@adelaide.edu.au.

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

International Wool Secretariat - Research and Development Projects: Applications may be submitted at any time **Industry, Science & Resources; Dept of (DISR), Technology Diffusion Program (TDP):** This program has three integrated components:

- Technology Alliances (includes Industrial Research Alliances Program),
- Technology Transfer and
- On-line Business.

Further information about the TDP is available from the AusIndustry web site: <http://www.ausindustry.gov.au/tdp>.

National Parks Foundation of South Australia Inc - Research Grant: Internal closing date: Applications may be made at any time. Web site: <http://www.npfsa.mtx.net/welcome.htm>.

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

National Institute on Drug Abuse, USA - Centers for Drug and Aids Research Core Grants: Internal closing dates: 28 February 2000 (Letter of Intent) & 29 March 2000 (Application) Web: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-DA-00-008.html>.

Fogarty International Center, USA/ National Inst. of Environmental Health Sciences, USA/ National Inst. of General Medical Sciences, USA/ National Inst. of Allergy and Infectious Diseases, USA/ National Science Foundation, USA/ Agricultural Research Service, USA/ National Aeronautics and Space Administration, USA US Geological Society - Ecology of Infectious Diseases: Internal closing date: 29 February 2000. Web site: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-TW-00-002.html>.

National Stroke Foundation - Research Grants: Internal closing date: 3 March 2000

New Energy Technology Development Organisation (NEDO) - Grants for International Joint Research in the Areas of Materials, Energy, Global Environment and International Standard Development: Internal closing date: 3 March 2000. Web site: <http://www.nedo.go.jp>.

Australian Flora Foundation - Research Grants 2000-2001: Internal closing date: 6 March 2000 (Preliminary Applications).

Department of Communications Information Technology and the Arts - 2nd Round of Expressions of Interest: Internal closing dates: Expressions of Interest: 8 February 2000 (not compulsory), Full Applications: 8 March 2000. Web site: <http://www.dcit.gov.au>.

National Facility Steering Committee - Oceanic Research Vessel Franklin: Call for Applications for Use of

Franklin in 2001 and Expressions of Interest for 2002 and Beyond: Internal closing dates: 10 March 2000: Expressions of Interest for 2002 and Beyond. Web site: <http://www.marine.csiro.au/franklin>.

National Institute of Neurological Disorders and Stroke, USA/National Institute of Diabetes and Digestive and Kidney Diseases, USA/Juvenile Diabetes Foundation International - Neurobiology of Diabetic Complications: Internal closing dates: Letter of Intent 10 March 2000, Application 11 April 2000. Web site: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-NS-00-002.html>.

Office of Dietary Supplements, USA / National Center for Complementary and Alternative; Medicine, USA / Fogarty International Center, USA / National Cancer Institute, USA / National; Heart, Lung, and Blood Institute, USA / National Institute of General Medical Sciences, USA / National Institute of Diabetes and Digestive and Kidney Diseases, USA / National Institute on Aging, USA / National Institute on Drug Abuse, USA / National Institute of Environmental and Health Sciences, USA / Office of Research on Women's Health, USA - Centers for Dietary Supplement Research: Botanicals: Internal closing dates: 10 March 2000 (Letter of Intent), 11 April 2000 (Application). Web site: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-OD-00-004.html>.

AusAID - Postdoctoral Fellowships for Research on Economic and Public Administration Issues in Papua New Guinea: Internal closing date: 22 March 2000.

Prostate Cancer Foundation of Australia - Travel Grants: Internal closing date: 23 March 2000

CARD Program - Capacity-building for Agriculture and Rural Development Program in Vietnam: Internal closing date: 24 March 2000

Grains Research and Development Corporation (GRDC) - Travel/Conference Attendance 2000/2001: Internal closing date: 24 March & 23 September 2000. Web site: <http://www.grdc.com.au>.

Heart Foundation - Grant-in-Aid for Research (Biomedical and Education/Health Promotion): Internal closing date: 24 March 2000. Web site: <http://www.heartfoundation.com.au>.

MAWA Trust (Medical Advances Without Animals) - New Funding Support for Non-Animal-Based Medical Research in 2001: Internal closing date: 24 March 2000. Web site: <http://www.mawa.asn.au>.

Price Charles Hospital Foundation - Research Grants: Internal closing date: 24 March 2000

Sea World Research and Rescue Foundation Inc - Research Funding: Internal closing date: 24 March 2000

University of Oxford - Oxford Nuffield Medical Fellowship 2000/01: Internal closing date: 24 March 2000. Web site: <http://www.science.org.au/awards/nuffield.rtf>.

Environment Australia - Australian Biological Resources Study: Internal closing date: 3 April 2000. Web site: <http://www.anbg.gov.au/abrs>.

NSW Environment Protection Authority - Community Waste Reduction Grants Program: Internal closing date: 11 April 2000. Web site: <http://www.epa.nsw.gov.au/waste>.

National Institute of Environmental Health Sciences, USA / National Institute on Aging, USA / National Institute of Arthritis and Musculoskeletal and Skin Diseases, USA / National Institute of Child Health and Human Development, USA

/ National Institute of Mental Health, USA / National Institute for Occupational Safety and Health, USA, / Office of Behavioural and Social Sciences Research, USA - Health Disparities: Linking Biological and Behavioural Mechanisms with Social and Physical Environments: Internal closing date: 12 April 2000. Web site: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-ES-00-004.html>.

