

Child racism targeted by psychology study

MORE than 100 South Australian school children have taken part in an Adelaide University study designed to "tease out" their thoughts on minority groups and racism.

The findings of that study are now challenging the long-held view that racism is widespread among children in Western societies.

For the last 50 years, researchers throughout the Western world have concluded that children develop racist attitudes by the age of five.

Their studies have often involved giving the children two dolls—one black and one white—or showing images of black and white children.

When asked "which is the good one?", "which is the bad one?", the children have overwhelmingly described the black doll or image of the black child in negative terms. The white doll or picture of the white child has almost always been described positively.

This negativity towards the black stimuli in the tests has always been attributed to prejudice or racism in the children.

Dr Martha Augoustinos from Adelaide University's Department of Psychology is now challenging this view.

"In 1989, an American social psychologist, Patricia Devine, argued that psychologists had been confusing 'prejudice'—that is, negative feelings and attitudes towards particular

minority groups—with knowledge of 'stereotypes' about these groups.

"Devine argued that everyone grows up learning what the stereotypes are, that the dominant white majority are supposedly good, well-behaved, clean, proper, and that people from minority groups are lazy, dirty, etc.

"So maybe what has been demonstrated in this research isn't necessarily how people feel about these groups, but instead their knowledge of the stereotype of those groups," Dr Augoustinos said.

Devine was talking specifically about research done with adults. Dr Augoustinos wanted to take it further and apply that theory to children.

"We started to think that maybe all of this research is not really showing prejudice but the children's knowledge of the stereotypical views they've been exposed to. So we decided to put this theory to the test."

Dr Augoustinos and Honours student Ms Dana Rosewarne devised a new study to uncover the real views and attitudes of young Australians to black people.

Last year, 110 South Australian school children took part in the study. Around half were aged 5-6 years old, while the other half were from an older age group, 8-9 years.

This time, the questions asked of children were more varied and provided them with greater scope to express their views, rather than just giving them a choice between "good" or



Turning a negative into a positive: new research is reversing the idea that racism among young children is as simple as "black" and "white".

"bad". They also dealt with the difference between personal beliefs and the views of society as a whole.

The study found that the students in the younger age group responded almost overwhelmingly in the negative (as in all the previous studies) to images of black children, and over-

whelmingly positive to images of white children.

However, the older age group showed more variation in responses and was more likely to report personal beliefs that were different to the cultural stereotypes.

"We hypothesised that among really

young kids, stereotype knowledge would be almost the same as their personal beliefs, because that's all they know—they can't distinguish between the dominant social representations of groups and their own judgements of those groups.

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Praise for medical entry at rural health centre opening

DEPUTY Prime Minister John Anderson has commended Adelaide University on its changed entry requirements for medical students.

Mr Anderson said he was "absolutely delighted" that the changes had boosted the University's intake of students from rural areas.

Speaking at the official opening of the South Australian Centre for Rural and Remote Health (SACRRH) in Whyalla, he said many young people in rural areas suffered educational disadvantages which prevented them attaining "leading edge" academic results.

This had the effect of disguising their true talents and capabilities, he said.

Mr Anderson said Adelaide University's initiative was exactly what was needed to help address the situation.

Earlier, the Vice-Chancellor, Professor Mary O'Kane, had outlined how the University changed its medical entry system from one based solely on exam marks to one that also considered other attributes, such as character.

Professor O'Kane said this year, 27% of the University's first-round offers to study medicine had

gone to students from rural areas.

Under the old system, only 3% of medical students were from rural and remote Australia.

The SACRRH is a partnership between Adelaide University, the University of South Australia and the Commonwealth and State Governments.

The Director, Professor David Wilkinson, said the Centre had achieved more than he thought possible over the past 12 months.

It had attracted extra doctors and specialists to the region, established a university-owned and run teaching practice, increased the number of rural student placements, undertaken critical research and enrolled PhD students.

Last month, the Centre secured two new research grants worth a total of \$135,000 from the Commonwealth Department of Health and Aged Care.

One of the grants will enable the Centre to undertake a national study of the influence of rural background and other factors on choice of practice location.

The other will fund a study into barriers to the use of evidence-based medicine in rural general practice in South Australia.

—John Drislane



(From left) Professor David Wilkinson discusses the benefits of the SA Centre for Rural and Remote Health with Adelaide University Vice-Chancellor Professor Mary O'Kane, Uni SA Vice-Chancellor Professor Denise Bradley and Deputy Prime Minister Mr John Anderson. Photo: John Drislane.

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ADELAIDE UNIVERSITY AUSTRALIA



Voice of youth

Even the most cursory coverage of the millennium celebrations showed that there was a major emphasis that the new century, the new millennium, belongs to today's youth. And rightly so!

It was fascinating to read a few days before the new year an article in *The Australian* which described the results of a Newspoll which showed that 18 to 24 -year-olds were becoming disenchanted with the Federal Government, probably because of its approach to higher education.

The fiasco of the leaked Kemp Cabinet paper obviously put a scare in many young people about the debt they may have to incur to complete their higher education. Some commentators also believed the Prime Minister's opposition to the republic may have also dented his standing with the youngest voters.

It was heartening to see the Government getting a firm message from young people that higher education policies can have an effect on voting intentions. It had been disheartening to realise that higher education had become a non-issue at the last federal election. But if today's youth feel strongly enough then university policy should indeed be a major election issue at all elections, both State and Federal. Why both? Well, because most universities are covered by State Acts even though the biggest piece of our revenue, the Operating Grant, comes from the Federal Government and accounts for about 44% of our consolidated revenue.

The challenge is to broaden the portion of the electorate which is deeply concerned about higher education. As we all know, higher education policy is not just a hip-pocket concern, and it's not just the concern of youth.

If we want Australia to thrive and prosper, the majority of the electorate must be engaged in the debate about university policy. With knowledge being the most important commodity in the world, those countries who have the most knowledge, who can create knowledge, who can use knowledge, will be the most wealthy and socially stable.

The key issue is not just that higher education should be available to all who want it. Rather, we should aim for a future when all young Australians expect to proceed to higher education in some form, whether it be vocational education or university education (and, I should add, they should expect to be able to afford higher education and have some certainty about the level and nature of personal contributions).

And all Australians should have lifelong learning as a goal. We should see it as a good investment for which we are willing to pay, just as we should be prepared for our taxes to pay for all young Australians to receive what might be called a basic higher education.

I hope that Australia's youth will keep our focus on education. It is important for our country's future.

MARY O'KANE

COMMENTARY

COMMERCIALISING RESEARCH

Dr Adrian Graves
Acting Director
Science & Technology
Commercialisation

The 'knowledge economy' and 'globalisation' seem to be the most popular buzz phrases of the moment. Policy makers, legislators and commentators are transfixed by them. A deep understanding of their nature and ramifications is less ubiquitous. But then, that has always been true of technology-driven transformations since their onset in Britain around 1760. Hitherto, insight into each revolutionary wave has been an act of hindsight. This time no economy can afford wisdom in hindsight.

For one thing, the rate of innovation is extremely rapid. The early adopters, most particularly the United States, have already assumed a dominant economic and political position. This revolution will bring about new centre/periphery relations. It does not follow that the currently industrialised nations, Australia included, will maintain the privileged economic and social position which has been built on the back of earlier industrial revolutions.

At least we do understand that the production of knowledge is a key driver in the momentous changes taking place. Whilst Australia enjoys a competitive advantage in its capacity to generate knowledge we have a poor history in capitalising on this capacity.

The stories about great inventions in this country lost to commercialisation elsewhere are legion. Think of the photocopier, the bionic ear, in-vitro fertilisation, the 'black box' flight recorder, refrigeration...

One of the reasons for these lost opportunities is that there is a serious deficit in skills of commercialisation in Australia. Adelaide University is about to address that. In collaboration with the University of Texas in Austin, we have developed an innovative Masters degree in science and technology commercialisation. Successfully delivered last year in a cut-down form as a Professional Certificate to 10 students drawn from a broad spectrum in government and the private sector, the new Masters will be launched this month and begin in May.

“There is a serious deficit in skills of commercialisation in Australia. Adelaide University is about to address that.”

So, what is innovative about the program? In short, there is no enterprise education program like it in content and educational objectives; it is built around an innovative concept in student project management, called 'global teaming', which draws on all the international partner institutions in the program; and it is presented using a mix of face-to-

face education and leading technologies in on-line delivery and international video-conferencing. Students who take the program may choose from a range of options which best fit their personal circumstances and educational aims.

This program is no vanilla MBA course or a clone! It is a practical, skills-based program, which teaches students how to assess a technology for commercialisation, develop the opportunity to commercialise the technology by sourcing appropriate funding and partnerships, and then build a business around the commercialised technology. Students who go through this program will have a good theoretical knowledge of commercialisation. But more importantly, they will be able to do it.

The three essential components of the course are taught over three semesters. In each semester, students undertake a major project which is a practical exercise in a key stage of commercialisation. Each project is supported by three subjects which provide the essential background of knowledge to the project-based subject. In the first semester, for example, the major project is a detailed assessment of a real technology for commercialisation. This is supported by three subjects which address models of technology management and transfer, financing technology ventures and marketing technology innovation.

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LETTERS

TO THE EDITOR

Music Review



A Review Committee has recently (see *Adelaidean* 13/12/99) recommended the amalgamation of the Elder Conservatorium and the Flinders Street School of Music into a new "centre of excellence", the Elder School of Music.

At first blush this seems a very reasonable proposal, serving the best interest of musical education in this State. Unfortunately the article does not mention a number of features of the Committee's report, which might well cause a different assessment of its recommendations.

