

Artificial legs to counter landmine damage

HI-TECH ARTIFICIAL LEGS designed and developed in Adelaide could lead to breakthroughs in the prevention of serious injuries caused world wide by landmines.

Although "artificial", the legs emulate human legs in every possible way, including their anatomically correct structure and a top secret material which has exactly the same properties as human bone.

Hooked up to a series of wires and sensors, the legs can be monitored by computer when put through landmine simulation tests. Because of their high level of realism, or "biofidelity", the artificial legs give researchers the best information yet about the impact of landmines on humans and how to prevent such injuries.

The artificial legs are a key part of the landmine protection research headed by the Defence Science & Technology Organisation (DSTO) in Adelaide. Designed and developed by the DSTO's Weapons Systems Division, they have been manufactured with the expertise of an Adelaide University company, Soma.

Soma, the Greek word for "body", is a commercial venture of the University's Department of Anatomical Sciences. The company won a major contract from DSTO to manufacture the artificial legs and other replica parts of the human body. The work to reproduce a realistic human leg

required painstaking effort and anatomical knowledge.

The first shipment of 25 legs has already been exported to Canada. The Canadian Centre for Mine Action Technologies is now using the legs as part of a \$17 million humanitarian program, to trial a series of new boots designed to protect the wearer against landmines.

The United Nations estimates that more than 110 million landmines are scattered throughout the world. Every month more than 2000 people are killed or maimed by mine explosions; most of the casualties are civilians. The cost of removing all 110 million mines could reach \$33 billion.

For some years now the DSTO has been researching better and more cost-effective ways of preventing injury and death from landmines. This latest development has the potential to save the lives of both soldiers and civilians, according to the originator and manager of the project, DSTO scientist Dr Alexander Krstic.

"Canada is the world focus for humanitarian research into all aspects of landmines, including the mine-resistant boot," Dr Krstic said.

"The legs manufactured here in Adelaide are the closest thing yet to a real human leg, and so the information about blast trauma gathered by researchers will be the best information possible.



From left: Mr Wesley Fisk, Mr Chris Leigh and Mr Stelios Michas with samples of the reconstructed feet and bones. Photo: David Ellis.

"By using our legs, the Canadians will save years of effort and a substantial amount of money in research and development. They will also have a number of high-quality, scientifically valid artificial legs on which to test their anti-landmine boots.

"If the boots test successfully, not only

will they be used in military operations, they can also be donated to countries where landmines are an ever-present danger to the local population."

The artificial legs are designed to resemble those of a fit, young male soldier.

Continued Page 8

Award-winner warns of parasite complacency



Dr Ross Andrews. Photo: David Ellis.

PARASITES are a growing threat to the health of average Australians, warns a leading parasitologist at Adelaide University.

Dr Ross Andrews, from the Department of Microbiology & Immunology, highlighted the dangers of becoming complacent about parasites at a recent conference in Yeppoon, Queensland.

At the conference, Dr Andrews was awarded the prestigious Bancroft-Mackerras medal from the Australian Society for Parasitology. The medal is awarded for outstanding contribution to the science of parasitology.

Dr Andrews, who has worked in this field for 26 years, expressed concern about the lack of teaching and training in parasitology. He urged young people aspiring to a career in science to consider parasitology as a fascinating, challenging and rewarding career path.

Every year, parasites account for the death of hundreds of thousands of children world wide. Australia is not immune to outbreaks of parasitic disease, with particular threats including Ross River virus, Dengue fever and severe illness

caused by micro-parasites such as *Giardia* or *Cryptosporidium*. Cases of malaria have also been reported this year in Australia's north.

"Many years ago Australia justifiably felt geographically separated from the rest of the world. But now that separation, that protection no longer exists," Dr Andrews said.

"With increasing transportation of food and people between countries, Australia is more susceptible than ever before to outbreaks of parasitic disease. We must be extremely careful to prevent this from happening if we are to prevent serious illness and even death.

"We already have some very excellent people working in this field in Australia, but I'm worried that without further funding for research and without an influx of new, young talent into the field, we may soon see the consequences of not remaining vigilant against parasites and the diseases they cause and/or transmit.

"The potential cost to Australia of major outbreaks of disease, both in terms of public health and economic cost, is great."

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COMMENTARY

LIVING WITH THREATS

Nicholson, the cartoonist for *The Australian*, pictured the Asian economic crisis in a perceptive cartoon in October 1997. The money markets, riding on a tiger hunt in a howdah on the back of an elephant, are shooting the Asian tigers. Australia, illustrated as a kangaroo, holds a sign with the words 'Not an Asian tiger'. We are regularly reminded that Australia weathered the Asian economic crisis without significant recession. Fortunately for Australia, so did an Asian tiger, Taiwan, a significant trading partner of ours. In 1998 the two-way trade between Australia and Taiwan was worth \$7.21 billion, and the Taiwan GDP has been growing at a rate over four percent for the past two years.

But it wasn't a tiger hunt that put Taiwan in the headlines recently—Taiwanese live with other threats: the danger from earthquakes and the threat of invasion. We have seen on television the devastation caused by the recent earthquake in central Taiwan and, during the September visit of Chinese President Jiang Zemin to Australia, we were reminded of the threat of invasion from China. For a nation which has much in common with Australia it is sobering to think that its political independence is under real threat.

Taiwan is an island state with a democratically elected government. It

has a small but prosperous population in comparison with neighbouring states. Its expanding, high-tech industry is the third biggest in the world, after the US and Japan. It has a developing biotechnology sector with links to Australian institutions. Taiwan is dependent on exports. It has high literacy levels, which reflect an excellent education system. The differences between our two countries are also marked. Taiwan has a small land mass with a population of 21.9 million. From Taipei the capital city in the north to Kaohsiung on the southern tip of the island, the coastal region is densely urbanised and industrialised, physically reminiscent of conurbations in Europe.

On a visit to Taiwan earlier this year I was generously hosted by former students and had opportunities to talk with colleagues in universities, education centres and schools. I was particularly impressed with the investment in public education. A colleague pointed out that Taiwan's response to the Asian economic crisis was to invest in education. I saw a new university under construction. I was shown over a new primary school with facilities surpassing any I have seen in Australia. I participated in teacher professional development programs, in which teachers received

by
Peter Mickan
Centre for European Studies
and General Linguistics

useful resources and strategy training for teaching new curricula. The locally produced multi-media resources for teaching English were practical, attractive and diverse. In addition to attending public schools many children go to cram schools for private, after hours tuition.

I was briefed on Taiwan's plan for the introduction of English teaching in elementary schools and was able to compare the languages planning strategy with that in Australia. Since the mid-eighties Australian education authorities have introduced policies for the expansion of the teaching of languages other than English in schools. The implementation of the policies has been undermined by the lack of highly proficient teachers in languages other than English. By comparison the Taiwan education authority has systematically planned for the expansion of the teaching of English first through the selection of teachers with high levels of English language proficiency and then through specifically tailored teacher training programs.

I had been invited to Taiwan as the international keynote speaker at the Sixteenth National Conference on English Teaching and Learning so language education was of particular

interest to me. The comprehensive conference program with research reports on issues of international concern in applied linguistics reflected the international orientation in education generally. Colleagues described the financial and career incentives for graduate students to study for higher degrees overseas. I met many people in universities and schools who had higher degrees from the USA. Three-quarters of the Cabinet members in the Taiwan parliament have PhDs. It became apparent that the established links with tertiary institutions in the USA attracted students there. In contrast very few people were aware of study opportunities in Australia.

As Australians prepare for a constitutional vote, the republic of Taiwan prepares for the election of a new president—in March next year. The incumbent, President Lee Teng-hui, has overseen the transition from an autocratic government to democracy and his governing Kuomintang party is being effectively challenged for the first time since elected to power twelve years ago. The outcome of this election will have a significant impact on the future status of Taiwan as an independent state, and candidates are carefully formulating policy on future relations with China. It is an election Australians might watch with interest.

Celebrating
125
years

FROM NEAR AND FAR

Richard Morecroft has been the ABC's 7pm news presenter in Sydney since 1983. Before that, in Adelaide, he presented TV news, then the current affairs program 'Nationwide'. He has also been the host for a variety of ABC education programs including 'Science Magazine' and 'Behind the News' (BTN). Richard is the author of wildlife books 'Raising Archie' and 'A Natural Selection' and co-author with partner Alison Mackay of 'Wolves of the Sea', 'Pool' and 'Impossible Pets'. Richard and Alison are also co-directors of a media consultancy focusing on interview and presentation training.

Ahhh...University days; the best, and, it must be said, for a while the most confusing of times. When I arrived on campus at the beginning of 1973, it was as a medical student. But the two decades or so of my professional life have primarily been as a television and radio broadcaster. So what happened?

Well, my enrolment in medicine resulted from a fascination with wildlife and biological processes. Don't ask me how my teenage mind had made that strained connection, not to mention the potential implications had I qualified.

"Doctor, what's wrong with me?"

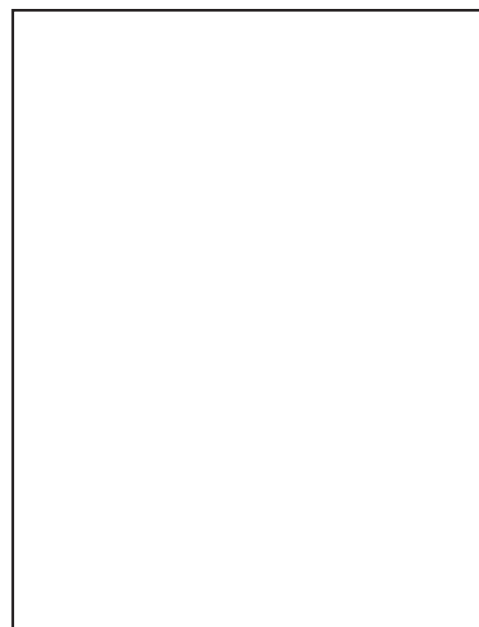
"No idea I'm afraid. But let me tell you about the intriguing life cycle of the Gastric Brooding Frog..."

Anyway, it gradually became clear that a commitment to medicine needed discipline and a singularity of vision which I couldn't muster; at least not while struggling with a burden of adolescent identity crises. The

transition from a highly structured single-sex school to the flexibility of a university campus in the early 70s was both euphoric and terrifying. The Leonard Cohen records got a good workout and in 1975 I moved from medicine to arts.

English and drama were my mainstays and I revelled in the creative flexibility they offered. I have fond recollections of working on Jim Vilé's groundbreaking student-scripted drama *The Megawatt 41 Show*, of sitting mesmerised while Kevin Magarey teased apart the fabric of Shakespeare's sonnets and of being over-enthusiastically talkative in English tutorials. The editor of this publication was my tutor at the time and I have him to thank (and I do mean thank!) for identifying my essay style as "purple prose". I'm trying to fix it John, honestly...

