

'Startling intelligence' of predatory octopus the key to rock lobster industry project

THE UNIVERSITY OF ADELAIDE has won a \$400,000 grant to help the South Australian rock lobster industry solve the significant problem of octopus preying on lobster pots.

The nationally competitive grant will provide PhD student Mr Danny Brock with \$200,000 over three years from the Fisheries Research and Development Corporation and a contribution of equal value from SA's rock lobster industry through the time and resources of fishers.

Commitment by the industry to education and continued sustainability and economic growth has led to a burgeoning relationship with the University of Adelaide's Department of Environmental Science and Management.

"The industry is driven to solve this problem to improve its sustainability, save costs and make money," says Mr Roger Edwards, Executive Officer of the South Australian Rock Lobster Advisory Council.

"They are the commercial aspects but the industry has also made the decision to give something back to the wider community of South Australia.

"This is the first time we have linked

with a university in a scholarship program and the work that Danny is doing is the first step of this program," he said.

There are 260 commercial lobster fishing licenses in the State with 16,000 lobster pots used daily over a seven month season.

The pots—hemispherical shaped baskets with a funnelled top—are baited and left overnight, catching about one kilo of lobster per pot each day along with ensnared predators. Ninety percent of those predators are octopus.

Generating approximately \$100 million in export revenue for the State and sustaining close to 2000 jobs—primarily in regional South Australia—the rock lobster industry loses approximately \$3 million each year to octopus predation.

While 5 percent of lobster killed by octopus would have been sold overseas, a further 5 percent would have been thrown back either because they were undersized or because they were carrying eggs, representing a reasonable future stock loss.

Safe stocks and sustainable fishing make SA's rock lobster fishery among

the best managed in the world.

"Even though this species of octopus is distributed right across the southern Australian coast line and New Zealand, very little research has been done on its ecology and distribution or the economic impact it has on the fisheries," Mr Brock said.

"The basic questions need to be answered before solutions can be intelligently attempted and these questions form the major directive of my PhD."

Mr Brock, who is supervised by Mr Greg van Gaans and Professor Hugh Possingham, is currently analysing data recorded by lobster fishers over the last 15 years which note when, where and how octopus predation occurs.

He will then undertake ecological and behavioural studies of the octopus to better understand their entry and attraction to lobster pots.

As the octopus is notoriously difficult to observe in its natural habitat, a lobster fisherman has offered to establish an artificial habitat under sea to attract octopus for the study.

A major consideration in eventually finding a solution to the problem is

the startling intelligence of the octopus—one videoed study shows an octopus successfully gaining access to crabs contained inside a glass jar with a screw top lid.

Mr Brock says a group of psychologists in the 1960s found that octopus could be trained by conditional learning much like Pavlov's dog.

So will there be a Brock Lobster Pot one day?

Some ideas are brewing which will be trialed and tested over the next three years.

A second PhD student, Mr Mike Hart as well as 10 second year students from the Department of Environmental Science & Management are also working with the SA Rock Lobster Advisory Council on other projects and the Council is negotiating to support another four or five undergraduate honours projects.

"So we're investing in the future and the community of South Australia as well as benefiting the industry. The fact that we're investing in education in these areas is a good thing," Mr Edwards said.

—Rebekah Washington

Deputy Vice-Chancellor to return to Department

THE DEPUTY VICE-CHANCELLOR, Professor Doug McEachern, has decided to return full-time to his position as Professor of Politics at the beginning of next year.

Professor McEachern is well-known for his work on the politics of business, with a particular focus on environmental conflict and policy-making in Australia, South Africa and the Asia-Pacific region.

The Vice-Chancellor, Professor Mary O'Kane, thanked Professor McEachern for his support for the University during his time as Deputy Vice-Chancellor.

She said she would be looking at the management structure with a view to fine-tuning it, following the appropriate consultation and consideration.



All staff and students of the Faculty of Performing Arts gathered together in Elder Hall for this historic photograph to mark the Centenary of the Elder Conservatorium celebrations last month. It is believed to be the first time that the entire Faculty has been photographed. Photo courtesy of Di Kidd. More Centenary photos on Page 8.



Conventional Lifelong Learning

It was a great convention. The speeches were inspiring, controversial and challenging. At the breaks the delegates stood around in animated groups greeting old friends and animatedly discussing the talks they'd just heard. Everything was well organised, even if the giant robot academic did shatter a wine glass as she tried to hug the Deputy Chief Minister of Sarawak after he gave her a rose.

Above all, the convention is a great tribute to Michael Abbott QC, and his team, who organised it so meticulously, assembling a great cast of speakers and constructing a range of complementary events.

It's a tribute to those who "invented" it at the Malaysian Australian Foundation dinner in Kuala Lumpur in 1996. It's a tribute to those wonderful graduates of South Australian universities in Malaysia who, under the banner of "A is for Adelaide", grabbed the event for their adopted city. It's a tribute to Harry Medlin, the original Chair of the organising committee.

It's a tribute to the three South Australian universities which worked together to support the conference. It's a tribute to our magnificent sponsors who provided money and other support. It's a tribute to the State; the Governor showed great hospitality, and the Premier and his government gave generously in both time and funds.

I'm talking about the first Australian Universities International Alumni Convention. It's the first time ever, as far as we can tell, that all the universities of one country have held a combined convention for all their Alumni.

Initially I had my doubts about this style of convention. Conferences are usually specialist in nature and even with the best of themes it's always an effort to organise a good conference. And successful Alumni events often take the form of parties or get-togethers where people can reminisce and renew acquaintances.

So I was delighted at the obvious success of the convention. In particular I enjoyed the audience's unflagging interest in the topics discussed—from the tales of our astronaut, to the focus on the future at the final session. They liked the fiery debate between Barry Jones and others about the future of universities, liked reviewing the past with Richard Neville.

Their enthusiasm leads me to believe that graduates of Australian universities are interested in the development of big issues. It is, if you like, a form of lifelong learning, listening to a stimulating talk and then participating in discussions, whether formally or informally during breaks in a conference program. I suspect this form of lifelong learning, offered through a convention such as this, is much more powerful than we realise.

I'm convinced that this first Australian Universities International Alumni Convention will not only be the start of a great series of Alumni Conventions, but should, at least in our own University, be the start of considerable debate about the future forms of lifelong learning.

MARY O'KANE

COMMENTARY

THE MALAYSIAN TWINNING PROJECT

Sepang Institute of Technology, Klang Campus in Malaysia opened its doors to students at the beginning of 1996. Among those entering S-I-T there were around 200 students enrolled in University of Adelaide courses through a "twinning" arrangement between the two institutions. The twinning project allows students to study the first two years of their courses in Malaysia at S-I-T and then to complete their degrees in Adelaide. The project was hailed as an essentially win-win situation for all concerned. Students have the opportunity to obtain prestigious degrees at a much reduced cost. The close association with our University ensures S-I-T's image as a quality institution. Our University's overseas student numbers would increase, significantly boosting our income as well as our influence and reputation in South East Asia.

As Academic Director for this project I visited Malaysia almost monthly averaging 10 days each time. My role turned out to be manifold: from doing quite mundane clerical tasks to formulating policies and to public relations. There is much that I could write about our project, about Malaysia, S-I-T, successes and disappointments, triumphs and pitfalls, friends and foes. Here I shall just take a brief look at the twinning project strictly from our University's point of view and then attempt to crystal gaze a little.

Contact and collaboration at the individual level between staff members of the University and of Malaysian institutions have existed over many years. At the institutional level Malaysia has been an important source of international students going back to the days of the Colombo plan. Indeed, Adelaide alumni are spread through Malaysia and many occupy important positions in government, commerce and industry. Malaysia continued to be a very important source for subsidised undergraduate students and became the University's single most important source of full fee paying undergraduate students, reaching dominance in 1998. The table below shows new enrolments from Malaysia in the years 1997 and 1998.

New enrolments from Malaysia

	1997	1998
Direct entry	65	53
Transfer from S-I-T	19	196
TOTAL	84	249

In 1997 there were 65 direct entry students but total numbers were larger by about 30% due to the "leakage" of S-I-T twinning students after the first year of operation of the Klang campus. In 1998 the number of direct entry students dropped but look at the dramatic increase in total new enrolments from Malaysia in 1998 due to the transfer of twinning project students from S-I-T after the second year of operation of the Klang campus. The figures in this table illustrate unambiguously the prime importance of the project for securing full fee paying students from Malaysia. As well, there is the promise that, through our much increased number of future graduates, our position, influence and opportunities will inevitably rise in Malaysia and perhaps more widely in the region of South East Asia.

What can I say about the "quality" of the students who have completed their first two years of studies at S-I-T?

The Engineering Departments and the School of Commerce have carried out a comparison of the 1998 semester 1 results of level 3 students who did and who did not, respectively, complete their first

two years at S-I-T. The table below is a compact summary of these surveys giving the percentages of grades achieved in the sum of all subjects by the groups of students.

1998 Semester 2 Results

	High Distinction Distinction	Credit	Pass Conceded Pass	Fail Withdraw Fail
Engineering				
non-S-I-T	27%	22%	35%	16%
ex-S-I-T	27%	21%	42%	9%
Commerce				
non-S-I-T	14%	34%	43%	9%
ex-S-I-T	13%	43%	43%	1%

The comparison shows that the performances of the two cohorts of students are similar in the high scoring regions but that the failure rate of ex-S-I-T students is significantly lower compared with their non-S-I-T equivalents. The comparison indicates that, on average, the preparation of the students in their first two years at S-I-T for their further studies was at least as good as at Adelaide University.

One concludes that our twinning project students are of high quality, they enter the University well prepared and, judging from their low failure rates, they are prepared to work very hard.

1998 was the first year when the University received the full impact of the existence of the twinning project manifested in the significant jump in the number of high quality full fee paying overseas student enrolments. What can I say about the future?

There was never any doubt about the Malaysian Government's intention to provide eventually most, if not all educational needs for Malaysians through local institutions. Indeed, the "twinning" concept itself may be seen as an interim measure, a partial solution, heading towards this aim. The recent economic downturn has then given the chance to the Government to accelerate the process and we are now witnessing rapid new developments including

- the establishment of Malaysian private universities,
- the establishment of branch campuses by overseas universities,
- the introduction of full-degree courses by overseas twinning partners in private institutions,
- twinning arrangements between private colleges and Malaysian universities.

In view of such an explosion of opportunities to be able to complete quality degrees in Malaysia the pool of Malaysian students who would wish, nevertheless, to study overseas must drastically decrease. Without any doubt, the competition for students by private colleges and universities in Malaysia will intensify as a result. I believe that even in this environment viable numbers of students can still be recruited into the twinning project and S-I-T has the competitive strength to do so. This strength rests partly on the reputation of our University, partly on Adelaide as a pleasant and relatively safe place to be, but much more importantly, on the quality and care of delivery of our courses at S-I-T itself. The future will be determined, accordingly, by the continued interest, commitment and enthusiasm of our staff involved in the project and by appropriate resources being made available for staff and students at S-I-T.

