

Dinosaurs: new study counters age-old theory

LONG-NECKED dinosaurs such as *Diplodocus* and *Ultrasaurus* almost certainly didn't lift their heads high in order to feed, according to new research at Adelaide University.

The popular image, and one also believed by most dinosaur palaeontologists, is that these long-necked dinosaurs—known collectively as sauropods—raised their necks vertically to browse from the tops of trees.

Movies such as *Jurassic Park* and the acclaimed BBC television series *Walking With Dinosaurs* portray sauropods as behaving in this manner.

But such a portrayal is wrong, according to Associate Professor Roger Seymour from Adelaide's Department of Environmental Biology.

Dr Seymour, in conjunction with Dr Harvey Lillywhite of the University of Florida, has just published a paper in the prestigious *Proceedings of the Royal Society* in London, which argues it was physically impossible for sauropods to behave in this way.

Dr Seymour said research he has conducted into the possible heart size and metabolic rates of sauropods suggests the only way they could have functioned on land was with a horizontal neck.

For them to function with a vertical neck, they would have had to have a ridiculously thick heart, he said.

Dr Seymour based his findings on sauropods on his research of the factors which determine heart size in animals. He has spent the past 24 years

collecting data on heart morphology and arterial blood pressure in reptiles, birds and mammals to determine how blood pressure influences the thickness of the heart wall. His research is directed at understanding the evolution of vertebrate cardiovascular systems and the embryological development of cardiac function.

The findings from this study—which will shortly be published in a separate paper in *Physiological and Biochemical Zoology* in the US—showed that heart size depended on two factors: the vertical distance of the head above the heart, and whether the animal was cold- or warm-blooded.

For example, the giraffe has exceptionally high blood pressure and an enlarged heart due to the fact it has to pump blood up its long neck. Birds and mammals also have relatively large hearts due to the fact they are warm-blooded, while cold-blooded reptiles have low metabolic rates, low blood pressures and smaller hearts.

"We have determined that the left ventricle in a warm-blooded *Barosaurus*, for instance, would have needed to weigh about 2000kg to pump the blood its brain needed," he said.

"This is impossible for at least three reasons. First, it would be difficult to fit such a heart in the available space; second, the heart would use more energy than the entire remainder of the body, and third; the thick walls would be mechanically so inefficient that they would expend more energy deforming themselves than in actually pumping the blood."

He said US cardiovascular physiologists have



Above: illustrations of *Diplodocus* in the early 1900s, which show the dinosaur with its neck fully upright.



Right: Associate Professor Roger Seymour.

proposed two solutions as to how sauropods might have counteracted the need for such a large heart.

They may have had accessory hearts in the neck to help pump the blood up, or they had a syphon mechanism in which the descending

blood assisted the heart by 'pulling' the ascending blood up the neck.

"However, we argue convincingly in our paper that neither of these proposals were possible," Dr Seymour said.

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Nossal opens \$18m Molecular Life Sciences Building



Professor Peter Rathjen (left), Sir Gustav Nossal and Professor Mary O'Kane unveil the plaque at the opening of the new building.



The new Molecular Life Sciences Building. Photo: David Ellis.

ON 12 October, Adelaide University's new \$18 million Molecular Life Sciences Building was formally opened by distinguished Australian scientist and Australian of the year Sir Gustav Nossal.

Some 500 guests from South Australia and interstate attended the opening, held in the large entrance foyer of the new building, which is now home to the Department of Molecular Biosciences. This new department has brought together staff and students from the disciplines of biochemistry, genetics, microbiology and immunology.

"To my knowledge, this is the first Department of Molecular Biosciences in the nation," said Professor Peter Rathjen, the Head of the new Department.

"It must be amongst the first of these departments worldwide. For us, it represents the future. Greater strength can and will be achieved by sensible interaction than by standing alone; scientific progress is increasingly achieved across the old discipline boundaries."

Professor Rathjen outlined some of the work that will take place in the building, and which will involve more than 30 research teams engaged in a range of leading-edge work, including stem cell replacement, novel vaccines and the activities of the Special Research Centre

for the Molecular Genetics of Development under Professor Robert Saint.

The building—part of a \$41 million development of the Lower Level site at Adelaide University's North Terrace campus—represents one of the biggest concentrations of molecular biology research and education in Australia.

It is also of revolutionary design, necessary for a research building that will have to cope with many changes in the coming decades.

"[Typically] laboratory buildings have a classical plan built around a core of service, with laboratories on both sides around corridors that flank this core," said the building's chief architect, Mr Ramaldo Giurgola.

"This building is different. Instead of two corridors around a core, the core is directly connected with the laboratories, so it makes the thing work much more efficiently," he said.

Vice-Chancellor Professor Mary O'Kane said the new six-storey building would focus and enhance the University's existing scientific strengths, and ensure that Adelaide University continued to be an international bioscience leader in the 21st century.

"This building is of major national and international significance in terms of the work that will be carried out here," Professor O'Kane said. "It represents a

major investment in molecular biology."

Professor O'Kane said the new building was one aspect of a range of top-class scientific research taking place across the University's campuses at North Terrace, Waite, Roseworthy and Thebarton. She said the research across a wide range of the biological sciences included work in wine, food, nutrition, medicine and the environment, all of which was contributing to Adelaide's international reputation as a knowledge centre.

"Adelaide University has also been an Australian pioneer in the development and commercialisation of biotechnological research, with two successful spin-off companies, BresaGen and GroPep, floated on the Australian Stock Exchange," she said.

University Chancellor Mr Robert Champion de Crespigny said the new Department of Molecular Biosciences could make a significant contribution to Australia's future through commercial applications of scientific advances.

Sir Gustav used the occasion to comment on the emerging significance of biotechnology, and the need for the Federal Government to heed calls for greater investment in science research and development. An edited report of his address can be found on page 2.

—Rob Morrison

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INTERVIEW

SIR GUSTAV NOSSAL

In opening the Molecular Life Sciences Building, Sir Gustav Nossal recalled the pioneering role that Adelaide University had played in the development of biotechnology. He reflected on the state of Australian science and the role of commercialisation in it. The following is an edited version of his speech and an interview with science journalist Rob Morrison.

Adelaide University has had a very special place in my affections since 1948, when my late brother, Peter, was invited by Sir Mark Mitchell to become a senior lecturer and then later a Reader in Biochemistry. I made many visits here with my parents and then later as a young scientist. My contacts down the years were chiefly in microbiology and immunology, where Derek Rowley, a very young Professor, built up an amazingly strong department in these twin sciences; not only founding the Australian Society for Immunology, but also being, I think, the earliest biotechnology entrepreneur in the country with his work towards viral disease vaccines.

What a redoubtable period when the gang of four were at the helm; Elliot, Symons, Rogers and Wells, and what an extraordinary effect they have had on this devastatingly important science which gradually translated itself into molecular biology, having trained virtually every important molecular biologist in the nation... What a felicitous circumstance that it is precisely these sciences, biochemistry, microbiology, immunology and genetics that will be going on in this amazing new building.

The new century, the new millennium, the new era—what can we say about the University of Adelaide's role in that? There is only one prediction that we can make with absolute certainty and that is that the pace of change will be even greater, and you will now tackle the task with state-of-the-art and very beautiful facilities that it is a real, real honour to be asked to open.

Yet Australian Universities are in difficult times. We're existing in a harsh, competitive, largely borderless and deregulated world, and you are under-resourced. Student numbers are increasing, the resources for students are drastically down, salaries are uncompetitive, and a certain degree of threat to the basic science which you have performed do illustriously, is present through the huge pressures for commercialisation.

Now I am not for one second bemoaning or decrying the importance of commercialisation of Australian discoveries in Australia. It is a question of balance, and it is absolutely imperative that you do not lose your primacy in the public-good, more basic type of research that really is the responsibility of governments.

So how is the University of Adelaide, and Australia indeed, to face these challenges? There is basically only one answer, and that is working more smartly together in bigger, looser teams...

Intelligently managed, it is not a given that commercialisation need divert a basic science from their mission, because what tends to happen in these large teams is that those more interested in the basic end keep doing the work at which they're good, and they link up then with others who are more interested in the applied end, and with still others who are adept at the development work and commercialisation.

Yet despite these encouraging remarks, Australia is at the crossroads with respect to research and development. [I like] to refer to the 'three I's'—Ireland, Israel and India.

Who would have thought 10 or 15 years ago that these countries would now be beating us hands down to big software consulting contracts? Who would have thought that Ireland would be big in biotechnology, with an 8-9% per annum annual growth rate maintained over the last eight years, so their only worry at the moment now is inflation caused by boom conditions? And who would have thought that Israeli science, always strong, would so competently link with the commercial sector, producing a very vibrant Information Technology & Telecommunications and biotechnology industry.

And we're falling behind. Many would say, (I don't subscribe to this) that we have lost the battle in IT&T. We must not lose the battle in biotechnology, the other great defining science of the third millennium, and therefore the response to two impressive government enquiries is eagerly awaited. I refer to Chief Scientist Robin Batterham's examination of the state of science in the nation and to David Miles's Innovation Task Force implementation group report.

In a very catchy phrase that was picked up by the media, he said "Well you are worried about a 55c dollar" (as it was at the time), "what

about starting to think about a 30c dollar," and that is what you will have if you do not pick up your game in innovation, in commercialisation, in development, in technology, in knowledge. The government has not yet responded to these reports.

I want to say a word also about the other half of R&D, the industrial R&D where again we have seen a falling performance in the lucky country, a falling percentage of the GDP put into research and development. This has been very worrying, and therefore I believe that has been largely due to the captains of industry of this country thinking of research and development as a cost that reflects directly from the bottom line, not as an investment, which is what it really is.

Now from this point of view I was greatly encouraged by an open letter that I saw 10 days or so ago from 10 peak bodies in Australia, saying the lucky country has got to take R&D and education more seriously. Of course the peak bodies included the Australian Academy of Science, and the Australian Academy of Technological Sciences and Engineering, and the Institution of Engineers. You would have expected them to plead in that way but, significantly and for the first time, it also included the Business Council of Australia, the Australian Chamber of Commerce and Industry, and bodies of that ilk very much in the commercial realm, pleading for stronger government support of the innovation process in this country.

There is no alternative to the knowledge nation in the 21st century. The alternative is a slide into irrelevance. Have we not been foolish to allow our investment in education to fall from 5.1% to 4.3% of GDP? Have we not been foolish to allow the expenditure per full-time equivalent student in Australian universities to fall by 20% just over the last four years? Have we not been foolish to allow industrial R&D to fall substantially? The next election will and should be fought on these issues.

Q: We have seen the 'dotcoms' come and go in the twinkling of an eye. What do you think the future of biotechnology is likely to be in the sharemarket?