The turning point of my university days occurred underground. No, not some subversive political movement, but the subterranean studios of community radio station 5UV. I was asked by fellow drama student (now ABC producer) Peter Lindon to read some scripts for broadcast on the then recently established Student Radio. One stint behind the microphone in a production studio and I was hooked. Peter patiently instructed me in the intricacies of the buttons, dials, knobs, faders and tape decks. Gradually I overcame my technical ineptitude and started to make and present Student Radio programs. It was a time of excitement and obsessive fascination. Every spare moment (and some that should have been spent at lectures and



tutorials) was dedicated to devising and producing programs; from lunatic comedy serials with Tony McCarthy (now Phillip Satchell's producer on 5AN) to the dubiously named "Kultewer Show"; from late night contemporary rock to a blend of fine music and interview. The possibilities and opportunities were only limited by time and energy.

5UV was a supportive and instructive environment; a community rich with character and commitment which made access to the airwaves possible for students as well as a range of other cultural and special interest groups. The encouragement and tolerance of 5UV Manager Keith Conlon (a household name for years now in the Adelaide media) and technical controller Rick Palmer, for those of us

intent on testing our student broadcasting potential, was both generous and frequently necessary. (I remember accidentally erasing a recorded address by the Vice-Chancellor which Keith had personally produced. It was the only copy and due to be broadcast the following day. I still recall the growing sense of horror as I pulled the tape from the erasing machine and read the label. Oops...)

So the broad milieu of the University—at first confusing—gradually provided a clearer perspective of academic and social identity. But it was Student Radio and 5UV which brought the picture into focus for me. The on-air and production training gave me a foundation of skills which led eventually to an announcer's position at the ABC late in 1977, in the final months of my degree. Auntie, bless her cotton socks, rostered my shifts around my lecture schedule and I was able to polish off my BA at the end of the year. From there, I've been able to explore an intriguing range of broadcast opportunities over the last twenty-two years.

But a final, lingering memory strikes me from those university days; the feeling of sitting down on the grass of the Barr Smith lawns. So many conversations held there, so many coffees and yoghurt slices from The Cellar consumed, so many aspirations, dilemmas and possibilities shared and kicked around. Those lawns were a rich learning environment too and must, I'm sure, have been an integral part of many a degree before and since my time. Long may they be sat upon!

Graduation schedule to change

ADELAIDE UNIVERSITY is set to become the first South Australian university to hold its main student graduation ceremonies in summer rather than autumn.

From next year, graduation ceremonies for students in all faculties will be held in December instead of the traditional April/May period.

The change will allow local and international students to graduate together within weeks—rather than months—of completing their final exams in November.

The University plans to hold a pilot graduation ceremony on 17 December this year for Dentistry and Commerce students, with a large group of Medical students

also participating.

Between 2,500 and 3,000 students graduate from the University each year.

The Vice-Chancellor, Professor Mary O'Kane, said a survey of local and international students had found overwhelming support for the proposed change.

"The demand has been driven by the students themselves," she said.

"December graduation ceremonies will mean that graduates can seek employment with their certificates already awarded.

"Most students are still resident in Adelaide a short time after completing their studies, so it's likely that more will be able to attend the ceremonies.

"The change will be particularly beneficial for international students.

"At present, because of visa restrictions and the financial burden involved, many of them are unable to return to Adelaide for graduations in April.

"Holding the ceremonies in December, within weeks of the final exams, will allow many more to attend without these difficulties."

Follow-on ceremonies will continue to be held for students unable to attend the main graduations.

The University will also continue to hold its annual graduation celebration ceremony in Kuala Lumpur.

—John Drislane



From strength to ?

Adelaide and South Australia have developed a reputation for excellent food and wine. Witness the success of Tasting Australia, an event which has brought some exciting people to town. I was visited the other day by the Chief Executive of a major international food school which has been holding discussions with our University about the possibility of joint courses. We would be bringing together two fine brand names to offer something internationally appealing.

We discussed our respective organisations. I was able to describe our strengths, from the study of gastronomy (conducted by the Research Centre for the History of Food and Drink), through our significant work in food production in Agricultural and Natural Resource Sciences, the economics of trade in food in PALACE, the science of food processing which is undertaken by three of our science-based faculties, and also the related areas of nutrition and dental hygiene. It all makes for a good and engrossing story. Of course there is then our complementary strength in wine education and research. Our considerable capacities in these areas certainly seemed to impress my visitor.

The University's great strength in food and drink represents a major theme, and resembles its great strength in another big theme area, and that is the environment. We have established expertise in many aspects of the environment including ecology, environmental restoration, dry land farming, environmental engineering, environmental health and environmental law, politics, management and architecture. The stories centred around the themes tell of considerable strengths in important areas.

These particular two strengths of Adelaide, food and drink on one hand, and the environment on the other, are also areas of great importance to our State of South Australia.

It seems that these strengths make a big impression on our visitors. They are particularly distinctive features of an institution which is already well known as a good comprehensive university, and one of Australia's most research-intensive.

In a world in which universities are forced to be increasingly competitive, the real challenge for us is to organise appropriate structures so that we can realise commercial education and research opportunities in these areas of strength. Given that another of our strengths is our strong discipline base, the challenge is to construct teams around the theme areas as needed, and perhaps then "re-team" in another formation for another particular project in that theme area. It's not quite the same as multi-disciplinarity although there are obviously some parallels. The question of managing multi-disciplinarity is also a challenge for us.

Basically, what this is all about is how we can be clever enough to use our fairly distinctive strengths and turn them into high-return funding sources to secure our future. With such strengths in areas of such importance in today's world, it's well worth a try.

MARY O'KANE

PGSA awards for our top staff

THE Postgraduate Students Association (PGSA) has held its annual Postgraduate Awards for supervisors, lecturers and general staff members.

The awards are nominated by honours, research and coursework students in recognition of excellence of service. This year we received an unprecedented 53 nominations for 42 staff, due to students being able to nominate online for the first time on the PGSA website.

Vice-Chancellor Professor Mary O'Kane presented the awards to the winners, with many students and members of staff in attendance.

Mr Helder da Costa, a PhD commerce student at Adelaide University and former Director of External Relations of the University of East Timor (UNTIM) gave an address on the task ahead of rebuilding UNTIM and thanked the Vice-Chancellor for her offer of accommodation and assistance for East Timorese refugees.

Supervisor of the Year: Dr Ted McMurchie (Physiology)

Runner up: Dr Nick Harvey (Geographical & Environmental Studies)

Supervisor of the Year, President's Award: Dr Kay Schaffer (Social Inquiry)

Lecturer of the Year: Mr Graham Taylor (Graduate School of Management)

Runner up: Professor Martin Williams (Geographical & Environmental Studies)

General Staff Member of the Year: Mr Billy Constantine (Mechanical Engineering)

Runner up: Miss Kris James (Geographical & Environmental Studies).

The Roll of Honour of the winners and nominations is listed on the Events page under Postgraduate Awards on the PGSA website: <<http://www.adelaide.edu.au/PGSA>>.

—Joslyn van der Moolen
Postgraduate Students' Association



From left: Vice-Chancellor Mary O'Kane presents Dr Kay Schaffer with the PGSA President's Award for Supervisor of the Year. Photo courtesy of PGSA.

New ID system for staff and students

NEW identification numbers will be issued to all staff and students at the University of Adelaide starting from next month.

The new numbering system—a key element of the Campus Community database being established by the Project Endeavour team—aims to improve administrative efficiency by reducing duplication of data and effort.

It will provide a unique seven-digit identifier for all members of the University community.

The system marks a significant departure from current practice.

At present, an individual can have a record in several different systems,

such as Personnel (payroll), Students and Alumni, and can have a different ID (and possibly inconsistent personal data) in each one.

The new single-record identifier will be used across all systems, including the University Library, the Card Centre and IT Directory Services.

Staff will receive their new ID numbers automatically on their pay slips for the 19 November pay day.

The pay slips themselves will look different and will contain additional information. (They will be accompanied by a flyer explaining the new features.)

The new ID system will help to achieve greater consistency in the personal data stored on the Campus Community database.

The database will be the repository for all generic personal data related to all individuals who have a relationship with the University. This includes students, employees, alumni and other categories such as visiting academic staff.

—John Drislane

Visit the Project Endeavour web site at:
<<http://www.isb.adelaide.edu.au/mis2001>> for more information



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John Edge
Editor

Julie Ryke
Layout

Printed by
Cadillac Color

Writers
John Drislane
David Ellis
David Washington

Contributors
Sheila Bryce
Geoff Sauer

Deadline for next issue is 21 October

Room G07 Mitchell Building, South Australia, 5005. Tel (08) 8303 5174; Fax (08) 8303 4838; Email: julie.ryke@adelaide.edu.au
WWW: <http://www.adelaide.edu.au/Adelaidean/home.html>
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'Exciting experience' of international research

A NEW radio program has been launched to promote the work of international postgraduate students in Adelaide.

"International Links"—broadcast on Radio 5UV on Thursdays (8pm)—is an initiative of the Council for International Students in South Australia (CISSA).

It aims to tell Australian listeners what international postgraduate students are contributing to the community and what they plan to do when they return to their home countries.

CISSA president Professor David Boyd said the program was valuable in other ways, too.

"It gives permanent migrants in Adelaide a sense of pride that someone from their culture is doing outstanding work," he said.

"It also provides media experience to students intending to communicate their knowledge when they return to their home countries.

"They learn how to speak simply about their work and how to overcome the impersonal feeling of talking to a microphone."

CISSA, which draws members from the three South Australian universities, has formed a management group of eight academics and postgraduates to produce and present "International Links".

Research featured so far has ranged from studies of neuroscience and the blood barrier in the brain to the

impact of nickel mining in the Philippines.

The programs have also unearthed some fascinating personal histories.

Professor Boyd said the program makers were keen to hear from more international postgraduates.

"We are working closely with the three university newspapers to find suitable candidates for interview.

"We invite international postgraduates to submit a summary of their research (about 600 words) to their university newspaper.

"These summaries will be considered for publication and will then be passed on to 'International Links' to provide the background for a radio interview."

The idea for the program grew from a survey of international postgraduates at the 1997 Congress of the Australian and New Zealand Association for the Advancement of Science (ANZAAS).

Asked what they intended to do when they returned to their home countries, half of the postgraduates said they wanted to communicate what they had learned.

Radio was identified as a powerful medium for doing so.

At the Congress, this resulted in a one-off media training workshop and the start of a quest for longer-term funding.

A \$3,000 grant from Adelaide City Council enabled CISSA to launch the radio initiative, but more funding will



From left: Dr Adam Lockett from Adelaide University's Department of Anatomical Sciences; Adelaide University postgraduate student Chunni Tzu from China; Flinders University postgraduate student Chairill Anwar from Indonesia; and Professor David Boyd, President of the Council for International Students of South Australia. Photo:

be needed if the program is to continue beyond the end of this year.

"The program has potential for re-broadcasting interstate and internationally," Professor Boyd said.

"It's very valuable in terms of educating the Australian community as well as communicating with the countries from which our postgraduates come.

"Those of us involved are finding it an exciting experience.