—Dr Tom Kurucsev



ADELAIDEAN

John Edge
Editor

Julie Ryke
Layout

Printed by
Cadillac Color

Writers
Tony Cox
David Ellis
David Washington
Rebekah Washington

Contributors
Elizabeth Butler
Adrienne Eccles
Anne Lucas
Geoff Sauer

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Room G07 Mitchell Building, South Australia, 5005. Tel (08) 8303 5174; Fax (08) 8303 4838; Email: jryke@vco.adelaide.edu.au
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The newspaper of The University of Adelaide

Peace pole planted in Wills Court

A SEVEN-FOOT POLE bearing the message "May Peace Prevail On Earth" along with messages of peace written by members of the community has been "planted" at the University of Adelaide.

Adelaide University is the first in Australia to have a Peace Pole planted in its grounds.

The pole was presented by the World Peace Prayer Society, Japan, ESCEF (a non-profit educational organisation and affiliate of the Society in Adelaide), and the University's Office of Professional & Continuing Education.

The World Peace Prayer Society (WPPS) is a United Nations non-governmental organisation which works to support the UN in realising its mission of world peace. One of the key activities of the WPPS is the Peace Pole Project.

Since 1976, more than 100,000 Peace Poles have been planted in 160 countries. Peace Poles can be found in city squares, schools, places of worship, parks, gardens and businesses.

The Peace Pole encourages those who pass by to think of and foster world peace and the unity of all nations and peoples.

The four-sided pole carries the message "May Peace Prevail On Earth" in different languages—a message endorsed and supported by such eminent people as Boutros Boutros-Ghali, Mother Teresa, Pope John Paul II and the Dalai Lama.

Adelaide's pole was planted in Wills Court (North Terrace Campus) at a peace dedication ceremony on Tuesday, 6 October.

The pole bears its message in English, Japanese, French and the Kurna Aboriginal language, and was translated into Kurna with the support of the University of Adelaide's Aboriginal Programs unit, Wilto Yerlo.

Individual peace messages written by members of the community on pieces of paper were also placed inside the hollow pole.

"In the climate and times that we live in, the message of peace is a powerful and important one," said Ms Aggie Lim, director of the Office of Professional & Continuing Education.



Ms Eila Laurikainen (ESCEF), Ms Aggie Lim (Office of Professional & Continuing Education), and Ms Nicole Cressiot (WPPS) with the newly planted Peace Pole. Photo: David Ellis

"It is very important to us that the University of Adelaide plays a role in this way—encouraging others to think of, and foster, world peace and supporting the unity of all nations and peoples."

—David Ellis

Inaugural Lectures: from DNA to asthma

AN ADULT HUMAN is arguably the most complicated organism in existence, yet it is put together from a single microscopic cell using the stored and inherited information written in the DNA sequence. When the human genome project is complete, this sequence will be able to be stored in a few CD-ROMs.

In the next in the Spring 1998 Inaugural Lecture series, Professor Robert Saint from Genetics explores how the DNA sequence controls the remarkable process of animal development.

The lectures look at two important aspects of the development of an animal. The first is the way that different genes act in different positions of the embryo to generate patterns of differentiated tissue types resulting in, for example, a front and a back with different

tissues distributed in between.

The second is the way that cell division is controlled to produce the correct number of cells of a particular type, a process made particularly significant by the fact that unregulated cell proliferation results in cancer.

"Studies such as these have given us a clear picture of how the genetic information is read to produce an animal," Professor Saint said.

"They have also provided some surprises about the nature of processes used in very different animals and revealed some quirky relationships between the body plans of different animals."

The lecture is on Friday 16 October at 1.15pm in Napier Theatre 102.

The following Friday, Professor Richard Ruffin from the Department of Medicine will talk about asthma

and emphysema in his inaugural lecture, 'Breathing Problems: Where from - Where to?'

Professor Ruffin will use asthma as an example of respiratory disease to describe changes in prevalence mortality and in management practice over time.

He will review the current status of asthma in South Australia, speculate on future approaches to introduce new management and therapeutics, and discuss the setting of targets for asthma morbidity.

"Emphysema will be used to introduce the topic of resource allocation in health care into the next century and discuss the role of the University in fostering the debate," he said.

Professor Ruffin's lecture is on Friday 23 October at 1.15pm in Napier Theatre 102.

October graduations a special occasion for all

GRADUATION is a special time for students, staff, friends and family—and the ceremonies on Monday, 12 October will be no exception.

Almost 390 students will attend the two ceremonies: 163 in the morning (Agricultural & Natural Resource Sciences, Dentistry, Engineering, Mathematical & Computer Sciences, Medicine and Science) and 225 in the afternoon (Architecture & Urban Design, Arts, Economics & Commerce, Law and Performing Arts).

Postgraduate students are strongly represented this year, with 64 PhD and 52 Masters students taking to the stage in Bonython Hall.

The morning's speaker will be Professor of Economics Jonathan Pincus, convener of Academic Board. NASA astronaut Dr Andrew Thomas will address the afternoon ceremony.

The commemoration ceremonies will also see former Chancellor Mr William Scammell receive the degree of Doctor of the University (DUniv)

in recognition of his outstanding contribution to the University of Adelaide's aims and ideals.

The citation for the award notes how the vigorous support of the University by such a prominent member of Australia's business community as Mr Scammell "has contributed to a subtle 'culture shift'—a shift which has seen the old barriers between higher education and industry progressively lowered."

—David Ellis

NEWS IN BRIEF

DENTISTRY AWARD

Dr Tony Rogers, Reader in Oral Microbiology in the Department of Dentistry, has won the Alan Docking IADR Science Award, presented at the recent Annual Meeting in Brisbane of the Australasian Division of the International Association for Dental Research.

The award is made on the basis of "outstanding scientific achievement in the field of dental research over a period of time", and is assessed on the basis of published work.

JUDITH BRINE: EDUCATION FOR THE PROFESSIONS

The fifth of a series of Web presentations is now on the ACUE's 25th Birthday site: <<http://www.acue-adelaide.edu.au/25th/acue.html>>.

Professor Judith Brine is Head of the Division of Performing Arts, Law, Architecture and Urban Design, Economics and Commerce.

The Learning and Teaching Plan of the University speaks of achieving learning and teaching of international distinction by effective utilisation of feedback from students, employers and professional bodies.

Professor Brine raises the following questions:

- Why do universities allow professions a large say in determining course content?
- If content is largely determined outside the university how does research effort relate to undergraduate teaching?
- If research is not emphasised in undergraduate teaching how is it promoted to the new graduate?
- If research has a low priority with professions how does that affect ways in which new knowledge is able to contribute to professional performance?
- Is there anything special about professional education which is of interest to other disciplines?

Staff and students are invited to visit the Web-based presentation, and to attend the face-to-face seminar in the ACUE on Tuesday 20 October to discuss the issues raised.

SUTHERLAND MEDAL FOR JET NOZZLE TECHNOLOGY

Dr Gus Nathan from the Department of Mechanical Engineering has been awarded the prestigious KL Sutherland Medal for 1998.

The medal is awarded annually by the Australian Academy of Technological Sciences and Engineering for "achievements in the application of Science for the benefit of the community".

The nomination was based on Dr Nathan's discovery, in association with Professor Sam Luxton, of the precessing jet nozzle.

The nozzle provides a new method of mixing fuel and air, which can greatly reduce NOx emissions and improve stability and flame performance.

The precessing jet nozzle has been developed and commercialised in collaboration with industry partner Fuel & Combustion Technology (FCT) International.

Detecting metal ions to save brain power

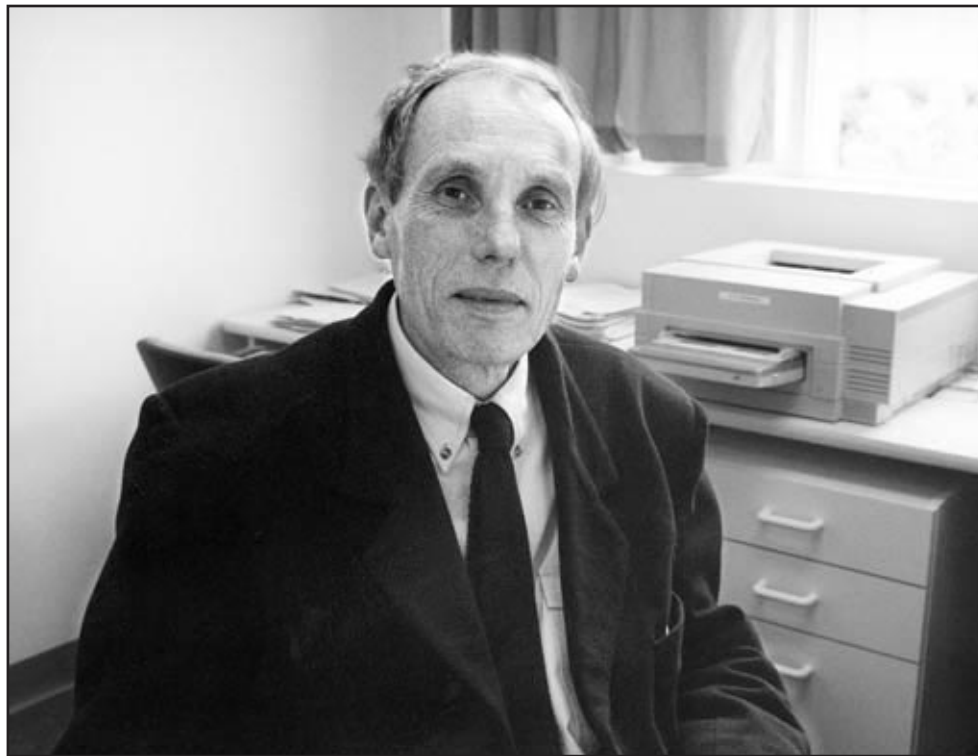
"IF CHILDREN between 1 to 4 years of age have blood lead readings above a certain level, their intellectual development will be significantly and permanently impaired," says Associate Professor David Ward in explanation of his work on chemical indicators.

"This is an issue the National Health and Medical Research Council regards with particular urgency, and improved detection strategies have a key role to play in response," he said.

Associate Professor Ward has been working with Professor Stephen Lincoln since the early 1990s in the Department of Chemistry at the University of Adelaide on the development of chemicals which fluoresce in contact with particular metals in cells, plasma and water samples.

They hope to produce, as one outcome of their work, a simple test kit which can be used by health workers in the field to readily identify people at risk from elevated blood lead levels.

They first became involved in this area as a result of collaborations with researchers at the Queen Elizabeth Hospital who were studying the role of zinc within cells. In particular, they wanted to know whether the presence of 'available zinc'—zinc ions not strongly bound to proteins—caused changes in cell functioning, or merely resulted from such changes. To answer this query, a chemical was needed to indicate when and where



Professor Stephen Lincoln: test kits for blood lead levels. Photo: David Ellis.

available zinc was liberated.