A: I think it will be a little bit like the dotcoms. You will have a few, a small number of stunning successes, you will have certainly a significant number of failures, and you'll have a fair number in between, but I do want to say that in its very short history, biotechnology in Australia has had



Sir Gustav Nossal. Photo: Ben Osborne.

“In its very short history, biotechnology in Australia has had some stunning successes.”

some stunning successes.

Q: The history of science is marked by individual discoveries at a particular time and place. It is now harder to pin them down to one time, place or person. Science is becoming increasingly international and disparate; an example is stem cell research which must juggle the varying laws, ethics and practices of different states and countries. Where can Australia capitalise on something that is as disparate as that, and how well placed are we to take the lead in it?

A: Look I agree with you profoundly. It is increasingly difficult to absolutely trace with certainty the origin of discoveries. Many of the intellectual property issues concerning stem cells will be extremely difficult and controversial.

When you ask me how Australia can capitalise, I can use only one word: - niche. We have got to be an astute, fast flexible niche player. We will never conquer the big battalions of the United States. Their investment is so much greater than ours that the glittering prizes will always go to them or to other very large countries. However, we can find niches.

Letters to the Editor

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

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December graduations praised by students

GRADUATION time is always special for students, their families and University staff. But now there's an extra reason for students to be excited about graduating at Adelaide University.

This year, the University will hold all its main graduation ceremonies in December—a major change from the traditional April/May graduation timetable.

December graduations will allow students to receive their degrees, certificates and other awards soon after the final exams, rather than having to wait for months after they've "finished uni".

Although this places added pressure on academic staff marking exam papers, and on the general staff who organise the graduations, there are many benefits for students and their families.

One group of students which benefits the most are those from overseas countries.

Mr Mark Lee, President of the Overseas Students Association (OSA), praised the University for making its change to December graduations. He said the OSA had been lobbying the University for some years over the issue.

"The April/May graduations raised serious issues for international students," Mr Lee said.



Mark Lee (left) and Eng Chien Chew.

"For most international students, their visas would end by the month of March, meaning that they would have to go back to their country, reapply for a tourist visa or visiting visa to come back to Australia, and attend the graduation ceremonies. This also placed extra financial burdens on students and their families," he said.

"But with graduations held in December, it makes things so much more convenient."

Part of that convenience is being able to leave Adelaide University knowing that their work at university is done, according to 4th-year

Engineering student Mr Eng Chien Chew.

"December graduations will definitely be an advantage for me, because once I graduate I will get my degree and I can go back home without having to think about coming back to Adelaide," he said.

For overseas students, it also means being able to look for work, and not having to worry about asking the boss for a week's leave so soon after starting.

For Malaysian students like Mr Eng Chien, there is the added option of graduating at Adelaide University's official ceremony in Kuala Lumpur next year. But he would rather receive his degree right here in Adelaide.

"Coming here was a big step for me. I'd prefer to have it [the graduation ceremony] here, because this is where I did my degree. Then I'll go to the ceremony in KL next year, which will be a catch-up time with all my friends and colleagues."

Mr Lee said: "We're glad to see that the University is holding December graduations, because it shows that the University does take into consideration the concerns of international students."

Full details of the December graduation ceremonies will be published in a later issue of the *Adelaidean*.

—David Ellis

Eye for IT fashion puts Chalisa in the scholarship spotlight

A SMART idea to develop a software package for the fashion industry has earned 25-year-old Belair student Chalisa Morrison the \$45,000 Premier's Enterprise Scholarship for 2000.

The scholarship will enable Ms Morrison to further develop her idea at Adelaide University and during six months of study and research at the University of Texas in Austin next year.

Premier John Olsen said her association with the world-renowned Austin Technology Incubator would provide Ms Morrison with invaluable experience of IT-based fashion in the United States.

"She will then apply this experience to a Graduate Entrepreneurial Program at Adelaide University," he said.

"The Enterprise Scholarship is designed to maximise the opportunities available to talented South Australian students and assist them to continue their higher education studies in the State."

Ms Morrison has just completed an Advanced Diploma in Fashion Management Production at the Douglas Mawson Institute of TAFE, where she currently lectures in computer-aided design.

"Winning the Premier's Scholarship is a fabulous opportunity for me," she said.

"I've been very busy over the last three or four years, between study and work, so I'm looking forward to spending quality time focusing on my software idea which has the potential to greatly increase cost efficiencies within the fashion industry.

"I enjoy the fashion industry and also like the



Chalisa Morrison browses some of the fashions at Cue. Photo: John Drislane.

intellectual challenge of information technology.

"My ambition is to run my own company selling a range of larger size clothing and, at the same time, to run my own fashion software company."

The former Blackwood High School pupil studied art and drama at Flinders University and costume design at the Centre for Performing Arts. She has also worked as a fashion illustrator and computer-aided design operator with Adelaide-

based corporate clothing firm, Angus Clyne. As part of her final-year TAFE studies, she and a fellow student have established a fashion business specialising in larger-sized clothing.

Before leaving for Texas in February, Ms Morrison will begin introductory studies to small business management and entrepreneurship at Adelaide University's Graduate Entrepreneurial Program based at the Thebarton campus.

—John Drislane

Students show appreciation of staff

FOR several years, the Postgraduate Students Association (PGSA) has provided an opportunity for postgrads at Adelaide to publicly acknowledge the efforts of their supervisors in steering them through the hazards of a PhD or Masters degree.

In the past three years the PGSA has added the Lecturer of the Year, particularly for postgraduate coursework students, and the General Staff Member's Award, to recognise the tremendous endeavours of secretarial staff, technicians, and others.

Since last year most nominations have been online, where students give supervisors and lecturers a score out of 10 in a range of fields. These include enthusiasm for work, accessibility and approachability, use of innovative teaching methods, provision of intellectual freedom, effective and clear communication, prompt returning of work with constructive criticism, and many other aspects of the complex and demanding job of postgraduate teaching and supervising.

This year the PGSA received 32 nominations from more than 40 students, covering every Faculty and including nominations from the Thebarton Campus and the Graduate School of Management.

The awards were presented on 29 September by Professor Malcolm Gillies, Executive Dean for the Faculty of Humanities & Social Sciences and the Faculty of PALACE, and by PGSA President Ms Helen Kavanagh. The Vice-Chancellor, Professor Mary O'Kane, and the Lord Mayor of Adelaide, Mr Alfred Huang, also attended the award ceremony.

This year's list of winners includes:

Lecturer of the Year

Runner-up: Dr Amanda Lecouteur



PGSA award winners (from left): Professor Richard Hillis, Dr Amanda Lecouteur, Mr David Knight, Dr Amal Karunaratna, Mr John Davey and Mrs Helenmary McMeekan. Not pictured: Dr Michelle Barnes. Photo: David Ellis.

(Psychology)

Winner: Dr Amal Karunaratna (Commerce)

General Staff Member's Award

Runner-up: Mrs Helenmary McMeekan

(Graduate School of Management)

Winner: Mr John Davey (Soil & Water)

Supervisor of the Year

Runner-up: Professor Richard Hillis (National

Centre for Petroleum Geology & Geophysics)

Winner: Dr Michelle Barnes (Economics)

President's Award

Mr David Knight (Computer Science)

Each year the PGSA gives a special award to an outstanding candidate, and this year was no exception. The many students who

nominated Mr David Knight wrote:

"He is the most approachable and knowledgeable person, there is a well-worn path to his door which is almost always open... No-one else, in any other department, manages to command such deep respect and admiration... He is endlessly patient and brilliantly adept at explaining complex systems... He has helped me on many occasions and I cannot speak highly enough of his dedication... Above all he demonstrates an immense love of the subject matter and takes delight in teaching."

—Helen Kavanagh
Postgraduate Students Association



Building on strengths

There's increasing talk in this country that Australia needs to build critical mass in areas of strength.

In our Strategic Plan, this University has set goals for building on and supporting its particular strengths. One of those goals is "supporting and enhancing our areas of international research excellence, most notably the biological and agricultural sciences and our emerging areas of international excellence".

The opening of the new Molecular Life Sciences Building is a significant example of how we are achieving that goal. Adelaide University's outstanding record in the biological sciences is widely recognised and was noted by Sir Gustav Nossal in his speech at the formal opening of the building.

The University's strength in the biosciences has been reflected in recent decades particularly by the award, firstly, of the Commonwealth Centre of Excellence in Gene Technology, and subsequently of ARC Special Research Centres in Gene Technology, in Basic and Applied Plant Molecular Biology and in Molecular Genetics of Development. Additional biotechnology and research and training opportunities arise from our participation in several Cooperative Research Centres, the majority of which are in the biological sciences.

The new building is a magnificent facility which provides a stimulating environment for staff and students. It will encourage closer interaction between disciplines (and with commercial entities) and promises to provide exciting opportunities for further advances at the frontiers of science.

We have other great strengths in themes, particularly in the excellence of our research across a wide area of food, drink and nutrition. A quick sample of this research would include chillies, olives, cereals, food economics, almonds, pigs, Chinese cabbage, wine, beef, citrus fruits, eating disorders, refrigeration, and dental health. And then there's our Research Centre for the History of Food and Drink).

It's encouraging to see that our promotion of these themes is now achieving international recognition. Within the past fortnight, plans have been finalised for the University to host a week-long international symposium during Tasting Australia in October next year. This follows a visit to the University by Mr K. Dun Gifford and Ms Sara Baer-Sinnott of the Oldways Preservation and Exchange Trust, based in Boston, Massachusetts. Oldways is a non-profit organisation dedicated to promoting healthy eating, sustainable food choices and traditional foodways. It is best known for introducing the healthy diet "pyramid" series in association with the Harvard School of Public Health and the World Health Organisation.

The Oldways visitors were here to learn more the wide range of research and education talking place in the areas of food wine and nutrition, and they were enormously impressed. They met people involved in food and drink-related activities across the University and were struck both by the quantity and quality of the research.

It is expected that the symposium to be held at the University next year will focus on Asian diets, aquaculture and wine and health and will be the first Oldways event in the southern hemisphere. It's another acknowledgment of this University's expertise in food, wine and nutrition and will help to lift our international profile further in these areas. The University will also play a big role in next year's Tasting Australia festival which will attract thousands of food professionals and media from around the world.

The University's Strategic Plan states that, 22 years from now, Adelaide University "will be making significant contributions to the international advancement of knowledge, and to public debate, in traditional and emerging fields". The events of the past fortnight are keeping us on course to do that.

MARY O'KANE

Laboratory a boost for biomedical engineering

BIOMEDICAL Engineering is moving from strength to strength at Adelaide University, with the opening of a new laboratory wholly devoted to this unique field of research.