With regards to the present operation of the two institutions to be merged, the Review Committee's findings are verbatim as follows:

- (With reference to the Flinders Street School of Music) "The School is characterised by clear and comprehensive course materials and by its strong community 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."
- (With reference to the Elder Conservatorium) "Unfortunately, the Conservatorium has suffered in recent years from a loss of direction and a decline in morale, evidenced in what appears to be a disappointing lack of initiative and new ideas."

It is difficult to conceive of a more contrasting set of findings!

To attempt the creation of a "centre of excellence" by submerging a well functioning organisation in the longstanding quagmire of another seems a bizarre notion. In any case a centre of excellence is not created by amalgamation or by any other organisational manipulation, but solely by the excellence and dedication of its staff, particularly of its head. We are fortunate in having a head of the necessary calibre at the helm of the Flinders Street School.

To abolish this School—and despite noises to the contrary, this is what a merger would in practice imply—would be a severe injustice to the staff of an institution which in the Review Committee's own assessment has given the community sterling service for 30 years!

The timeworn argument of fund shortages can hardly be invoked, since funding at the Flinders Street School is certainly not more plentiful than at the University.

There is another aspect, not immediately apparent from the article in the *Adelaidean*, and made explicit only in two easily overlooked lines on page 10 of the Review Committee's report:

"In order for the new entity to have its own sense of identity, the 'Elder School of Music' should not be part of any University Faculty or any other existing structure."

In other words, that it should no longer be part of the University of Adelaide! In view of the difficult situation at the Conservatorium, as described by the Committee, one could

be forgiven for imagining that its complete separation from the University might be regarded by some as a welcome opportunity for severing connection altogether with what is now perceived as a burdensome responsibility.

This severance must in my opinion not be allowed to occur. Cultivation of musical life has in the past been an essential role of the University in our community, and it should remain so.

I will not dwell on the fact that all recommendations of the Review Committee seem to be isolated assertions, without reference to or discussion of the material placed before the Committee, and I will instead summarise my own suggestions for future action as follows:

- A new Elder Professor of the necessary calibre be appointed as a matter of urgency, and his priority task be to remedy the deficiencies in the Conservatorium highlighted by the Committee. This process might take several years.
- If, once the situation at the Conservatorium has been remedied to an extent making it comparable to that at the Flinders Street School of Music, it is still felt that a merger should be considered, then a further review could be undertaken. In contrast to the present one, that review should take the form of a thorough cost-benefit analysis, properly taking into account all cultural, educational and financial aspects of the problem.

EH Hirsch
Department of Physics & Mathematical Physics



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Smart idea wins Premier's scholarship

A SHARP-MINDED Adelaide arts graduate with a bright new multimedia idea has become the first winner of the Premier's Enterprise Scholarship.

The \$45,000 scholarship will allow Stephen Watt, 29, to develop his multimedia product at the renowned Austin Technology Incubator in Texas.

After a year in Austin he will return to the entrepreneurial program at Adelaide University's Commerce and Research Precinct at Thebarton.

Although relatively new to information technology, Stephen's creative idea for a new multimedia product, deliverable over the Internet, won the judges' attention.

Premier John Olsen congratulated Mr Watt as the inaugural winner of the scholarship.

"The Government is committed to ensuring that South Australia is at the forefront of the new information economy," Mr Olsen said.

"To be at the forefront we need innovative and skilled individuals. That's what the Enterprise Scholarship is about—expanding those skills and encouraging innovation."

Stephen, who has now left for Texas, is an Arts graduate who has spent much of his career in youth arts.

He recently undertook a course in interactive multimedia at Torrens Valley Institute of TAFE, during which he formed his entrepreneurial idea.

He now has his own company called Golden-Haired Boy Multimedia.



Stephen Watt's winning idea has ensured him a ticket to Texas. Photo: David Washington.

"The Austin Technology Incubator will be a very exciting environment to work in," he said just days before leaving Adelaide.

"Of course, my plan is to develop this product, but I am also aware that I will be developing skills and a knowledge base that will sustain me well beyond the life of this project. The program is not just about developing ideas—it's about developing entrepreneurs."

While Stephen cannot say too much about his idea, given the highly competitive nature of the IT industry, he said the team environment of Austin would be very useful.

"As a youth worker I cultivated the idea that

shared experience and the strength of a team is more valuable and balanced than the stumblings of one person," he said.

Adelaide University's Vice-Chancellor, Professor Mary O'Kane, congratulated Stephen and acknowledged the Premier's foresight in supporting the scholarship.

"An investment in this sort of scholarship will not only contribute to new, successful high-technology business for South Australia, it can also create entrepreneurs out of outstanding young people like Stephen Watt," she said.

—David Washington

New students rewarded for excellence

ADELAIDE University offers our brightest young minds some of the most attractive scholarships in the nation.

This year, around \$1.3 million in scholarships has been awarded to new undergraduate students, part of an overall package of \$11.4 million.

The scholarships are aimed at keeping South Australia's brightest students in the State, and encouraging bright students from interstate to study at Adelaide.

Many of them have achieved perfect or near-perfect scores in their Year 12 results.

As a reward for their excellent academic achievement, each student is provided with a generous living allowance of \$10,000 per year for four years, and the scholarships also

cover their university fees.

Congratulations to the following winners of Adelaide University's undergraduate scholarships for 2000:

Andy Thomas Scholarship

Rohin Wood - *Engineering (Mechatronic)/Science (Maths & Computer Science)*

Premier's Scholarship in Biological Sciences

Anita Hagger - *Agricultural Science (Horticulture)*

Premier's Scholarship in Biotechnology

Anne Philcox - *Engineering (Chemical)/Science*

Premier's Scholarship in Information Technology

Kim Anderson - *Engineering (Computer Systems)/Arts*

Adelaide Undergraduate Scholarships

Andrew Budimir - *Engineering (Electrical & Electronic)/Science*

Edward Lo - *Commerce*

Samuel Robertson - *Engineering (Mechatronic)/Science (Maths & Computer Science)*

William Robinson - *Engineering (Information Technology & Telecommunications)/Arts*

Arna Synnot - *Economics*

Amber Tomas - *Science (Maths & Computer Science)*

Darren Williams - *Engineering (Computer Systems)/Science (Maths & Computer Science)*

Brendan Wong - *Engineering (Computer Systems)/Science (Maths & Computer Science)*

United on water thanks to industry deal

CLOSER links between Adelaide University and industry will result from a new agreement signed with water company United Water.

"The signing offers tremendous benefits to both parties," said United Water's Managing Director, Mr Graham Wood.

The agreement signals a commitment to work together on issues of water industry education and research.

"Greater access to research conducted by the University on water and wastewater will provide long-term benefits to our customers," Mr Wood said.

Although initially focused on the University's Faculty of Engineering, Computer & Mathematical Sciences, the agreement has been designed to expand into other areas such as Commerce and Economics.

University Vice-Chancellor Professor Mary O'Kane said the agreement would provide employment and research opportunities for students.

She said collaborative research projects involving staff from both organisations



Mr Graham Wood, Managing Director of United Water and Professor Mary O'Kane, Vice-Chancellor of Adelaide University at the signing. Photo: David Ellis.

would also emerge.

Mr Wood said by signing the agreement, United Water was taking a lead role in further developing the water industry in

South Australia.

He encouraged other companies to engage with the University to assist with product development and research.

N E W S

IN BRIEF

GREAT AUSTRALIANS

Two of Adelaide University's high-profile graduates—astronaut Andy Thomas and lawyer Bob Piper—have topped the list of South Australians on this year's Australia Day Honours List. They were both appointed Officers in the Order of Australia (AO).

Dr Thomas, who graduated at Adelaide with a degree and a PhD in Engineering in the 1970s, is well known for his service to science and technology as a NASA astronaut.

Mr Piper graduated with a Law degree in the 1960s and was a founding partner in the law firm Piper Alderman. He was honoured for his service to business, commerce and the community.

A GREAT SOUTH AUSTRALIAN

Dr David Paton from the Department of Environmental Biology was honoured as a South Australian of the Year in 1999.

Dr Paton made the shortlist of candidates because of his contributions to research, the understanding and management of South Australia's environment, for his efforts in teaching and communicating science to the wider community.

His wide-ranging environmental research spans such areas as native bird life, feral cats and koalas, and more recently in the public eye, the Mundulla Yellow problem.

DUNSTAN PUBLIC LECTURE

A public lecture by the inaugural Don Dunstan Foundation Visiting Professor will be held on Wednesday 23 February.

Professor John Quiggan (Australian National University) is one of Australia's most prominent research economists and a commentator on privatisation, unemployment, micro-economic reform, competitive tendering and the economics of education.

His lecture will focus on the theme "Globalisation, Democracy and Public Prosperity".

A panel including Professor Marjorie Griffin-Cohen, Professor Hugh Stretton and Professor Cliff Walsh will lead audience discussion.

Venue: Elder Hall
Time: 6.00pm
Tickets: \$5 per person
Phone Alison on 8303 3364.

CONFERENCE PRIZE TO STUDENT

A PhD student at the Department of Soil & Water, Mardi van der Wielen, was awarded the prize for best oral presentation by a postgraduate student at the annual conference of the New Zealand Limnological Society and the Australian Society of Limnology late last year.

The conference in Taupo, New Zealand—"Sustainable Freshwater Ecosystems: the new millennium"—attracted 315 delegates and 240 oral or poster presentations.

Mardi's PhD project focuses on the sustainable restoration of wetlands by artificial drying and wetting and is funded by the Bookmark Biosphere Trust.

COMMUNITY ACCESS PROGRAM

The Faculty of Humanities & Social Sciences has launched its Community Access Program for 2000.

Through the program, anyone can attend lectures on arts subjects without having to enrol for an arts degree. That means people can learn about an area of interest without having to do the full course.