Enter Professors Ward and Lincoln who used their skills in chemistry to produce the required molecules, one of which is now marketed under the name Zinquin to laboratories worldwide. As a result, researchers are able to see changes in available zinc levels as the cells perform their metabolic functions—like, for example,

when embryonic cells divide, and the process by which cells die.

As an extension of this work, David Ward and Stephen Lincoln began exploring the possibilities of making easily portable detectors to test for other metal ions, including the detection kit for lead in blood as well as detectors to test water samples for aluminium and the heavy metals,

lead, cadmium and mercury as a group.

In the case of lead detection, the advantage of this technology over existing laboratory procedures is that people with relatively high blood lead levels can be identified quickly in the field, thereby eliminating the need to run costly and time-consuming laboratory tests on an entire population.

"The test will work essentially like a breathalyser does for roadside testing of alcohol consumption which indicates if more precise testing is necessary," Professor Lincoln said.

The test kits for the other metals also promise to make work easier for researchers in other sciences too; for example, enabling environmental toxicologists to map out contaminant metal ion concentrations while in the field.

"This is a particular problem in European countries where houses are built on mine tailings in some areas. People live surrounded by metal ore dust which they breath in constantly, and in some cases the vegetables grown in these soils also contain alarmingly high concentrations of toxic metals," said Professor Lincoln.

While work on the chemical indicators is well advanced, David Ward and Stephen Lincoln estimate that it will be at least several years before the test kits go on sale, depending on the interest and availability of a production partner.

—Tony Cox

Creative discussion at computer conference

A MAJOR computer science conference was held recently at the University of Adelaide.

Delegates from Australia and overseas attended the 5th Australasian Conference on Parallel and Real-Time Systems (PART'98) at the University on 28-29 September.

The conference was opened by the Minister for Information Services and Administrative Services, Mr Wayne Matthew, with delegates also welcomed to Adelaide by the Vice-Chancellor, Professor Mary O'Kane.

The aim of PART is to bring together Australasian and international researchers actively involved in research in

the developing fields of parallel and real-time systems, fostering creative discussions in a workshop-like atmosphere.

This year more than 40% of the papers were delivered by international speakers, with delegates attending from Germany, USA, Japan, Belgium, Finland, UK, Hong Kong, Singapore, Switzerland and Belarus.

Papers were of a high international standard and the conference was highly successful due to the dedicated efforts of the program and organising committees.

Renowned computer scientist Professor Niklaus Wirth (ETH, Zurich), famous for his

pioneering work in programming languages including the creation of Pascal, presented a stimulating keynote talk on Hardware Compilation and its impact on the field of reconfigurable computing.

The Adelaide-based software company, SYDAC, generously supported the conference as the major sponsor.

PART'98 was followed by the Australian Master Class on Reconfigurable Computing held at the University of South Australia.

—Michael Oudshoorn, Chair, PART'98 Organising Committee



Head of the Department of Computer Science Professor Chris Barter, Minister for Information Services and Administrative Services Mr Wayne Matthew, and PART'98 convener Dr Andrew Wendelborn. Photo: David Ellis

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Reflections on engineering over 15 years

AFTER 15 YEARS of service as an academic, researcher and senior administrator, Professor John Agnew is to retire from the University of Adelaide at the end of this year.

Professor Agnew, a graduate of Sydney and Monash, began his academic career with Melbourne and Monash universities before accepting a chair in Chemical Engineering at the University of Adelaide in 1983. He has played a key role as head of the department, dean of the Faculty of Engineering and head of the Division of Engineering & Mathematical Sciences.

Before taking study leave this semester, Professor Agnew spoke with David Ellis about his retirement.



Professor John Agnew: leaving the University of Adelaide after 15 years. File Photo.

JA: After I graduated from Sydney University I had planned to make my career in industry, and it was through a chance opportunity that I was offered to become a lecturer at Melbourne. I took that up and I've been in academic life ever since.

I've found that in academic life there have been a lot of opportunities to do things that I might not have been able to do in industry, and it's been a very satisfying career.

I've particularly enjoyed teaching—I've really enjoyed the contact with students. And the one feature of Adelaide has been the very high quality students, high quality not just in terms of their academic ability but also their personal qualities.

DE: What have been some of the major changes over the last 15 years?

JA: When I came here in 1983 we had four separate engineering degrees: chemical, civil, mechanical, and electrical & electronic. Since then we've developed four additional programs. We added environmental, computer systems engineering, IT&T, and a new degree in Mechatronic Engineering which has started this year.

What we've also done is expand the opportunities for engineering students, to broaden their education into other areas. So we've introduced combined degree programs which enable students to follow other interests and integrate those interests with engineering. Around 60-70 students coming into first year will choose that double degree option. It is a very important option to have. We don't just want engineering students to be technocrats, we want them to be broadly educated people.

As a result of that—the expansion of the number of degrees, offering the combined degree programs—we now have the highest cutoff score of any engineering school in Australia. The higher your cutoff score is the more attractive you become to bright students, so we're now attracting some very bright students indeed.

Over the years the Faculty has also developed a much stronger interaction with Mathematical Sciences, particularly through Applied Maths and Computer Science. In very recent years through the expansion in IT&T we've had a growth in activities that has spanned our two faculties. For example, the Teletraffic Research Centre, the Centre for Telecommunications Information Networking, the CRC for Sensor Signal & Information Processing, and CHiPtec—all of those span that field of IT&T.

What we decided to do within our Division was to set up a new institute, an umbrella institute called the Institute of IT&T, to link up activities that cross those borders, to bring them together, and I think that's been quite an advance.

DE: Has the profile of the typical engineering student changed over the years?

JA: One activity that I have put a lot of emphasis on is attracting women to engineering. Our education is about diversity of background, diversity of viewpoint, diversity of approach.

Engineering never involves one answer, and different viewpoints play a valuable role. We've been gradually increasing the numbers of female students up to about 20%. In some courses, in Civil & Environmental and Chemical Engineering, the proportion of women has been as high as 50%. It makes a big difference to have a substantial number of women in the class, and that has very beneficial effects.

This year in Engineering 20% of our students are international students. Next year, with the new group coming from SIT, that will increase to 25%. That's a very substantial number of international students. International students in South-east Asia are very attracted to engineering. We have an outstanding reputation and the fact that the course has very high entry standards means that we'll become more attractive to the best students.

DE: Is there any one achievement that you're most proud of over the last 15 years?

JA: When I started at the university, Chemical Engineering was depleted of staff. One thing I am particularly proud of is that I managed to attract some very good new staff, and they were very productive and active to the point where we were told several years ago that we topped a citation index based on a survey of top UK and Australian schools of chemical engineering.

Another thing has been taking on the job of bringing together the two faculties and making a Division and making it work. That has given me great satisfaction.

Seeing young staff members doing so well and going on to great things has also given me great satisfaction, as well as seeing the achievements of our students.

DE: What does the future hold for you?

JA: I have been very keen to "retire" before I get too old to really enjoy life. I have a great list of things to do.

I've been offered a Visiting Professorship at the University of Wyoming for a semester. While I'm in the US I'll be doing some work in conjunction with the CRC for Power Generation, and when I get back I'll continue to be involved with the CRC.

My old department has offered me an office and I'll continue working on some of the problems I've left behind. I'm also keen to follow up some matters that are related to our objectives; internationalisation is one.

While I'm in the US I'll be looking for opportunities for the University, encouraging students to come to Adelaide for their education.

At this stage I'm not looking too far ahead. My wife and I enjoy travelling, so hopefully we'll have a bit more time to that.

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National Prize for Adelaide's young Chemical Engineers

THE NATIONAL 1998 Student Design Prize, awarded by the Institution of Chemical Engineers in Australia and sponsored by Kvaerner Process Industry Consultants, has been won by a group of 1997 final year students from the University of Adelaide's Department of Chemical Engineering.

Their project, "Co-production of Electric Power and Methanol from Loy Yang Low Rank Coal", won the award for the best chemical engineering design project submitted by 4th year students from all Australian Chemical Engineering departments.

The presentation was made at the recent CHEMECA 98 joint Chemical Engineering Conference of the Institution of Chemical Engineers, Institution of Engineers Australia and the Royal Australian Chemical Institute.

The project received a special commendation for the obviously effective teamwork demonstrated by the nine students involved—Karen Lee, Li Ping Lim, Richard Markowski, Andrew Nation, Thomas Pritchard, Adrian Querzoli, Darika Sowana, David Sweeney and Naeim Yousefpour—who shared the \$3000 award.



Above right: Adelaide graduate Andrew Nation (on special leave from BP Refineries at Kwinana, WA) receives the award on behalf of the group from Mr Lindsay Wheeler of Kvaerner Process Engineering Consultants. Photo courtesy of Engineering Faculty.

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LINCOLN COLLEGE
(AFFILIATED WITH THE UNIVERSITY OF ADELAIDE)



Applications are invited from suitably qualified women and men for the positions in the College in 1999 of

**Vice Principal
Senior Tutor**

Lincoln College is affiliated with the University of Adelaide and is located in parkland 15 minutes walk from the university. It is an incorporated body within the Uniting Church of Australia. It provides accommodation and academic, pastoral and social support to 240 local, interstate and international undergraduate and postgraduate students in a caring collegiate environment.

The College seeks people who have a record of achievement in an academic or other professional field with demonstrated skills in areas of leadership, communication and administration, who possess an empathy for students, both local and overseas, and are willing to take a leading role in the academic, pastoral and social life of the College. Applicants for the positions should have completed an undergraduate degree and, normally, have completed or be undertaking post graduate studies. The positions are particularly suited to junior members of academic staff or post-graduate students. Both the Vice Principal and the Senior Tutor are expected to reside in the College and to involve themselves closely in all aspects of its life.

The positions are part-time with primary responsibility being exercised in the evenings and on week ends. The positions are remunerated and accommodation, meals and other benefits are provided

Applications close on 30 October 1998 and should be addressed to:

The Principal
Lincoln College
45 Brougham Place
North Adelaide SA 5006

For further information phone (08) 8290 6000 or email the Principal on p_gunn@lincoln.college.adelaide.edu.au

Reaching out to taste of Uni life

YEAR 11 students from three South Australian high schools have had the chance to taste life at the University of Adelaide.

The students, from the northern suburbs schools of Fremont/Elizabeth City High, Smithfield Plains High and Paralowie R-12 School, spent a day last month at the University's North Terrace campus.

The schools are all participating in an Equity Outreach Project which is aimed at raising awareness of what the University of Adelaide has to offer young people.

The project is an ongoing initiative, implementing a wide range of strategies for students, teachers, parents and the wider community.

It is hoped the project will encourage students to think about university education, thereby helping to redress the under-representation of students from low socio-economic backgrounds in university.

Last month's on campus event gave the students a hands-on look at the University of Adelaide, its staff and facilities.