With projects ranging from insect vision and improved diagnosis of heart conditions, to using gaming theory as a modelling tool, the new laboratory's aim is to produce both biologically inspired engineering and biomedical engineering which can be directly applied to industry.

Staff and postgraduate students will benefit from the facility, which is based in the University's Department of Electrical & Electronic Engineering and is the result of much hard work by Dr Derek Abbott and others.

Dr Abbott, who is also the Director of the Centre for Biomedical Engineering, said the new laboratory will strengthen Adelaide's focus for this rapidly growing, multidisciplinary field.

"Of the great scientific achievements that are occurring nowadays, we see an increase in multidisciplinary teamwork. This new Biomedical Engineering Laboratory brings together biomedicine and engineering in a unique way, to assist South Australia in leading the way forward," Dr Abbott said.

At the opening of the new laboratory on 17 October, Dr Abbott referred to Adelaide's historical roots in biomedical engineering: "Physical sciences, such as physics and engineering, may seem odd bedfellows with biology. But there are some time-honoured examples. The structure of DNA was discovered using X-ray crystallography techniques, initiated by our very own Bragg," he said.

The opening was officiated by the Hon Rob Lucas MLC, South Australian Treasurer, Minister for Trade & Industry. Mr Lucas paid tribute to the staff and students who had made the laboratory possible, and encouraged researchers to develop links with industry and government.

In fact, the Biomedical Engineering Laboratory has very strong ties with industry, government and other bodies, and not just in Australia. Of the \$800,000 in recent funding for research received, a sizeable portion has come from industry in the United States, and there are other research collaborations in the US and throughout Australia.

The projects currently being supported in the laboratory include:

- Insect vision - using biological models of the insect eye to make collision avoidance devices for aerospace, automotive, surveillance and robotics industries. In collaboration with DSTO and private company Beonics, SA;
- T-Ray imaging - a new form of laser-based medical imaging, like X-rays but safe. Collaboration with Rensselaer Polytechnic Institute in New York and the Royal Adelaide Hospital;
- Biomonitor - diagnosing heart conditions via an electronic stethoscope. This project attempts to "de-noise" heart readings and allow a more accurate diagnosis;
- Micromachines—an electronically controlled microvalve, potentially useful for cell sorting, drug delivery, electronic fertility control and fast DNA mapping;
- Quantum computation - a long-range research project involving fast pattern searching of DNA



The Hon Rob Lucas (left), Dr Derek Abbott and Professor Mary O'Kane. Photo: David Ellis.

data for bioinformatics;

- Game theory - with private funding from the US, this project attempts to use gaming theory to model a wide range of biological processes.

The father of game theory in biology, Professor John Maynard Smith, and physicist Professor Paul Davies, were among the distinguished visitors present at the ceremony. Dr Abbott and

Vice-Chancellor Professor Mary O'Kane both paid tribute to the efforts of Associate Professor Jagannath Mazumdar (Applied Mathematics), "who served tirelessly over the years in furthering the vision of biomedical engineering at Adelaide University".

"Without his persistence, none of us would be here today," Dr Abbott said.

—David Ellis

Unsafe sex among gay men linked to depression

HOMOSEXUAL men who suffer long-term, low-grade depression are almost twice as likely to have unsafe casual sex, according to the findings of researchers at Adelaide University.

The study suggests that strategies to address low-grade depression among gay men could lead to safer sex practices, thereby helping to prevent the spread of HIV among the gay community.

A research team led by Dr Gary Rogers from Adelaide University's Department of General Practice surveyed more than 400 gay and other homosexually active men who enrolled into a health care program in Adelaide over the last two-and-a-half years.

At the Care & Prevention Programme, the men underwent comprehensive health evaluations, including questionnaires about their recent sexual behaviour and a diagnostic interview to identify depression and other

psychological problems.

Men who were severely depressed reported less sexual activity overall, because serious depression is associated with a lower sex drive. But when these men were excluded, a clear relationship emerged between unprotected sex and long-term lower grade depression, known as dysthymia.

"Forty percent of the men with dysthymia reported having had unprotected sex in the six months before they joined the Programme, compared with 22% of the men who weren't dysthymic," Dr Rogers said.

"This is a statistically significant difference."

Dr Rogers said low self-esteem was part of long-term depression, and: "It may be that this lack of self-esteem leads to men not caring enough about themselves to stay safe."

Dr Rogers's team announced their findings at this month's conference of the Australasian Society for HIV Medicine held in Melbourne. Their paper was named the best by a primary

care physician at the conference and awarded the inaugural Peter Meese prize, named in honour of the late Melbourne general practitioner.

At the conference, Dr Rogers also reported on outcomes in the more than 270 men who have so far participated in the Care & Prevention Program since 1998.

"Gay men appear to suffer serious health disadvantage, and at the time they enrolled, 27% of the men met the criteria for dysthymia. This had fallen to 16% of the same men at follow-up, and we also saw significant improvement in a range of other health measures," Dr Rogers said.

"It's our hope that by promoting the mental health of gay men we may be able to improve their ability to sustain safer sexual practices. It is pleasing that we have seen a very dramatic fall in the prevalence of depressive problems in the men who've taken part in the Programme," he said.



Dr Gary Rogers. Photo: David Ellis.

The Care & Prevention Programme, based in Adelaide, is funded by the South Australian Department of Human Services.

—David Ellis

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Dinosaurs: new study counters age-old theory

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"A horizontal neck could be just as useful as a vertical one in permitting the animal to browse widely.

"Like a vacuum cleaner, the neck could reach among vegetation up to about four or five metres in height without lifting the head, while the bulk of the body stayed in one place.

"The only viable solutions to the sauropod blood pressure problem were that they were restricted to holding their necks horizontally, or that they were cold-blooded animals with low blood flow rates.

"We admit that they could have had a

vertical neck, with blood supplied from a smaller heart, but only if they had a low metabolic rate typical of a cold-blooded reptile.

"Even in this case, however, the heart wall still would have been relatively thick and inefficient for pumping.

"The question whether dinosaurs were warm or cold-blooded has been debated over the last 30 years, but the metabolic rates of sauropods will probably never be known with certainty.

"In either case, it appears unlikely that these animals lifted their heads high as commonly depicted."

—Ben Osborne

Conservation park grows from invisible habitat

THIS month, South Australia gained its newest conservation Park, *Mokota*, located 15 kilometres north of Burra in the State's mid-north.

The name 'Mokota' is derived from Maori words meaning 'beautiful view,' and preserves the title of the property from which the park was acquired with funds from the State Government, NHT and Nature Foundation SA, which has also funded a biodiversity study of the park and other grassland habitats.

"Mokota is the first native grassland reserve in South Australia, and conserves an important habitat type," said Ann Prescott, President of the Nature Conservation Society of SA, who spoke at the dedication of the park by the Hon Iain Evans, Minister for Environment and Heritage. "Grasslands have been the invisible habitat for too long," she said.

The park is also substantial, covering more than 450 hectares of tussock grassland community that was once widespread across the State's mid-north, but has largely been cleared for cropping and grazing. "This site exists because the former owners have managed it conservatively, with low stocking and fertiliser rates," said Ms Prescott.

Ms Prescott graduated with an honours degree from Adelaide University's Botany Department to become the World Wildlife Fund's grasslands extension officer. She is well-known as the

author of the popular field guide, *It's blue with five petals*, and has been actively involved in grassland research and education for many years.

"All grasslands have some wild oats and other weed species," said Ms Prescott, "but in terms of the mid-north, Mokota is in excellent condition. It has a high diversity of native grasses among more than 150 indigenous plant species, including 32 of significant conservation value in the state."

Ms Prescott sees a need for further research into grassland ecology and management, in which Dr Jose Facelli and his postgraduate students in the Department of Environmental Biology will be involved.

"Because grasslands, unlike some other habitats, must be actively managed, they will need baseline surveys to gather data," said Ms Prescott.

"The Nature Conservation Society has some funding to look at management strategies—how do we manage weeds? Should we burn, slash or graze? Interstate experience suggests that we should and, hopefully, Jose and his students will help give us those answers."

Dr Facelli sees the acquisition of Mokota as an important step in assisting that research. "We now have at least one grassland conservation park, but the vast majority of grasslands are in private ownership and are likely to remain so," said Dr Facelli. "That means that proper



Anne Prescott, President of the Nature Conservation Society of SA, shows the Minister for Environment and Heritage, Iain Evans, some of the native grass species that Mokota will conserve. Photo: Rob Morrison.

management of them is essential. If we can understand and develop strategies for grazing that don't decrease the farmers' profits, and at the same time improve biodiversity, then we

can help to conserve the grasslands that are privately owned, as happens elsewhere in the world."

—Rob Morrison

INTERNATIONAL LINKS

BUILDING TIES WITH ASIA

Chinese visitor returns home after exchange at Waite

CHINA has always been a productive nation. It is also one of the world's great consuming nations—a significant market for products and services.

Increasingly, China is sending its academics abroad and welcoming others on exchange visits. Scientific and technological research is seen as a very important area for these exchanges.

Jun-Hua Zhang is the Manager of the Foreign Affairs Office, Nanjing Branch, of the Chinese Academy of Sciences—the equivalent of the CSIRO. At the invitation of Professor Malcolm Oades, Jun-Hua Zhang has spent the past three months at the Waite campus, to study the role of government, how research is funded in Australia, and the ways in which research is translated to farmers and agribusinesses. He is the first administrator to have such a placement in South Australia.

"In the past, it was researchers and academics who were those who undertook these exchanges," said Jun-Hua Zhang. "Now we see it as very important that administrators take part in them," he said. "It began around 1978, when China decided to open its doors and began to send its administrators overseas to study the management systems being used by universities and research institutes so that they could introduce to China those that were suitable."

In the first half of 1980s, we used manpower for economic development," explained Jun-Hua Zhang. "Later in that decade, we turned to money, and invested heavily to develop our economy. From the beginning of 1990s on, as now, we saw that science and technology would be essential. As well as exchanging our scientists, we are now sending administrators abroad to see how we can best manage our research programs," he said.

During his time here, Jun-Hua Zhang has written three papers on the ways in which co-



Jun-Hua Zhang of the Chinese Academy of Sciences. Photo: Rob Morrison.

location of different organisations and cooperation between them, as exemplified at the Waite campus, might provide some models for China. In particular, he has been impressed by ways in which he has seen research findings communicated directly to farmers and businesses. He sees this 'linkage' between research and its applications as a profitable one to develop.

On his return, Jun-Hua Zhang will report on his findings, and introduce suitable management techniques. "We find that it is best to start with local groups," he said. "This allows us to develop a model which can then be used to introduce techniques on a larger scale."