The Community Access Program provides a list of all the subjects available, from Ancient Greek or Philosophy to Women's Writing in the 19th Century—there are 150 subjects to choose from.

The Community Access Program has proven popular because no formal educational requirements are needed to enrol. Each subject costs \$75, or \$150 for full-year subjects.

For more information or to receive a copy of the Community Access Program, contact the Humanities Faculty office on 8303 5245 or email: <faculty_office@arts.adelaide.edu.au>.

Gambling study shows it's good to be bad

GAMBLING, genetics, the economy and swinging voters—what do they all have in common?

The answer: we can now start to better understand each and every one of them thanks to Parrondo's paradox, a mathematical theory developed by a Spanish physicist which explains how we can mix "bad" strategies and get a "good" outcome.

Adelaide University engineers have now taken that theory one step further by demonstrating it in a unique gambling study published in the prestigious journal *Nature*.

Dr Derek Abbott and Mr Greg Harmer from the Department of Electrical & Electronic Engineering have shown that two "bad" (losing) games played by tossing coins can be mixed together to produce a win or a "good" outcome.

When played separately, each toss of the coin guarantees a loss. But when played alternately, the losing coins come up winning, time and time again.

Dr Abbott describes this as a "ratchet effect",

like shaking a bag of nuts to force the large ones to the top.

"Shaking is normally regarded as something 'bad' because it creates disorder, but in this case it is 'good' because the desired response is produced.

"In chess we can sacrifice pieces to win. Farmers know that sparrows can eat all the crops and insects can eat all the crops—but by having a mixture of sparrows and insects, some crops survive because the sparrows also eat the insects. In a similar way, mixing two losing games wins when there is a subtle link between them."

Dr Abbott said the implications for the further development of this theory were almost inexhaustible.

"We're now studying how to apply the mathematical theory we have developed, for these simple games with coins, to the economy and biology.

"It could help to answer financial questions, such as finding the best strategy for combining

high-risk shares and cash reserves in managing an investment portfolio.

"In biology, a population of animals contains a certain pool of genes, some of which are good and some bad. Considering probabilities that certain genes become expressed, in each generation, is rather like a gambling game.

"Some bad genes may become beneficial if there is a change in the environment," he said. "For instance, a DNA error causes sickle-cell anaemia and is common in West Africa where it also protects against malaria."

In politics, Parrondo's paradox may also be at work. Could a bad strategy be good in some cases? Does some notoriety and scandal increase Bill Clinton's popularity?

Dr Abbott said he believed Parrondo's paradox could also help explain one of the biggest mysteries of all time:

"One of the great mysteries is 'biogenesis', or how life began from a 'primordial soup' of chemicals. The problem is when simple amino acids were formed by chance, there would also have

been many other influences tending to destroy the order produced. Perhaps in the biogenesis of life Parrondian principles are at play, where life is formed via a 'ratcheting action' from the primordial soup. The game of life may well have been helped by the very influences we thought were destructive."

Former Adelaide University physics professor Paul Davies said he also believed that life must have started via a "molecular ratchet mechanism", but that we still need to fill in the details.

"Anything that clarifies how information and organised complexity can emerge from the randomness of molecular chaos will cast welcome light on this most profound of scientific mysteries. That is the significance of Parrondo's paradox, and the associated work of Derek Abbott," he said.

"Great discoveries change the way we see everything," said Dr Abbott. "Without a doubt, Parrondo's paradox has the potential to do that, because one of its main messages is that 'a little bit of badness is good'."

—David Ellis

Drew goes from big game safari to BIG student

WHEN you meet Drew Kluska you can't help thinking you've met him before.

At a B&S Ball at Glendambo, or exhibiting sheep at a Royal Adelaide Show.

He presents as your typical Aussie country lad, brought up on an Eyre Peninsula farm, sent to a city boarding school and educated as an Ag Scientist at Roseworthy.

While at Roseworthy, Drew befriended a fellow student from Kenya. He took up an offer to travel to Kenya, stayed with his friend's family and soon found himself working for a privately owned wildlife conservation park that hosted the "rich and famous" in five-star Safari-type bush accommodation.

From these locations discerning travellers are shown the delights and mysteries of the African bush.

Drew soon became the manager of one of the host properties and got to know the close network of travel wholesalers in the USA who specialise in providing exclusive experiences for the "high yield" discerning traveller.

These agents and Drew collaborated to establish a network of outback stations in Australia to offer their wealthy clients alternatives to travel experiences in Africa, Argentina and other world destinations.

Mindful of his need to develop some business acumen, Drew applied for a scholarship to the BIG (Business Initiatives from Graduates) pro-

gram at Adelaide University in 1999.

Today Drew Kluska Australian Safaris operates out of an office at the University's Thebarton Campus, where he manages the itineraries for his exclusive clients.

"Itineraries can span several weeks for small groups, visiting some very special outback locations throughout Australia.

"Our emphasis is on providing the visitor with a unique experience of the bush, hosted by the kinds of country families that I personally grew up with," Drew said.

His sister Megan is working for a major wholesaler in Atlanta. Megan is a marketing graduate, and her expertise is clearly evident in the quality of her travel proposals and individualised itineraries.

Drew's business is supported by the commercial arm of the University, Luminis Pty Ltd, where he receives assistance with business planning, mentoring and account management.

His long-term vision for the business is to have more ability to generate cashflow upstream on its value chain, meaning that he sees benefits in having more control over the actual services provided to the clients.

"Eventually we hope to own at least some of the travel destinations, as well as aircraft, specialised vehicles and the like.

"By doing that we can better maintain the quality of service and ensure that our Australian



Drew Kluska with Mrs Jane Fargher at the summit of Mt Micky, Nilpena Station via Leigh Creek, South Australia. Photo courtesy of Drew Kluska.

safaris are specifically tailored to the client," he said.

Drew Kluska Australian Safaris is a business that has a clearly identified niche market with a high yield and an established network of inter-

national wholesalers. This recipe for success is a model for other young entrepreneurs to follow.

—Paul Szuster
Business Development Manager, Luminis

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Child racism targeted

From Page 1

"But as children develop they become exposed to egalitarian attitudes, egalitarian values. So we felt that older kids, the eight and nine-year-olds, would be starting to differentiate between what they knew of society's representation and their own personal beliefs. And in fact that's what we found," Dr Augustinos said.

She said this work had major implications for anti-racism education.

"Around the age of seven, children's mental capacity increases considerably, their flexibility in thinking increases, and they start to realise that things they thought were true and written in stone are not necessarily the case.

"This has important implications because it suggests that there's a window of opportunity in the education system to encourage more egalitarian, tolerant views towards a variety of

groups in our society." It is also a more up-beat conclusion to the ongoing discussion of racism among children, she said.

"The research for many years has been quite depressing, because the results of all these studies have continually shown that five and six-year-olds had racist attitudes.

"But our conclusion is that what you see at that early stage isn't prejudice per se, but merely the child demonstrating their knowledge; they've picked up what the dominant societal norms and views are, and they're basically parroting them back.

"Older kids, however, have started to think about how they stand personally in relation to those societal beliefs. Some of them start to challenge those and develop beliefs which aren't consistent with the stereotype, and that's definitely good news."

—David Ellis

Double exposure a major drawback for students

DOUBLE degrees are changing the face of education at Adelaide University.

This year, more than 50% of new students enrolling in Adelaide's engineering degrees have elected to study a double degree.

Adelaide University now offers a wide range of double degree options, with combinations of Engineering and Science, Law, Finance, Economics, Maths & Computer Science and Arts, to name a few. Law can also be combined with other degrees such as Finance, Agricultural Science and even Health Sciences.

But what are the benefits of a double degree, other than just another set of letters that appear against your name when you graduate?

"The real advantages occur in the nature of the education which students receive, and the employment prospects which are opened up," said Professor Ian Young, Executive Dean of Engineering, Computer & Mathematical Sciences.

"In recent years it's been realised that engineers need many skills in addition to their technical skills. A competent engineer must be able to communicate technical views to the community and understand the diverse views of the community. They must work within a political framework where their actions may be controversial. Technological advances may have an impact on employment, the environment and the day-to-day lives of the community.

"A good engineer must understand these issues, whether they are political, sociological or environmental," he said.

The problem for educators is how to include these skills within already packed engineering courses, without reducing the technical competence of the engineer. Some other institutions have had to reduce their degrees' technical content to accommodate the additional material. Instead, Adelaide is encouraging students to broaden their education by enrolling in a double degree.

Professor Young said the end result is enhanced employment prospects.

"Graduates can enter the work force as articulate and well-rounded individuals. They have both the technical skills of

the engineer as well as the questioning and critical skills gained from a humanities or science degree. Alternatively, they may have the financial acumen obtained from economics or finance, enabling them to use their quantitative engineering skill in business."

The ability to develop skills in different disciplines and gain exposure to a range of educational techniques is a major asset, according to the Executive Dean of Humanities & Social Sciences, Professor Malcolm Gillies.

"University studies have often been depicted as a choice between arts and sciences. That world, where one had to choose between the Arts way and the Science way, or between professional and generalist training, led to a split world, with its citizens tending to see the world through alternative frames of reality," he said.

"Today, many of our students realise that there is a need to gain high-level skills on both sides of that artificial Arts/Science fence—to be both a linguist and an engineer, a geographer and a research biologist, a historian and a physicist."


Just as the days of the technology-illiterate Arts graduate are over, Professor Gillies said, so are the days when engineers or scientists can escape from facing the ethical or social consequences of their professional activities.

"This is why combinations of other degrees with Arts are among the highest sought after of the double degrees. Law/Arts has been popular for many years, through the common realisation that a knowledge of the human condition or of the nature of society is really very important for an aspiring lawyer.