"We're learning about a great deal of fascinating postgraduate research that we had no idea was going on in Adelaide."

"We're sure other people did not realise it either."

—John Drislane

Renewed focus on learning and teaching priorities

THE Deputy Vice-Chancellor (Education), Professor Penny Boumelha, has finalised arrangements for expenditure of the \$1 million annual Learning and Teaching Budget introduced in 1999.

The fund, set up to support learning and teaching initiatives, will be allocated across three major categories:

(1) support for reviews; (2) competitive programs from which money can be sought, sometimes on a matching funds basis; and (3) discretionary funds for distribution by the Deputy Vice Chancellor (Education).

Funds have been allocated as follows:

Discretionary fund (\$350,000):

Under this category, money is available for significant initiatives that fall outside the conditions or cycles of other funding programs. Examples could include seed funding or commissioning of a report or inquiry on an important educational issue.

IT development program (\$200,000): Sums will be provided on a matching funds basis for IT-based teaching and learning initiatives in faculties.

Reviews (\$200,000): This program will support major disciplinary reviews across structures as well as reviews of academic organisational units and reviews of awards.

Teaching development grants

(\$150,000): This new scheme aims to help individual staff to achieve practical improvements in tertiary teaching and learning.

Departmental teaching awards (\$50,000): The current award scheme is being broadened—and prize money increased—to reward excellence in teaching and learning at Departmental level.

Library learning facilities (\$50,000): This funding will help to upgrade student learning facilities and support learning and teaching projects at the University's libraries.

Professor Boumelha said she hoped the initiatives would encourage a

genuine developmental culture in the University.

"It is not unfair to say that until recently, perhaps most particularly within research-intensive universities, learning and teaching have unfortunately lagged somewhat behind research as a strategic priority," she said.

"My intention in bringing forward a budget structured in this way is to provide a new focus on the University's own learning and teaching priorities, while in effect establishing an investment fund to assist staff and areas to approach the new priorities productively and with confidence."

—John Drislane

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Cerebral Palsy consensus overturns tradition

ADELAIDE RESEARCHERS have led an international task force to reach a consensus on the causes of Cerebral Palsy. And the conclusion overturns the traditional belief that the irreversible condition is caused by oxygen deprivation at birth.

The task force, chaired by Associate Professor Alastair MacLennan, in the University of Adelaide's Department of Obstetrics and Gynaecology, has been published in the *British Medical Journal*.

Dr MacLennan believes the consensus statement, reached after two years of discussion involving specialists across the world, should open the way for new research into the early diagnosis and potential treatment of Cerebral Palsy.

He said the group's consensus was that Cerebral Palsy almost always

developed during pregnancy or after birth in some very premature infants. The group has also developed a template of objective scientific evidence required to identify those few cases of Cerebral Palsy that are associated with oxygen deprivation beginning in labour or at birth.

He said the consensus was also designed to end inappropriate and damaging litigation, which had led to a prohibitive increase in medical indemnity insurance and may have contributed to the closure of some maternity hospitals.

The task force invited opinion from experts in Cerebral Palsy causation from around the world and its final statement has been endorsed by a large number of International Colleges and Scientific Societies.

Cerebral Palsy affects 650 new babies in Australia each year at a rate which

has not changed significantly over the past 40 years, despite massive improvements in birthing conditions and procedures.

Dr MacLennan said the brain damage which caused Cerebral Palsy most often occurred "silently" during pregnancy due to several causes, including a compression of the umbilical cord, intrauterine infection and congenital clotting disorders in the fetus.

"When both infection and clotting disorders are present, the unborn baby is especially at risk of abnormal clotting occurring in the arteries to its brain, and a type of 'fetal stroke' may develop," he said.

"Thus established and currently irreversible brain damage may not be recognised until monitoring in labour, or until after birth when the baby is unwell.

"Previously these signs of fetal distress in labour were assumed to have begun then, and attempts to deliver the baby in time, or in good condition, were unsuccessful, sometimes leading to inappropriate recrimination and expensive civil litigation."

He said litigation had had a major detrimental effect on modern obstetric practice and services in Australia, however it had also inhibited research during pregnancy—the time at which most cases of Cerebral Palsy are now recognised to begin.

"We can now move to the antenatal detection of the causes of Cerebral Palsy and their eventual prevention," he said.

The Perinatal Society of Australia and New Zealand funded the international task force.

—David Washington

Sex conference

SEX is the subject of a new national conference being hosted by Adelaide University this month.

Called "Sexualities: the Australian Kaleidoscope", this is the first national conference on sexology ever held in Australia.

Organised by the Australian Society of Sex Educators, Researchers & Therapists (ASSERT), this unique conference looks at a wide range of sex and sexuality issues.

Papers to be given cover male and female sexualities, disabilities, sex among young people, sex among the elderly, health and mental health, the sex industry, human rights, gender and transgender issues, and sex therapy.

Keynote speakers include Professor Rosemary Coates (Director of the Centre for Sexual Health, Curtin University), Dr Naomi McCormick (Clinical Health Psychologist at Allen Memorial Hospital, Iowa, USA) and Associate Professor Gary Dowsett (Deputy Director, Australian Research Centre in Sex, Health & Society at La Trobe University).

One of the organisers of the conference is Adelaide University senior lecturer Mr John Kaye (Department of Psychology), who is also a member of ASSERT.

"Sexualities: the Australian Kaleidoscope" will be held in Adelaide University's Union Building on Friday and Saturday, 22-23 October.

Reversing the 'brain drain'

POSTDOCTORAL researcher Dr Dan Peet is one of this year's recipients of the AMRAD Postdoctoral Award.

The annual award by biomedical company AMRAD carries with it a medal and a cheque for \$20,000. It rewards outstanding biomedical scientists who have returned to Australia from overseas, and is aimed at preventing the "brain drain" of young scientists to overseas countries.

Dr Peet, who is now working in Adelaide University's Department of Biochemistry with Dr Murray Whitelaw, returned to Australia after more than three years of postdoctoral research at the University of Texas.

While working with Dr David Mangelsdorf at the prestigious Howard Hughes Medical Institute in Texas, Dr Peet became the first investigator to describe a crucial regulatory mechanism for cholesterol metabolism. His discovery has already attracted the interest of pharmaceutical and biochemical companies in the US.

His work in Adelaide is now focused on the role of proteins in hypoxia (low oxygen concentrations in the blood) which could explain a great deal about the causes and effects of stroke, heart attacks and the growth of tumours.

"I was very pleased to receive the



Dr Dan Peet with his AMRAD medal. Photo: David Ellis

award," said Dr Peet, who praised AMRAD for providing a "good incentive" to other young biomedical scientists to bring their expertise home to Australia.

"There's a lot more research in the US, it's better funded and there are more opportunities. It would have been easier to stay there because it can be difficult to establish yourself in Australia. But awards like this are a great support," he said.

"The Biochemistry Department here in Adelaide has a very good research base and there is a significant amount of quality research being conducted here. I believe that we're still way behind the US when it comes to receiving private funding from companies for research, and hopefully that's something that will improve as biotechnology becomes more highly valued in Australia."

—David Ellis

Award-winner warns of parasite complacency

From Page 1

Dr Andrews said he was humbled by the award of the Bancroft-Mackerras medal, which is named in honour of four eminent Australian parasitologists.

"It's a very big honour, particularly in the context of the outstanding people who've been awarded this medal previously.

"The main reason my research program here in Adelaide has been so successful is not due to one person, it's because it's underpinned by my personnel and a professional team-based philosophy. It is indeed an honour and pleasure to share this medal with the rest of the team," he said.

"We need to keep that team-based philosophy and expand on it, making sure that we have the networks and the expertise to deal with

parasitic health threats proactively, not just when they arise."

Dr Andrews had a very sobering message for those who might not be convinced that parasitology is a worthy cause.

"Everyone knows about sudden infant death syndrome because, even though it is relatively rare, it is a cause of death for Australian kids. But parasites, in all their different species, kill orders of magnitude more children daily in developing countries. Surely there's a message here.

"Not only can Australia protect itself against the threat this poses, but the high quality scientific work conducted in this country can also help developing countries, thereby protecting us all."

—David Ellis

Parasites: what they are, what they can do

Gut infections including amoebic dysentery are the most important killers of children in developing countries (also includes bacterial and viral infections).

Plasmodium falciparum: a protozoan parasite which causes **malaria**. Mortality per annum of 2-3 million, most of whom are children under the age of five (two million in Africa alone). Malaria is endemic in over 100 countries with about 120 million new cases each year.

Trypanosomes: protozoan parasite which causes **sleeping sickness** in Africa, with about 200,000 new cases each year, and **Chagas disease** in Central and South America, 18 million infected with about 45,000 deaths annually.

Toxoplasma: protozoan parasite, very high prevalence. In a pregnancy, 50% transplacental transfer is possible if the woman has a primary infection. Can lead to severe damage to the unborn/new born child. **Abortion** is common as are **severe deformities** and **hydrocephalus**.

Helminths: worms, tapeworms, round worms, flat worms. Usually the pathology is not severe but helminth infection is very common.

Schistosomiasis: worms. In 76 countries, with 200 million infected humans.

Ascariasis: worms. Estimated to infect about 22% of the human population.

Champagne supernova

THE YOUNG Australian of the Year is usually awarded to someone who has excelled in sports or business. This year it was won for the first time by a young astrophysics graduate with a PhD from Sydney University.

Dr Bryan Gaensler's postdoctoral year at Massachusetts Institute of Technology has been interrupted by a number of return visits to Australia related to his award.

In May he was here for National Science Week. This month he returns for a lecture tour, including a visit to Adelaide.

On Wednesday 20 October he will give a free public lecture sponsored by the SA branch of the Australian Institute of Physics and the Astronomical Society of SA.

The illustrated lecture, titled "Champagne Supernova in the Sky", will be held in Adelaide University's Union Hall. A large audience of all ages is expected.

The supernova, or exploding star, is Supernova 1987A which Dr Gaensler studied using radio astronomical and optical telescopes for his PhD. It is the first supernova visible by eye that has been studied with the full array of modern techniques, and it has revolutionised some long-held ideas about such phenomena.

—Dr John Patterson
Physics & Mathematical Physics

Family reunion becomes reality

TEN YEARS of frustration ended for Adelaide University staff member Ben Yengi when he welcomed seven of his family to South Australia last month.

Sudanese-born Mr Yengi, Community Relations Officer at the Thebarton Campus, had fought since 1989 to bring his relatives to Adelaide from a refugee camp in Uganda.

Year after year, bureaucratic obstacles blocked his efforts.

But a refusal to concede defeat—coupled with the support of the University community, among others—enabled Mr Yengi to achieve his goal.

"If I had to name one success in my life, this would be it," he said.

"It has taken a lot of perseverance and tolerance not just on the part of my family in Uganda but also my family here in Australia."

Mr Yengi's relatives have suffered greatly as a result of the civil war in Sudan.

In 1989, they were forced to take shelter in the Adjumani Refugee Camp in northern Uganda.

His father, brother, sister-in-law, niece and eight cousins died in the disease-ridden camp.