Jun-Hua Zhang hopes and expects that such exchanges will continue, and sees in them considerable potential for the improvement of bilateral relationships between China and Australia.

—Rob Morrison

Korean visitors learn from our OH&S experience

INDUSTRIAL noise control was just one of the many aspects of Occupational Health & Safety on show to a group of visiting Koreans at Adelaide University's Thebarton campus.

A delegation of nine South Korean academics and scientists, representing the Korean Institute of Industrial Safety (KIIS), visited Adelaide in August.

The group, comprising senior staff from four universities and Samsung Electronics, attended a series of workshops organised by Dr Dino Pisaniello, Senior Lecturer in Occupational and Environmental Hygiene at Adelaide's Department of Public Health.

The workshops dealt with the management of industrial noise, hazardous substances, and emergency chemical incidents. The Korean delegation also made field visits to the Metropolitan Fire Service, WorkCover

and local industries.

"The delegation was interested in the implementation of local OHS management systems," Dr Pisaniello said. "Korea has a need to build its OHS capacity, especially in occupational hygiene, and Australia is seen as having advanced systems in OHS management."

He said the Koreans' visit was highly successful and could lead to exchange programs between South Australia and Korea, initially involving the SA Collaborative Centre in Occupational Health & Safety (an alliance between Adelaide University, University of SA and Douglas Mawson Institute of TAFE).

"I'm planning a trip to Korea next year as part of my study leave, and in my capacity as the President of the Australian Institute of Occupational Hygienists," Dr Pisaniello said.

"This might be an additional opportunity for the University to promote itself in Korea," he said.



Noise levels and hearing protection: one of the OH&S issues on display to visiting Koreans.

Adelaide uni staff go bald for a worthy cause

IT WAS a strange scene: grown men strapped to chairs, preparing themselves to meet their fate in front on an unsympathetic audience lusting for damage to be inflicted.

One could almost hear the laconic Australian voice defiantly telling his tormentors to "cut straight you bastards, and don't make a mess of it".

But it wasn't quite the epic final scene from *Breaker Morant*; rather, it was nine of Adelaide University's most senior managers getting their heads shaved to raise money for charity.

A large crowd recently gathered at the Barr Smith Lawns to watch such notables as Ian Creagh, Steve Daysh, Tony Siebert and David Carver lose their locks to help out seven-year-old Alexandra Lamb (the daughter of Administrative Services Manager David Lamb) who was recently diagnosed with diabetes.

The headshaving was part of Alexandra's efforts towards the Juvenile Diabetes Foundation of Australia's major fundraising event of the year, the Walk for the Cure walkathon, which was held at Glenelg recently.

Her proud father—who lost not only his hair and beard in the headshave, but also his eyebrows—said he was staggered by the support he received for the event, which has so far raised more than \$6000.

"Everybody has been so supportive of the idea, from the guys themselves to Andi Sebastian, who did such a great job as the auctioneer," Mr Lamb said. "Then there were the businesses like Hamilton Pharmaceuticals, Equity and Advisory and Norman Waterhouse who donated money, as well as other businesses and people too numerous to mention who donated money and goods in kind.

"It really was excellent and I can't begin to thank everyone enough for making it the success that it was."

Vice-Chancellor Professor Mary O'Kane, herself a vigorous bidder on more than one occasion during the auction process, said the event highlighted the esprit de corps of Adelaide University general staff.

"It was very pleasing to see how many general staff attended the event to support a colleague in his efforts to raise money for charity," she said. "Such a show of spirit and enthusiasm underlines the sense of community within our general staff ranks."

—Ben Osborne



ITS General Manager Scott Snyder gets his gear off in a desperate bid to raise more money during the headshave auction process, as enthusiastic auctioneer Andi Sebastian looks on.



Seven-year-old Alexandra Lamb goes to work on her father David's head. More than \$6000 was raised for Alexandra's fundraising efforts for the Juvenile Diabetes Foundation of Australia.



Executive Director of Student and Staff Services Ian Creagh laughs in the face of danger while his "hairdresser", Lina Russo, ponders what to do next.



Tony Siebert (right) proudly displays his new haircut while Richard Arrowsmith (left) and Ian Creagh don't look quite so sure at the recent fundraising headshave on the Barr Smith Lawns.



A trio of Adelaide University senior managers (from left) Scott Snyder, David Lamb and David Carver, receive more than a short back and sides from a more-than-willing trio of haircutters Tina Daniels, Doug Elsom and Mark Robinson. Photos by Ben Osborne.

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AUSTRALIA

Glass of frontignac saves the day

From Page 8

Max, now based at Auckney, Scotland, dedicated his new piece to Grahame Dudley, who was one of his students at Adelaide University during the 1960s. A *Glass of Frontignac* is based on their first wine-tasting experience together at the Barossa in 1966.

"The first movement is all about the serious business of wine-tasting," Grahame said.

"It's quite thoughtful, fairly tense. You can feel the palate being tickled. It's very calculating.

"The second movement is several hours later, when you've forgotten to spit the wine out and you're having a great time—and the violin and clarinet parts are decidedly squiffy, they definitely sound like someone who's sedately drunk. And the whole thing finishes with a wonderful, genteel 'hic' from the marimba."

"They [the students] did fine," said Max, despite them having to play the piece virtually unseen.

"The students were a lovely group of people and I thoroughly enjoyed working with them—there was a great enthusiasm there. Working with the group was the highlight of the whole festival," he said.

The feeling was obviously reciprocated: "Several of my students told me that working with Max was the best

experience they had ever had," Grahame said.

The performances rounded off a successful music festival for Adelaide's Elder Conservatorium students. Pro Canto, the University choir, also featured with Elder New Music and Lights in a whole program of Max Davies's works, related works, and a composition by student Trevor Tao.

The two concerts were directed by Grahame Dudley and co-presented with Max Davies. A feature of the Lights concert was *Max's Xmas Box*, a group of four short pieces composed by Max's distinguished Adelaide University students from 1966:- Ross Edwards, Graham Hair, Martin Wesley-Smith and Jillian Whitehead.

"The final concert was also a wonderful success," Grahame said.

"There was a cliffhanger there for a while, because our pianist, Leigh Harrald, had got into the finals of the competition which he didn't think he was going to get into, and he found that he was supposed to be playing the finals at the same time as he was playing in our concert. I quickly restructured my program, and fortunately the competition finals were on at the same winery, Peter Lehmann's. Leigh just ran down the hill, and they were waiting for him, and he played—and won the thing! So that was a story in itself."

—David Ellis

New centre of evolutionary biology

THE Centre of Evolutionary Biology and Biodiversity was launched at Adelaide University on Wednesday 18 October.

It represents a major joint research initiative between Adelaide University, the South Australian Museum and the plant Biodiversity Centre, run by the Department of Environment and Heritage.

The Centre aims to be a leading national and international centre for research and teaching in evolutionary biology and biodiversity studies, with an emphasis on the fauna and flora of Australia.

"We will focus on a range of major scientific questions, such as 'how are species formed?', 'how many species of plants and animals really exist?', and how answers to these questions relate to the conservation and management of biodiversity," said Associate Professor Andy Austin, who will be the Centre's Director.

Members of the Centre already attract in excess of \$1.1 million into Adelaide University, including 10 ARC Large/SPIRT grants. The formation of the Centre will help to secure external funding and infrastructure through collaboration among its members and with national and international colleagues.

It will provide national and international recognition for the high-calibre research already being undertaken in Adelaide, and expects to attract postgraduate students and visitors from interstate and abroad.

Professor Austin, who was recently elected President of the Australian Entomological Society, works in the Department of Molecular & Applied Ecology at the University's Waite campus.

"Adelaide University and the Museum have clearly recognisable strengths in evolutionary biology and biodiversity but they are spread across two organisations, two faculties and four departments," said Professor Austin.

"The Centre will bring this expertise together to foster collaboration, focus on new questions, and take advantage of new funding opportunities."

"The recent arrival in Adelaide of Professor Tim Flannery as Director of the SA Museum, and Professor Robert Hill, an ARC professorial fellow in paleobiology in the Department of Environmental Biology, have really strengthened the scope of the Centre," said Professor Austin.

Following the launch by Professor Edwina Cornish, Deputy Vice-Chancellor (Research), Professor John Maynard Smith delivered a lecture on *The Evolution of Animal Signals*.

Professor Maynard Smith, from the University of Sussex, is one of the most influential evolutionary biologists of the last 40 years. A winner of many international awards, he is the author of *The Evolution of Sex*, *Evolution and the Theory of Games*, and *Evolutionary Genetics*.

—Rob Morrison



Professor Andrew Austin.

Farewell to Angie

Further to Graham Nerlich's obituary for Angie Bartesaghi (*Adelaidean* 9/10) readers may be interested to know that Angie provided invaluable voluntary assistance in the Alumni Office for about 7 years from 1986 to 1993. In those early days for mail outs to Alumni members and particularly the then fortnightly *Lumen*, the address labels were placed on envelopes by hand and the magazine inserted by hand and it was Angie who once a fortnight undertook this task. Angie's help was given cheerfully and without fanfare and her service to the University and to the Alumni Association was always greatly appreciated.

Prize for chemistry book

A BOOK co-authored by Adelaide University's Professor Stephen Lincoln (Chemistry) has been awarded the Archibald Ollé Prize by the New South Wales Branch of the Royal Australian Chemical Institute.

The book, *Modified Cyclodextrins: Scaffolds and Templates for Supramolecular Chemistry*, published by Imperial College Press, was written by Dr CJ Easton (ANU) and Professor Lincoln (Adelaide).

The prize is for the most distinguished chemical treatise published by Australian authors in the previous year.

Career opportunities for physicists

"A WIDER Range of Career Opportunities for Physicists" is the title of a special careers night sponsored by the Australian Institute of Physics in the Kerr Grant lecture Theatre on Monday night 30 October at 7.30 pm.

Physics is generally associated with fundamental research and abstract theories. However, a number of Australian physics graduates have taken up very responsible and rewarding positions in fields such as business and finance. The current CEOs of Telstra and British Airways both hold PhDs in nuclear physics.

Other CEOs of major hospitals and some Heads of Commonwealth Government departments hold PhD degrees. Defence is an example.

So how did they do it? And what do they (and perhaps others) have to offer in these non-traditional fields? To talk about these questions, and to provoke some debate on the future employment of physicists, we have Dr Tony Butterfield, Assistant Commissioner for Taxation, ATO Canberra, and Dr Ian Tuohy, Scientific Manager of British Aerospace (Australia), Technology Park. Both are graduates of Adelaide. Emeritus Professor John Prescott of Adelaide University has agreed to speak on his job surveys. Visitors are welcome and students are encouraged to attend and ask questions.

For more information phone John Patterson: 8222 4038.