"More recently, Engineering/Arts degrees have become very popular. What those Arts subjects provide is a quality education in analysis of human and social situations and a training in the articulation of ideas in written, spoken and, sometimes, graphic media.

"At Adelaide University we are seeking to expand the range of combined studies so that Arts students have an increasing range of parallel studies, and students in other faculties do not need to drop their love of humanities or social studies as they enter the University's gates."

—David Ellis



Heather Griffith is now in her fifth and final year of a double degree in Civil & Environmental Engineering and Arts, majoring in German.

"When I finished high school I wanted to study engineering but I didn't want to give up German," she says.

"At the time I started engineering it wasn't very flexible in terms of electives to choose from—it was mostly just engineering and engineering-related subjects. So the double degree has given me the chance to continue studying German, which is very important to me."

Heather says being able to study arts as well as engineering has added breadth to her education. She's also found her studies to be more personally rewarding.

"I think the first two years of study would have been more difficult if I hadn't taken this option, because it would have been engineering and nothing else," she says.

"It's refreshing to be able to go from an engineering lecture to a German lecture, and even though I've had to overload at times, there's been a good balance between the two."

Heather's chosen career is engineering, but she says her studies in German will always be an important part of her time at Adelaide University.

Robots, God and the true Meaning of Life



Dr Anne Foerst, Dr Derek Abbott and Professor Paul Davies. Photo: John Drislane.

IN A WORLD of ever-more intelligent and interactive robots, what does it mean to be human?

If a computer can defeat the world's best chess players, is there anything "special" about us any more?

These were among the questions addressed by visiting theologian and computer scientist, Dr Anne Foerst, at a seminar in the Department of Electrical & Electronic Engineering last month.

Dr Foerst, Director of the God and Computers project at the Massachusetts Institute of Technology (MIT), focused on two robots currently being developed at the Boston centre.

The robots, Cog and Kismet, are part of an emerging camp of behaviour-based, biologically-inspired "embodied artificial intelligence". One robot, Cog, is equipped with a

"face" capable of making recognisable "human" expressions.

Dr Foerst argued that science alone was incapable of defining personhood. She explored concepts of personhood from the Jewish and Christian perspective and examined whether insights from Artificial Intelligence and the religious traditions could influence and enrich each other.

Her address, *On The Personhood of Humans and Robots—Where Theology and Engineering Meet*, was introduced by Professor Paul Davies, Visiting Professor at Imperial College London.

The seminar was hosted by Dr Derek Abbott, Director of the Centre for Biomedical Engineering. The Vice-Chancellor, Professor Mary O'Kane, was among the attendance of more than 160.

Languages are on the rise

RECORD numbers of people are studying languages at Adelaide University this summer.

Enrolments in intensive language courses run by the Centre for Professional and Continuing Education's (PCE) Summer School program have jumped from 39 last year to 111, with European languages (French, Italian and Spanish) recording the biggest increase.

Numbers studying Japanese and Chinese Mandarin are also up.

The Summer School's total enrolments (including bridging courses) have risen from 81 to 200.

PCE Director Ms Liz Pryzibilla attributed the increase to better marketing.

"Our focus on more targeted marketing has helped to lift the Summer School's profile," she said.

"We've had radio as well as press coverage and distributed our brochures and flyers in a much more targeted way."

Those enrolled in the 10-week courses include business men and women, international students and a range of people simply seeking a fresh mental challenge.

Ms Pryzibilla said the Summer School program complemented the University's other language

courses and often led to longer term study.

The PCE language program features a range of courses in 12 languages. This year, Portuguese has been included for the benefit of Australians planning to participate in the rebuilding of East Timor.

Ms Pryzibilla said developing an extensive Summer School program was an important part of the University's strategic plan.

"PCE is positioning itself to be the provider of the Summer

School. We want to work closely with all Faculties and use our expertise in marketing and administration to expand the range of courses on offer."

Ms Pryzibilla said Adelaide University's growing popularity as a provider of PCE courses was based on the quality of its teachers and resources and its ability to attract highly-motivated students.

Alumni of Adelaide University are entitled to discounts on all PCE courses.

—John Drislane



COMMENTARY

COMMERCIALISING RESEARCH

From Page 2

Each project is carried out in teams of six participants. No more than two members of each team can be drawn from one country. Apart from the United States and Australia, another partner university is based in Mexico with a European partner to follow soon. Adelaide University has been charged with taking the program into Asia and the Pacific, and it is expected that Latin American partners will also be added to the program this year.

Students collaborate in global teaming using a methodology developed especially for the program, which is taught at the inaugural class meeting in Austin. This meeting also provides opportunities for the international class members to meet each other and immerse themselves in the exciting innovation and venture capital climate in Austin. Global teaming takes place using a variety of communication methods, ICQ chat rooms, e-mail, telephone and videoconferencing. Students use these technologies to overcome the handicaps of time difference and location. But they are also confronted with overcoming challenging obstacles in cultural values, workstyles and language to make teams work. This is an invaluable educational experience in its own right.

The program is taught intensively in resident meetings held monthly in Adelaide. The project-based unit is taught by international videoconferencing in these meetings, along with the support subjects. The face-to-face teaching will be complemented by on-line provision of course content assignment and an array of learning and administrative support facilities. In the first semester this year, teachers in the program include Professors Reg Coutts, David Corkindale, Michael Evans and Cliff Walsh. Workshops and seminars on related topics drawing on the experience of a stellar array of guest speakers are also held in the monthly meetings. The Adelaide program will utilise state-of-the-art educational technologies currently being established in the old AITEC video conferencing centre on the North Terrace Campus.

A practical, rigorous training in commercialisation is at the heart of the program, but participants also have access to extraordinary networks of commercialisers and venture capitalists. Austin has established an amazing list of partner companies and research-centred organisations including all of the top IT companies, the US Department of Defence and a growing list of resource, pharmaceutical, biosciences, medical and biotechnology research companies and key venture capital organisations, including networks of 'angels'. (See the list at the web site at: <http://www.utexas.edu/depts/ic2/msdegree/orgs.html>, and explore the website). We are also building up an impressive list of Australian companies, university and publicly funded research bodies to bring to the network. To this must be added the continuing association with the program's impressive alumni and the links of current students.

Be assured, this is only the beginning of what needs to be done. Commercialising skills are a key competency for the winner nations in the emerging knowledge economy, as is their capacity to build strong global partnerships. All PhD students in science and technology need to know how to commercialise intellectual property. This will require special training. But to be truly effective in developing these skills within our community, enterprise education cannot be the exclusive province of graduate studies. Our undergraduate students need greater access to skills in entrepreneurship and commercialisation and so does the community at large. That issue presents an important future challenge for this great university.

Dr Adrian Graves

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Limericks to the power of one

One of the world's most eminent mathematicians, Professor Martin D. Kruskal, is on a two-month visit to Adelaide University.

Also known for his talents as an origamist and limerick writer, Professor Kruskal is working on a series of joint projects with Dr Nalini Joshi in the Department of Pure Mathematics.

Dr Joshi, an Australian Research Council Senior Research Fellow, was one of Professor Kruskal's postgraduate students at Princeton University in the 1980s.

To mark his arrival and celebrate his 75th birthday, the University hosted an integrable systems conference last month attended by more than 40 delegates from Australia, Europe, the United States and Asia.

Professor Kruskal has been Professor of Mathematics at Rutgers University in New Jersey since 1989. He spent most of his career at Princeton where he is Professor Emeritus of Astrophysics and Mathematics.

His discovery (with Norman J. Zabusky) of solitons in 1965 was an outstanding early success of scientific computation. Solitons are nonlinear waves that act like coherent particles and are used in carrying messages over fibre optic cables.

In 1993, Professor Kruskal received the National Medal of Science from President Clinton for his contributions to nonlinear science.

Over the past 50 years, he has worked in a diversity of fields, including plasma physics, thermonuclear fusion, astrophysics and number systems. His dogged questioning of accepted beliefs has become a hallmark of the Kruskal approach.

"I find that, at a fundamental level, a great number of things are—in some sense—wrong with the beliefs or mindsets of people in any field. I mean, you can find better ways.

"In almost every field there's the potential for revolutionary change at the foundation. I find that in most fields—even well developed ones—there are some elementary questions that have not been answered. There are holes there, missing results.

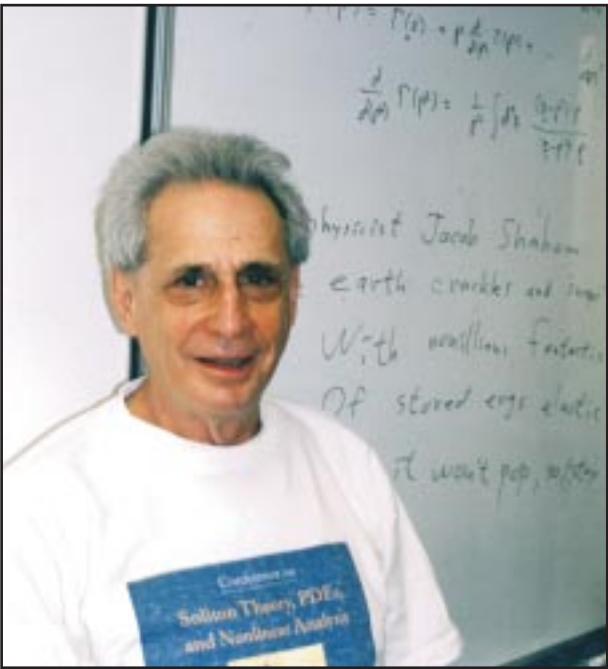
"That has been found to be true in a general sense. Fields have been reworked from their foundations up. There have been revolutions in mathematical logic, for example."