HANDS ON: students from Fremont/Elizabeth, Craig Hodge, Mandy Moyle and Leigh Rault, study a fossil rock in the Mawson laboratory. Photo: David Ellis

This included special lectures and workshops on topics as diverse as dinosaurs, wine production, psychology, maths, history and the environment.

The students pictured above were part of a group that heard about the amazing science behind dinosaurs, their discovery and what scientists understand about them.

This workshop included insights into genetics, fossils, marine biology, carbon dating, geology and physiology.

Career counselling was also provided to the students, who are at an age to make decisions which will affect their education and their futures.

Organised by the

University's Equal Opportunity office and St Paul's Education & Curriculum Services, the event was a huge success due mostly to the volunteered efforts of enthusiastic academic staff and students, who generously gave their time during the academic break.

—David Ellis

A recollection of Geoffrey Dutton, 1922-1998

'Born'—says the blurb to his first novel, *The Mortal and The Marble* (Chapman and Hall, 1950)—'in 1922 on a sheep station in South Australia. ... He spent eight years at a public school in Victoria. [Geelong, of course] ... He went from school to Adelaide University, where his course was interrupted by the war, during which he was a pilot in the R.A.A.F. After the war he came to Oxford, and read English at Magdalen—it had been his father's college. At the time of publication he was 'living in London' and the book was written 'in the South of France in the summer of 1949'. It ends with his young Melbourne couple eagerly anticipating departure for a job in Europe.

Geoff's anabasis was the other way. He drove a Morris Minor from England to Australia via Afghanistan (*A Long Way South*, Chapman and Hall, 1953) and—though he came from 'an ardently royalist family'—became an advocate of Australian culture and a republican. In the early sixties his republicanism offended the RSL and the Adelaide Club.

When I came to Adelaide at the beginning of 1957 Geoff had been in the English Department for two years.

He was a generous and stimulating colleague; good-looking and well-dressed, with a slightly Woosterish self-deprecatory manner that disguised his strong mind, good judgement and remarkable energy. Soon after our arrival, he invited my family for a weekend lunch to the old cottage at Crafers where he and his first wife Ninette lived. The garden was beautiful and the cottage full of books and old furniture. It was elegant, excellent, and altogether unpretentious.

Another occasion was a crabbing expedition to the gulf, at the end of a very rough road, somewhere near Port Parham. We paddled in mud and mangroves, catching the Swimmers with a sort of outsize straining spoon as they came in on the tide, then boiled them in a kerosene tin and ate them with our fingers as the sun went down across the water.

We also visited his family home 'Anlaby', near Kapunda, a rambling stone house, separated from the farm buildings by the great garden that had been the pride of Geoff's mother, though it was then in decline—but we were given cuttings and roots to take

back to our own suburban garden. I remember a room where several Magdalen College oars, that had been pulled by various Duttons, decorated the walls, with other Oxford memorabilia.

Geoff left the University in 1962, but he stirred us while he was there. He brought Patrick White to Departmental tea, a large, aggressively silent man, with piercing blue eyes. A jollier visitor was John Manifold, poet, musicologist and collector of bush songs, who played his tea-chest double bass and 'lagerphone'—a club decorated with loosely tacked bottle-tops, which thumped and rattled—and sang to us.

In 1957 he set up (with Max Harris and Bryn Davies) the Quarterly *Australian Letters*. Its interests were wider than the literary. The first issue had an article on wine—in the days when you could buy Grange Hermitage in flagons, and the top export brands were Big Tree Burgundy and Emu Red Port. Condescending reviews in the British press of Judith Wright's *A Book of Australian Verse* (OUP 1956) were attacked. There were early poems by Randolf Stow, and Chris Wallace-Crabbe. The 'first authentic' recording of

'Music from Arnhem Land' was reviewed by 'B Clunies-Ross'.

Bruce C-R is now a professor in the University of Copenhagen: in 1957 (I remember) he failed English I because he wrote a brilliant essay on *Hamlet*, but neglected to answer the obligatory two more questions. In later issues contemporary painters illustrate the work of poets. The paintings by Arthur Boyd for poems by Max Harris can be admired in the Barr Smith Library today.

Australian Letters closed in 1967 because its editors had other things to do. With Rosemary Wighton they had started *Australian Book Review*; Geoff edited his ground-breaking guide, *The Literature of Australia* (Penguin 1964).

He set up Sun Books, which published classics like Henry Handel Richardson's *Maurice Guest*, or Judah Waten's *Alien Son*, as well as such important new titles as Geoffrey Blainey's *The Tyranny of Distance*, or David Martin's *The Young Wife*.

He was a force in the development of Writers' Week and a member of the Australia Council; at various

times literary editor of *The Australian* and *The Bulletin*. Though similar labours continued all his life, the Barr Smith catalogue lists 67 works which Geoff either wrote or edited—and there are many articles, reviews, broadcasts and more ephemeral pieces.

His great service was his insistence that Australia had a culture to be proud of, and the world should know more about it. He travelled, and made (and kept) friends, like the Soviet poet Yevtushenko or the South African Roy Campbell, in many places. He had means to follow the country life that he enjoyed (his autobiography is significantly called *Out in the Open*) and the talent to write with success.

He published five novels and more volumes of verse—which contain some of his best work. He undertook the humdrum but demanding work of editing and publishing, or generously making known the work of others.

Geoffrey Dutton was, in Yeats' phrase, one of those 'Who gave, though free to refuse'—and we are all in his debt.

—Tim Mares

Treading lightly with the great apes

WHEN animal behaviourist Carla Litchfield set about raising funds in 1994 to continue her research on the great apes of Africa, she was unable to find anyone willing to indemnify her proposed trip into a region beset by civil war, and so she raised the money instead by waitressing.

A veteran traveller in this sometimes turbulent part of the world, Carla Litchfield gained her training as an animal behaviourist at the University of Adelaide, starting her current work on a PhD in Psychology in 1988.

In the course of her studies, she conducted behavioural research projects with chimpanzees at the Adelaide Zoo which involved providing them with a variety of objects to encourage foraging, exploration, play and other behaviours observed in their free-ranging counterparts.

In 1991 she presented her chimpanzee work at the Understanding Chimpanzees Symposium in Chicago.

There she first met Dr Jane Goodall, the world's foremost authority on chimpanzee behaviour, and Professor Richard Wrangham, who both inspired her to combine research with conservation work in Africa.

Already, human pressures on habitat as well as the impact of human-borne diseases and hunting had caused the extinction of chimpanzees in four West African countries, and so the very survival of these animals was seen to be at stake.



Carla Litchfield: work among the great apes of Africa. Photo: David Ellis

On Carla Litchfield's first trip to Uganda in 1994, she spent a year studying a community of wild chimpanzees in their rainforest home.

During this time, she became more aware of the impact of tourism, which, while it led to a higher value being placed on the survival of these creatures by the host nations, also threatened to destroy the object of its attentions with careless and uninformed tourism practices.

The solution Carla Litchfield turned to was the notion of 'responsible tourism', which had already taken root in other parts of the world.

This form of tourism is one which occurs in pristine areas, provides visitors with an understanding of environments and cultures, contributes to the well-

being of the community and environment, and fosters conservation.

To develop responsible tourism practices, Carla Litchfield helped promote a common list of guidelines already drawn up by vets, conservationists and wildlife managers which would apply at all viewing sites to protect chimpanzees and gorillas from the impact of tourists, and vice-versa.

This list includes restricting the number of visitors in a group and frequency of visits to minimise the impact on animals and vegetation.

Another prime directive is that tourists should stay at least 5 metres away from the animals in order to avoid stressing the animals, and also to protect their health.

Because great apes are almost identical genetically to humans, they can readily be infected by human-borne viruses and bacteria which they have no immunity to, and so these infections can potentially devastate a population.

Furthermore, tourists are required to keep their distance to ensure that the animals do not lose their fear of humans and thus become vulnerable to poachers or become aggressive towards well-intentioned visitors.

This set of guidelines and conservation practices, in addition to helpful background material about gorillas and chimpanzees, has been encapsulated in Carla Litchfield's book *Treading Lightly: Responsible Tourism with the African Great Apes*, with an extensive foreword by Jane Goodall.

The book has been designed to fit into ticket folders issued to tourists so that the information reaches them well in advance of their trip into the forest homes of the great apes.

Produced by the Traveller's Medical and Vaccination Centre—which recently set up a fund to promote responsible tourism—*Treading Lightly* was launched last month at the Adelaide Zoo, and is available at all TMVC outlets as well as the Adelaide Zoo shop. Proceeds will support the great ape projects in Uganda.

Carla Litchfield expects to make her next trip to Africa in 1999.

—Tony Cox

ALUMNI NEWS

HEALTH IN ANTIQUITY

On Thursday, 29 October Professor Maciej Henneberg and Mrs Renata Henneberg, of the Department of Anatomical Sciences, will be giving a presentation about "Health in Antiquity".

By applying modern forensic techniques to skeletal remains at Pompeii and other ancient sites, we can learn something of the lives of people in the ancient world.

This presentation is free, but to help with our planning please contact the Alumni Office on 8303 4275. Details of where the presentation is to be held will be available from the Alumni Office.

AYERS HOUSE: A GUIDED TOUR

Alumni are invited to join a group from the Association on a sunset tour of Ayers House on Wednesday 18 November. The National Trust will provide this guided tour at a price of \$5 per person. Please make your booking through the Alumni Office (telephone 8303 4275) but be prepared to pay at the door. No concessions; numbers limited. Book early to secure your place.

GOLDEN JUBILEE

The Alumni Association's annual Golden Jubilee Commemoration will be held on Thursday 15 October next, at 6:00pm in Bonython Hall.

Graduates of 1948 will be presented to the Chancellor as President of the Alumni Association. The Golden Jubilee Address will be given by Dr Samuel Jacobs AO QC.

All members of the University community are welcome to attend this ceremony. The wearing of academic dress is encouraged.

CAMPUS TOURS

The Alumni Association offers walking tours of the North Terrace Campus on Tuesday mornings at 10:30am. The one and a half hour tours cost \$3 per person. Proceeds go to the Alumni Association's Scholarship Fund. Groups are welcome: please telephone 8303 4275.

Advertisement



Pictured at the unveiling of a portrait of electronic music pioneer Tristram Cary in the Ira Raymond Room of the Barr Smith Library last month are (left to right), Tristram Cary, the portrait's painter Gwen Harris, and the Chancellor, Mr Bruce Webb, who conducted the unveiling. The purchase of the portrait for the University Art Collections was initiated by the Cornell Chapter of the Alumni Association, and made possible by a grant from the University Foundation. Some 60 people attended the function. Photo: Sasha Kovaricek.