Cornell Chapter Annual Dinner – tickets on sale now

THE CORNELL Chapter's Annual General Meeting will be held on 9 November 2000 at St Mark's College from 6.30pm - 7.00pm. All members are encouraged to attend. The Chapter's Annual Dinner will be held directly after the Annual General Meeting commencing at 7.00pm.

The guest speaker at the Dinner will be Mr Greg Mackie, Councillor, City of Adelaide, Founding Chairman of the Adelaide Festival of Ideas, and Co-Proprietor of Imprints Bookshop. The subject of his address will be 'Building a Public Intellectual Culture in Adelaide'. Music by Accelerando Cello Quartet provided between courses.

Further details and bookings for the Dinner (\$50 per head, BYO) are available through the Alumni and Community Relations office, Alumni House, 44 Kintore Avenue, Adelaide University tel: (08) 8303 5800.

Florey Medical Chapter

5th Annual Medical Vignerons Luncheon and AGM, Sunday 12 November, Lirra Lirra Restaurant, Waite Campus.

12 noon wine-tasting followed by lunch 1pm and AGM during Lunch. Cost \$60.00 per head includes food, wine with lunch and GST.

Bookings can be made by Friday 3 November, through the Alumni and Community Relations office, 44 Kintore Avenue, Adelaide University, tel: (08) 8303 5800. Payment by cash, cheque or credit card (VISA, Mastercard, Bankcard). For further enquiries about the event please contact Dr Jeanette Linn at (08) 8344 4284.

FREE guided tours of Adelaide University's historic North Terrace campus

Learn about the history and heritage of South Australia's oldest University. Individuals, families and groups are all welcome.

Tours are conducted by trained guides from the University's Alumni Association. Tours last one hour. There are some strenuous sections, including stairs; your guide can advise of alternative outdoor routes.

Regular free tours are offered each Tuesday morning at 10.30am. Groups can make arrangements by calling the Alumni and Community Relations office on (08) 8303 3196.

Please meet at University Gate 20 next to the Art Gallery of South Australia on North Terrace.

Adelaide University Alumni Association

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Qualification	Course	Year of Graduation
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I would be interested in receiving information and details about events from the following Chapters:

- Agricultural and Natural Resource Sciences Chapter
 Chapman Association (Engineering)

- Sir Joseph Verco Dental Chapter
 Cornell Chapter (Arts/Performing Arts)
 Florey Medical Chapter
 Science and Mathematical Sciences Chapter
 MBA Alumni Association
 Roseworthy Old Collegians Association (ROCA)
 Economics/ Commerce Chapter
 Leonardo da Vinci Chapter (Italian-Australian alumni)
 John Bray Law Chapter
 The University of Adelaide Chapter of Australian Alumni Singapore
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MEMORANDUM TO: ALL GRADUATES OF THE UNIVERSITY OF ADELAIDE

FROM:
MICHAEL ABBOTT QC

I am concerned that of up to 80,000 graduates less than 1,000 are on the Senate Postal Address List and therefore, many graduates will fail to vote at the forthcoming election for Council Members.

The election for the Council of the University of Adelaide will be held during the course of the next two weeks until 5.00pm on 8 November, after which time no further votes will be accepted.

All graduates of the University are eligible to vote but voting is not compulsory.

To receive a voting paper you need to be enrolled on the Senate Postal Address List.

If you are not enrolled or have not received a voting paper you should:-

1. Write to the Returning Officer (Susan Graebner) at the University or;
2. Phone the Returning Officer on 8303 3408.

This year the Senate, ie. potentially all graduates, elect three candidates from a field of eight nominations.

I have renominated as a member of Council and seek your vote.

I am currently in my second year as Chair of the Finance Committee of this University and I believe that I bring a range of skills to the Council and that the next two years will be a very testing time for our University.

Issues such as:-

1. The role of management;
 2. Our relationship with our overseas Alumni;
 3. The challenge of globalisation;
- to name but three, demonstrate that what this University needs is a Council which can both make and respond to change whilst at the same time preserving those values and attitudes which we hold dear. I believe that a strong Council is necessary to achieve these goals.

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Glass of frontignac saves the day

FRONTIGNAC may have become an unfashionable wine in recent years, but it was the toast of the recent Barossa Music Festival thanks to world-famous composer Sir Peter Maxwell Davies.

Max, as he's known, composed an all-new piece of music called *A Glass Of Frontignac*, written for and performed in its world premiere (all in the same day) by Adelaide University's Elder New Music ensemble.

It was a spur-of-the moment decision by Max when another group didn't show up for rehearsal at a masterclass at Chateau Yaldara.

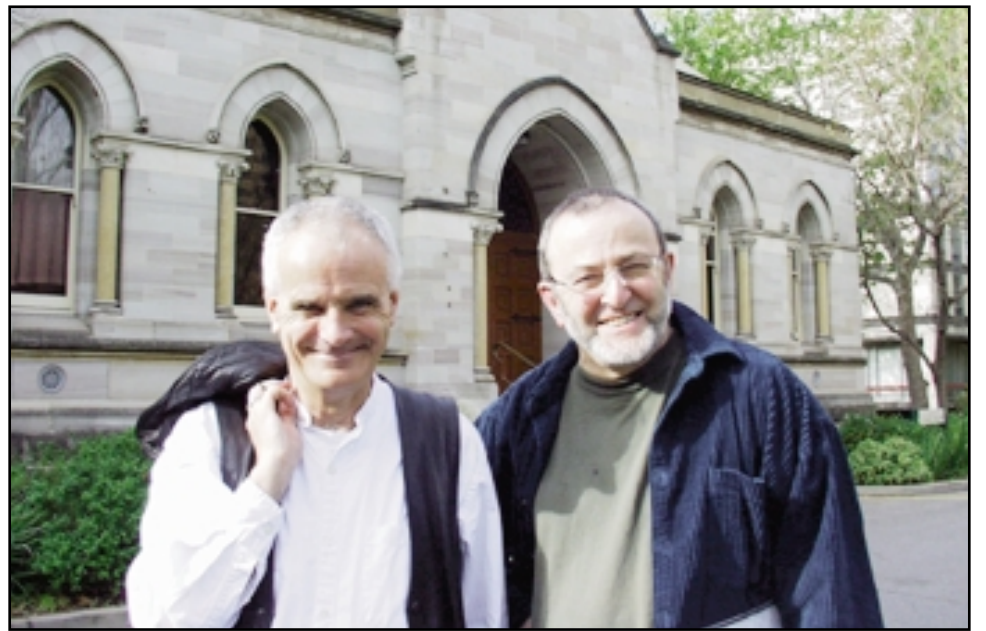
Elder New Music, under the guidance of Adelaide University senior lecturer Mr Grahame Dudley, was scheduled to have two hours of rehearsal with Max, followed later by a public performance.

"There was I, faced with a two-hour rehearsal and then a masterclass of one hour on a piece of mine lasting only five minutes, which Grahame had already conducted with the students and which they could play perfectly well," Max said.

"So I thought: 'right, only one thing to do—rehearsal cancelled, I'm going back to the hotel to write another piece'."

And that's exactly what happened. In a couple of hours, Max had composed his new work, scribbling the notes down on paper, while Grahame Dudley photocopied, cut and pasted the pieces together for the various performers.

"I was still sticking the the second movement together in the back of the car on the way back



World-renowned composer Max Davies (left) with Elder Con senior lecturer Grahame Dudley.

to Yaldara while Max was rehearsing the first movement with the students," Grahame said.

"He gave the students their music, they had about five minutes to look at their individual parts, then he started the rehearsal—the audience was already waiting outside for the masterclass to start."

The reaction of both the students and the audience was enormous. In fact, the piece was so well received they decided to play it again on the final Sunday of the Barossa Music Festival at Peter Lehmann's winery.

Continued Page 6



Max, Grahame and the Elder New Music ensemble at Chateau Yaldara.

Fragments feature in PATU performance

WORKS at the shorter end of the musical time scale are the focus of a new performance by Elder Conservatorium-School of Performing Arts pianist Stephen Whittington on Tuesday 24 October.

In *Fragments/Visions*, Mr Whittington will perform works by a wide range of composers ranging varying in length from a few minutes to a few seconds, many of which will be performed for the first time in Australia.

Mr Whittington, who is coordinator of the Performing Arts Technology Unit and also teaches composition, music theory, acoustics and electronic music, is renowned for his performances of epic works like the two-hour *Triadic Memories* by Morton Feldman, but is now turning his attention to the encapsulation of a poetic vision in the microscopic.

Born in the crucible of Romantic passion in the early 19th century, the miniature has attracted composers throughout the last 150 years.

Mr Whittington will perform cycles of short works by Arnold Schoenberg, Pierre Boulez, Alexander Scriabin, and

the enigmatic 19th century composer-virtuoso Alkan, together with the world premiere of a new work written for him by French composer Sophie Lacaze, and interludes by John Cage, Gyorgy Kurtag, and former Adelaide University composers-in-residence, Howard Skempton and Peter Garland.

"I have a commitment to performing music by composers who are internationally acknowledged as eminent—Pierre Boulez, Gyorgy Kurtag, John Cage—but are rarely performed in Australia owing to the difficulty of the music," he said.

"I believe it is essential that Adelaide audiences hear this music to counteract the effects of geographical isolation—the tyranny of distance—and the potential for parochialism."

—Ben Osborne

Fragments/Visions will be performed at Adelaide University's Performing Arts Technology Unit at 8.00pm on Tuesday, 24 October. The Unit is located on Level 5 of the Schulz Building (take lifts from the Scott Theatre foyer), and admission is \$10/\$5.



Stephen Whittington. Photo: Ben Osborne.

ACCOMMODATION

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MISCELLANEOUS

GIVEAWAY: 12 volumes British Encyclopedia of Medical Practice 1941. Ph/Fax 8271 4433.

Bulletin Board

OCTOBER 23, 2000

ADELAIDE UNIVERSITY

PAGE 1

MONDAY 23 OCTOBER

11.00am Politics Postgraduate/ Staff Seminar: New Scenery on the Third Way by Lionel Orchard (Flinders Uni). Room 420, Napier Building.

1.00pm Clinical and Experimental Pharmacology Seminar: Opioid effects and withdrawal in the rat, by Mr Raymond Chan (Clinical & Experimental Pharmacology). Medical School, North.

1.10pm Geographical & Environmental Studies Seminar: Wild Thoughts from Tame Places: Urban Biodiversity Education, by Dr Sandra Taylor (Geographical & Environmental Studies). Room 104, Environmental Studies Building.

1.10pm Law School Seminar: Australian Crown Lands: A property institution, by Paul Babie. Room 216, Ligertwood Building. Sandwiches provided.

