

\$4m genetics research centre for SA

THE UNIVERSITY OF ADELAIDE has won a \$4 million grant for a new research centre to explore the frontiers of biological research and open the way for new genetic therapies and advances in agriculture.

The Special Research Centre for the Molecular Genetics of Development will not only bolster understanding of embryo development, it will also add substantially to the growing biotechnology industries in South Australia.

The research centre, funded by the Australian Research Council (ARC), will begin work next year, encompassing researchers from the University's Departments of Genetics and Biochemistry and leading to the employment of new researchers.

The centre is a coup for South Australia and has received the largest funding of any of the 11 new Special Research Centres announced last week. It is expected to be funded for nine years, with the \$4 million supporting the first three years of its work.

The University's Head of Genetics, Professor Robert Saint, said the centre's work would examine the way

genes govern the development of embryos, beginning at the most basic level of cells.

He said understanding development at this level had enormous implications for understanding and treating a variety of diseases including cancer.

"There are many potential benefits from this work," he said.

"It will enable us to understand how cells are regulated and give us the capacity to better regulate genes. We can clearly see the implications of this work with cancer, for example, where there is unregulated cell division."

He said South Australia's biotechnology industries would be boosted by the centre's work, which will offer more sophisticated genetic technologies to tackle problems ranging from stock improvement to human developmental disorders. Research aimed at generating specific tissue types for therapeutic use will also be an important part of the research to be carried out by the centre.

The centre will also attract the best researchers from interstate and overseas.

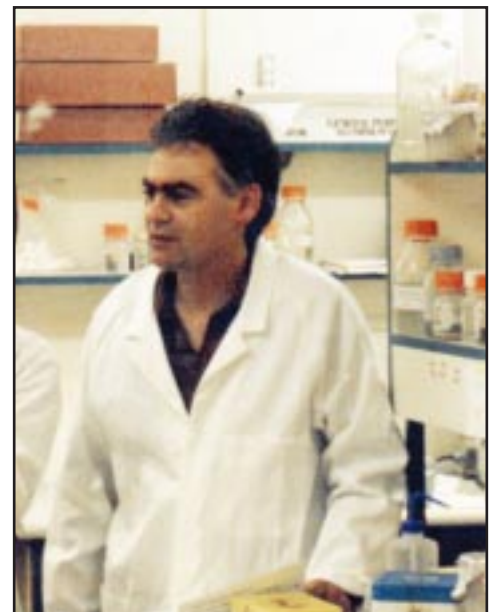
In another boost for genetic research at the University, Professor Saint has also been awarded a \$160,000 ARC Research Infrastructure, Equipment and Facilities Grant to purchase sophisticated new equipment to help map the response of genes to any change or event in the life of an organism.

The University won a total of \$1.9 million in grants to support five research infrastructure projects.

The University won 33 new ARC Large Grants, worth a total of \$5.4 million over the next three years. The University was also awarded 13 new grants worth a total of \$1.2 million over three years, under the ARC's scheme linking researchers with industry.

The Vice-Chancellor, Professor Mary O'Kane, said the University's performance in winning ARC grants had again shown it was one of the best research universities in Australia.

"The new special research centre is recognition of the University of Adelaide's fine work in genetics and biochemistry over many years," she said.



Head of the Department of Genetics, Professor Robert Saint. Photo: Brenton Edwards

"The centre will add substantially to South Australia's position as a growing centre for innovation in biotechnology."

—David Washington

Sex chemical discovery may have toad spin-off

AN ADELAIDE UNIVERSITY researcher has raised hopes of a breakthrough in the war against cane toads with his discovery of a frog sex chemical.

Paul Wabnitz, a PhD student in the Department of Chemistry, has generated international attention after discovering that the male magnificent tree frog excretes a chemical substance—a sex pheromone—to attract sexual partners.

His isolation of the chemical is the first confirmation that a sex pheromone exists in frogs.

If a similar substance can be found in cane toads, it could be used as a weapon to trap or confuse them or to disrupt their breeding cycle.

The findings are the result of a series of research projects being carried out jointly under the supervision of Associate Professor Mike Tyler, Department of Environmental Biology and Professor John Bowie, Department of Chemistry.

Mr Wabnitz, whose findings are published in the current issue of the

journal *Nature*, has now begun examining cane toad secretions.