Put yourself in the spotlight HOST A CONFERENCE

Hosting a conference in Adelaide can promote your research capabilities and expertise to industry, government and the community. At the same time, staging a seminar can build your professional profile in national and international circles. However if you have no experience the Adelaide Convention and Tourism Authority can help with free assistance to identify, bid for, secure and organise an academic conference in Adelaide. ACTA can assist with:

- Preparation and presentation of bid submissions to secure conferences
- Access to financial assistance schemes
- Full colour brochures that can be overprinted with conference details
- Brochures for delegate satchels
- Advice on conference facilities, venues and catering

So if you are involved in a specialised field of research or study and wish to grab the attention of the world, contact Anne-Marie Quinn at ACTA on 8212 4794.

PERFORMING ARTS

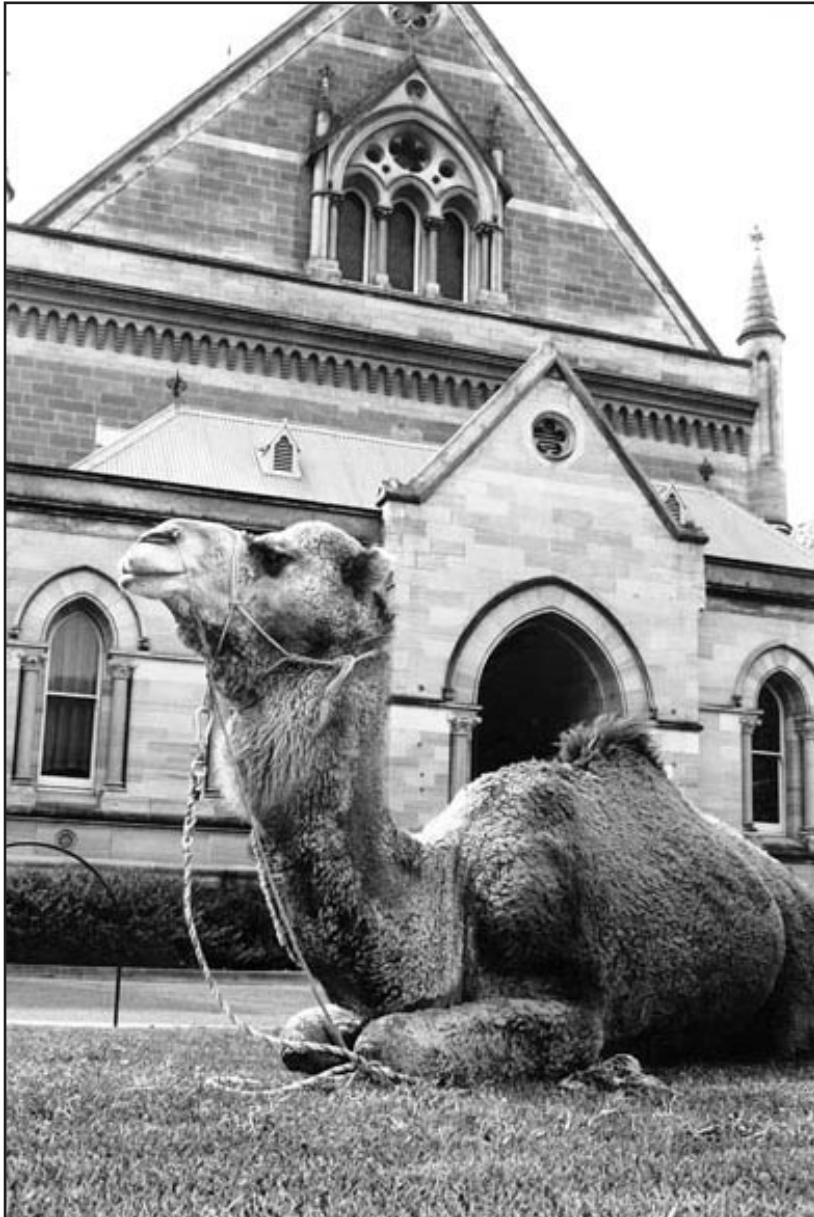
ELDER CONSERVATORIUM CENTENARY

THE ELDER CONSERVATORIUM Centenary celebrations have ended, with the Faculty of Performing Arts delighted at the support shown by the community for the many lunch hour and evening performance events.

Attendance at all events was high, with the jazz concert on 1 October filling Elder Hall to overflowing.

Dean of Performing Arts, Dr Anita Donaldson, said the presence of Centenary Artist in Residence Gunther Schuller had been exceptionally stimulating for all involved.

"We have learnt a lot from working with Gunther Schuller, and we expect many positives to flow from his time here, and from the feedback he has given us," she said.



One of the more unusual sights around campus was this camel outside Elder Hall during Foundation Day celebrations on 25 September. Its presence was a reminder of Sir Thomas Elder's eclectic interests, which included camel breeding. Camels feature in a panel on the statue of Sir Thomas on the Goodman Crescent Lawns.



Above: The Dean of Performing Arts, Dr Anita Donaldson (left) and the Vice-Chancellor, Professor Mary O'Kane (right) with the Chancellor, Mr Bruce Webb as the 'Con's' 100th Birthday cake is cut during the celebration of Foundation Day on Friday 25 September.



Students from the Conservatorium entertaining in Rundle Mall. A wide range of student performance groups took their music to the Mall every lunchtime from 28 September to 2 October, during the week of Centenary celebrations, drawing large and appreciative audiences. Photos by Image & Copy Centre, Waite Campus.

ACCOMMODATION

AVAILABLE: 2 br unit, walking distance to Waite and transport. Air cond, shed, dryer, walk-in robes, available early November. \$673.50 per month. Ph Suzanne 8303 7259 (w) or 8379 0969 (ah).

BURNSIDE: Modern 2 storey, furn house with 3 br, 2 bathrooms, lounge & family, air cond, lock-up garage, walking distance to transport, shops & park. Avail Jan - July 99. Rent neg. Ph 8303 5084 or email: <jmazumda&maths.adelaide.edu.au> or <mjagan@ntu.edu.sg>.

CITY: Cottage near Central Market, 2 br, small garden. Ph 8344 2536 evenings.

CITY: SE cnr, share accomm - lge br avail, located just off Hutt St,

walking distance to all facs. \$75 pw. Ph 8232 0241.

GOLDEN GROVE (GREENWITH): 3 br villa with family rm, low maintenance garden, quiet street, close to schools, O-Bahn, avail now. \$165 pw. Ph Jodie 8332 3863 (ah).

GOODWOOD: Share 2 br maisonette. Lock-up u/cover parking, great location, close to city & transport. Avail now. \$100 pw + exp. Ph Deb 8272 1365.

HOUSE SITTING: Mature English lady keen to look after your house/garden/pets from mid Jan for short/long period to May 99. Ph Jenny 8204 6257 or email: <jnairn@wch.sa.gov.au>.

MYRTLE BANK: Avail for visiting academic and family for 3 mths, March - May 99. Fully furn &

ADELAIDEAN CLASSIFIED

equipped, 3 br, 2 bathrms, close to exc public & private schools. Walk to Waite, 5kms to Adelaide. Ph 8379 7390 or email: <aclancy@dov.net.au>.

WANTED: Professional couple with 3 children require house in Unley or nearby from Nov - Dec 98. Prefer part furn with shed or similar for storage. Happy to care for garden/pool/pets. Ph Peter 8204 9249 or 8274 1224.

WANTED: Visiting academic and family seek furn 2 or 3 br house/flat from 15 Jan - 31 May 99. Prefer Mitcham. Ph 8201 2364 (w) or 8338 6265 (ah) or email: <keinert@iastate.edu.au>.

FOR SALE

COMPUTER: Pentium 100 mhz, 8 MB RAM, 800 MB HD, Windows 95, speaker, amp, 4 speaker CD-ROM sound card, sepro 16. \$800 ono. Ph Shane Irvine 8531 2887 (ah).

FORD FESTIVA: Trio, 1.5 ltr, 5 spd man, claret colour, air cond, new July 98 only 2,500km. WDM 690. \$11,900 ono. Ph 8201 2360 or 8271 4277 or email: <jarka@ist.flinders.edu.au>.

FORD TELSTAR: GL 1987, blue, 139,000km, exc driving cond. XXXXXX. \$5,000 ono. Ph Suzanne 8303 7259 (w) or 8379 0969 (ah).

MISC: Green sofa, \$230. Sofa, \$30. Rectangular wooden coffee table, \$20. Square coffee table, \$15. Pine bookshelf, \$35. Solid wooden desk, \$60. Fridge, \$80. Simpson washing machine, \$250. Sony Triniton colour TV 14", \$300. Iron, \$10. Panasonic vacuum cleaner, \$20. Ladies 10spd bike with helmet, pump & lock, \$60. Ironing board, \$10. Wooden cabinet, \$15. Solid wooden chest of drawers, \$50. Ph Gabriel 8303 7314 or Suzanne 8303 7259.

SQUATTER'S CHAIR: Recently restored, \$105. Ph 8265 4628.

TENDER

TENDER: Toyota Hilux 4WD utility, manual, diesel, 1996, white, 46,000km, air, floor mats, mudflaps, tow

pack, VVU 287. Inspection Wed 14 October 98, 10am - 12noon, ph Pam Keeler, 8303 5835. Tenders in a sealed envelope marked Tender No W296 to the Purchasing Manager, Waite Campus by Tuesday 20 October 1998.

MISCELLANEOUS

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

WORD PROCESSING: Fast & accurate, 15 years experience as a temp. Good rates, free pick-up & delivery. Ph Trisha 8331 1531.

WANTED

TUTOR: To teach chemistry for year 12 student in eastern suburb. Ph Judy 8332 3863 (ah).

Bulletin Board

OCTOBER 12, 1998

THE UNIVERSITY OF ADELAIDE

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Locus staff development courses

If you are interested in attending any of these courses please call Professional & Continuing Education on 8303 4777 or email <conted@oce.adelaide.edu.au> to obtain an application form or download applications from our web site at <<http://www.adelaide.edu.au/locus>>.

COMPUTER SKILLS

Creating a Web Page with Netscape: Wednesday 14th October (1pm - 4.30pm)

Power point: Thursday 15th October (9am - 12.30pm)

Microsoft Word - Intermediate: Friday 16th October (9am - 4pm)

Windows NT: Tuesday 20th October (9am - 4.30pm)

Desktop Publishing in Word: Friday 23rd October (9am - 4pm)

Creating & Administering a Small Web Site: Monday 26th October (1pm - 4.30pm)

STEPPING INTO SUPERVISION

From Team Member to Team Leader: Wednesday 14th October (9am - 4.30pm)

BUSINESS DEVELOPMENT SERIES

Developing Business Plans: Monday 19th October (9am - 12.30pm)

THE EFFECTIVE ADMINISTRATOR SERIES

Understanding Finance: Tuesday 20th October (9am - 4.30pm)

PROFESSIONAL & PERSONAL DEVELOPMENT SERIES

Doing More with Less: Wednesday 21st October (9am - 4.30pm)

OCCUPATIONAL HEALTH & SAFETY

Introduction to Radiation Protection: Wednesday 21st October (9am - 1pm)

INTERPERSONAL COMMUNICATION SERIES

Negotiating Effectively - Getting to Yes: Thursday 22nd October (9am - 4.30pm)

Child Care

The Student Union and the University Child Care centre are exploring the option of establishing a Vacation Care Program next year at Adelaide University. We are aiming to commence the program in the April 1999 school holiday period and would then continue indefinitely (during school holiday periods) subject to funding and need. The program would be for primary school age children of staff and students, and numbers would be limited to around 30 children per holiday period.