In 1996 Mr Yengi arranged for his sick brother's seven-member family to leave the camp and move into a flat in Kampala.

To cover the \$300-a-month rent, he launched an appeal fund in Adelaide.

"It would have been impossible to maintain them without the donations of the University community, local



Ben Yengi (bottom left) with family members. Photo: John Drislane

schools and the public," Mr Yengi said. "I'm particularly thankful to the people at Thebarton Campus, especially Rex Hunter, for the concern and support they showed.

"I'm also grateful to the many politicians and church leaders in Adelaide who have helped me."

Soon after their arrival in Australia on sponsored humanitarian visas last month, the group of seven brothers and sisters visited the University to express their thanks personally.

As a group, their priority is to enrol in an English language course. (All are

talented singers and musicians and performed at the recent Ceduna Oyster Festival.)

Mr Yengi, who took out a \$10,000 loan to pay the family's airfares, has set himself a new challenge.

"My biggest concern now is my youngest brother's eight children," he said.

"They are orphaned and are still living in the refugee camp in Uganda.

"I'm trying to support them as much as I can and sponsor them to come to Australia, too."

—John Drislane

GEOLOGICAL SOCIETY OF AUSTRALIA PUBLIC LECTURE

Noah's Flood: The Geological Evidence

To be presented by Dr Walter C Pitman (Lamont-Doherty Earth Observatory, New York) at 7.30pm on Thursday 21 October 1999 in the Union Hall, University of Adelaide.

No reserved seating. Tickets \$5 available at the door. For more information visit the web site at: <<http://www.gsa.org.au/public.htm>> or contact Vic Gostin, tel 8303 4039 or email: <victor.gostin@adelaide.edu.au>.

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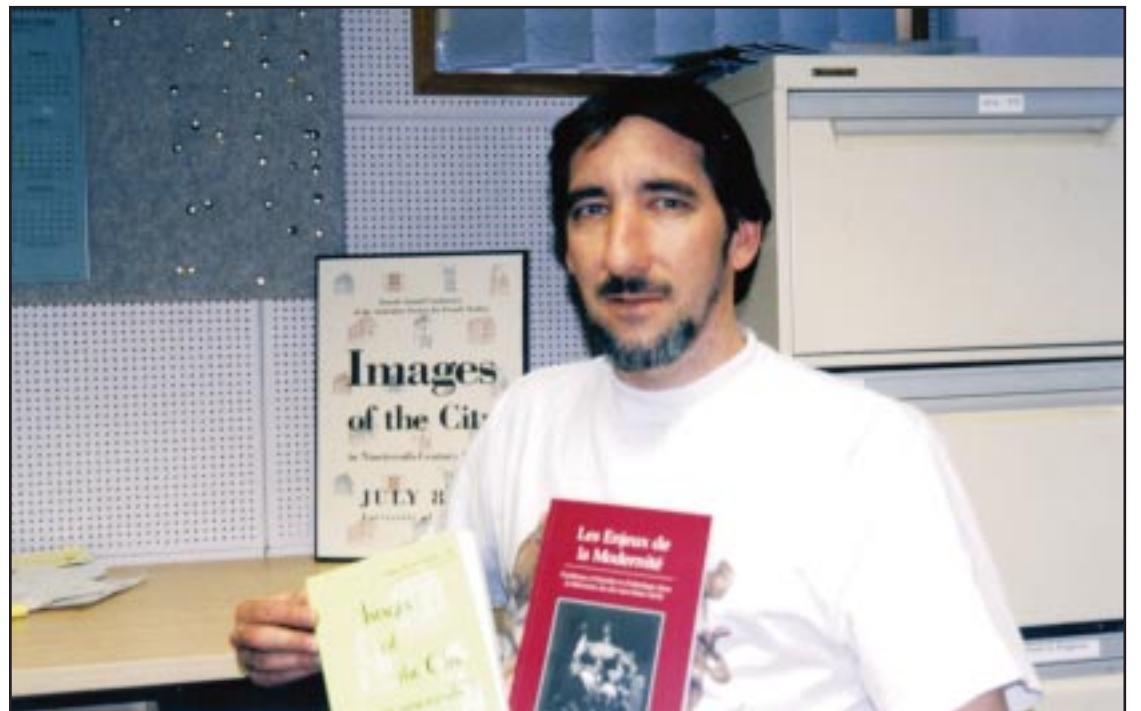
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French studies in focus



Dr John West-Sooby. Photo: John Drislane

ADELAIDE UNIVERSITY'S Dr John West-Sooby, senior lecturer in French Studies, has added two more books to his catalogue of publications on French culture.

The new works, both collections of essays edited by Dr West-Sooby, were launched at a recent function in the University by Dr Colin Nettelbeck, Professor of French at the University of Melbourne.

One of the books, *Images of the City in Nineteenth Century France* (Boombana Publications), is the fruit of a conference held at Adelaide University in 1996.

It is a collection of essays exploring how, in 19th century France, the work of writers, artists and thinkers brought about a major

shift in perceptions of urban life.

Contributors from around the world include specialists in the fields of literature, history, music and social history.

Dr West-Sooby's other new work, published by Monash Romance Studies, is a collection entitled *Les Enjeux de la Modernité. Problèmes d'identité et d'idéologie dans la littérature du dix-neuvième siècle* (The Stakes of Modernity. Problems of identity and ideology in 19th century French literature).

In these essays, leading scholars focus on the tensions between the individual and the collectivity in the rapidly-changing society of 19th century France.

—John Drislane

OCTOBER GRADUATIONS 1999



BROTHERS showing they've got two reasons to celebrate—both receiving their PhDs. From left, Dr Stephen Blanksby (PhD, Chemistry) and Dr Andrew Blanksby (PhD, Electrical & Electronic Engineering).



MACE BEARER for the afternoon graduation ceremony was Ms Sarah Goodall (Bachelor of Arts, First Class Honours in Geography), pictured with her parents.



EXCITING time for this family, capturing the moment on camera. Mrs Monti Bullock (Graduate Diploma in Cognitive Science) poses with her son.



FAMILY celebrations for Ms Zara Choy (Bachelor of Computer Science), a student under the Adelaide/SIT twinning program in Malaysia.

Walk around the Waite Conservation Reserve

THE ALUMNI ASSOCIATION Sciences and Mathematical Sciences Chapter and the Waite Conservation Reserve are pleased to invite University Alumni and Staff, their families and friends and interested members of the public to an exciting and informative event.

The event is not only a guided tour of one of the University's most valuable assets, it's a chance to learn about an area dedicated to the protection of nature and the furtherance of scientific knowledge. And there is a barbecue afterwards!

The walk around the Waite Conservation Reserve in the company of scientists will explain the flora, fauna and geology of the reserve, and the current research being carried out within the reserve. At the top of the reserve, a geomorphologist will talk about features and land use of the Adelaide Plain, which will be in full view.

This magnificent hills face area has been used for intermittent grazing for most of this century, and the project work to rehabilitate the native flora and fauna of the reserve will be fully explained. The reserve is home to several hundred species of plants as well as kangaroos, koalas and echidnas. The reserve also has the distinction of being the best surviving example of Grey Box woodland.

The walk is on Sunday 31 October and will commence at 10.00am from the bottom of the Reserve trail (UBD Map 131 G15). The barbecue will be at 1.30pm after the walk. Cost \$4 adults and \$2 children. BYO drinks, including water to carry on the walk and please wear suitable footwear. Parts of the walk are over very steep terrain.

The event is supported by the Investigator Science and Technology Centre and ANZAAS. Bookings are essential with the Alumni Office, 8303 5800.

Sciences & Mathematical Sciences Chapter talk

The Sciences and Mathematical Sciences Chapter presents a talk by Gail Higginbottom on Archaeoastronomy on Wednesday 17 November at 7.30pm in the Mawson Lecture Theatre. Ms Higginbottom recently returned from overseas after researching the astronomical significance of European paleolithic sites.

Books in My Life

THE NEXT speaker in the Friends of the State Library's Wednesdays at One series is Elizabeth Ho, formerly Associate Director of the State Library and currently on leave from the Library to develop the Hawke Centre at the University of South Australia.

Elizabeth Ho is an Honours History graduate of Adelaide University. Her career includes the unusual distinction of having acted while a child with Zoe Caldwell in the University of Adelaide Theatre Guild world premiere of Patrick White's *Season at Sarsaparilla* in the early sixties. A lover of food writing, Elizabeth Ho has co-authored *My Food* with master chef Cheong Liew OAM.

Wednesday 3 November, 1pm, Institute Building, North Terrace. \$5 (Concession/Friends \$3).

OMISSION

The article on world under-23 rowing champion Amber Halliday (*Adelaidean*, 20 September, p.5) omitted to mention that she is the holder of a Bob Heddle Scholarship from the University of Adelaide Sports Association. The Association awards four Bob Heddle Scholarships and one Don Stranks Scholarship (each worth \$1,000) every year.

Classical Reading

A RARE opportunity to hear the Gilbert Murray translation of Euripedes' *Iphigenia in Taurus* presents itself on Thursday 28 October at 7.30 pm.

Professor Gilbert Murray, great classical scholar, was Regius Professor of Greek at Oxford from 1908-1936. A distinguished interpreter of Greek ideas, his translation of the *Iphigenia* combines high drama, lyrical verse and poetic grandeur. Professor Murray described the play as "delightful, subtle, everchanging" and of the recognition scene, he wrote that it became to Aristotle a model of what such a scene should be. It is a romantic play yet there broods over it constantly the cruel shadow of separation and exile.

You are invited to join the English Association as their guests in the Ira Raymond Room of the Barr Smith Library for this rehearsed reading given by a cast of distinguished actors.



THE UNIVERSITY OF ADELAIDE LIBRARY

Barr Smith Library Tours

The Barr Smith Library is offering free 30 minute guided tours on the first Thursday of every month.

These tours are ideal for those alumni who use the library, and particularly those who are new Services Subscribers. Familiarise yourself with the layout, collections, resources and services of the Barr Smith Library. Your guide will give you a Library Information Kit to keep for future reference.

Tel: Jennifer Osborne, Reference Services Librarian, 8303 3706 or email <josborn@library.adelaide.edu.au> to make arrangements. Maximum of 12 per group.

Artificial legs to counter landmines

From Page 1

Production of the legs involved months of hard work by the University's Anatomical Sciences staff, in particular Mr Wesley Fisk, Mr Chris Leigh, Mr Stelios Michas and Mr John Cecchin. Skilled in the reconstruction and reproduction of human and animal skeletons, the staff pieced together the artificial legs bone by bone.

Stages in the production called for CT scans from the Royal Adelaide Hospital, computer-based images from Adelaide's Cranio-Facial Unit, and models created by laser technology at the SA Centre for Manufacturing. Eventually the bones were made out of a patented substance developed by DSTO, placed inside a cast of a human leg filled with a gelatine which imitates muscle tissue.