An example he cites is surreal numbers ("my consuming passion"), a number system discovered by John H. Conway of Princeton.

"I sound like a crackpot when I talk about it, but it's an astounding thing. No one would have dreamed it. He (Conway) has discovered a number system that absolutely revolutionises the concept of numbers. It's better, it's more inclusive and it's simpler than what we've been using.

"You wouldn't believe there could be any advance in numbers at this stage—we thought we understood everything about elementary numbers. The reason it's hard to believe, maybe, is because we're not used to questioning the perceived wisdom in any field.

"Probably more than most people I tend to question things that are taken for granted. But often things are taken for granted



Professor Kruskal. Photo: John Drislane.

ed that are not ever stated at all; they're just implicit in the way people think. Then it's not so easy to think of questioning them."

Professor Kruskal is wary of crystal ball gazing about future advances in science.

"The history of science, and intellectual endeavour in general, is that there is an enormous number of new things all the time that we haven't reckoned on: there's no end in sight.

"Over the years, many top people have been quoted as saying things like: 'all the fundamentals in physics have been discovered and the rest is just working out the consequences, the technology, the engineering and so on'. This was said just before relativity was discovered, just before quantum theory ..."

Outside the field of mathematics, Professor Kruskal is noted as an origamist and limerick writer. His mother, Lillian Oppenheimer Kruskal, founded the Origami Center of America, his wife Laura Kruskal is an internationally known and published origami creator and teacher who taught some of her models to the conferees last month, and he himself has invented some strikingly original folds.

Many of his limericks have been written for scientific gatherings to introduce speakers and summarise their presentations. A favourite is:

*To physicist Jacob Shaham
The earth crackles and snaps like a bomb
With nonillions fantastic
Of stored ergs elastic -
He thinks it won't pop, so stay calm.*

—John Drislane

Want a piece of history?

We have 50 copies of *The Advertiser* newspaper's final edition for 1999 and its first edition for 2000 to give away.

These historic issues come packaged in a collectors box for easy storage.

Both copies of the paper contain advertisements from Adelaide University, looking back at our 125 years and looking forward to the future.

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

The Advertiser 1999/2000 Collectors Editions are only available while our stocks last.

Constance Gordon-Johnson 1950-2000

It is with sadness that I record the death on 21 January of Constance Gordon-Johnson, in a car accident in the Barossa Valley.

Constance was an artist and designer who undertook a variety of projects for the University from the early 1990s.

A notable example of her work was the design and construction of the "International Impacts" exhibition, commissioned to mark the contribution of international students to the University since the 1950s.

The exhibition was opened in the Union Gallery by Datuk Dr Sam Abraham on 5 July 1995, and displayed there for one month before moving to the Barr Smith Library. It was subsequently transferred to Malaysia for the opening of Sepang Institute of Technology in April, 1996 and remains at SIT on periodic display.

Recently, Constance made the colourful lamé bows which adorned the Bonython Hall lions and the statue of Sir Thomas Elder during the University's 125th anniversary festivities last December.

Constance had a wonderful gift for lateral thinking which showed in her design solutions. She was down-to-earth, engagingly irreverent and a joy to work with. She is sadly missed.

John Edge
Manager
Media Marketing & Publications Unit

Architecture Chapter

THE Architecture Chapter of the Alumni Association is happy to play its part in the University's aim of reaching out into the wider community.

Towards the end of last year there were two fortunate happenings. One was the initiation of Chapter activities at the forthcoming Adelaide Festival in collaboration with the University's Faculty of Architecture, Landscape Architecture & Urban Design and the SA Chapter of the Royal Australian Institute of Architects (RAIA).

The other was the filling of the long-vacant Chapter Chair by Adelaide-based architect Norman Sheun. Norman's organisational skills and his contacts with the local and international community will be a considerable asset in revitalising Chapter activities and constructing bridges between architecture, the Faculty and the University on the one hand, and the "world out there" on the other.

Professor Tony Radford and the RAIA in association with the Alvar Aalto Foundation in Finland have been working towards the mounting of an exhibition of Australia, light-weight houses as part of the 2000 Telstra Adelaide Festival.

As an adjunct to this event the Architecture Chapter will be involved in a series of guided interviews with six Australian architects whose work is featured in the exhibition. In discussion with high-profile interviewers these architects will talk about their design philosophy and processes in the context of their professional practice.

These *Conversations* will be mid-afternoon sessions to be held at the Fezbah of the Festival Centre, Adelaide. They should be stimulating and of interest to architects, allied professions, students and members of the design-aware general public.

Norman and I invite anyone with an interest in the above to join in and experience the creative energy of these Festival sessions (check the local press and Festival programs for details).

—Albert Gillissen

CORNELL CHAPTER

Festival Lunch

On Thursday 9 March the Cornell Chapter (Arts and Performing Arts alumni) presents Andrew Ford, composer of *Festival Opera Night* and *Dreams* at lunch in the Hoods Room, Adelaide University Club at 12.30pm.

Phone bookings essential with Julie Vozzo, 8303 5800.

Cost: \$18 - Wine and beer available at bar.

Wednesdays at One

The Friends of the State Library's popular "Wednesdays at One" series of talks, held on the first Wednesday of each month, continues on 1 March.

"Books In My Life" is the subject, with Mr Adam Wynn being the first speaker for the year.

Mr Wynn is owner and chief winemaker of Mountadam Winery in SA and an exporter of his own line of gourmet foods to Japan.

Venue: lecture theatre, Institute Building, corner of Kintore Avenue and North Terrace. Time: 1-2pm. Admission: \$6, or \$4 for members of the Friends of the State Library.

Alumni a treasured asset: director

RACHAEL OLIPHANT has been appointed to the new position of Director, Alumni & Community Relations at Adelaide University.

Ms Oliphant comes to the role with a wide range of experience both in Australia and overseas, including employment at Oxford University's development office.

She holds a Bachelor of Arts (First Class Honours) from the University of Melbourne and a Master of Arts (First Class Honours) from Monash, and has worked at universities in the UK, South Australia and Victoria.

"I'm pleased to report the appointment of Ms Oliphant to this challenging and exciting role," said the Pro Vice-Chancellor (Internationalisation & Development), Dr Norman Ashton.

"She has outstanding experience at the university level and is a welcome addition to Adelaide University's alumni operations."

Ms Oliphant, who began work at the University this month, said she was looking forward to developing stronger ties with the University's alumni.

"Adelaide University, in striving for excellence in an increasingly competitive educational environment, can have no better allies than its alumni and community partners," she said.

"The University's good relationships with its alumni and with the wider community are among its most valuable assets and are crucial for its advancement.

"These relationships can also be of value to its



New Alumni & Community Relations Director Ms Rachael Oliphant. Photo: David Ellis

graduates and the community.

"The University, as a place of academic endeavour, research, teaching and educational resource, has much to offer its supporters."

Ms Oliphant said she was fortunate while in Oxford to have seen first-hand the value of forging ongoing, mutually beneficial relationships with alumni, benefactors and the wider

community.

"I look forward, in my role as Director of Alumni & Community Relations, to developing new relationships and building on existing ones for the mutual benefit of the University, its supporters and its future generations of graduates," she said.

—David Ellis

Dunstan's memory honoured and celebrated

IT'S NOW one year since the passing of the late, great Don Dunstan, and around 130 people from the University and the wider community honoured and celebrated Don's memory at a Long Lunch on Sunday 6 February.

The event, organised by the Don Dunstan Foundation, also celebrated the first year of the Foundation's operations and served to launch its program for 2000.

The Long Lunch was held in the banquet room at the Adelaide Festival Centre, and guest speakers included Foundation trustees Telstra Adelaide Festival Director Ms Robyn Archer and Adelaide Lord Mayor Dr Jane Lomax-Smith.

Foundation Chair the Hon. Greg Crafter said the first year of the Dunstan Foundation had been a successful one thanks to the immense support received from many individuals who had given openly and generously, "either of their time, their money, their services, or in many cases, all of these!".

The Foundation strives to achieve Don's vision of a more tolerant and caring society through its many activities, including the support of education and research.

Within just the first 12 months, Mr Crafter said the Foundation had been extremely busy, establishing chapters in South Australia, Victoria and New South Wales, announcing an inaugural Postgraduate Research Scholarship, providing sponsorship for two conferences, participating in community events, establishing a mailing list of more than 1500 supporters, and announcing major fundraising events and sponsorship to coincide with the Telstra



Adelaide Lord Mayor Dr Jane Lomax-Smith, the Hon. Anne Levy, New Zealand Trade Commissioner Mr Denis Stollery and the inaugural winner of the Don Dunstan Postgraduate Research Scholarship, Ms Sonya Meziniec at the Long Lunch. Photo: Michelle White.

Adelaide Festival 2000.

One such event is the opening night of a new work by international dance theatre company Les Ballets C de la B.

This collective of nine Belgian dancers, directed by Alain Platel, will perform *iets op Bach* on Friday 10 March at the Festival Centre. The work is a tribute to Bach in his 250th anniversary year.

The Don Dunstan Foundation has a block of 'A Reserve' tickets to the opening night performance and will be hosting an after-show party with members of the cast and Robyn Archer.

Tickets are \$65 each and can be ordered through the Foundation by calling Alison on (08) 8303 3364. Anyone interested in this once-in-a-lifetime event should act soon, as tickets may not last.



Women @ Work



WOMEN @ WORK is a collection of 22 black-and-white photographs produced by Adelaide photographer Jennie Groom.

After meeting Julia, a motor mechanic, Jennie came up with the idea of taking environmental portraits of women working in non-traditional jobs.

"I wanted to use my photography skills as a tool for making a contribution to society in a positive way," she said.