The Program would be under the auspices of the University Child Care Centre and would therefore be appropriately staffed and licenced. Any staff or students interested should contact Vicki McCoy on 8303 5915 or email <vmccoy@auu.adelaide.edu.au>.

MONDAY 12 OCTOBER

1.00pm Microbiology & Immunology Seminar: Viral vectors and immunity by Dr G Karupiah (John Curtin School of Medical Research, ANU). Library, 5th Floor, Medical School South.

1.10pm Student Workshop: Support for students with specific learning difficulties, presented by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb Building. Book now, 8303 5663 or call in.

1.10pm Public Health Seminar: The Second Social Health Atlas of Australia: Early Findings by Mr John Glover (Dept of Human Services, SA). Seminar Room, Level 6, Bice Bldg, RAH.

4.00pm Crop Protection Seminar: Roundup Ready ryegrass - Nature strikes back by Debbie Colwill (Postdoctoral Fellow). Charles Hawker Conference Centre, Waite Campus.

TUESDAY 13 OCTOBER

12noon Lyell McEwin Health Service Grand Round: Awareness During Anaesthesia by Professor Alan Aitkenhead (Queen's Medical Centre, Nottingham, UK, Burnell Jose Visiting Professor). Conference Room 1, Community Health Building, Lyell McEwin.

12.30pm General Practice Seminar: Intimate Time by Dr Glyn Brokensha. Room 3, Level 2, Margaret Graham Building, RAH.

1.10pm Anatomical Sciences Seminar: Tooth wear - A traditional interest of Adelaide Anatomist by A/Prof Lindsay Richards (Faculty of Dentistry). Room S127, South Wing, Medical School.

3.15pm Anthropology Seminar: Cohabitation of Cultures and State-Building in Twentieth Century Manchuria by Felix Patrikeeff (Politics). Room 702, Level 7, Schulz Building.

WEDNESDAY 14 OCTOBER

12.30pm ARCHSS Seminar: Between a Rock and a Hard Place - The Power and Powerlessness of transnational knowledge amongst gay Martinican Men by Dr David Murray (Anthropology). Room G08, Napier Undercroft.

1.00pm HCCR/IMVS Special Seminar: Novel approaches in cytokine research using retrovirus-mediated expression screening by A/Prof T Kitamura (Uni of Tokyo). Verco Theatre, IMVS.

1.00pm Zoology Seminar: Microbiology of the not so velvet underground by Ms Sue Thomas (Flinders University).

COMING EVENTS

October 12th — October 23rd

Seminar Room, 4th Floor, Fisher Building.

4.00pm Physiology Seminar: Craving for cocaine by Don Cameron (Anatomy, Flinders). Meeting Room N416, Medical School North.

THURSDAY 15 OCTOBER

12noon HCCR/IMVS Seminar: Haemopoietic transplantation in metastatic breast cancer by Dr S Scott (College of Pharmacy, Iowa, USA). Verco Theatre.

1.00pm Chemical Pathology Seminar: Neonatal Screening for Lysosomal Storage Diseases by Dr Peter Meikle. Seminar Room 1, 4th Floor, Clarence Reiger Building, WCH.

1.00pm Anthropology/English/Social Inquiry Seminar: Muscles, Metaphors and Myths: Examining Women's Sporting Bodies by Professor Jennifer Hargreaves (Politics / Sociology of Sport, Roehampton Institute, London, UK). Room 617, 6th Floor, Napier Bldg.

6.30pm AIIA Talk: Russia Today by Dr Felix Patrikeeff (Politics). Margaret Murray Room, Level 5, Union House.

FRIDAY 16 OCTOBER

1.10pm Centre for Asian Studies Seminar: Yunnan, Home of the Plague? by Carney Fisher. Room 518, Ligertwood.

1.15pm Inaugural Lecture: Genetics and development: the great circle of life by Prof R Saint (Genetics). Lecture Theatre 102, Napier Building.

4.00pm Obstetrics & Gynaecology Seminar: Preterm birth: Human models for animal physiology? by Prof D Olson and Dr J Cook (Uni of Alberta). Seminar Rm, 6th Flr, Medical School Nth.

4.05pm Geology & Geophysics Seminar: Isotope geochemistry in the next millennium by Dr John Foden. Eric Rudd Lecture Theatre, Mawson Labs.

7.30pm National Textile Museum of Australia Occasional Lecture Series: Tucked Away in China: Textiles from Remote China. Drawing Room, Urrbrae House. Admission \$8 (\$5 NTMA members). Bookings 8303 6728.

MONDAY 19 OCTOBER

11.30am Research Collaboration

with Industry - Joint Information Session: See page 4 of Bulletin Board.

1.00pm Microbiology & Immunology Seminar: Antibacterial therapy and drug resistance by Prof Dick Groot-Obbink (Royal North Shore Hospital, Sydney). Library, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: Hepatic transport of acylglucuronides by Ms Lucia Sabordo (PhD student). Seminar Room, 6th Floor, Medical School North.

1.10pm Public Health Seminar: Iatrogenic Injury: Public Health and Resource Implications by Richard Clark and Kathryn Rigby. Seminar Room, Level 6, Bice Building, RAH.

1.10pm Student Workshop: Managing Exam Stress. Counselling Centre, Ground Floor, Horace Lamb Building. Book 8303 5663, or call in.

1.10pm History Staff/Postgraduate Seminar: Culture and the Campus: the University and the Theatre Guild by Dr K Round. Common Rm, 4th Flr, Napier.

2.15pm English Staff/Postgraduate Seminar: More Than a Gesture of Belonging? Alienation and Hybridity in Bessie Head's Fiction by Mr Paul Woods; The Fight of Ducks: Hypertext and The Justice of Representation by Mr Robert Windsor. Room 618, Level 6, Napier.

4.00pm Crop Protection Seminar: Systematics of Australian Scelio latreille (Hymenoptera) parasitoids of acridid eggs by Dr Paul Dangerfield (Research Officer). Charles Hawker Conference Centre, Waite.

TUESDAY 20 OCTOBER

12noon Lyell McEwin Health Service Grand Round: Discharge Planning by Julie Falco. Conference Room 1, Community Health Bldg, Lyell McEwin.

12.30pm General Practice Seminar: Psychiatric morbidity in general practice by Jan Scicchitano. Room 6, Level 2, Margaret Graham Building, RAH.

12.30pm ACUE 25th Birthday Seminar Series: Education for the Professions by Prof J Brine (Head of PALACE). This is an opportunity to discuss face-to-face Prof Brine's presentation on the ACUE's 25th birthday site <<http://www.adelaide.edu.au/25th/acue.html>>. Seminar Room, 6th Floor, Hughes Building. BYO lunch, tea and coffee provided.

WEDNESDAY 21 OCTOBER

12.30pm ARCHSS Seminar: Cosmic Kings and Pre-Colonial Patriotism as a Puzzle for Post-Orientalism: The Sinhalese as a Chosen People by Associate Prof Michael Roberts (Anthropology). Room G08, Napier Undercroft.

1.00pm Zoology Seminars: Habitat use by Honeyeaters by Melissa Bradbury; Ecophysiology of the stick-nest rat, Leporillus conditor by Adrienne Conley. Seminar Rm, 4th Floor, Fisher.

4.30pm SA Centre for Australian Studies: Heritage exposed seminar: current trends in heritage management and conservation. Lecture Theatre (cnr North Tce & Kintore Av). Bookings essential, Anne Burrows 8207 7337. Gold coin donation.

THURSDAY 22 OCTOBER

12noon HCCR/IMVS Seminar: The current status of genetic testing for familial bowel cancer by Dr G Suthers. Verco Theatre, IMVS.

1.00pm Chemical Pathology Seminar: Does adverse storage affect the immunogenicity of Pertussis Vaccine by Dr T Boros (Paediatrics). Seminar Room 1, 4th Floor, Clarence Reiger Bldg, WCH.

1.10pm Physics & Mathematical Physics Seminar: The limit of optical precision measurements: from optical communication to laser lunar ranging and gravitational wave detection by Professor Gerd Leuchs (University of Erlangen-Nürnberg, Germany). Kerr Grant Theatre.

4.00pm Economics Seminar: Own-Rates of Return, Intertemporal Prices and the Sraffa-Hayek Debate by Tom Kompass (ANU). Napier LG14.

FRIDAY 23 OCTOBER

1.10pm Asian Studies Seminar: The Chinese Maritime Customs Service - Economic Imperialism? by Donna Brunero (PhD student). Room 518, Ligertwood Building.

1.15pm Inaugural Lecture: Breathing Troubles — Where from, Where to? by Prof Richard Ruffin (Medicine). Lecture Theatre 102, Napier Building.

4.00pm Obstetrics & Gynaecology Seminar: The phytoestrogen story by Dr Peter Baghurst (Public Health, WCH). Seminar Room, 6th Floor, Medical School North.

4.15pm Geology & Geophysics Seminar: Geoscience teaching in the next millenium by Dr Pat James. Eric Rudd Lecture Theatre, Mawson Laboratories.

SITUATIONS VACANT

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

OFFICE MANAGER

(Ref: 1922)

Secretariat
Office of the Vice-Chancellor
Salary HEO4: \$30,133 - \$33,145

To oversee and assist with all Secretariat clerical services, including distribution of Council, VCC, Academic Board and other committee papers, preparation of web pages, creation and maintenance of databases, personal assistance to the Head, Secretariat, word processing, and supervision of clerical staff. This is a busy office with varied work that provides a good overview of all the University's activities.

You should have:

- excellent interpersonal and oral and written communication skills
- high-level computing skills in word processing and either databases or web pages; and ability to learn new skills
- excellent organisational and clerical skills
- the ability to order priorities, use initiative, and work under pressure and to short time-lines
- the ability to supervise staff in a team environment.

The position is available immediately on a continuing basis. For further details tel Sue Graebner on 8303 4015. The selection criteria and duty statement from Linda Barnes, tel 8303 5871.

*APPLICATIONS to Ms S Graebner, Head, Secretariat, The University of Adelaide, South Australia 5005 by 19 October 1998.

CLERICAL ASSISTANT

(Ref: 3635)

Department of Civil and Environmental Engineering
Salary HEO2: \$24,890 - \$26,463**

An opportunity exists for a person to work in a busy departmental office providing receptionist and clerical assistance to staff and students.

You should have:

- experience with using MS Word
- excellent oral communication and interpersonal skills
- the ability to work effectively in a team environment.