"The result is an exact replica of the bones, the ligaments, the tendons, muscle tissue and so on around the knee, the foot and the entire leg," said Professor Maciej Henneberg, the Head of Anatomical Sciences and CEO of Soma.

"It is so realistic that when you take an x-ray of the leg after it has been tested in a landmine blast, it looks exactly like an x-ray of a patient. Our team has done an excellent job."

The technology and expertise used to create the artificial legs is also being used in the DSTO's ongoing efforts to create a full "biofidelic" replica of a human body. Such a replica could be used to gather unique information about the effect on the human body not just of landmine trauma, but other ballistic trauma, aircraft crashes, motor vehicle accidents, and other serious injury.

"We are now developing the capability for supplying body simulators that can be used with scientific validity in a wide range of tests," Dr Krstic said.

"Crash test dummies used by the major car manufacturers will become a thing of the past when you compare them to our technology. This has substantial market potential and is a great example of how expertise in Adelaide can capture the world's attention."

—David Ellis

'Surreal' journey inspires new work

HURTLING through the night at over 150km an hour on the Express Passenger Train between Sydney and Melbourne, with sleep disturbed by stops and starts and the noise of passengers embarking and disembarking didn't make for a very comfortable journey for composer Natalie Williams. But it was one of her most inspiring. From this journey has come her most recent work 'XPT', commissioned by Symphony Australia.

"I made this overnight journey on the XPT near Christmas a couple of years ago when the train was crowded with passengers. The combination of drifting in and out of sleep, the sensation of the train stopping and starting and the intermittent noise gave the journey a very surrealistic feeling.

"My work 'XPT' doesn't represent the train, but mirrors the environment of the journey. While the piece is rhythmically driven, relying heavily on a 3+3+2 quaver pattern, I have aimed to reflect the energy, power and exuberance associated with XPT rather than the motion of the train itself. In this respect, I have designed the work as an overture or fanfare-type piece, suitable for the beginning of a concert program."

Natalie Williams is undertaking a Master of Music degree at the Elder Conservatorium School of Performing Arts with Peter Brideoake and Graeme Koehne, who she says are 'great inspirations'.

She received her commission from Symphony Australia as part of the 1999 New Voices Commission. The resulting 10-minute composition for full orchestra will be performed by the Adelaide Symphony Orchestra on 29 October and added to the Symphony Australia's bank of Australian works.

While 'XPT' is Ms Williams' first commission she has composed many works, including three film scores. Her compositions have been performed in the Elder Hall and the Space Theatre, recorded by the Australian Chamber



Natalie Williams. Photo courtesy of the Helpmann Academy.

Orchestra and featured in the Sydney Festival.

Her latest film score is for a children's film soon to be shown on SBS Television. A viola player, she is also a performer with the Adelaide and Elder Baroque Ensembles and a private violin and theory teacher.

—Sheila Bryce
Helpmann Academy

Geriatrics expert sounds cautious note

THE DISTINGUISHED medical scientist Professor John Morley sounded a note of caution about hormone replacement therapy when he delivered the 1999 Howard Florey Lecture at Adelaide University recently.

Professor Morley, one of the world's leading gerontologists, is Dammert Professor of Gerontology and Director of the Division of Geriatric Medicine at St Louis University Medical School in St Louis, USA.

He has been responsible for fundamental contributions to research, teaching and patient care relating to the practice of geriatrics, and is actively involved in a variety of collaborative research projects with members of the Department of Medicine at the Royal Adelaide Hospital.

His visit to South Australia was sponsored by the Florey Research Fund of the University of Adelaide Medical Foundation.

In his lecture, entitled "The Hormonal

Fountain of Youth", Professor Morley said that in the modern age of enlightenment, the search was for agents that could regenerate ageing organs and allow the aged to remain functional.

He referred to the existence of a number of useful hormonal replacements that appeared to rejuvenate the elderly.

But he used the Greek myth of Icarus and Daedalus to illustrate the need for caution.

Professor Morley suggested that while modern medicine should reach for the sun to find cures for the ailments of ageing it should be cautious and not embrace new treatments before their efficacy had been proven.

He also believed that inadequate attention was being paid to the well-established principles of geriatrics and that geriatrics needed to take a more prominent role in the teaching of medical students.



Professor John Morley. Photo courtesy Florey Research Fund.

ACCOMMODATION

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

NORTH ADELAIDE: 1 of 2 fully renovated apartments/townhouses in heritage listed. 2 storey stone terrace home, lge rms, high ceilings, 2 br, Victorian bathroom, 2 balconies, heating/cooling. \$270 pw (neg). Ph Sarah Evans 8267 5333 or 8342 6840 (ah).

SEMAPHORE: 3 br house avail for sublet while owner overseas, Jan 25 - Dec 2000. Must be cat-friendly. Ph Julia

Erhart 8201 2249.

SURBITON, SURREY UK: Fully furn house avail for 1 year. 3 br, garage, garden, walking distance to station, 15 mins ride to Waterloo. Close to river and shops/amenities. Ph 0011 44 181 390 0121.

TRANMERE: Female required to share house with female students. 10 mins bus to city, close to shops, fully furn br. \$45 pw. Ph Nina 8294 0875.

WANTED: Professional with family urgently requires furn house sitting/rental accomm for 6 weeks from 1 Nov. References avail. Ph Duncan 0418 591 533.

ADELAIDEAN CLASSIFIED

FOR SALE

AIRFARE: Return fare to Melbourne for one male passenger. Ticket valid until 30 October but can be changed at Travel Agent. \$150. Ph Michelle 8303 7224.

COMPUTER: iMac G3 233 MHz 32/4G.24xCD, Int 56K Modem, keyboard & mouse, OS 8.6. Includes Apple Works, Faxstf, Kai's Photo-soap SE, MDK, etc. Ph 8394 2458 or email <macadelaide@hotmail.com>.

COMPUTER: UNIX Sun

Spark 10 workstation, complete with colour monitor and keyboard. \$100 ono. Ph Hilde 8303 3222 or email: <hcrook@ctin.adelaide.edu.au>.

HOUSEHOLD ITEMS: Single bed with mattress, wooden base; Architect's chair; SABCO carpet sweeper; SABCO carpet shampooer; 5 piece sofa set; Dining set; 2 TV chairs. Ph 8332 5208 or 8303 5084..

IOMEGA ZIP: 100 MB USB Drive. Best offer. Ph Malcolm 8394 2458 or email:

<macadelaide@hotmail.com>.

KAWASAKI: KR 250 motorcycle, black with powder coated wheels, rebuilt motor, new paint wk. THO 739. \$1,600. Ph 8395 5791.

MACINTOSH POWER-BOOK: 5300 CS/100 laptop, 500 MB HD, 16 MB RAM, 28.8 Kps modem card, manuals, software, carry case. \$1,200 ono. Ph Gerry 8303 5771 or email: <gerald.mullins@adelaide.edu.au>.

MACINTOSH OS: 8.5 CD. Best offer. Ph Malcolm 8394 2458 or email: <macadelaide@hotmail.com>.

MITSUBISHI MAGNA: 1990, white, station wagon, 5

speed, air cond, power steer, T-bar, radio/cassette, 6 mths reg, excellent cond. WIF 945. \$5,700 ono. Ph 8338 4152.

TRAILER SAILER: GEM 5.5, 1 season old, excellent cond, everything brand new. Set up for short-handed racing and cruising. Racing rig, lifelines, safety equipment, bunk cushions, wiring and navigational lights, Yamaha 5HP O/B, low profile trailer. \$16,000. Ph 8376 7327.

DEPARTMENTAL

MAC COMPUTERS: 1 x Centris 650; 1 x Quadra 605; 1 x LCIII. All parts included. Price range \$225-\$350. Ph Lynne 8303 5771.

Bulletin Board

OCTOBER 18, 1999

THE UNIVERSITY OF ADELAIDE

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MONDAY 18 OCTOBER

12noon Plant Science Seminar: Towards cloning barley Yd2, a naturally occurring plant virus resistance gene by Brendon King; Cell membrane integrity of Faba bean at high temperatures: Relevance for genotypic evaluation by Shambhu Bhat (PhD students). PS Seminar Room, Waite.

1.00pm Microbiology & Immunology Seminar: The adaptable T cell: mechanisms guiding the development of effector T cells by Professor Anne Kelso (Queensland Institute of Medical Research). Departmental Library, 5th Floor, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: Advantageous pharmacokinetic reactions with immunosuppressive drugs - clinical studies in transplant recipients by Terry Jones (PhD student). Seminar Room, 6th Floor, Medical School, North Wing.

1.00pm ACUE Research Training Seminar: Virtual Learning Environments: The impact of technology use on a student's learning experience by Matt Thomas (Final PhD seminar). IBP Teaching Room, 1st Floor, 230 North Tce.

1.00pm Adelaide Uni Skindiving Club: Shipwrecks along the SA coastline and what we should do if we see or find historic artefacts by Terry Arnott (Heritage SA). WP Rogers Room, Level 5, Union Building. Refreshments provided.

1.10pm Law Seminar Series: Tales of intention: storytelling, intention and the rhetoric of judgement by Professor Sandra Berns (Griffith University). Room 216, Ligertwood Building.

1.10pm Geographical & Environmental Studies Seminar: Relative Holocene sea level change: regional variations in Australia by A/Prof Nick Harvey (Geographical & Environ Studies). Room 104, Environmental Studies Bldg.

1.10pm History Seminar: Dieppe and its place in the history of amphibious warfare by Tom Hamilton (History). Common Room 420, 4th Floor, Napier.

4.00pm Soil & Water Seminar: Mapping Vegetation with Hyperspectral Imagery by Seigfried Kempinger (DSTO). Room 301, Prescott Building, Waite.

7.00pm Friends of the Museum of Classical Archaeology Public Lecture: Pamphylia in Antiquity: Greek cities in Asia Minor by Dr Anne Geddes (Classics). Edgeloe Room, Mitchell Bldg (entry - Hughes doors next to waterfall).

TUESDAY 19 OCTOBER

12noon Child Health Research Institute Seminar: Inflammation - Knee Prostheses by Dr David Haynes (Pathology). Seminar Room, 7th Floor, Rieger, WCH. Refreshments provided.

1.10pm Student Workshop: Effortless Exams by Sue Barnard. Discussion Rm 1, Charles Hawker Centre, Waite. Bookings essential 8303 5663.

3.15pm Anthropology Seminar: A Shared History: Media Performances of the South African Truth and Reconciliation Commission by Dr Charmaine McEachern (Anthropology). Room 722, 7th Floor, Napier Building.

WEDNESDAY 20 OCTOBER

1.10pm Geology and Geophysics Seminar: Recognising the Base of the

COMING EVENTS

October 18th — October 29th

Cooper Basin: Attributes and Hydrocarbon Potential by Dr David Gravestock (Principal Geologist, Petroleum Group PIRSA). Mawson Lecture Theatre, Mawson Laboratories.

1.10pm Genetics PhD Update: David Wheeler and Sarah Harmer. Seminar Room, Ground Floor, Fisher.