"Visually reinforcing the wide variety of careers available to all women was particularly appealing to me.

"There are so many more employers accepting women into the non-traditional jobs now and are very supportive of them."

Included in the exhibition is a truckie, a judge, a plumber, a priest, a butcher and a builder. Two of the featured women are former Adelaide University students, and another is current staff member Ms Sharon Clapham, video conference coordinator with the Image & Copy Centre.

Jennie Groom is an award-winning photographer who also worked in the former Educational Technology Unit at the Waite Campus.

Her exhibition is open for the duration of the Adelaide Fringe Festival, from February 24 to March 19, in the lobby outside the Working Women's Centre, First Floor, Station Arcade.

Musician's heirlooms play a special tune

A BOX of century-old heirlooms has thrown new light on the man who gave the Elder Conservatorium its first home, first students and first teachers.

The heirlooms—the latest additions to Adelaide University's Heritage Collection—include photographs and other mementoes relating to the life of Immanuel Gotthold Reimann, born at Hahndorf, South Australia, in 1859.

A gifted pianist, Reimann started his own music school—the Adelaide College of Music—in 1883, 15 years before the Elder Conservatorium was established.

It was so successful that, within a few years, Reimann had to recruit more teachers from overseas. (By 1896 the College had attracted 250 students).

In 1898, a bequest from Sir Thomas Elder to the University of Adelaide led to the establishment of the Elder Conservatorium. The new institution began without premises, staff or students, but Reimann's deep love of music helped it to overcome these difficulties.

Without receiving any financial compensation, he handed over his college (located at Wakefield Street) along with all his students and teachers. He was appointed the Conservatorium's principal teacher of pianoforte and held the position until his death in 1932.

The material donated to the University from the Reimann estate includes photographs of Reimann's original study at the Conservatorium, music scores he used while teaching, a rare copy of a student's sessional record book and the score of an original composition by his wife Maria.

Some of the mementoes testify to his popularity as a teacher. There is an engraved silver tray presented to him in 1891 and an elaborate testimonial (1898) with colour illustrations by Rose Fiveash, a noted South Australian botanical artist. Both were gifts from grateful pupils.

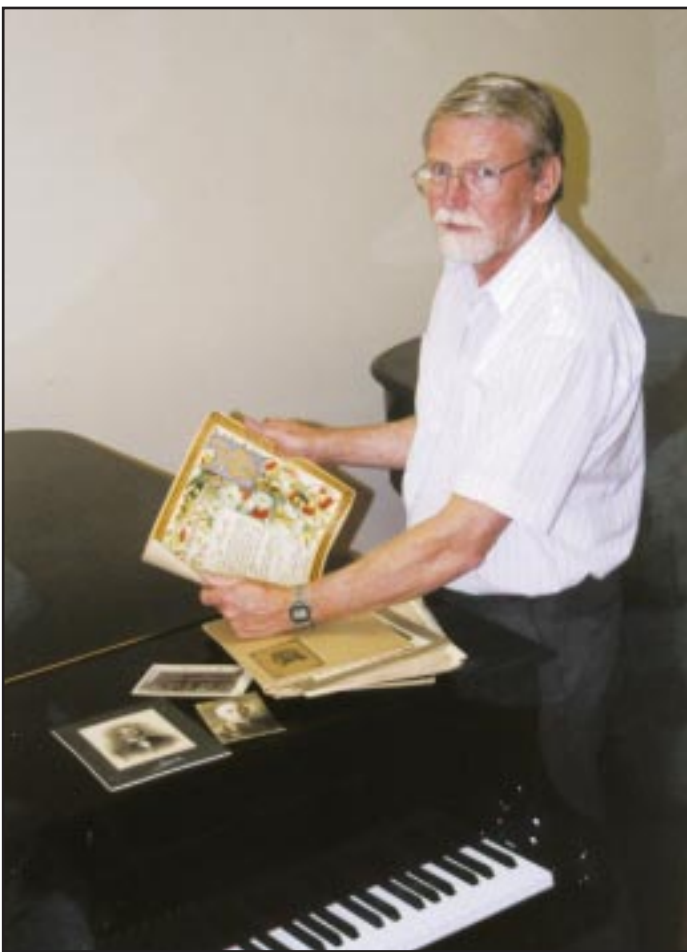
Mr John Perkins, Curator of the Heritage Collection, said the University was very pleased to have received the material.

"One of the functions of the Heritage Collection is to help the University community to remember great teachers, scholars and scientists, and their achievements," he said.

"Reimann is a significant figure in the history of the Elder Conservatorium but we've had very little material on him until now."

The University's Performing Arts Librarian, Mr Gordon Abbott, brought the items to Adelaide after being invited to examine a range of Reimann estate material in Brisbane.

—John Drislane



Heritage Collection curator John Perkins with the Reimann heirlooms. Photo: John Drislane

Kurtag premiere headlines ASQ program

MUSIC LOVERS will be happy to hear that the Australian String Quartet is this month launching its year 2000 season.

The ASQ starts its Adelaide season on Tuesday 15 February in the Elder Hall at 6.00pm.

Its first concert of the year includes the Australian premiere of György Kurtag's *Officium breve in memoriam Andrei Szervansky*.

Kurtag is one of the most important figures in late 20th century composition. His works are intensely personal, displaying vivid emotion expressed with purity and economy.

According to 2nd Violin James Cuddeford, this is "possibly the most exciting work for string quartet

from the last 100 years". The ASQ claim a direct link with Kurtag as Cuddeford studied with him extensively.

Also on the program is Mozart's "Hoffmeister" Quartet (K499), Henry Purcell's Chaconne in G minor, and the String Quartet no 2 in C of Benjamin Britten.

Bookings can be made through BASS on 131 246, or tickets available at the door.

Last year the ASQ managed to perform in some fairly unusual venues. An outback tour included performances in a creek bed at Clayton Station, at the Outaminka bar in the Innaminka Pub, and in the Hard Rock Cafe at Olympic Dam—some 300 metres underground!

More recently, the group set out from its base at Adelaide University to perform in the Bull and Ram shed on a Mount Pleasant property. If the music was European, the evening itself was quintessentially Australian, with cockatoo shrieks counterpointing Haydn's deliciously skittish quartet Opus 64, no 6, in E-flat.

Leader Peter Tanfield declared the performers to be as delighted with the evening as were the consumers, and he promised other interesting venues for 2000.

Further enquiries about the ASQ can be directed to Stephen Block on (08) 8303 3748 or email <sbloock@pa.adelaide.edu.au>.

—Jane Southwood
—Stephen Block

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EASTERN SUBURBS: Fully furn & equipped, 2 br and 3 br apartments. Avail from mid Feb. Close to Uni, transport, shops. Suit visiting academics. From \$270 pw (depending on how many people, term). Ph 8332 4814 or email: <dryland@senet.com.au>.

FRANCE: The Loire Valley (heritage and wineries). Character house, views, 55 mins from Paris by TGV, suitable for max. 5 people, weekly or longer rental, car avail. Ph/fax 8365 1078.

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GAWLER: Share accomm for responsible, tidy female in modern house close to shops and Roseworthy campus. \$70 pw + expenses. Ph (08) 8522 7165.

GAWLER: 3 br, close to

shops, main st, mins to train & Roseworthy bus. Modernised cottage, furn, lge living rm, detached br. Share rent \$165 pw + exps with current occupant. Ph (08) 8522 1550 ah or email: <peter.blackburn@roseworthy.adelaide.edu.au>.

GRANNY FLAT: 3kms to Uni & Waite Campus. 1 br, fully furn, no carport, close to transport, excellent area. \$100 pw. Refs & bond essential. Ph 8271 3386.

HOUSE SITTER: Non smoking, working, reliable single woman available. Excellent Uni refs, will care for pets, garden. Ph (08) 8562 8167.

NEW ZEALAND: Home (3 br, 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: Private/secure 3 br townhouse, b-in robes, r/c air

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cond, l-u garage, private courtyard. \$280 pw. Ph 0411 507 930.

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

WANTED: Unfurn house required for academic couple from end of Feb for 1 year. 2-3 br, garage and rear yard essential. Email: <jeremy.timmis@adelaide.edu.au>.

WANTED: Visiting academic requires furn house for family of 4. Prefer Eastern suburbs from Feb/Mar - July 00. Ph 8379 3108 or email <claussen@picknowl.com.au>.

WANTED: Visiting surgeon and family (5 children) require quiet furn home close to primary school from 22 Feb for 2 years. Ph Barry 0417 813

879 or 8362 6828 ah or email <barrylmb@chariot.net.au>.

WANTED: Billets urgently required for visiting young composers in Adelaide for the Festival. Ph Grahame 8344 8008.

WANTED: Visiting academic and wife require furn flat/unit/house from 21 Feb to approx June 00. Prefer walking distance from Uni. Ph Dinah Ayers 8303 5475.

FOR SALE

LAPTOP: Pentium 120, 1.4 HDD, 15 MB RAM, colour display, sound, exc cond. \$980 neg. Ph 8338 4152.

MISC: Double mattress, cot, baby capsule, pram, drier, bicycle. Ph 8338 4152.

MISC: His & Hers mountain bikes, very little use,

\$60 ea or both \$100. 486DX 66 computer, 20 MB RAM, 2.4 GB HD, Windows 95, CD, floppy drives, ext modem, printer, \$300. Codan 7727B mobile transceiver with all accessories, \$800. Trailer, 6x4 steel, reg to May, \$150. Ph 8295 1611 or 0419 814 120.

MISC: Double bed, wooden posts with iron detail, 3 years old, good cond, mattress, \$250 ono. Classical guitar, in great cond, including stand, tuning fork, footstool, spare strings, soft carry case, \$150 ono. Ph Lisa 8278 1664.