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

This continuing position is available from late October on a 36.75 hours per fortnight basis. Further details from Berni Golledge, tel: 8303 5135.

*APPLICATIONS to the Head, Department of Civil and Environmental Engineering, the University of Adelaide, South Australia 5005, by 21 October 1998.

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

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

LECTURER B

(Ref:3078) (Tenurable)

Department of Mechanical Engineering
Salary: \$48,435 - \$57,518

We are seeking a person with research interests in the areas of Aerospace Engineering, as well as fluid mechanics and combustion. Experience in precessing jet technology would be of advantage in a predominantly industrial based research environment in the areas of fluid mechanics and combustion. In addition to lecturing in Mechanical Engineering subjects, you will supervise undergraduate and postgraduate student projects. You will be active in research and in Departmental and professional affairs, and undertake administrative responsibilities at the Departmental level. Interaction with other disciplines, institutions and organisations will be encouraged.

You should have:

- a PhD in fluid mechanics or combustion
- tertiary qualifications and teaching experience in aerospace engineering, thermodynamics and heat transfer, be able to demonstrate lecturing ability and be committed to excellence in teaching
- a current Australian private or commercial pilot's license.

The position is available from 1 January 1999. Dr Hansen, Head, Mechanical Engineering, tel 8303 5698. fax: 8303 4367 or <chansen@mecheng.adelaide.edu.au>.

*APPLICATIONS to the Acting Director, Human Resources, the University of Adelaide, South Australia 5005, by 19 October 1998.

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

in Insect Pathology/Ecology
(Ref:3626) (Limited-Term)

Department of Crop Protection
Waite Campus
Salary: \$37,779 - \$46,013°

A highly motivated insect pathologist is required to assist in developing an active research program on the ecology and biological control of European wasp (*Vespa germanica*) in South Australia. The successful candidate will be involved in surveying native wasp populations for pathogens and in assessing the impact of these and other agents on European wasp nests. The position is funded by the Government of South Australia and is part of a major collaborative project with the South Australian Research and Development Institute to control European wasp in the state.

The Department is involved in research and teaching on nematodes, plant diseases, insects, weeds, and the implementation of an integrated approach to understanding and managing organisms that cause problems in agriculture and natural systems. The Waite Campus is a major centre in Australia for research on insect ecology, molecular biology, biological control and biodiversity.

You should have:

- a higher degree or submission of a PhD in insect pathology or other relevant area
- appropriate research experience in insect pathology/ecology
- a knowledge of or experience in insect ecology/biological control

°The minimum of \$42,864 pa is payable to the holder of a PhD.

The position is available from 1 January 1999 for up to three years. Further details from the www address below, or Associate Professor Andrew Austin, tel: 8303 7265, fax: 8379 4095, email: <aaustin@waite.adelaide.edu.au> or Professor Otto Schmidt, tel: 8303 7269, email: <oschmidt@waite.adelaide.edu.au>. Information on the Campus and Department can be accessed at <http://www.waite.adelaide.edu.au/Crop_Protection/Crop_Protection.html>

*APPLICATIONS to the Head, Department of Crop Protection, Waite Campus, Private Mail Bag 1, Glen Osmond SA 5064, by 12 November 1998.

RESEARCH CHEMIST

(Ref: 3631)

Department of Anatomical Sciences/Department of Chemistry
Salary HEO6: \$37,991 - \$41,136

An opportunity exists for a suitably qualified chemist to work in the group of Dr Brian Saunders (Department of Chemistry) on a joint chemistry/anatomy research project involving the development of an enhanced technique for plastination of body tissue.

You should have:

- a BSc. (Hons) in chemistry
- experience with polymer and colloid chemistry.

The position is available immediately for ten months full-time or part-time and is sponsored by the Wood Jones Bequest. Further details from Dr Brian Saunders, tel 8303 5395.

*APPLICATIONS to Dr B Saunders, Department of Chemistry, the University of Adelaide, South Australia 5005 by 30 October 1998.

UNDERGRADUATE SCHOLARSHIPS OFFICER

(Ref:3632)

Graduate Studies and Scholarships Branch
Salary HEO6: \$37,991 - \$41,136

To support the Registrar Scholarships, particularly in relation to the administration of undergraduate scholarships; liaison with academic staff, undergraduate students and external organisations regarding the establishment, selection, promotion and monitoring of undergraduate scholarships; and assisting with the promotion of new and existing scholarships.

You should have:

- tertiary qualifications or significant employment experience that could be regarded as equivalent
- demonstrated experience in the selection of undergraduate students for university entry
- good standard of computing skills
- excellent oral and written communication skills
- a demonstrated high level of organisational skills.

The position is available immediately on a continuing basis. Further details from Kerry Jaeger, tel 8303 5725 or email: <kjaeger@registry.adelaide.edu.au>.

*APPLICATIONS to Ms K Jaeger, Registrar, Scholarships, the University of Adelaide, South Australia 5005, by 19 October 1998.

FACULTY ACADEMIC SERVICES OFFICER

(Ref: 3636)

Faculty of Science
Salary HEO6: \$37,991 - \$41,136

To undertake the promotion of Science at the University of Adelaide as a desirable career choice for secondary school students and to contribute to the student support measures instigated by the Faculty of Science.

The appointee will be instrumental in the schools liaison and community outreach activities of the Faculty, will provide administrative support in the preparation of Faculty promotional materials, and will undertake research and provide administrative support to the student recruitment and retention initiatives of the Faculty.

You should have:

- a degree, preferably in Science
- excellent written and oral communication skills
- demonstrated experience in the use of a range of computer software packages
- demonstrated ability to initiate tasks and manage priorities.

The position will require some out of hours work in attending schools liaison and promotional activities.

The position is available immediately on a continuing basis. Further details from Rosemary Priest, Manager tel 8303 5673.

*APPLICATIONS to the Dean, Faculty of Science, University of Adelaide, South Australia 5005 by 19 October 1998.

CLERICAL SUPPORT

(Ref: 4662)

Research Branch
Salary HEO2: \$24,890 - \$26,463**

We are seeking an enthusiastic and reliable person to provide clerical support to the Branch generally in its functions of administering research grants and providing support to researchers. Duties will include filing, dealing with requests for application materials, photocopying, relief reception duty and assistance with maintaining data bases. This is regarded as a training position.

You should have:

- willingness and enthusiasm to undertake detailed and repetitive routine office duties
- experience in office practices (filing, photocopying, reception duties)
- word processing skills and experience in using IBM compatible Windows-based software packages
- a high level of interpersonal skills with well developed oral communication skills
- demonstrated ability to organise work priorities.

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

This continuing position is available from mid November. Details Coleen Roddam, tel 8303 5137.

*APPLICATIONS to Mr C Brown, Manager, Research Operations, Research Branch, the University of Adelaide, South Australia 5005 by 23 October 1998.

EMPLOYMENT INFORMATION

*APPLICATIONS, IN DUPLICATE, addressing the selection criteria and quoting the relevant reference number should include residency status and 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 statement may be obtained from the contact officer named in the advertisement.

NOTICE TO APPLICANTS: Applicants for all positions should retain the relevant reference number and watch the "Notice to Applicants" column in the *Adelaidean* for advice about the filling of the position.

NOTICE TO APPLICANTS: The University notifies applicants that the following vacancy for Higher Education Officer (HEO) with the reference number as stated has been filled and thanks them for their interest: 6637 HEO5, Aboriginal Studies in Music; 3529 HEO5, Graduate Studies & Scholarships Branch; 3470 HEO5, General Practice.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 9 November advertising paper work must be to Human Resources by 23 October.

For the *Adelaidean* of 23 November, advertising paper work must be to Human Resources by 6 November.

NOTICE TO STAFF COUNCIL ELECTIONS

Nominations for election to the University Council are now being called. The two categories of Council membership applicable to staff are:

1. Three members of the Academic staff elected by the Academic Staff
2. Two members of the General staff elected by the General Staff

Nominations for elections by the Senate are also being called. The term of office for all positions is two years from 6 March 1999 to 5 March 2001.

Nominations for the positions are invited. A nomination must be made on the appropriate prescribed form, and must reach the Returning Officer at the University before 12 noon Friday 23 October 1998. Nomination forms and further information may be obtained from Room 656, Level 6, Wills Building, at the North Terrace campus of the University of Adelaide, or by phoning 8303 5871

Election papers for staff elections will be sent to all eligible staff and the ballot will close on 3 December 1998.

**SUSAN GRAEBNER
Returning Officer**

The new University of Adelaide Card is here

EARLIER THIS YEAR, the University of Adelaide became the first in Australia to replace old-style student cards with smart card technology. To date, over 14,000 smart cards have been issued to the students of the University.

The next step in embracing this new technology is the issuing of new cards to staff.

This process gets under way in October.

What does the card do?

It's an ID Card

The University Card gives access

to a range of essential services and functions, with your name, photo and Staff number making it an invaluable form of ID.

It's a Library Card

The barcode on the front of the University Card carries your library membership details. It lets you borrow books and gives you access to other library services.

It's an Access Card

The magnetic strip on the back of the University Card enables you to have access when you need it to buildings and facilities that you are authorised to enter. This in turn helps to ensure your safety on campus.

But the University Card is also much more...

An Electronic Purse

The University Card can be used as an 'electronic purse'. At different locations around campus you can reload cash value onto the Card. This involves a simple funds transfer and once it is 'loaded' you can use the Card for small 'convenience' purchases on campus, such as **Photocopying, Vending Machines and Campus shops** as well as **Telstra Smart Payphones**.

Reload terminals

Telstra has installed Reload Terminals around the University

so you can top up your Card with cash 24 hours, 7 days a week. The Card is inserted into the reload terminal, arrow facing up. The Unattended Reload Terminal will then display the initial card balance and operating instructions. The Reload Terminal will print a receipt and will load the equivalent cash value onto your University Card.

How much can be reloaded?

The minimum amount is \$5 and the maximum is \$500.

Where are the Terminals?

Unattended Reload Terminals are or will soon be installed at the following locations:

- Just around the corner from the Security Office/Smart Card Centre, Hughes Plaza

- In the foyer of the Barr Smith Library (next to the payphone)
- Inside the Barr Smith Library on the far wall from the entrance, by the stairs.
- In the foyer of the Union Building
- In the foyer of the Medical School North
- In the Ligertwood Building by Briefs
- In the Napier Building foyer as part of the Smiths Crisps/Coke recharge centre
- Waite Campus
- Roseworthy Campus.

Attended reload terminals will also be installed at shops on campus.

How the University Card will be distributed

STAGE ONE will involve distribution of the University Card to some 2,500 University staff who hold a contract of employment with the University of greater than three (3) months. All the following information relates only to those staff. Staff in all other categories, including casuals, will be dealt with at a later date.

To facilitate the distribution process, University Cards will be issued by building location over a six (6) week period, in accordance with the schedules on this page.