National Institute of Allergy & Infectious Diseases, USA - Laboratory Methods to Assess Responses to HIV Vaccine Candidates: Internal closing dates: 17 April, 18 August & 22 December 2000. Web site: <http://www.grants.nih.gov/grants/guide/pa-files/PA-99-044.html>.

National Institute of Child Health and Human Development, USA - Genetic Disorders Causing Mental Retardation: Internal closing dates: Various. Web site: <http://www.grants.nih.gov/grants/guide/1994/94.02.18/pa-genetic-disorders009.html>.

The George Alexander Foundation - Grants: Internal closing dates: 20 April, 25 July and 23 October 2000. Web site: <http://www.gafoundation.org.au>.

Sylvia and Charles Viertel Charitable Foundation - Applications for 2000 - 2001

- Senior Medical Research Fellowships
 - Establishment Grants for Viertel Clinical Investigators
- Internal closing date: 21 April 2000

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

Australian Academy of Science - Rudi Lemberg Travelling Fellowship: Internal closing date: 5 May 2000. Web site: <http://www.science.org.au/awards/lembert.htm>.

National Heritage Trust, Coasts and Clean Seas - Funding for Environmental Projects 2000-2001: Internal closing date: 11 May 2000. Web site: <http://www.environment.gov.au/net/ccs.html>.

National Cancer Institute, USA - Genetic Regulation of Susceptibility to Tobacco-Related Carcinogenesis: Internal closing dates: 15 May & 15 September 2000. Web site: <http://www.nih.gov/grants/guide/pa-files/PA-98-095.html>.

National Centre for Research Resources (NCRR), USA

- Novel Approaches to Enhance Stem Cell Research: Internal closing dates: 15 May & 15 September 2000. Web site: <http://www.nih.gov/grants/guide/pa-files/PA-99-086.html>.
- Comparative Medicine - Various Awards and Programs (Visit website for further details) <http://www.ncrr.nih.gov>.

National Institute of Arthritis and Musculoskeletal and Skin Diseases, USA - Grants for Research on the effects of Microgravity on the Musculoskeletal System: Internal closing dates: 15 May & 15 September 2000

National Institute of Arthritis and Musculoskeletal and Skin Diseases, USA / National Institute for Child Health and Human Development, USA / National Institute of Dental Research, USA / National Institute of Diabetes, Digestive, and Kidney Diseases, USA - Research Grants for Research on Skeletal Growth and Development: Internal closing dates: 15 May & 15 September 2000. Web site: <http://www.grants.nih.gov/grants/guide/pa-files/PA-98-105.html>.

National Institute of Diabetes and Digestive and Kidney Diseases, USA / National Eye Institute, USA / National Institute for Dental and Craniofacial Research, USA / National Institute of Neurological Disorders and Stroke, USA / National Heart, Lung, and

Blood Institute, USA - Research Grants - The Role of Growth Factors in the Development of Diabetes Complications: Internal closing dates: 15 May & 15 September 2000. Web site: <http://www.grants.nih.gov/grants/guide/pa-files/PA-99-159.html>.

National Institute of Neurological Disorders & Stroke / National Institute of Arthritis and Musculoskeletal and Skin Diseases, USA - Research Grants - Gene Therapy in Duchenne Muscular Dystrophy: Internal closing date: 15 May & 15 September 2000. Web site: <http://www.grants.nih.gov/grants/guide/1994/94.02.18/pa-gene-therapy-in-d008.html>.

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.

Apex Foundation for Research into Intellectual Disabilities Ltd Undergraduate Studentships: Open to undergraduates preparing a thesis as part of their studies. The thesis must be related to intellectual disability. Value: \$1000. Details available on request. Closing: 31 May 2000 (Vic)

Australian Minerals and Energy Environment Foundation Travelling Scholarship: Value: up to \$15,000 to enable an individual to travel overseas to study new developments in some aspect of environmental management, research or practice, so that the knowledge gained may be applied to the benefit of environmental management in the Australian minerals and energy industries. Further details from AMEEF's web site: www.ameef.com.au or by telephone: (03) 9679 9911, fax: (03) 9679 9916, email: ameef@ameef.com.au Closing: 5 May 2000 (Melbourne)

British Federation of University Women: A booklet providing details of awards provided by the Federation is available on request to the Student Centre.

Constantine Asproumouros Memorial Scholarship for Greek Studies 2000: Open to bachelors or masters graduates of Queensland University undertaking a postgraduate course involving studies in at least one area of Greek studies in language, culture, literature, history, archaeology, society, religion, economy, politics or geography; and are undertaking the course at another university, or Queensland University, provided that part of the course involves studies at another university. Value: \$4,400. Details from Prizes Officer, University of Queensland tel: (07) 336 51984, email: l.munro@mailbox.uq.edu.au Closing: 14 April 2000 (Qld)

Dairy Research and Development Corporation General Training & Development: Available for study tours, and attendance at conferences, seminars, workshops and short courses. Overseas travel applications should be built into specific DRDC-funded projects within the Farm and Manufacturing Portfolios. Closing: 31 March 2000 (Melbourne)

Greek Government Scholarships 2000/2001: Open to Australian citizens wishing to undertake postgraduate studies or research in Greece. Further details available on request to the Student Centre. Closing: 15 March (ACT)

Konig Bequest Awards for Aboriginal Postgraduate Students: Open to Aboriginal and Torres Strait Islanders undertaking Masters or PhD (by full-time research or coursework). Value: up to \$5,000. Closing: 31 March 2000 (Student Centre)