"There's a possibility that cane toads also excrete a sex pheromone," he said.

"It took me three years to find the sex pheromone in the tree frog, mainly because I had to look at secretions over several breeding seasons."

Mr Wabnitz said his discovery of the tree frog sex pheromone was a by-product of his main PhD research exploring the medical implications of novel amphibian peptides. (Peptides are smaller versions of proteins.)

"At first glance it may seem funny to be using frogs in chemistry research," he said.

"The reason we do is because frog skin is one of the greatest and most diverse sources of biologically active compounds, including peptides.

"Most people don't realise that frogs are full of natural chemicals, with numerous peptides coming from their skin.

Continued on Page 5



A NUMBER of Adelaide's top jazz and world musicians, headed by saxophonist Jeff Alkire, who is fresh from the Ray Charles Orchestra, have banded together to produce a fundraising concert to aid the people of East Timor on Sunday 14 November. Story Page 8.

Bruce Hancock - piano, Eric Applegate - bass, Connaitre Miller - vocals and Jeff Alkire - saxophone. Photograph: Mick Bradley.

COMMENTARY

LONG LIVE THE REPUBLIC!

I am a republican for a number of reasons. First, I think that having a *foreign* Head of State is *demeaning*. What does it say of this country if we lack the faith in ourselves that we cannot find one among us to be our Head of State? It says that we are unable to overcome the last vestiges of our colonial past. *Second*, I am a republican because I object to *monarchy*. Monarchs everywhere are relics of the Divine Right of Kings. An *hereditary* Head of State is an objectionable and undemocratic way to honour and entrust one among us with the task of being our representative First Citizen. It gives up the right to *choose* our First Citizen, preferring instead to trust the chance idiocy of a blood-line; and *for life* indeed! Monarchists strike me as people who psychologically cling to the forlorn hope that one day the King and Queen will descend from the clouds and elevate them to the ruling nobility that the English monarchy stands for. *Third*, I am a republican because I don't much care for *this* monarchy. Make no mistake, voting "no", for *whatever* motives one might have, is a vote for *these* people. I do not see that *any* of them is a particularly distinguished or intelligent person, and the antics of *some* of them have been simply *embarrassing*. Is *this* what you want, Australia?

The arguments which the "no" case in this referendum is using are particularly bad. They boil down to three: (i) if it isn't broken, don't fix it, (ii) the proposed model of a selected president represents a large change, and (iii) politicians aren't to be trusted to select

an impartial president. What is wrong with these arguments? On (i), of course there is something seriously broken: the fact that no Australian can be a Head of State of Australia, and that the Head of State is an hereditary position for life. These factors probably don't make a difference to the money in people's pockets, but the social coherence of countries doesn't depend solely on money: *the importance of symbols in a nation's life cannot be stressed enough*. On (ii), the "large change" is almost entirely a change in many occurrences of just one word in our constitution: "governor general" to "president". In fact, popularly electing a president would be a *much larger* change, which would represent a significant shift in power. On (iii), I have always felt that the Australian attitude of scepticism towards our politicians is healthy: if you're going to err, better to err on the side of distrusting your politicians rather than credulity towards them. Moreover, governments in the last fifteen years or so in this country, under the sway of economic rationalism, have tended to disregard the wishes of the people; so that one might feel that politicians have brought anti-politician sentiment on themselves. However, it is disgraceful that monarchist politicians, opportunists all, have lent support to anti-politician arguments for the "no" case. A balance must be restored. The Prime Minister, who heads the party popularly elected *and entrusted by us* to govern on a set of policies closely scrutinised in a

by
Dr Chris Mortensen
Philosophy

general election, is without doubt the most important person in the land, and should remain so. You might disagree with them, but you *have* to proceed on the presumption of good faith all round.

This referendum is *first and foremost* about whether to have a monarchy or a republic. The issue of elected or appointed Head of State is entirely *secondary*. It is of such lesser importance that I think that were the choice presented us to be between monarchy and popularly-elected president then I would still be voting "yes". Fortunately, however, the choice presented to us is wiser than that.

So I turn to urging republicans everywhere to vote for an *appointed* Head of State. I don't have anything to add to the usual arguments that electing a Head of State is a recipe for political instability. These arguments strike me as completely conclusive, and I am surprised that they don't have the immediate assent of all.