1.10pm Student Workshop: Effortless Exams by Sue Barnard. Counselling Centre, Ground Floor, Horace Lamb Building.

1.30pm European Studies Seminar: Richard Lepsius and the Development of a Standard Alphabet by Heidi Kneebone. Room 723, Hughes.

4.00pm Physiology Seminar: Epithelial and extraepithelial effects of aldosterone: new life for an old hormone by Prof J Funder (Baker Medical Research Institute, Melbourne). Room N416-417, Medical School North. Refreshments provided. Sponsored by Faulding Ltd.

4.10pm Environmental Biology Seminar: Studies on the systematics of the cestode parasites infecting the emu, *Dromaius novaehollandiae* (Latham 1790) by Michael O'Calaghan. Seminar Room 416, Fisher Building.

5.00pm Public Lecture: The Beauty Therapist, The Mechanic, The Geoscientist and The Librarian: Addressing Undervaluation of Women's Work by Associate Professor Rosemary Hunter (University of Melbourne, seconded to Justice Research Centre). Brookman Hall, UniSA, City East Campus. RSVP for catering purposes: 8302 1758, email <heather.samuel@unisa.edu.au>.

7.30pm Australian Institute of Physics Public Lecture: Champagne Supernova in the Sky by Dr Bryan Gaensler (Young Australian of the Year). Union Hall.

THURSDAY 21 OCTOBER

12.05pm Psychology Seminar: The effects of punctuation on reading comprehension by Ben Grindlay (Postgraduate structured program). Room 527, Hughes Building.

7.30pm Geological Society of Australia Public Lecture: Noah's Flood: The Geological Evidence by Dr Walter C Pitman (Lamont-Doherty Earth Observatory, New York). Union Hall. Unreserved seating, tickets at the door. Enquiries Vic Gostin 8303 4039 or email <victor.gostin@adelaide.edu.au>.

FRIDAY 22 OCTOBER

1.00pm Asian Studies Seminar: Western Influences and Chinese Hospitals: 1900-1930 by Michelle Renshaw (Doctoral candidate). Room 518, Ligertwood.

1.10pm Elder Conservatorium Lunch Hour Concert: Warwick Adeney - violin, Janis Laurs - cello, Lucinda Collins - piano. Dumky Trio by Dvorak. Admission \$2 at the door. Elder Hall.

2.00pm Social Inquiry Seminar: Where are we now with the gender pay gap: evidence from 1995 AWIRS by Michael Alexander (Griffith University) and Barbara Pocock (Social Inquiry). Seminar Room, 3rd Flr, 10 Pulteney St.

4.00pm Economics Seminar: Title to be advised, by Dr Mardi Dungey (La Trobe University). Eric Russell Room LG14, Napier Building.

MONDAY 25 OCTOBER

12noon Plant Science Seminar: (1→3)-β-Glucan synthase of *Lolium multiflorum* by Andrew Jacobs; Strategies to reduce hydrogen sulfide production by wine yeast by Catherine Sutherland (PhD students). PS Seminar Room, Waite Campus.

1.00pm Microbiology & Immunology Seminar: Secretions from a tissue-dwelling nematode and their potential roles in immune evasion by Dr Alex Loukas (Queensland Institute of Medical Research, Brisbane). Departmental Library, 5th Floor, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: DNA chip technology: a tool for the next millennium by Dr Simon Koblar (NHMRC Peter Doherty Research Fellow). Seminar Room, 6th Floor, Medical School North.

1.10pm Law Seminar Series: Public intention by Professor Michael Detmold. Room 216, Ligertwood Bldg.

1.10pm Geographical & Environmental Studies Seminar: Towards fairer shares of housing for all Australians by Associate Professor Blair Badcock. Room 104, Environmental Studies Building.

1.10pm History Staff/Postgraduate Seminar: Lot's Daughters: Sober women in drunk places by Andrea Cast (History). Common Room 420, 4th Floor, Napier Building.

4.00pm Applied & Molecular Ecology Seminar: Overview of the European wasp project by Dennis Hopkins (Senior Research Officer, SARDI Entomology Unit). Charles Hakwer Conference Centre, Waite.

4.00pm Soil & Water Seminar: Title to be advised, by Kelly Dunbar (Soil & Water). Room 301, Prescott Building, Waite Campus.

8.00pm Classical Association of South Australia Meeting: Helmets and Head Protection in Antiquity and the Early Middle Ages by Dr Donald Simpson (President, Neurosurgical Research Foundation). Room 723, Hughes Bldg.

TUESDAY 16 MARCH

3.15pm Anthropology Seminar: Castles Falling, Dunghills: Ethnography, Testimony and Narrative. Reflections on Fieldwork in Ireland by Dr Chris Eipper (Anthropology & Sociology, La Trobe University). Room 722, 7th Floor, Napier Building.

6.30pm Australian Institute of International Affairs Seminar: Material and Moral Cautions for Population Policy by Dr N Hicks (Public Health). Union Cinema, Level 5, Union House.

WEDNESDAY 27 OCTOBER

10.10am Electrical & Electronic Engineering Seminar: Power

Reduction using Supply Voltage Scaling by Lama Chandrasena (Postgraduate). Lecture Room S112, Engineering South.

1.10pm Geology & Geophysics Seminar: Geochemical Evolution of Lithospheric Mantle Beneath South-eastern South Australia by Dr John Foden (Geology & Geophysics). Mawson Lecture Theatre, Mawson Laboratories.

1.10pm Genetics Seminar: A genetic screen for interactors of *pebble*, a gene required for cytokinesis in *Drosophila* by Louise O'Keefe. Seminar Room, Ground Floor, Fisher Building.

1.30pm European Studies Seminar: Language and Landscape in the North West of South Australia by Paul Monaghan. Room 723, Hughes Building.

4.00pm Physiology Seminar: Sleep and circadian influences on cardiac autonomic activity by Dr Helen Burgess (Centre for Sleep Research, QEHL). Seminar Room N416-417, Medical School North. Refreshments served afterwards. Sponsored by Faulding Ltd.

4.10pm Environmental Biology Seminar: The denning habits of yellow bellied gliders by Sue Carthew (Applied & Molecular Ecology). Seminar Room 416, Fisher Building.

THURSDAY 28 OCTOBER

12.05pm Psychology Seminar: Transformational approaches to mental representations by Daniel Navarro (Postgraduate structured program). Room 527, Hughes Building.

1.10pm Physics & Mathematical Physics Seminar: Quintessential Cosmologies by Dr David Wiltshire (Physics & Maths Physics). Macbeth Lecture Theatre, Ground Floor, Badger Building.

FRIDAY 29 OCTOBER

9.00am Architecture: 1999 Annual Postgraduate Research Colloquium: Formal presentations of research proposals. Common Room, Level 4, Architecture Building. Close 4.30pm. Enquiries: Peter Sriver 8303 4586.

10.00am Social Inquiry Seminar: Language of Change: Restructure of the Australian Public Service and the impact on female clerical workers by Fay Holthouse (PG, Labour Studies). Seminar Room, 3rd Floor, 10 Pulteney St.

11.30am Social Inquiry Seminar: Margaret Tucker's "If Everyone cared" by Jenny Jones (PG, Women's Studies). Seminar Room, 3rd Floor, 10 Pulteney Street.

1.00pm Asian Studies Seminar: Emerging Actors in Japanese foreign policy: NGOs and local government by Professor Purnendra Jain (Asian Studies). Room 518, Ligertwood Building.

1.10pm Elder Conservatorium Lunch Hour Concert: Susan Drake - harp. Works by Parry, Thomas, Mathias and Debussy. Tickets \$2 at the door. Elder Hall.

4.00pm Economics Seminar: Title to be advised, by Professor Max Corden (SAIS, Johns Hopkins University, USA). Eric Russell Room LG14, Napier Building.

4.00pm Obstetrics & Gynaecology Seminar: N of 1 trials by Dr Brian Smith (Medicine, TQEH). Seminar Room, 6th Floor, Medical School North.

SITUATIONS VACANT

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

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

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

LECTURER LEVEL A (Ref: 1282) (Tenurable)

Department of Politics
Salary: \$33,905 - \$46,013*

*A minimum of \$42,864 per annum is payable to the holder of a PhD.

The position is available from 1 March 2000. Further information including the selection criteria may be obtained from Professor Doug McEachern, Head, Department of Politics, telephone: 8303 5610, fax: 8303 3446 or email doug.mceachern@adelaide.edu.au

Applications close 29 October 1999.

GEORGINA DOWLING MEDICAL RESEARCH ASSOCIATESHIP KEITH SHERIDAN MEDICAL RESEARCH ASSOCIATESHIP (Ref: 1772/7169)

Salary: \$33,905 - \$46,013*

*A minimum of \$42,864 per annum is payable to the holder of a Ph.D.

The period of appointment shall be two years from date of commencement. Further information may be obtained from Stella Richards, telephone: 8303 5274 or email stella.richards@adelaide.edu.au

Applications close 12 November 1999.

EMPLOYMENT INFORMATION

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.

The University notifies applicants that the following vacancies for Higher Education Officers (HEO) with the reference numbers as stated have been filled and thanks them for their interest: 4783 HEO8, Faculty of Humanities and Social Sciences; 3064 HEO3, Faculty of Humanities and Social Sciences.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 1 November 1999, advertising paper work must be received in Human Resources by 15 October 1999.

For the *Adelaidean* of 15 November 1999, advertising paper work must be received in Human Resources by 29 October 1999.

Dental treatment for staff and students

Emergency and routine treatment is available at the University's Colgate Australian Clinical Dental Research Centre. Concessions are available for holders of University Cards. Set fee first appointments. For appointments ring - 8303 3436. Address: 2nd Floor, Adelaide Dental Hospital, Frome Road, Adelaide 5000 (next to Medical School).

Counselling Centre

WORKSHOPS

Improving Sleep; Developing a Lifestyle That Reduces Stress and Worry; Learn Deep Relaxation; The Perfect Procrastinator; Overcoming Shyness; Effortless Exams.

Lunchtimes - free. Booking on 8303 5663 or call in.

DAILY DROP IN SERVICE

1.00pm - 2.30pm. Brief consultations only. No appointment required.

Ground Floor, Horace Lamb Building

GENERAL NOTICES

Year 2000 Countdown

With less than 10 weeks left until the transition to the next century, the deadline to the Year 2000 is quickly approaching. Around the university major changes are taking place to make the University ready for the new Millennium.

Some of the tasks that are being performed across the university to achieve Year 2000 Compliance include: Technical staff upgrading critical hardware and software, contingency plans being developed in the case of failure of any utilities or other equipment, MIS systems being tested for Year 2000, desktop operating systems and software being upgraded to Y2K compliant versions and key staff being asked to be on call over the Christmas break.

For an update on the Year 2000 Project, the Year 2000 Project Office has prepared a newsletter entitled "Millennium Bug Bytes". This newsletter has been sent to all staff. If you do not receive a copy or would like more information contact the Year 2000 Project Office, email <y2k@adelaide.edu.au> or ext 36109.