NORTH TERRACE CAMPUS

- Cards will be issued to staff who hold contracts of employment greater than three months.
- Photos will be taken and cards printed/distributed from the Card Centre in the Hughes Plaza (next to Security Office).
- Staff will need to produce a recent payslip (with their staff ID number) to the Card Centre to identify themselves prior to being issued with a card.
- Staff with approved out of hours building access will also need to provide their existing access card to the Card Centre in order for new access to be encoded on the University Card.

WAITE AND ROSEWORTHY

- Cards will be issued to staff who hold contracts of employment greater than three months.
- Photos will be taken on-site in the Library (via Digital Camera), downloaded and forwarded by e-mail to the Card Centre.
- Cards will be printed in the Card Centre and then forwarded to Waite/Roseworthy to be distributed to staff by Library personnel.
- Staff at Waite and Roseworthy will also need to produce a recent payslip (with their staff ID number) to Library staff to identify themselves prior to photos being taken.
- Staff at Waite with approved out of hours building access will also need new access to be encoded on their University Card, and are strongly urged to get their photo taken as early as possible in the designated period.
- The specific times when staff can be photographed for their University Card at Waite and Roseworthy will be advised in later issues of the *Adelaidean* and on the electronic bulletin boards.

SPECIAL NOTE:

It is important for as many staff as possible to collect their new University Cards in the periods designated.

In particular, staff with current out of hours building access cards should obtain their new card as EARLY AS POSSIBLE in the times allocated or they may be denied access to certain areas of their building(s) in the period up to the date when the old cards become totally invalid (i.e. the date in the right hand column). From this date on, all staff requiring out of hours building access will need a new University Card with the building access encoded.

Staff from Somerton and Thebarton will need to obtain their University Card from the Card Centre, Hughes Plaza.

Building Location	Distribution Period	Building Access Card Holders	Date Old Building Access Cards Invalid
Medical School North Medical School South Dental Hospital RAH QEH Ligertwood	12/10/98 – 23/10/98	12/10/98 – 16/10/98	26/10/98
Napier Lower Napier Engineering South Engineering North Engineering Annexe	19/10/98 – 30/10/98	19/10/98 – 23/10/98	2/11/98 N/A N/A N/A
228 North Terrace 230 North Terrace 233 North Terrace Environmental Studies Education 10 Pulteney Street	26/10/98 – 6/11/98	26/10/98 – 30/10/98	9/11/98 N/A
Mitchell Hughes Wills Old Classics Physics Oliphant	2/11/98-13/11/98	2/11/98 – 6/11/98	16/11/98
Elder Hall Workshop Darling Schulz Badger Madley Hartley	9/11/98 – 20/11/98	9/11/98 – 13/11/98	23/11/98 N/A N/A
Johnson Jordan Horace Lamb Bragg Architecture Barr Smith Library	16/11/98 - 27/11/98	16/11/98 - 20/11/98	30/11/98 N/A
Fisher Benham Mawson Mathematics Alumni House Somerton Thebarton	23/11/98 - 4/12/98	N/A	N/A
WAITE *SARDI/CSIRO/AWRI	9/11/98 – 1/12/98 To be advised		4/12/98
ROSEWORTHY	9/11/98 – 1/12/98	N/A	N/A

IF YOU HAVE ANY QUERIES ABOUT THE CARD DISTRIBUTION PROCESS, PLEASE CONTACT THE CARD CENTRE, HUGHES PLAZA, TEL 8303 3363.

Project Officer (UniAbility)

Equal Opportunity Unit
The University of South Australia
HEO6 (part time position 0.6)
12 month contract
\$36,532 - \$40,312 per annum

The UniAbility Project Officer will work collaboratively with the three South Australian universities to develop and coordinate a range of projects relating to students with disabilities. Duties will include development of resources for people with disabilities to provide them with information about South Australian universities and facilities for students with disabilities; collecting information on support programs for students with disabilities within the national context and recommending appropriate support programs for South Australia.

Essential criteria include a demonstrated commitment and understanding of disability issues; the ability to manage a range of projects, well-developed interpersonal skills and the ability to communicate effectively.

The position will initially be located at City East.

Applicants must obtain a positional description and lodgement details from Ms Jo McKay, tel (08) 8302 2113.

Closing date: 5.00pm Friday 13 November 1998.

The University reserves the right to invite applications, or not to make an appointment.

THE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER.

GRADUATE DIPLOMA IN PUBLIC HEALTH MASTER OF PUBLIC HEALTH DOCTOR OF PHILOSOPHY

The Department of Public Health at the University of Adelaide 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 the current work 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 Diploma in Public Health consists of course work and can be completed in one year of full-time study or two years of part-time study.

The Master of Public Health consists of course work and a substantial thesis or a dissertation and can be completed in two years of full-time study or four years of part-time study.

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

Within each award, it is possible to specialise in policy, health promotion, ethics and law, environmental health, or epidemiology and biostatistics.

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.

NB: An Information evening about these programs will be held on Friday, 16 October 1998 from 5:30pm to 7:00pm in the Seminar Room, Level 6, Bice Building, Royal Adelaide Hospital. Intending applicants are encouraged to attend.

For further details and application forms, please contact Ms Peggie Chu-Clark, Department of Public Health, University of Adelaide, South Australia 5005, telephone (08) 8303 3572, or facsimile (08) 8223 4075 or e-mail <pchuclark@medicine.adelaide.edu.au>. Applications for the 1999 courses close on Friday 13 November 1998.

WWW: <http://www.health.adelaide.edu.au/PublicHealth/>

Student Workshops

SUPPORT FOR STUDENTS WITH SPECIFIC LEARNING DIFFICULTIES

Monday 12 October 1998, 1.10pm - 2.00pm, Counselling Centre, Ground Floor, Horace Lamb Building. Presenter: Sue Barnard.

MANAGING EXAM STRESS

Monday 19 October 1998, 1.10pm - 2.00pm, Counselling Centre, Ground Floor, Horace Lamb Building. Presenter: Sue Barnard.

BOOK NOW ON 8303 5663 OR CALL IN.

SOUTH AUSTRALIAN CENTRE FOR RURAL AND REMOTE HEALTH

CO-ORDINATOR OF ABORIGINAL HEALTH (RE-ADVERTISED)

Lecturer Level B, Three Year Contract, \$45,663 to \$54,225 pa (+ 5% increase effective January 1999)

The University of Adelaide and the University of South Australia have been contracted by the Commonwealth Department of Health and Family Services to establish a university Department of Rural Health called the South Australian Centre for Rural and Remote Health (SACRRH).

The position is offered as a three-year contract. For the first year of appointment, the position will be jointly funded between the SACRRH and the Aboriginal Research Institute (ARI)-Centre for Excellence in the Faculty of Aboriginal and Islander Studies, University of South Australia.

Aboriginal health is a core SACRRH and ARI business activity, and Aboriginal health issues are important considerations within the SACRRH, particularly in the areas of education and training, clinical services, information technology and public health and research.

The incumbent will be responsible for brokering and co-ordinating new initiatives in the area of Aboriginal health education and research, and will work in close collaboration with the SACRRH-directors of education and training, clinical services, information technology and public health education and research. The incumbent will need to develop strong links between the SACRRH, Aboriginal health services in the communities they serve, and key university faculties and groups to develop education, training and research collaboration.

The essential criteria for the position include:

- experience in Aboriginal community-managed health organisations;
- demonstrated knowledge and experience of Aboriginal health issues in rural and remote South Australia;
- a tertiary level qualification at diploma or degree level in health, administration or commensurate disciplines, or equivalent accreditation and standing;
- well developed interpersonal, organisational, communication and leadership skills;
- a current driver's license, and the ability to travel by road and air to rural and remote locations.

The position is available from January 1999 for three years. Further details from Ian Blue, Acting Director-Education and Training, South Australian Centre for Rural and Remote Health - Whyalla, tel (08) 8647 6062 or e-mail <ian.blue@unisa.edu.au>.

APPLICATIONS IN DUPLICATE, addressing the selection criteria and including the names and addresses of three referees, should be forwarded to Ms Julie Short, Personnel Officer, University of South Australia, Room 32, 4th floor, Centenary Building North Terrace Adelaide 5000 before 5.00 p.m., Friday, 23 October 1998.

RESEARCH COLLABORATION WITH INDUSTRY Joint Information Session

Australian Research Council
SPIRT SCHEME

Presented by Professor Peter Robinson

Chair, Australian Research Council University-Industry Research Collaboration Committee

Grants for Collaborative Research Project Australian Postdoctoral Research Fellowship (Industry) APDI Australian Postgraduate Award (Industry) APAI

AUSINDUSTRY (DIST)
R&D
START PROGRAM

Presented by Dr Leanna Read
Chair, R&D Start Committee, Member, Industry Research & Development Board

Grants for commercially focussed projects conducted by institutions with industry partners

19 October 1998, 11.30am - 1.30pm, Council Room, Level 7, Hughes Building. Enquiries: 8303 5137.

SOUTH AUSTRALIAN CENTRE FOR RURAL AND REMOTE HEALTH

RESEARCH ASSISTANT

WHYALLA, One-Year Contract, \$31,965 to \$43,379 pa (a 5% increase is effective January 1999)

The South Australian Centre for Rural and Remote Health (SACRRH) is one of seven University Departments of Rural Health located in rural and remote areas in States and Territories around Australia. The SACRRH is a joint venture between The University of Adelaide, the University of South Australia and the Commonwealth Department of Health and Family Services. The SACRRH is located at the Whyalla campus of the University of South Australia and has a support base with staff in The University of Adelaide.

The SACRRH is seeking a research assistant to provide support for research activities undertaken by the Centre. In the first instance, this will be related to rural and remote public health care issues. The position is offered as a one year full-time contract, but a reduced fraction may be negotiated.

The essential criteria for the position include:

- a relevant tertiary degree or equivalent experience;
- a demonstrated understanding of research processes and methods;
- knowledge and skills in conducting reviews of literature and in the collection and analysis of both quantitative and qualitative data.

The position is available from January 1999 for one year. Details from Mr Jeff Fuller, Director, Public Health, SACRRH, tel (08) 8647 6021, mob 0419 821 830, fax (08) 8647 6164, email <jeffrey.fuller@unisa.edu.au>.

APPLICATIONS IN DUPLICATE, addressing the selection criteria and including the names and addresses of three referees, should be forwarded to Ms Julie Short, Personnel Officer, University of South Australia, 4th floor, Centenary Building, North Terrace, Adelaide 5000. Closing date for applications is 5.00 p.m., Friday, 23 October 1998.

ARE YOU REGISTERED?

- to automatically receive regular updates about research funding opportunities in your areas of interest
- so that details of your interests and expertise are available to potential sponsors, collaborators or industry partners

If not, contact Rod Jewell in the Research Branch on extension 33340 for information about how you can register on the SMARTS/GENIUS system, or access the web site at: <http://australia.infoed.org/wConnect/wc.dll?Office~officemenu_h>.