Let me then appeal to a different set of prejudices. One hears it said often enough that Australia has too many elections. This is not an opinion I share; but even so, many people feel frustrated when Prime Ministers call costly elections merely to exploit favourable polls. Mind you, when the campaign is on I remind myself that frequent political debate is exciting and healthy in a democracy. But that is precisely what popularly electing a president would *not* be about. Such an election must of necessity be about the single,

essentially *minor*, issue of the *character* of the candidates. Still, I suspect that there are many people who dislike elections but who haven't thought through the consequences of one more election held on a regular basis. For example, who funds such an election? Not political parties, that would be disastrous, because the election *cannot* be about *political policies*. In passing, I doubt that this implies that a president cannot be a former politician. Nor should the Australian people fund such an election either: what sense is there in funding an *expensive* campaign over *moral character*? This leaves the funding to the private individuals themselves, or their media backers. But *that* is a recipe for the Head of State being a *rich* person, probably a white man because rich persons are mostly white men. The best potential candidates are unlikely to want to put themselves through such media scrutiny. We could have the spectacle of Kerry Packer and John Elliott fighting it out in a razzamatuzz media-circus campaign over who has the most pristine soul. How unseemly! How ultimately pointless! Is *this* what you want, Australia?

Far better to have a Head appointed by the Parliament, the people's elected representatives, the supreme governing body of the land, after a careful, widespread and inclusive selection procedure, in a ceremony stressing the solemn duty which the Australian people are entrusting to them.

For the future of our country, I urge you to vote "yes".

Celebrating
125
years

FROM NEAR AND FAR

Ms Elizabeth Ho (BA Hons, AALIA), took up a new position in February 1999 as Director of the Hawke Centre at the University of South Australia, a public learning facility promoting democratic citizenship and fostering research into public policy and other arenas of Australian life.

Previously Associate Director of the State Library and before that, Executive Education Officer for the State's Jubilee 150, she has threaded her career with an active interest in promoting Australian culture to the broad community. She has led several educational publication projects, including the Telstra 1998 finalist, the Women and Politics website at the State Library. She is a member of the State Heritage Authority and over time has contributed to diverse heritage forums, ranging from the Australian Bicentennial to the National Preservation Office Board of the National Library.

Her private interests include Australian cuisine; she is the co-author with celebrated chef, Cheong Liew AM of My Food (Allen and Unwin 1995), a food reviewer for Dine Adelaide (Wakefield Press) and a member of the University of Adelaide Research Centre for the History of Food and Drink.

Child of the fifties, teenager of the sixties, my entry into University in 1969 followed hard on the heels of the tumultuous 1968 student riots in France, now a symbol of the age of youth revolt. The shadow of Vietnam and the infamous national service ballot fell across the University campus. Many of us took to the streets in a show of electric youth power screaming for freedom and peace. Today the screaming is usually about HECS fees. I value the fact that our protests were driven by the highest ideals of humanity and

democracy however unworldly we may have been at the time.

However, times were not yet so changed as Bob Dylan claimed.

This was still the age of the University beauty contest, the now dim and distant crowning of Miss Prosh. Feminist politics on campus were in their infancy and the Prosh rag was still featuring female pinups when I commenced my Bachelor of Arts Degree. It seems incredible in retrospect that this was the case and a salient reminder that University campuses were still a male province in 1969. Times thankfully did change, but I still recall with anger the requirement for women to apply to remain in the State Public Service upon marriage, in December 1972!

My upbringing was unusual in that most of my youthful years had been spent either on or near a stage. My parents were heavily involved in the world of amateur theatre and by default Adelaide's counter culture of the 'wild theatre party', so while I attended Wilderness School there was a far less tethered side to my upbringing that saw me learning drama for real performance, not dreary classroom recitation.

The University campus was part of my experience from a young age. The excitement of being either backstage or onstage at the University's Union Hall in an era when theatregoing was the chief entertainment of lively Adelaide society has scarcely dimmed for me. My father, Tom Steel, a brilliant pianist and excellent set designer by night, self-employed engineer by day, told me proudly once that the Shakespearean Drama Group 'was going to be performing regularly at the Union Hall from



Elizabeth Ho

now on, one of the best equipped theatres in the Southern Hemisphere'. Later, it was at this very theatre that I was fortunate enough to appear in the University Theatre Guild's world premiere of Patrick White's play *Season at Sarsaparilla*, as the child Pippy, playing alongside stunning Zoe Caldwell and friend of my childhood, Les Dayman.