Call for applications for promotion to Level B or C

Staff wishing to apply for promotion to Lecturer Level B or Senior Lecturer Level C (and equivalent) are now invited to submit their applications.

Staff should refer to the Policy and Procedures, appropriate Position Classification Standards and any relevant Discipline Dependent Academic Criteria that exist (available from departmental offices) when preparing their applications.

Applications should be made on the approved application form.

Completed applications (fourteen copies) must be submitted to the General Manager, Human Resources, by 26 November 1999.

Absolutely no supplementary information will be accepted from applicants after the closing date for applications, unless requested by the University.

Please note that it is anticipated that referee reports will be sought in early December. Applicants are responsible for providing up to date contact details for their referees.

The Policy and Procedures and the Application Form are available on the Web at <<http://www.adelaide.edu.au/HR/new/prombc.htm>>

It is anticipated that applications for promotion to Associate Professor Level D and Professor Level E will be called in mid November and mid December respectively. All promotions will be effective from 1 January 2000.

GENERAL MANAGER
Human Resources

GST implementation

The Division of Finance and Infrastructure is preparing for the implementation of the GST on 1 July, 2000 - a change to the tax system which has implications for a range of University activities.

To help the University prepare, the Division is preparing a range of GST guides and a Web site which should be available soon.

The Division has employed Martin Kusabs, a chartered accountant with experience in the implementation of the GST in New Zealand.

Mr Kusabs can provide advice on GST issues, email: <martin.kusabs@adelaide.edu.au> or extension 35872.

The first GST guide will include basic information about the GST, which activities are covered by the tax, and issues relating to the transition to the GST.

Mr Kusabs said that the most important GST issue at the moment was its affect on contracts, all of which now have to include a GST clause.

Bank Account for Salary Payments

The University is in the process of implementing a new Human Resource/Payroll System which will become effective later this year.

Direct credit of net salaries into bank accounts has been available for over 10 years and is a more efficient and secure method of payment than issuing cheques. Salary deposits can be accessed prior to 9am on the pay day, whereby financial institutions require a three day clearance on cheques. Provided correct bank/building society/credit union account details are supplied to the Payroll Office the salary payments cannot be lost or deposited incorrectly.

In order to facilitate effective change over to the new system, the University has adopted a new policy that all employees will require an account with a Bank/Credit Union/Building Society for direct credits of salary.

Departmental Managers and Finance Officers are asked to ensure that new staff (especially casual staff) complete a BANK CREDIT AUTHORITY form, available on the Web at: <<http://www.adelaide.edu.au/HR/forms.htm>>, when they commence duty to ensure that there are no delays in salary payments to staff in their area.

Should you have any queries contact Doris Riffel phone 8303 6378) or Karen Jenkins (8303 6256), Project Endeavour Office.

STEVE DAYSH
General Manager,
Human Resources

DAVID CARVER
Financial Controller

Missed the deadline?

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

Departmental Learning & Teaching Award 1999

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

Applications are invited for the 1999 University of Adelaide Departmental Learning and Teaching Award.

The Departmental Learning and Teaching Award rewards excellence in learning and teaching at a departmental level. A total of \$50,000 is available to be awarded for up to three awards and is to be used by the successful department(s) and/or centres to support continued development of their learning and teaching activities.

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

The Award is open to all teaching departments and will be judged on the submission of a departmental teaching portfolio.

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

Applications are now sought for the 1999 University of Adelaide Departmental Learning and Teaching Award. Guidelines and nomination forms can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, telephone: 35511, fax: 35150, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's web-site: <http://www.adelaide.edu.au/DV C/quality/departmental_l&t_award.html>.

Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by Friday 10 December 1999.

WHAT'S ON AT

Urrbrae House Historic Precinct, Waite Campus

GUIDED TOURS:

1st Sunday of every month.
Waite Arboretum: 11am, \$2.
Urrbrae House Historic Precinct: 2pm, cost \$4.

4 October (Labour Day):
Urrbrae House will be open all day with exhibitions in every room plus afternoon teas in the Dining Room.

LearnIT Symposium

Future directions for learning with technology at the University of Adelaide. Friday 12 November 1999, 9.00am - 4.00pm, Horace Lamb Lecture Theatre, Ground Floor, Horace Lamb Building.

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

DRAFT PROGRAM

- 9.00 Welcome
- 9.10 IT and learning at the University of Adelaide (Professor Penny Boumelha, DVCE)
- 9.30 Adelaide University Online - Envisioning a future (Adelaide Online Team)
- 10.00 Concurrent presentations of 40 minutes
- 10.45 Morning tea
- 11.00 Concurrent presentations of 40 minutes
- 11.45 Concurrent presentations of 40 minutes
- 12.30 Lunch
- 1.30 School students become University students: What universities might expect in five years (Kevin Richardson, Director Strategic Development, Department of Education, Training and Employment)
- 2.15 Concurrent presentations of 40 minutes
- 3.00 Concurrent presentations of 40 minutes
- 3.45 Plenary sessions in light of the day's discussions and the University's Draft IT Plan
- 4.15 Close and afternoon tea

The final program, including abstracts of presentations, will be posted on Adelaide University Online <<http://online.adelaide.edu.au/learnIT>> by Monday 25 October 1999.

Register by phoning Lynne Bradshaw, ACUE, 8303 5771 or online at <<http://online.adelaide.edu.au/RSVP>>

CALL FOR PRESENTATIONS

You might like to consider making a 40 minute presentation (approximately 20 minutes presentation and 20 minutes discussion) on the use of IT in learning and teaching. Each presentation should address the following criteria:

- Demonstrate how the 'project' influenced student learning outcomes
- Provide results of evaluations and show how they were used in further development
- Indicate how the activity/effort can be 'mainstreamed' or used in other disciplines
- Provide a 'look to the future' rather than 'reflect on the past'

Abstracts of approximately 100 words should be forwarded electronically to Ian Roberts <ian.roberts@adelaide.edu.au>.

We are considering publishing the collated papers (provision of papers by presenters being optional). Presenters will receive more information regarding this after registration.

Further information is available from Margaret Kiley, ACUE, 8303 3130 or Danielle Hopkins, Adelaide University Online, 8303 3937.

The Stephen Cole the Elder Prize for Excellence in Teaching 1999

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

Nominations are now sought for The Stephen Cole the Elder Prizes for Excellence in Teaching for 1999. Guidelines and nomination forms can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, tel: 35511, fax: 35150, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's web-site: <http://www.adelaide.edu.au/DVC/quality/stephen_cole_prize.html>.

Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by Monday 29 November 1999.

Coloured campus maps

Campus maps are due for their annual update.

Please check your department's listing on the relevant North Terrace, Waite, Roseworthy or Thebarton Campus maps.

Provide a photocopy of the appropriate portion of the map and index, clearly highlighting the proposed corrections and alterations.

Please forward this information to Brenton Kalz, Property Services Branch.

The deadline for correction submissions is Friday 12 November

SCIENCEDIT

Melbourne-based editing service 'Sciencedit' would like to hear from scientists of all disciplines who might be interested in some occasional work editing English expression in research articles destined for publication. Ideally, you would have experience in the writing of research manuscripts, an attention to detail, and a little bit of spare time so that you can meet deadlines. This sort of work would be perfect for scientists in a retired or semi-retired mode who would like to maintain an ongoing presence in science and earn some extra income. If you would like further information, please contact Dr Michael Patterson at <editor@sciencedit.com>.

Student Evaluation of Teaching

The Advisory Centre for University Education (ACUE) provides a service to all University teaching staff who wish to evaluate their teaching. This service is known as Student Evaluation of Teaching (SET). Staffing wishing to use SET for the first time should contact the Evaluation Service Office, ext 33496/ 33023, for a copy of the package. The SET package contains a User Manual, appropriate evaluation request forms, and some information concerning applications for promotion and tenure. The service is free of charge and is available to all teaching staff of the University.

Due to high demand for SET questionnaires, and to the fact that the Evaluation Service is currently staffed by one full-time person only, please send your evaluation request forms to the ACUE **at least four weeks prior to the planned date of your evaluation.** It is ACUE policy that all requests are placed in a queue determined strictly by date of receipt. Requests which do not allow sufficient lead time may not be processed. We recognise that occasionally there will be circumstances where a staff member will need to request an evaluation service but cannot give the required minimum notice. In these cases a service will be provided within 5 working days and a priority fee of \$75 charged.

Conference on Postgraduate Research on the Environment

On Wednesday 20 October there will be the first conference specifically for postgraduates undertaking research into the environment. The conference is aimed at postgraduates from around the university and is designed to give them the opportunity to meet, share ideas and discuss their work. It is planned that this will become an annual event.

Papers have been received from the Mawson Graduate Centre for Environmental Studies, the Departments of Applied Maths, Environmental Biology, Soil and Water, Civil & Environmental Engineering, Geographical and Environmental Studies, and the Law School.

The conference venue is the Little Theatre in the Union Buildings and registration is \$25 (or \$30 on the day). Registrations should be sent to Dr Walker, Department of Civil & Environmental Engineering with cheques made payable to "The Department of Civil & Environmental Engineering". Alternatively postgraduates who can convince their supervisors to support them can arrange an internal transfer to Account Number 219 2003 1 6672. People registering should include their name, department, email address and other contact details with the fee. Registration includes lunch, afternoon tea and a copy of the proceedings. Registration, and the collection of name badges and proceedings, is between 9:00am and 9:30am at the Little Theatre and the conference will get underway at 9:45am. A detailed program will be available on the day.

Any inquiries should be directed to Dr Walker, ext 34319 or email: <david.walker@adelaide.edu.au>.

Depression Research Study

We are seeking people aged between 20 and 50 who are currently suffering from depression to participate in a study of depressive illness. The study involves the measurement of changes in brain activity which can occur in depression. Further information available from Dr Geoff Schrader, Department of Psychiatry, QEHL, 82226909.

Social Phobia Research Study

The Department of Psychiatry of the Queen Elizabeth Hospital is conducting a study of variations in blood flow patterns in regions of the brain associated with the experienced of chronic shyness. We are seeking healthy males, aged between 32 and 44 years, to provide information on normal patterns of blood flow. Volunteers will be asked to undergo a brief interview with Dr Nick Potts, Lecturer in the Department of Psychiatry based at the Queen Elizabeth Hospital at Woodville. You will then be contacted to arrange available times for a SPECT brain scan conducted in the Department of Nuclear Medicine at the Queen Elizabeth Hospital and for an MRI brain scan at St Andrews Hospital in the city.

This study is approved by the Ethics of Human Research Committee. Details: Philip Swanson, Honours Psychology Student, tel 8339 3741.

RESEARCH BRANCH UPDATE

COOPERATIVE RESEARCH CENTRES - 2000 SELECTION ROUND

The Minister for Industry, Science and Resources (Senator the Hon Nick Minchin) has announced that the next CRC selection round will be held next year. The formal call for applications is expected in November 1999 with a probable closing date of 5 July 2000. Potential applicants should begin developing their strategic relationships as soon as possible as it is likely that official Notifications of Intent will be due in Canberra by mid-December 1999.