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

2.00pm English Seminar: "Another kind of mind". Drugs, dissent and the idea of transformation in the psychedelic counterculture of the 60s, by Andrew Cook. How can you live in a city of monuments? Reading Commemoration and Forgetting in Adelaide's North Terrace and River Torrens Precinct, by Emily Potter. Room 618, Napier Building.

3.30pm ACUE Seminar: Progress of students through the Adelaide BDS course, by Dr Dimitra Lekkas (Lecturer, Dentistry). Seminar Room 2, Schulz Building.

TUESDAY 24 OCTOBER

12noon Child Health Research Institute Seminar: Milk and Infant Mucosal Immunity, by Dr Imme Penttila. Seminar Room, 7th floor, Rieger Building, WCH. Light refreshments provided.

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

3.15pm Anthropology Seminar: Polytypy and Dhalwangu Song: An Initial Formulation, by Peter Toner (Anthropology). Room 722, Napier Building.

6.00pm Don Dunstan Foundation, Centre for Labour Research, Adelaide Research Centre for Humanities and Social Sciences, and the South Australian Council of Social Service present: W(h)ither Welfare? Welfare Reform in the US and Australia, by Professor Joan Acker. AEU, 163 Greenhill Road, Parkside.

7.30pm Musicological Society of Australia, SA Chapter, Inc/ Elder Conservatorium, School of Performing Arts presents: The Collision of Politics and Music in Post World War 1 Germany: Selected Aspects, by Derek Stillier. "Commitment or Abrogation? Avant-garde Music and

COMING EVENTS

23th October — 3rd November

Jean-Paul Sartre's Idea of Committed Art", by Mark Carroll. Room 1107, Schulz Building (enter via western door near Scott Theatre). Refreshment provided - gold coin donation please.

WEDNESDAY 25 OCTOBER

10.10am Electrical & Electronic Engineering Research Seminar: Wavelet Analysis of Heart Sounds by Sheila Messer (Electric & Electronic Engineering). Room EM212, New Engineering & Mathematics Building.

1.00pm Social Inquiry Seminar: Countering Domestic Violence: Innovative Strategies of the State and voluntary Organisations in Karnataka and Gujarat by Professor Veena Poonacha (Women's Studies, SNTD Uni, India). Seminar Room, 3rd Floor, 10 Pulteney Street.

1.10pm Geology and Geophysics Seminar: To be advised, by Dr George Williams (Dept Geology & Geophysics U of A). Mawson Lecture Theatre.

1.10pm Genetics PhD Update: Richard Tamme (third year). Seminar Room, Ground Floor, Fisher Building.

4.00pm Physiology Seminar: How Does Sperm Meet Egg? by Assoc Prof W Breed (Anatomical Sciences). Room N417, Level 4, Medical School North.

THURSDAY 26 OCTOBER

12noon Hanson Centre for Cancer Research Seminar: Hormonal factors in prostate cancer development and progression, by Professor Wayne Tilley (Flinders Cancer Centre, Flinders Medical Centre). Robson Theatre, RAH.

12.05pm Psychology Seminar: Psychosocial influence on workers compensation claims by Kevin Newton (HR manager, OH&S). Room 527, Hughes Building.

1.00pm Environmental Biology Seminar: The ecology of woody plants in Southern Australia by Tanja Lenz (Environmental Biology). Benham Lecture Theatre, ground floor, Benham Building.

FRIDAY 27 OCTOBER

10.00am Social Inquiry - Labour Studies Seminar: The Training Agenda - For What? by Michael Keenan. Seminar Room, 3rd Floor, 10 Pulteney Street.

11.30am Social Inquiry - Gender Studies Seminar: Women in Politics: Kenya and Australia, a comparative study by Edith Miguda. Seminar Room, 3rd Floor, 10 Pulteney Street.

1.10pm Elder Conservatorium Lunch Hour Concert: Works by Khachaturian, Vasks, & Boutok. Peter

Handsworth - clarinet, Semyon Kobets - Violin, Tamara Smolyar - Piano. \$3 at the door, inc GST. Elder Hall.

1.10pm Centre for Asian Studies Seminar: Recent Issues Concerning Japanese Education by Dr Shoko Yoneyama. Level 5, Room 518, Ligertwood Building.

4.00pm Obstetrics & Gynaecology Seminar: Caesarean section - intervening at a cultural level, by Dr Deb Turnbull (Senior Lecturer, General Practice & Psychology), and Dr Chris Wilkinson (Obstetrics & Gynaecology, WCH). Seminar Room, 6th Floor, Medical School.

MONDAY 30 OCTOBER

10.00am Politics Postgraduate/ Staff Seminars: Auto-Regulation: Internet Policy in Singapore by Terence Lee; The Book & Print-based Media in Contemporary Society by Victoria Reynolds; The Matter of Bodies in Social & Political Theory by Chris Beasley. Room 420, Napier Building.

12noon Plant Science Seminar: Improving strategies in barley breeding using microsatellite markers, by Mr Angelo Karakousis (PhD Student). Arabinoxylan metabolism in germinated barley, by Mr Robert Lee (PhD Student). Seminar Room, Waite.

1.10pm Student Workshop: Learn Deep Relaxation by Mark O'Donoghue. Counselling Centre, ground floor, Horace Lamb Building.

4.00pm ACUE/HERDSA(SA) Seminar: Teaching as we believe: Using IT in higher education, by Professor John Bain (Griffith University). ACUE Seminar Room, 2nd Floor, Schulz Building.

7.30pm Institute of Physics Non-Traditional Careers Night: Speakers: Dr Tony Butterfield (ATO), Dr Ian Tuohy, (British Aerospace Aust), and Prof John Prescott. Kerr Grant Lecture Theatre, Physics Building.

8.00pm History of Science, Ideas & Technology Group: Mental Blocks - The fateful delays in the discovery of nuclear fission, by Mr Bob Major (Geologist). Royal Society Rooms, Plane Tree Court (behind State Library) off Kintore Ave.

8.00pm Classical Association of South Australia Meeting: Cicero's Ideal Orator by Dr Malcolm Gillies. Hughes 723, Hughes Building.

TUESDAY 31 OCTOBER

9.00am Learn IT Symposium: See Bulletin Board, page 3 for full details.

3.15pm Anthropology Seminar: "...so terrible indeed that women and nervous persons fly from the sight of him..." The Myth of the Elephant Man by Damon Parker (Anthropology). Room 722, Napier Building.

5.00pm North Terrace Neuroscience Discussion Group: Axon guidance during development and regeneration of the nervous system by Dr Simon Koblar (Genetics). Seminar Room, 6th Floor, Medical School, Nth.

6.00pm CISME Seminar: Population Policy for Australia by Dr Tim Flannery BA MSc PhD, (Director SA Museum). Council Room (enter via Hughes Building lifts.). Refreshments from 5.30pm.

WEDNESDAY 1 NOVEMBER

10.10am Electrical & Electronic Engineering Seminar: Towards the Implementation of Arbitrary Boolean Functions in Threshold Logic by Peter Celinski (Electrical & Electronic Engineering). Room EM212, New Engineering & Mathematics Building.

12.30pm Clinical Nursing Seminar: Promoting Best Practice in the Management of Peripheral Intravascular Devices by Mr Rick Wiechula (Acting Director, Joanna Briggs Institute for Evidence Based Nursing and Midwifery). Room 36, Level 3, Eleanor Harrold Building, RAH.

1.10pm Genetics Seminar: Title to be announced by Dr Michal Fietz. Seminar Room, Ground Floor, southern entrance, Fisher Building.

5.30pm Centre for Biomedical Engineering: Student Papers Night. Hone Lecture Theatre, Medical School South.

THURSDAY 2 NOVEMBER

12.05pm Psychology Seminar: Towards the measurement of organisational culture by Liz Kummerow (Commerce). Room 527, Hughes.

1.00pm Environmental Biology Seminar: The ecophysiology of *Ecklonia radiata* by Anne Fairhead (Environmental Biology) Benham Lecture Theatre, Ground Floor, Benham Building.

FRIDAY 3 NOVEMBER

10.00am Social Inquiry Labour Studies Seminar: Locating South Australia in the Changing World-System, by Stewart Sweeney. Seminar Room, 3rd Floor, 10 Pulteney Street.

11.30am Social Inquiry Gender Studies Seminar: Competing Discourses of Domestic Violence by Michelle Jones. Seminar Room, 3rd Floor, 10 Pulteney Street.

1.10pm Elder Conservatorium Lunch Hour Concert: Selected Chamber Music Ensembles for the Elder Conservatorium. Admission \$3 at the door, inc GST. Elder Hall.

2.00pm Social Inquiry Seminar: Mother, Daughter and Grand daughters. Life stories of three generations of an Indian family. 1866 - 1950's by Professor Veena Poonacha, (Women's Studies, SNTD University, India). Seminar Room, 3rd Floor, 10 Pulteney Street.

SITUATIONS VACANT

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

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

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

GENERAL LIBRARY ASSISTANT

(Ref: 9278) (Continuing)

Adelaide University Library
Salary: HEO2 \$25,815-\$27,445 (Junior rates apply to those 20 years of age and under)

Located in the Law Library to undertake a variety of clerical activities. The continuing position is available from 1 January 2001. Further details from Margaret Priwer, tel 8303 5025. Duty statement and selection criteria from the Library Administration, tel 8303 4064. Applications close 30 October 2000.

ADMINISTRATIVE ASSISTANT

(Ref: 1557) (Fixed-term)

Farm Services, Roseworthy Campus
Full-time Salary: HEO2 \$25,815-\$27,445 (Junior rates apply to those 20 years of age and under)

The successful applicant will assist the Administration Officer to provide necessary administrative support to Farm Services Roseworthy Campus.

This fixed-term position is available from 1 November 2000 for 12 months on 22.05 pw. Further details Andrew Polkinghorne, General Manager, Farm Services, tel 8303 7679. Applications close 30 October 2000.

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

LECTURER/SENIOR LECTURER

RURAL ENTERPRISE MANAGEMENT

(Ref: 10607) (Fixed-Term)

Agronomy and Farming Systems, Roseworthy Campus

Salary: Level B \$49,249-\$ 58,484
Level C \$60,329-\$ 69,564

The Department is responsible for research, postgraduate and undergraduate training in agronomy and related areas

across the Faculty of Agricultural and Natural Resource Sciences.

This fixed-term position is available from January 2001 for three years. Further details Professor David Coventry tek 8303 7954 or email <david.coventry@adelaide.edu.au>. Applications close 30 October 2000.

MANAGER, SECURITY SERVICES

(Ref: 7256) (Continuing)

Property Services

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

This continuing position is available immediately. Information may be obtained from John Larwood, tel 8303 4244. Applications close 27 October 2000.