MISC: Lounge suite, 2.5 seater and 2 x 1 seaters with floral design, as new \$1,000. Wardrobe, \$70. Bookcase, \$30 ono. Ph Evan 8303 6738 wk or 8271 3184 hm.

OFFICE DESK: Lge wooden desk 183cm long x 89 cm wide x 76cm high with 4 drawers, in good cond. \$150. Ph Chris or Dianne 8303 5663.

PRINTER: Desktop Hewlett Packard Laserjet 4L, little use, \$290. Ph 8379 4243.

PRINTER: Personal Laser 300 for Macintosh. \$150 ono. Ph John 8363 9198 or email: <jraftery@camtech.net.au>.

SILK PIECES: Lge round tablecloth with waterlilies; smaller round tablecloth with goldfish & waterlilies; 3 piece screen with peacocks. Ph 8303 5857.

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NANNY: Fully experienced in home-based & centre-based child care. Refs & Police clearance available. Reasonable rates, flexibility guaranteed. Ph Louisa 8362 2773.

Bulletin Board

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ADELAIDE UNIVERSITY

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New Project Endeavour member

Adelaide University's new information management systems will affect academic staff more than many realise, according to Fiona Kerr.

Ms Kerr, recently appointed as the University's Change Manager working primarily with the Project Endeavour team, said there was an understandable tendency for academics to believe that the changes would impact mainly on administrative staff.

Yet the implementation of the new student administration system commencing in the middle of the year will have a direct effect on various aspects of working in a Faculty such as access to information, support structure, resource needs, required skill mix, communication with central administration.

"Bringing all parts of the University community along in such a large project is vital if we are going to gain maximum benefit from such a venture," Ms Kerr said.

"So far the impact of the new systems has been experienced most strongly in financial operations, but Faculties will feel the changes increasingly across other areas of their work during 2000.



Fiona Kerr. Photo: John Drislane

"My major role is ensuring that the strategies and actions are in place, both within the project and outside it, to help people to adapt to new technology. A large part of that is communicating why the changes are needed, how they affect

staff and the benefits they can bring once we get used to them. People then need support to use the new systems most productively."

Ms Kerr worked previously as a change management consultant on the restructuring of the University's Staff and Student Services Division. She is attached to the office of the Division's Executive Director, Ian Creagh.

Over the next year, she will devote 80% of her time to Project Endeavour, the other 20% being a change management role across the University as an adviser on facilitating successful change in local areas.

"The advantage of dividing my time is that I will be able to stay abreast of the other large cultural changes taking place within the University," Ms Kerr said.

"It's important that Project Endeavour doesn't proceed in isolation from everything else. It's the biggest organisational change that the University's senior managers have ever backed.

"This level of sponsorship—and the level of resources being provided—is what sets Project Endeavour apart from previous organisational changes at the University."

COMING EVENTS

14 FEBRUARY

12 noon IMVS/HCCR Seminar: Tyrosine Phosphatases in Health and Disease by Dr Ben Neel (Beth Israel Deaconess Medical Centre, Boston, USA). Verco Theatre, IMVS.

18 FEBRUARY

12noon IMVS/HCCR Seminar: M Ras and oncogenic friends; what can we be sure of about Ras? by Professor John Shrader (Biomedical Research Centre, University of British Columbia, Vancouver, Canada). Verco Theatre, IMVS.

4.00pm Obstetrics & Gynaecology Seminar: What really changes during development of the pituitary/adrenal axis? by Dr Jeffrey Schwarz, Department of Physiology. Seminar Room, 6th Floor, North Wing, Medical School, Frome Road.

25 FEBRUARY

4.00pm Obstetrics & Gynaecology Seminar: Estrogen and calcium on osteoporosis by Associate Professor Howard Morris, Clinical Chemistry, IMVS, Adelaide. Seminar Room, 6th Floor, North Wing, Medical School, Frome Road.

Women's Professional Development Network

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

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

COMING EVENTS

Breakfast

- 8am on Tuesday 15 February at the East Terrace Continental (with special guest Fiona Kerr)
- 8am on Wed 15 March, see web site for venue

Lunchtime Workshop - Wednesday 1 March

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

Project Odyssey upgrades network

More than 600 kilometres of computer cabling at Adelaide University will be replaced over the next 18 months as part of a major upgrade of the University's high-speed data network.

The upgrade—known as Project Odyssey—will bring a tenfold improvement in the speed of network communications within and between campuses and three of the teaching hospitals.

The Director of the University's Information Technology Services, Mr Peter Nissen, said the multi-million dollar project was "an investment in the future".

"What we are doing is going back to square one and replacing almost every piece of cable and every piece of networking equipment," he said.

"In 1987 Adelaide was one of the first

Australian universities to introduce a high-speed data network. The network has developed in a piecemeal way since then, so this is an opportunity to redesign the entire infrastructure. It's something not many Australian universities have been able to do."

The first benefits of Project Odyssey will be evident as early as the end of this month. New microwave links will speed communication significantly between the North Terrace and Roseworthy campuses and North Terrace and the Queen Elizabeth, Lyell McEwin and Women's and Children's hospitals.

Over the next 18 months, as part of the upgrade, computer sockets and connections will be replaced at 5000 desk tops across the University.

Mr Nissen said the project team would be consulting with all areas of the University to plan a work schedule and ensure that disruption was minimised.

Information sessions on Project Odyssey will also be held across the University in the first half of this year.

Following a competitive process, the University has appointed an international consortium of companies to undertake the project.

The participating companies are Logical Networks (South Africa), Cabletron Systems (USA) and Data and Voice (Australia).

More information is available on the Project Odyssey website: <<http://www.adelaide.edu.au/ITS/Odyssey>>.

Observatory Child Care Centre

Are you looking for child care services?

The Observatory Child Care Centre at Adelaide University provides quality child care for staff and students of the University, as well as the general community.

The centre caters for children aged from six weeks to five years, with full-time, part-time and sessional care available according to vacancies.

Vacation care is also now offered for children up to and including 5-12 years, with exciting programs specifically written for those students.

The centre prides itself in quality care for children, and has received the highest level in the National Quality Improvement & Accreditation system (ie, three years Accreditation).

The Toddlers, Babies and Administration areas are located in the original Observatory Building at Adelaide University's North Terrace Campus. Completely renovated in May 1991 and again in January 1997, the facilities are excellently maintained.

Part of the Johnson Building, also on the North Terrace Campus, now houses the Kindy children.

Vehicle access is via Gate 13 off Kintore Avenue (for the Observatory) and Gate 12 off Victoria Drive (for the Johnson Building).

Parents and children are welcome to visit the centre to discuss their child care needs. If you have any enquiries, please contact the Director, Ms Robyn Moore, on 8303 5429.



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 vacancies are not restricted to members of the University.

POSTDOCTORAL FELLOW IN MOLECULAR BIOLOGY

(Ref: 10109) (Fixed-Term)

Department of Applied and Molecular Ecology

Salary: \$43,584 - \$46,786

The position is available immediately for a period of two years in the first instance. Further information, including the selection criteria, may be obtained from Associate Professor JW Randles, telephone (08) 8303 7353, facsimile (08) 8379 4095 or email: <john.randles@adelaide.edu.au> or Dr MA Rezaian, telephone (08) 8303 8634, facsimile (08) 8303 8601 or email: <ali.rezaian@pi.csiro.au>.

Applications close 10 March 2000.

EXTERNAL RELATIONS OFFICER

(Ref: 10110)

Faculty of Engineering, Computer and Mathematical Sciences

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

Further information, including duty statement and selection criteria, may be obtained from Anne Casaretto, telephone (08) 8303 4700, email anne.casaretto@adelaide.edu.au.

Applications close 18 February 2000.

BUSINESS MANAGER

(Ref: 10107) (Fixed-Term)

Salary: HEO7 \$43,478 - \$48,779

CENTRE SECRETARY

(Ref: 10108) (Fixed-Term) (Part-Time)

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

These fixed-term positions are available from 1 March 2000, for an initial period ending 31 December 2002, with the possibility of extension for a further six years. Further details about the duties of the positions, including the duty statements and selection criteria, may be obtained from Professor Robert Saint, telephone (08) 8303 4043.

Applications close 18 February 2000.

ADMINISTRATIVE OFFICER

(Ref: 2124)

Departments of Paediatrics and Obstetrics and Gynaecology

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

This continuing position is available immediately. Further information including the duty statement and selection criteria, may be obtained from Dr Maree O'Keefe, telephone: (08) 8204 7452 or fax: (08) 8204 7031.

Applications close 18 February 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

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

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

GENERAL
NOTICES

Car Parking - 2000 Permits

The issuing of parking permits for 2000 is experiencing delays due to the unreliability of the old car parking management software and the resultant records.

The condition of the car parking records has also meant that not all permit holders received a letter regarding the change in the process. The non receipt of a letter will not prejudice any renewal.

An application is required (including from 1999 permit holders) for each and every permit and can be made at <<http://www.psb.adelaide.edu.au/>>. There are now separate forms for staff and student permits. Each applicants' renewal information is checked, advice of acceptance and payment details (where applicable) is issued by return email and Chubb are instructed to issue the appropriate permit.

Existing 1999 car parking permits will be valid until the renewal process is complete.

General announcements will be made when this occurs including a final cut off date for the use of the 1999 permit. If you have received your 2000 permit please destroy your 1999 permit.

Many staff have sought transfers from Frome Street or 251 North Terrace to the Campus. New on campus permits can only be issued for extenuating circumstances due to a lack of spaces on the North Terrace Campus.

For enquiries regarding Expiation Notices please call Chubb Traffic Management on 8400 6690.