The Research Branch will arrange an Information Session for intending applicants for early February 2000. Watch this space for further details or contact the Research Branch, ext 35137 or check out the What's New-Main Events page on the Research Branch web site.

NHMRC MEDICAL AND PUBLIC HEALTH RESEARCH PROGRAM GRANTS

First Stage Application for Program Grant Support in 2001

Program Grants are designed to support a group of high quality investigators representing a large collaborative effort focussed on common goals, over a five year period. Programs usually combine four or more NHMRC Project Grants.

The format for 1st Stage Program Grant applications is available on the NHMRC website (www.nhmrc.health.gov.au) under "What's New". Researchers should refer to the Flyer within this site to ensure that they meet the eligibility criteria.

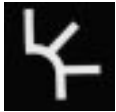
Internal closing date: 23 November 1999.

Research Branch Web Site:
<<http://www.adelaide.edu.au/RB>>

Lecture

The Beauty Therapist, The Mechanic, The Geoscientist and The Librarian
Speaker: Associate Professor Rosemary Hunter (University of Melbourne). 5.00pm - 7.00pm, 20 October 1999, University of SA Brookman Hall, City East Campus. Light refreshments after presentation.

RSVP for catering purposes to: EO Unit, UniSA, tel 8302 1758, fax 8302 1500.



Luminis Pty Ltd is the Commercial Company for the University of Adelaide

LUMINIS SNAPSHOTS

Issues involved in commercialising intellectual capital

For many organisations, the management and exploitation of their knowledge is rapidly becoming more important than their use of plant and equipment. In their first article (*Adelaidean*, 12 July 1999), Brett Cowell and Megan Low from the commercial law firm of Cowell Clarke, summarised the key types of intellectual capital. In this article, they discuss some of the issues involved in exploiting intellectual capital. Luminis Pty Ltd wishes to thank them for their contribution.

Introduction

Intellectual capital is a term used to describe traditional intellectual property rights such as patents, trademarks, designs, copyright, plant breeder's rights and circuit layouts plus an organisation's confidential information, trade secrets and know-how. An organisation can dramatically increase the worth of its intellectual capital by identifying, protecting, systematising and effectively exploiting its intellectual capital.

Organisations which overlook or underestimate their intellectual capital portfolio, run the risk of losing valuable rights including potential revenue through licensing and other commercialisation processes.

Commercialisation enables an organisation to capitalise on its investment in research and innovation. Methods of commercialisation include licensing, assignment, franchising and other agreements.

Licensing

A licence agreement dealing with

intellectual capital allows the licensee to use the owner's (the licensor's) intellectual capital in a way that would otherwise infringe the licensor's rights. In exchange, the licensee pays the licensor a fee, known as a licence fee or royalty.

A licence fee tends to be an up front or "sign-on" payment. A royalty is usually an ongoing payment calculated by reference to the number of times the licensee uses the intellectual capital. For example, every time the licensee sells a device incorporating the licensor's intellectual capital, so many cents in the dollar of the sale price would be payable to the licensor. A licence agreement may include a combination of an up front payment and royalties.

The licence may be for some or all of the rights attached to the intellectual capital. For example, the licensor may licence all of the rights associated with a patent. Or the licence may be limited so that, for example, the licensee can use the patent only in manufacturing one out of a number of possible products. Or the licence may be limited to a particular geographical area or for a set period of time.

A licence can be made orally or implied from the conduct of the parties. Preferably however, a licence agreement ought to be in writing. A licence relating to a sealed patent or registered trademark can be notified to the Commissioner of Patents or the Registrar of Trademarks respectively and this will give added protection to a licensee in dealings involving third parties.

The licensor will retain ownership of the intellectual capital. The licence agreement

should confirm the licensor's right to take action in case of a breach by the licensee of the agreement or infringement of the intellectual capital rights by a third party.

Assignment

Assignment can also be utilised to exploit intellectual capital. The owner (the assignor) assigns, or in other words, transfers the ownership of the intellectual capital to another (the assignee) for a fee or other benefit. As the owner of the intellectual capital, the assignee can deal with that intellectual capital, for example by granting licences to third parties. The assignee can also take action against an infringer of his/her rights.

The assignment should be in writing or the assignee may have difficulty proving ownership of the assigned intellectual capital. In the case of registered rights such as patents and trademarks, notification of the assignment should be given to the Registrar or the assignee may encounter difficulties enforcing his/her rights against third parties.

Franchising

Exploitation of intellectual capital can also be achieved by other contractual arrangements. Franchise agreements are one example.

A person or organisation having a product, business system or manufacturing process (the franchisor) may enter into an agreement with a franchisee, whereby the franchisee is allowed to use the product, business system or manufacturing process, in return for initial and ongoing fees, often

calculated by reference to the franchisee's volume of business. Generally, the agreement will require that the franchisee not depart from the franchisor's method or appearance of operation.

The advantage for a franchisee of a good franchise system is that he/she is able to commence and conduct a business or manner of production that has a proven and successful track record, thus eliminating many of the dangers associated with an unproven start-up operation.

The franchisee's rights associated with each franchise vary, but typically may include the right to use the franchisor's trademarks, business and company names, business systems and appearance, confidential information, know-how, patents and copyright.

The Franchising Code of Conduct was introduced in 1998 to regulate many aspects relating to the franchising industry. Before entering into a franchise, whether as a franchisor or a franchisee, it is essential that both parties are aware of and comply with the requirements of the Code of Conduct. The Code has a very wide definition of arrangements which constitute a franchise. Many licence, manufacturing or distribution arrangements, previously not thought to be franchises, could now be governed by the Code. The best advice is – Get legal advice early.

The next article on this topic will examine a case study on the commercialisation of a new invention in the medical industry.

Enquiries to Paul Szuster or Andrew Cecil, Business Development Managers, Luminis Pty Ltd, 8303 5020.

RESEARCH AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of schemes currently available for application. A more detailed electronic version of this listing (Update: Research), with guidelines and applications for some of the major schemes, is available at: <http://www.adelaide.edu.au/RB/>. For hard copy applications and guide-lines for schemes listed, contact the Research Branch, ext 35137; or email renae.minerds@adelaide.edu.au.

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

Brain Foundation NSW - 1999 Parkinson's Research Grants: Internal closing date: 22 October 1999.

CSIRO Division of Human Nutrition / University of Adelaide - Collaborative Grants Program 2000: Extended closing date: 22 October 1999

Dairy Research & Development Corporation - General Training and Development: Internal closing dates: 22 October 1999 & 20 March 2000

Grains Research and Development Corporation (GRDC) - Training Awards: Internal closing date: 22 October 1999. Web site: <http://www.grdc.com.au>

Ian Potter Foundation - The Sunderland Award: Internal closing date: 22 October 1999

National Institute of Environmental Health Sciences, USA / National Institute of Neurological Disorders and Stroke, USA - Research Grants 'The Role of

Environment in Parkinson's Disease': Letter of Intent: 22 October 1999. Full Application: 20 December 1999. Web site: <http://www.grants.nih.gov/grants/guide/rfa-files/RFA-ES-00-002.html>.

The Royal Society of Victoria - Medal for Scientific Research 1999: Internal closing date: 22 October 1999

Women's and Children's Hospital - MS McLeod Research Fund Travelling Fellowship: Internal closing date: 22 October 1999

BHP - Community Trust and Community Support Programs: Internal closing date: 25 October 1999. Web site: <http://www.bhp.com.au/>.

Sir Mark Mitchell Research Foundation - Research Projects 2000: Internal closing date: 25 October 1999.

Aust Academy of Science - Scientific Visits to USA, Canada & Mexico 2000-2001: Internal closing date: 25 October 1999. Web site: <http://www.science.org.au/internat/exchange/usavis.htm>.

Gastroenterological Society of Australia - Grants-in-Aid for Overseas Study / Travel Awards: Internal closing date: 29 October 1999

Rolex Awards for Enterprise - 2000 Rolex Awards: Applications close with Rolex on 31 October 1999.

Scholarships

Unless otherwise stated, information and applications are available from the Student Centre, Level 4, Wills Building, call ext 35208/3044/35697/35271. Lodge all applications with the Student Centre unless otherwise stated.

Australian Bicentennial Scholarships and Fellowship Scheme: Tenable in Britain for 3-12 months, in any discipline which it can be demonstrated that such a visit offers special scholarly or practical advantages. Closing: 29 October (UK)

Australian Biological Resources Study - Postgraduate Research Scholarship: Offered to fund taxonomic research. Closing: 25 October (Student Centre)

Australian Postgraduate Awards/University of Adelaide Scholarships 2000: Open to Australian citizens or permanent residents of Australia for these scholarships tenable at the University of Adelaide in 2000, leading to a PhD or Masters by research. Closing: 31 October (Student Centre)

Commonwealth Scholarship & Fellowship Plan - UK Awards 2000: Open to Australian students wishing to undertake postgraduate study in the UK commencing in the 2000 academic year. Closing: 22 October (Student Centre)

Dairy R&D Corp Postgraduate Scholarships 2000: Applications available for Postgraduate Awards for research degrees leading to a PhD in a wide range of disciplines, including dairy manufacturing, farm research, industry analysis and agricultural extension. Closing: 25 October (Student Centre)

Diana Medlin Scholarship: Offers financial support for up to one year of full-time study for a student re-entering tertiary education at honours (or equivalent) level after a break of three or more years since completion of undergraduate qualification, and who intends to proceed to a research degree. Closing: 31 October (Student Centre)

DR Stranks Travelling Fellowship: Support for travel & other research costs to enable Adelaide Uni postgraduates to pursue aspects of

their research outside SA. Closing: 22 October (Student Centre)

George Murray Scholarship: For Adelaide Uni graduates to undertake further post-graduate study or postdoctoral research in approved universities or institutions. Post-doctoral candidates must hold a PhD awarded by Adelaide Uni or expect to submit a thesis for PhD by 31 October 1999. Closing: 31 October (Student Centre)

Gowrie Research Scholarships: Tenable for two years initially. Special consideration shown to lineal descendants of a member of the Forces who was killed on active service or who died as a result of any occurrence which happened during enlistment. Closing: 31 October (Student Centre)

Grains Research & Development Corp: Open for Undergraduate Honours Scholarships and Research Industry Scholarships for 2000. Applications on request or: <http://www.grdc.com.au/grdc/info-paper/index.html>. Closing: 22 October (Student Centre)

Land & Water Resources R & DC Postgraduate Research Scholarships 2000: Value: \$23,000pa to support postgraduate research in areas of natural resource management; and legal research. Closing: 22 October (Student Centre)

Vintage Cellars Retail Management Scholarship: Open to enrolled full-time honours students majoring in wine marketing, to encourage further studies and research in liquor retail management. Closing: 31 October (Student Centre)

Water Recycling Supplementary Scholarship: Tenable in the Department of Soil and Water. Details: Graham Merrington, tel: 8303 7232, fax: 8303 6511, email: graham.merrington@adelaide.edu.au. Closing: 31 October (Student Centre).