TECHNICAL ASSISTANT

(Ref: 4814) (Fixed-Term)

Department of Plant Science, Waite Campus

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

To assist with the development of genetic transformation techniques for barley. This fixed-term position is available immediately until 30 June 2001. Further details Secretary, Plant Science, tel (08) 8303 7289 or fax (08) 8303 7109. Applications close 27 October 2000.

PERSONAL ASSISTANT

(Ref: 3848) (Continuing)

Human Resources

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

The Department of Human Resources is seeking to appoint a Personal Assistant to the General Manager, Human Resources. This continuing position is available from December 2000. Further details from June Sando, tel 8303 5747 or email <june.sando@adelaide.edu.au>. Applications close 3 November 2000.

PERSONAL ASSISTANT

(Ref: 10621) (Continuing)

Media Marketing & Publications

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

The Media Marketing & Publications Unit is seeking a capable person to be Personal Assistant to the manager of the web services section of the Unit. This continuing position is available from 20 November 2000, 18.35 hrs pw. Further information tel Ms Pue-San Ng on 8303 6479 or email <puesan.ng@adelaide.edu.au>. Applications close 27 October 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 6 November advertising paper work must be received in Human Resources by 20 October.

For the *Adelaidean* of 20 November, advertising paper work must be received in Human Resources by 3 November.

GENERAL NOTICES

Declaration of result

Election of undergraduate members of Council (two vacancies)

The appointed day for the election was Wednesday 4 October 2000.

There were five candidates for the two vacancies on Council, the vacancies being for one year from 6 March 2001. I declare the following candidates elected:

ELYSIA TURCINOVIC
STEPHEN MULLIGHAN

SUSAN GRAEBNER
Returning Officer

Uni Super

The merger of SSAU and TESS to form UniSuper, the tertiary education sector's main superannuation services provider, has resulted in UniSuper becoming the largest superannuation industry fund in Australia, collectively worth \$8.5 billion.

The Board announced that UniSuper has consolidated its internal operations to provide members with a single superannuation fund which will emphasise flexibility, simplicity and quality service. The merger of the investments and administration operations of SSAU and TESS is expected to happen over the next 12 months.

With a combined membership of 250,000 members, the growth of both schemes have been the result of generous employer contributions, above average investment returns and their growing membership base. In particular, SSAU has been in the top quartile of the InTech survey of market-linked pooled funds over the last five years, having averaged 14.2%. TESS credited 15.6% to member accounts for the 1999-2000 financial year, one of the top rates among the industry funds.

Staff car services

Adelaide University staff who travel as part of their work can avail themselves of new transport services following agreements between the University and two private companies, AVIS Rental Cars and Hughes Cars.

Cars may be hired at preferential rates from AVIS by phone (136 333) or via the Internet, quoting the AVIS Worldwide Electronic Billing (WEB) number and the Wizard number appropriate for your department. These numbers are available from departmental offices, faculty finance managers or Judy Telfer at the Waite Campus (ext 37345). Staff who make frequent bookings can be enrolled as AVIS Preferred Customers. Account manager for the University is Helen Thompson, tel 8221 5525 or email <helen.thompson@avis.com.au>. Staff can also avail of

the same preferential rates when they hire an AVIS car for private use.

Hughes Cars has been contracted to provide a car and driver hire service as an alternative to taxis. (The company provides the same service to UniSA and Flinders staff). Bookings must be made at least 20 mins in advance by phone 8234 0835 or fax 8234 1068. The University account number and departmental cost centre numbers, available from the department office, will be required. Staff wanting to hire a vehicle for private use can do so by calling CITICAR, a subsidiary of Hughes Cars, tel 8443 3033.

Details can be obtained from the department offices or from Judy Telfer ext 37345. General enquiries about either of the services can be referred to Bill Aukett ext 34466, email: <bill.aukett@adelaide.edu.au>.

Departmental Learning & Teaching Award 2000

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

The winner of the 2000 Adelaide University Departmental Learning and Teaching Award is the School of Architecture, Landscape Architecture and Urban Design. The prize money of \$25,000 is available to be used by the School of Architecture, Landscape Architecture and Urban Design to support continued development of their learning and teaching activities.

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

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/quality.html>>.

Further information can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Rm G04,

Mitchell Building, ext: 35511, fax: 34873, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's website: <http://www.adelaide.edu.au/DVC/quality/departmental_1&t_award.html>.

AUTC Visiting Scholar

The AUTC is sponsoring a visit to Australia by Professor Alison Wolf, Professor of Education and Executive Director, International Centre for Research on Assessment, University of London.

Professor Wolf is internationally renowned for her scholarship on the subject of assessment and qualifications.

Her research interests include the assessment of professional, technical and vocational skills, qualifications and the labour market and innovative test design.

Professor Wolf has led and participated in consultancies for numerous educational organisations, including the OECD, Schools Curriculum and Assessment Authority (UK), ministries of education in South Africa, France and the United Kingdom, and the National Council for Vocational Qualifications (UK).

Professor Wolf will be giving presentations in a number of venues around the country on topics relating to assessment in higher education.

The following presentations will be given in Adelaide:

Monday 13 November, 10.00am - 12noon:

What do 'standards' mean in higher education? Can they be national? Should they be?

Monday 13 November, 1.00pm - 3.00pm:

Assessment for learning: Can this ever be more than rhetoric?

Flinders University, Moot Court, Law and Commerce Building (adjacent to car park 2, registrants will be supplied with a map).

Register with Fran Banytis, email: <staff.development@flinders.edu.au> or tel (08) 8201 3699.



Barr Smith Library tours

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

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

RSVP to Jennifer Osborn (Reference Services).
Max of 12 per group.

Tel: 8303 3706 Email: <jennifer.osborn@adelaide.edu.au>.

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.

LearnIT 2000 Symposium

Tuesday 31 October 2000, 9.00am - 4.30pm, Bragg Lecture Theatre and Schulz Building

This symposium provides an opportunity for staff and students of the University to engage in discussion and learn about the future of Information Technologies and their role in enhancing learning and teaching at the University.

Program

- 8.30 Registration - Bragg Lecture Theatre
- 9.00 Opening: Professor P Boumelha, Deputy Vice-Chancellor, Education
Keynote Address: Professor John Bain (Griffith University) Teaching and learning with IT
- 10.00 Concurrent sessions
- 11.00 Posters, Displays and Demonstrations
(Coffee available from 11.00 and Lunch from 12.00)
- 1.00 Concurrent sessions
- 2.00 Panel Discussion: Where to with the use of IT in learning and teaching at Adelaide University?
Professor P Boumelha, Deputy Vice-Chancellor, Education
Associate Professor S Snyder, A/Director, ITS
Associate Professor T Woodbury, IT Strategic Committee
Dr G Crisp, University Learning and Teaching Committee
- 3.00 Concurrent sessions
- 4.00 Final Plenary: Professor John Bain Impressions of an outsider
- 4.30 Close

Features of the day

- Presentations of examples of the effective use of IT in teaching
- opportunity to find out about recently funded IT development projects
- discussion of problems in the use of IT in learning and teaching
- demonstration of software and hardware.

The full program, including abstracts of presentations, has been posted.

Register by phoning Sarah McFetridge (ACUE) on 8303 5771 or by email <Sarah.McFetridge@adelaide.edu.au> or register online at <<http://online.adelaide.edu.au/RSVP>>.

Promote your lectures through Museum

The South Australian Museum is willing to email its staff and State Library staff about forthcoming lectures at Adelaide University. Details of lectures should be sent to: <Meakin.Sandy@saugov.sa.gov.au>.

Netscape Calendar Courses

Professional and Continuing Education is offering training courses on Netscape Calendar for Adelaide University staff. The courses run for a half day and cost \$40.00. Spaces are limited. Please contact Nadia Tarasenko on 8303 4777 for further information or to register.

North Western Adelaide Health Service The Queen Elizabeth Hospital

A teaching Hospital of Adelaide University and the University of South Australia

Scholarship Opportunities at TQEH in 2001

Postgraduate Research Scholarships
Vacation Research Scholarships
Applications close Tuesday 31 October 2000.

Honours Research Scholarships
Applications close Friday 24 November 2000.

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

SAOA general meeting

8.15pm, Friday 27 October 2000, Charles Hawker Conference Centre, Waite Campus (enter at Waite Rd level; parking available) in Waite Rd car park).

Noted South Australian ornithologist Lynn Pedler is guest speaker at the South Australian Ornithological Association's next general meeting. Lynn will give an informative talk and slide show about the birds of Kangaroo Island. Doors open at 7.00pm. Admission is free - all welcome.

Origins of Civil Unrest lecture

12.30pm, Friday 27 October, Lecture Theatre 3, Flinders Medical Centre

The lurking racial, ethnic or religious tensions that divide many communities can be likened to lesions, the pathological processes in the human body that result from injury or disease, according to prominent British academic Sir Donald Acheson.

And these "social lesions", like their physical counterparts, can deteriorate progressively or be cyclical, he says. The tension, prejudice and envy may remain latent for decades or can express itself in segregation, intimidation and sporadic outbreaks of violence.

Sir Donald has first-hand experience of Northern Ireland and was involved in organising humanitarian relief for the World Health Organisation in Yugoslavia and Chechnya.

Public Health - 2001

STUDIES IN PUBLIC HEALTH

The Department of Public Health at Adelaide University offers a multi-disciplinary postgraduate program in Public Health to prepare graduates for careers in public health or to broaden the public health orientation of those with established careers.

The teaching aims to stimulate students to think creatively about the distribution and causes of health and illness in populations, and about policies and practices which support and improve the health of the public.

- The **Graduate Certificate in Public Health** consists of course work and can be completed in one semester of full-time or two semesters of part-time study.
- The **Graduate Diploma in Public Health** consists of course work and can be completed in two semesters of full-time or four semesters of part-time study.
- The **Master of Public Health** consists of course work and a dissertation and can be completed in three semesters of full-time or six semesters of part-time study.

Applicants to these awards may have a degree in any discipline relevant to public health. In exceptional circumstances, persons without degrees but with significant appropriate experience may be considered.

- The **Master of Medical Science** is a two year research degree. Entry to the degree is usually based on possession of a medical degree or an honours degree, but may also be granted on the basis of appropriate experience and/or evidence of a graduate's ability to undertake research.
- The **Doctor of Philosophy** is available to students who have qualified, at a high level, for an honours degree or equivalent at an Australian University, and who satisfy the department's expectations. Exemptions to the usual academic requirements may sometimes be made on the basis of appropriate experience and/or evidence of a graduate's ability to undertake research.