For enquiries regarding parking permits please call Carl Bradney on 8303 4673.

JOHN LARWOOD
Manager Projects and Facilities

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 information on the Departmental Learning and Teaching Awards 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 Deputy Vice-Chancellor'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 in relation to the Stephen Cole the Elder Prizes for Excellence in Teaching 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>.

Missed the deadline?

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

Journal Launch

DEPARTMENT OF ENGLISH

"Altitude" is a new electronic journal focussing on postgraduate writing in textual and cultural studies by Ms Emily Potter and Robyn Tucker (postgraduate students). Thursday 9 March, 6.00-7.00pm, Writers' Cafe, Writers' Centre, 187 Rundle Street, Adelaide.

OH&S Fitness Classes

Occupational Health & Safety runs fitness classes Tuesdays and Thursdays each week between 12.30 and 1.00pm in the Irene Watson Room, Level 5, Union Building. All welcome.

SA INSTITUTE FOR EDUCATIONAL RESEARCH

March Meeting & AGM

The first meeting of the SA Institute for Educational Research will be held on Thursday 9 March at 7.30pm at the AEU Conference Centre, 163 Greenhill Road, Parkside.

The speaker will be Dr Sheldon Rothman, Chief Statistician, SA Department of Education, Training and Employment. The topic of Dr Rothman's address is *Factors influencing student non-attendance: a multilevel analysis*. Dr Rothman will report on the first comprehensive analysis of student absence data in Australian schools and suggest actions for further research.

Visitor: \$5; no charge for members.

The AGM will follow this meeting.

If you would like to become a member of the Executive Committee, call 8271 1439. Membership forms (containing the 2000 program) are available by faxing 8274 1199 or email: <saier@cbconsult.com.au>.

University web site

To have your say on the University web site visit: <<http://www.adelaide.edu.au/pr/webdev.html>>.

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.

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>.



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 on 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.

Counselling Centre



WORKSHOPS

- Learn Deep Relaxation
- Developing a Lifestyle that Reduces Stress and Worry
- 101 Tips on Improving Sleep
- Confident Tutorial and Seminar Presentations
- Balancing Family and Relationship Commitments with Study
- Relationships
- The Perfect Procrastinator
- Effortless Exams
- Surviving a PhD
- Coffee, Cake & Conversation

LUNCH TIMES - FREE BOOK ON 8303 5663 OR CALL IN

DAILY DROP IN SERVICE

1.00 - 2.30PM Brief consultations only - no appointment required

Adelaidean Schedule 2000

Publication Date	Bulletin Board/ Editorial Deadline	Human Resources Deadline
28 February	17 February	11 February
13 March	2 March	25 February
27 March	16 March	10 March
10 April	30 March	24 March
24 April	13 April	7 April
8 May	27 April	21 April
22 May	11 May	5 May
5 June	25 May	19 May
19 June	8 June	2 June
3 July	22 June	16 June
17 July	6 July	30 June
31 July	20 July	14 July
14 August	3 August	28 July
28 August	17 August	11 August
11 September	31 August	25 August
25 September	14 September	8 September
9 October	28 September	22 September
23 October	12 October	6 October
6 November	26 October	20 October
20 November	9 November	3 November
4 December	23 November	17 November
18 December*	7 December	1 December
*to be confirmed		

The Adelaidean schedule, classifieds and coming events forms, advertising rates and more can be found at the Adelaidean web site at: <<http://www.adelaide.edu.au/Adelaidean/>>.

Research Branch: Update

NHMRC Project Grant and Fellowship applications for 2001 funding

Applications for NHMRC grants in 2001 are due in the Research Branch on Thursday 17 February. If you need further information please contact Simon Brennan (extension 35051). Applications are to be submitted electronically and in hard copy, and application materials can be accessed through the Research Branch web site.

Australian Research Council (ARC) grants for 2001

Large Grants and Research Fellowships

These applications were due in the Research Branch by Thursday 10 February. Contact Vada Osborn (extension 33387) for further information.

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).

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. The Research Branch is planning to hold a Workshop for intending applicants. Details of date/time and venue will be advertised in the *Adelaidean* and in the "What's New" page on the Research Branch web site. Further information about the scheme is available from Vada Osborn (extension 33387).

Cooperative Research Centres - 2000 Selection Round

The Minister for Industry, Science and Resources has formally announced that the seventh selection round for CRCs will be held this year and has released the guidelines and application form which can be accessed through the Research Branch website. An Information Session was held at the University on 7 February. Intending applicants should note the following critical dates:

Friday 25 February: Notification of Intent due in Canberra

Wednesday 26 April: Draft applications due in Research Branch

Wednesday 7 June: Final applications due in Research Branch

Further information is available from Cyril Brown on extension 33534.

RESEARCH AND SCHOLARSHIPS
AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellowship and other research funding schemes currently available for application. A more detailed electronic version of this listing (Update: Research), together with guidelines and application forms for some of the major schemes, are available at: <<http://www.adelaide.edu.au/RB/>>.

For hard copy application forms and guidelines for the funding schemes listed below, contact the Research Branch, ext 35137; or email <renae.minerds@adelaide.edu.au>.

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

International Wool Secretariat - Research and Development Projects: Applications may be submitted at any time

US Department of Energy, Office of Science - New Programs in Fusion Energy Sciences: Internal closing date: 15 February 2000. Web site: <<http://www.sc.doe.gov/production/grants/grants.html>>.

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 Health and Medical Research Council (NHMRC):

- Project Grants for 2001

Internal closing date: 17 February 2000. Web site: <<http://www.nhmrc.health.gov.au>>.

- Research Fellowships Scheme for Funding Commencing in 2001

Internal closing date: 17 February 2000. Web site: <<http://www.health.gov.au/nhmrc/research/2001/resfel/flyer.htm>>.

US Department of Energy, Office of Science - Carbon Sequestration Research Program: Internal closing date: 17 February 2000. Web site: <<http://www.sc.doe.gov/production/grants/grants.html>>.

Australian Army; Army History Research Grants Scheme: Internal closing date: 18 February 2000

Australian Transport Safety Bureau (ATSB) - Road Safety Research Grants: Internal closing date: 18 February 2000. Web site: <<http://www.atsb.gov.au/roadsafety/research>>.

Pig Research and Development Corporation (PRDC)

- Training and Development Awards

Internal closing dates: 20 February & 21 June & 22 September 2000

- Travel/Conference and Distinguished Visitor Awards

Internal closing dates: 20 February, 21 June & 22 September 2000

- Partnership Projects, Industry Placement Awards, & Regional and Special Projects

Internal closing date: Applications may be submitted at any time. Web site: <<http://www.dpie.gov.au/prdc>>.

The Churchill Trust - 2001 Churchill Fellowships for Overseas Study: Internal closing date: 22 February 2000. Enquiries & Applications, please contact: Mr Geoff Sauer, Alumni Association - Ph: 830 34277. Web site: <http://sunsite.anu.edu.au/churchill_fellowships>.

Emergency Management Australia - Funding for Disaster Prevention/Management Projects: Internal closing date: 22 February 2000

Department of Energy, Office of Science, USA - Energy Biosciences Grants: Internal closing dates: 23 February 2000 (Pre-applications), 29 May 2000 (Formal Applications). Web site: <<http://www.sc.doe.gov/production/grants/grants.html>>.

National Heart, Lung, & Blood Institute, USA - Supplements for Embryonic Cryopreservation of Rats in Hyper-tension Research: Internal closing dates: 24 February & 26 October 2000. Web site: <<http://www.nih.gov/grants/guide/pa-files/PA-98-009.html>>.

National Heart, Lung, & Blood Institute, USA - Inflammation in the Pathogenesis of COPD: Internal closing date: 25 February 2000 (Application). Web site: <<http://www.grants.nih.gov/grants/guide/rfa-files/RFA-HL-00-006.html>>.

National Institute of Mental Health, USA - Impact of HAART on HIV/CNS Disease: Internal closing date: 25 February 2000. Web site: <<http://www.grants.nih.gov/grants/guide/rfa-files/RFA-MH-00-003.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.dcita.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>>.

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>>.

Price Charles Hospital Foundation - Research Grants: 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>>.

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>>.

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

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 Programmes (Visit website for 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 on Drug Abuse, USA - Research Grants on the Origins and Pathways to Drug Abuse: Internal closing dates: 15 May & 15 September 2000. Web site: <<http://www.grants.nih.gov/grants/guide/pa-files/PA-99-168.html>>.

Scholarships

Unless otherwise indicated, information and applications are available from the Student Centre, Level 4, Wills Building. Lodge all applications with the Student Centre unless otherwise stated.

Adelaide Access Scholarships: Open to students new to higher education who enrol at Adelaide University in 2000, and who can demonstrate financial need. A number of these scholarships will be specifically for students who undertook year 12 in a rural and isolated area or are indigenous Australians. Value: \$2000 for first year of enrolment. Closing: 26 February (SC)

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 Federation of University Women 2000: Details are available for the following bursaries: Doreen McCarthy, Barbara Crase & Cathy Candler (\$2,500); Diamond Jubilee (\$2,000) for postgraduate coursework; Padnendadlu (\$2,500) for indigenous Australian women; Jean Gilmour and Thenie Baddams (up to \$6,000); AFUW-SA Inc Trust Fund Coursework (\$3,000); Winifred Preedy Postgraduate (\$5,000). Closing: 1 March 2000 (AFUW)

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 tel: (03) 9679 9911, fax: (03) 9679 9916, email: <ameef@ameef.com.au>. Closing: 5 May 2000 (Melb)

Constantine Aspromourgos Memorial Scholarship for Greek Studies 2000: Open to bachelors or masters graduates of Queensland University undertaking a post-graduate 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 (SIO)