The Department has a strong research record and can supervise students whose research interests lie in the fields of nutrition, health policy, resource allocation, reproductive health, public health history, cancer prevention and early detection, ethics, and occupational and environmental health.

For further details and application forms, please contact Ms Linda Code, Department of Public Health, Adelaide University, Australia 5005, telephone (08) 8303 3572, or facsimile (08) 8223 4075 or e-mail <linda.code@adelaide.edu.au>. Applications for the 2001 courses close on **Friday 10 November 2000**. World Wide Web URL: <<http://www.health.adelaide.edu.au/PublicHealth/>>.

Occupational Health & Safety - 2001

Studies in Occupational Health & Safety

The Department of Public Health of Adelaide University jointly offers postgraduate courses in occupational health and safety with the University of South Australia.

- The **Graduate Certificate in Occupational Health and Safety Management** covers the essentials of OHS law and management practice, occupational health, hygiene, ergonomics, safety issues and data analysis.
- The **Graduate Diploma in Occupational Health & Safety Management** provides in depth understanding of OHS management systems, interpretation and application of OHS law, occupational health and hygiene practice and safety technology.

- The **Master of Occupational Health and Safety** offers advanced level studies in specialised areas of occupational health and safety, together with an opportunity to undertake research.

Applications are encouraged from people who have an existing graduate certificate or graduate diploma in the occupational health and safety field (appropriate status can be granted towards the masters degree).

For further information and application forms contact: Linda Code on 08 8303 3572; email - <linda.code@adelaide.edu.au> Liz Bluff on 08 0302 0351; email - <Liz.Bluff@unisa.edu.au>.

Closing date for applications: Friday 24 November 2000. World Wide Web URL: <<http://www.health.adelaide.edu.au/PublicHealth/>>.

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Dental treatment for University staff and students

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

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

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

Competitive Rates...Convenient Access

Dental School
Adelaide University

RESEARCH GRANTS AND SCHOLARSHIPS

AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

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

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

Local Government Association of SA - Local Government Research and Development Scheme: Internal closing date: Apply at any time. Web site: <http://www.lga.sa.gov.au>.

Brain Foundation - Parkinson's Research Grant 2001 & Migraine Research Grant 2001: Internal closing date: 23 October 2000.

University of Calgary, The Calgary Institute for the Humanities - Postdoctoral Fellowships 2001-2002: Internal closing date: 23 October 2000. Web site: <http://www.ucalgary.ca/UofC/Others/CIH/CIHApplication.html>.

Sir Mark Mitchell Foundation - Research Funding 2001: Internal closing date: 24 October 2000.

Australia - Israel Scientific Exchange Foundation (AISEF) - Postgraduate Research Fellowship: Internal closing date: 24 October 2000.

Australian Greenhouse Office - Funds for Renewable Energy Projects: Internal closing date: 24 October 2000. Web site: <http://www.greenhouse.gov.au>.

The Ditchley Foundation - conferences: Internal closing date: 24 October 2000. Web site: <http://www.anu.edu.au/cabs/general/ditchley.html>.

Australian Academy of Science - Scientific visits to the United States of America, Canada and Mexico: Internal closing date: 25 October 2000. Web site: <http://www.science.org.au/internet/exchange/usavis.htm>.

National Heart, Lung, & Blood Institute, USA - Supplements for Embryonic Cryopreservation of Rats in Hypertension Research: Internal closing date: 26 October 2000. Web site: <http://www.nih.gov/grants/guide/pa-files/PA98-98-009.html>.

Australian Academy of Science - Award for Research on the Conservation of Endangered Native Animals: Internal closing date: 30 October 2000. Web site: <http://www.science.org.au/awards/conservation.htm>.

University of Jerusalem - Golda Meir Fellowships: Internal closing date: 30 October 2000.

Juvenile Diabetes Foundation Australia - 2000 Travel Grants for Young Researchers: Internal closing date: 31 October 2000. Web site: <http://www.jdfa.org.au>.

Ramsay Memorial Fellowships Trust - 2001-2003 Fellowships: Internal closing date: 1 November 2000.

Department of Education, Training and Youth Affairs - Longitudinal Surveys of Australian Youth Analysis Grants: External closing date: 8 November 2000. Web site: <http://www.detya.gov.au/tenders/tenders.asp>.

Australian Petroleum Production and Exploration Association Limited - Tony Noon Memorial Fund (grant for

current or recent Honours students): Internal closing date: 17 November 2000. Web site: <http://www.appea.com.au>.

Rockefeller University - Rockefeller Archive Centre Residencies and Grants-in-Aid: Internal closing date: 17 November 2000. Web site: <http://www.rockefeller.edu/archive.ctr/ac.giap.html>.

Japan Foundation - Annual Grant Program: Internal closing date: 24 November 2000.

Australian Telescope National Facility, CSIRO - Bolton Postdoctoral Fellowship: Internal closing date: 24 November 2000. Web site: <http://www.atnf.csiro.au>.

Fisheries Research and Development Corporation - Research Funding: Internal closing date: 24 November 2000. Web site: <http://www.frdc.com.au>.

University of Cambridge - Corpus Christi College - Visiting Fellowships: Internal Closing Date: 1 December 2000. Web site: http://www.corpus.cam.ac.uk/fellowship/visiting_fellow.shtml.

American Association of University Women Educational Foundation - International Fellowships for 2001-2002: Internal closing date: 15 December 2000. Web site: <http://www.aauw.org>.

Middle East Desalination Research Centre - Improvements in the Low Energy Vapour Compression Distillation Technology: Internal Closing Date: Pre-proposals submitted any time; Full proposals 15 January 2001. Web site: <http://www.medrc.org.om>.

The Channel 7 Children's Research Foundation of SA - Research Grants: Internal closing date: 29 January 2001.

Australian Museum - 2001 Eureka Prizes (for Environmental Education; Industry; Critical Thinking; Environmental Journalism; Promotion of Science): Internal closing date: 2 February 2001. Web site: <http://www.austmus.gov.au/eureka>.

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

Alexander von Humboldt Foundation

- Humboldt Research Awards for Foreign Scholars
- Alexander Von Humboldt Foundation - Humboldt Research Fellowships for Foreign Scholars

Applications may be submitted at any time. Nominations must be made by leading German scholars or research institutions. Direct applications are not accepted. Please note: The Selection committee meets three times a year, usually in March, July and November. The Foundation must receive applications by the Secretariat at least five months prior to these meetings. Web site: <http://www.avh.de/en/index.htm>.

Australian Vice-Chancellors' Committee / DETYA - Bradlow Research Fellowship: Applications may be submitted at any time.

Ian Potter Foundation and Ian Potter Cultural Trust - Grants/Travel Grants: Various closing dates. Web site: <http://www.ianpotter.org.au>.

Rural Industries Research & Development Corporation (RIRDC) - Conference & Workshop Travel Support Program: Applications will be accepted throughout the year but must be received by the Corporation at least three months prior to the planned travel date. Web site: <http://www.rirdc.gov.au>.

Earthwatch Australia: Centre for Field Research (CFR) - Research Grants: Web site: <http://www.earthwatch.org/cfr/cfr.html>.

International Union Against Cancer (IICC) - International Cancer Fellow-

ship: International Cancer Technology Transfer Fellowships (ICRETT): No closing date, selection results within 60 days. Web site: <http://www.uicc.ch/>.

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

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

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

Australian Centre for International Agricultural Research (ACIAR) - Projects: Applications may be submitted at any time. Web site: <http://www.aciar.gov.au/>.

Australia Council for the Arts: The Council offers a variety of funding opportunities - New Work; Presentation and Promotion; Development; Triennial Grants; Fellowships; Partnerships; and Commissions. Web site: <http://www.ozco.gov.au>.

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

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

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

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

Commonwealth Department of Veterans' Affairs - Local Commemorative Activities Fund: Internal closing date: Apply at any time. Web site: <http://www.dva.gov.au/health/grants/grants.htm>.

Cotton Research and Development Corporation (CRDC) - Research Projects Grants, Scholarships, Awards: Applications may be submitted at any time (however, main funding round occurs in January). Web site: <http://www.crdc.org.au>.

Alexander von Humboldt Foundation - Max Planck Research Awards for International Cooperation: (any academic discipline): Applications may be made at any time. Web site: http://www.avh.de/en/programme/stip_aus/stip_01.htm.

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

Industry, Science & Resources; Dept of (DISR), Technology Diffusion Program (TDP): This program has three integrated components:

- Technology Alliances (including 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>.

Scholarships

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

Adelaide Postgraduate Coursework Scholarships: Available to students intending to enrol in a Masters by coursework at Adelaide University in 2001. Applicants must be Australian citizens or Permanent Residents; have completed four years of tertiary study and have been awarded a First Class Honours or equivalent. Awards are not available to those who will be receiving in 2001 another equivalent scholarship/award to undertake the proposed program. Applicants should apply separately for admission into the proposed course. Closing: 31 October (Student Centre).

Australia-Israel Scientific Exchange Foundation - Postgraduate Fellowship: Open to students enrolled in a postgraduate degree at an Australian university to spend up to six months working in a research laboratory in Israel. Value: up to \$5000. Further information and applications available from <http://www.swin.edu.au/research/>. Closing: 30 October (Vic).

Australian Postgraduate Awards/ Adelaide University Scholarships 2001: Available to students intending to enrol in a PhD or Masters by research at Adelaide University in 2001. Applicants must be Australian citizens or Permanent Residents, have completed four years of tertiary study and have been awarded a First Class Honours or equivalent. Awards are not available to those who will be receiving in 2001 another equivalent scholarship/award to undertake the proposed program. Closing: 31 October (Student Centre).

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

Cambridge Australia Trust Scholarships 2001 (including Packer and Poynton Scholarships): The Trust in collaboration with the Cambridge Commonwealth Trust in the UK are offering 12 scholarships annually for PhD, and others for one-year professional masters students. Total value of PhD scholarships is more than \$140,000. Enquiries to: the Honorary Secretary, Cambridge Australia Trust, GPO Box 93, Canberra ACT 2601, tel: (02) 6248 7744, fax: (02) 6248 6287. Full details available from <http://www.anu.edu.au/cabs/scholarships>.

Don Dunstan Foundation Postgraduate Research Scholarship 2001: Open to full-time postgraduate research students (PhD or Masters) for study at Adelaide University, Flinders University or University of SA. The scholarship will be offered in areas fostering research and education on a broad range of issues concerning social development. Closing: 10 November (Student Centre).

East-West Centre - Scholarships and Fellowships 2001: Tenable at the University of Hawaii at Masters and PhD level. Applicants must be citizens or permanent residents of the USA or citizens of countries in Asia and the Pacific including Russia. Further details available from <http://www.EastWestCenter.org/edu-sp.asp>. Closing: 1 November (USA).

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