This theatrical background undoubtedly led me once again to venture inside the University's portals to contest and win the Annual Classics Prize for Latin Speaking as a school student of 16, judged then by Professor Trevaskis and Mr Garson. I still remember Mr Garson's wide lapel dark blue pin striped suit, Al Capone style and wonderfully eccentric in the 1960s.

I managed to win a University Commonwealth scholarship in 1968, meaning that my University subjects could be undertaken at no charge. My

parents had never entertained any hopes of being able to attend a university as promising school students of a much earlier era. They had given me, their only child, every opportunity to reach my potential and their quiet triumph was a double one. Tom and Marjorie Steel, educated as they say in the university of life, made it possible.

Aside from the runny cheese rolls and indifferent coffee in the murky underground Cellar café of the Union Hall, adorned with Boyd's quite arresting Judge series of paintings; deep conversations with Uni friends on the Barr Smith lawns; short suede skirts, high boots and trailing second-hand scarves; the State Library's atmospheric Periodicals Room; burning shoe leather on the foot warmers in the Barr Smith Library; and, a little money rolling in from the odd ABC radio play produced in the old building on Hindmarsh Square and work in the State and Barr Smith Libraries, I recall one of my first tertiary learning experiences. This was the snowy-haired and gracious Professor Cornell delivering his last lectures in French I at the Napier Building, with great bonhomie, before active retirement.

There were two strong women amongst many men in the academic entourage; Madame David had the widest smile and the deepest patience of any French tutor, whilst Madame Garçon was formidable and rigorous, especially when examining an explication du texte on masterful Molière, dark Diderot or worst of all, pensive Pascal.

Continued Page 6

First initiative on Chinese students

THE FLOW OF CHINESE STUDENTS to the University of Adelaide is set to increase from next year.

A new agreement between the University and the China Scholarship Council will make it easier for suitably-qualified private students from China to study in Adelaide.

The first intake of Chinese students under the agreement will enrol in Master of Business Administration (MBA) courses when the pilot program begins next year.

Other study courses—for undergraduates and postgraduates—will be offered as the program develops.

The Chinese students will be selected and admitted by the University in accordance with normal admission requirements.

The China Scholarship Council's role will be to provide information about the University and its courses and about living and studying in Adelaide.

It will also vet academic qualifications and assist students with applications, including visa applica-



Vice-Chancellor Professor Mary O'Kane signing the agreement with Professor Zhang Fengxi, Executive Secretary General of the China Scholarship Council, at the ceremony in Beijing. Also pictured: Professor Norman Ashton, Deputy Vice-Chancellor (Internationalisation & Development) and Dr Chen Chunlai (left), Postdoctoral Research Fellow at the University of Adelaide.

tions and, where appropriate, travel arrangements.

The initiative marks the first agreement between an Australian

university and the China Scholarship Council on the intake of private students from China.

—John Drislane

Review aims to release Uni resources

THE UNIVERSITY OF ADELAIDE has set up an Expenditure Review Group to investigate how the University can use its resources more effectively.

Convenor Dr Sue Richardson from the School of Economics said the Group was keen to hear from anyone with ideas.

"We are taking a whole-of-University view," she said.

"It's our intention to recommend fairly specific measures, so we welcome all suggestions, including ideas about the relationship between departments and the centre. The

first step is to find ways to reduce the costs of what we do, in a way that does least harm to the overall performance of the University.

"But the intention of the review is not just to reduce the University's total expenditure; it's also to release resources that are not being used efficiently, so that they are available to finance new activities, especially fee-earning activities."

The Review Group is currently gathering information about the cost structures of different parts of the University and will meet soon with Executive Deans/Directors

and Heads of Departments/Finance Managers.

Group members are: Dr Richardson, Professor Penny Boumelha, Deputy Vice Chancellor (Education); Professor Malcolm Oades, Executive Dean, Faculty of Agricultural and Natural Resource Sciences; and Mr Tony Siebert, Executive Director, Finance and Infrastructure.

The Group is due to report to the Vice-Chancellor by mid-December.

Ideas should be forwarded to christopher.brooke@adelaide.edu.au or sue.richardson@adelaide.edu.au.

—John Drislane

Labour history reconsidered

A COLLECTION of essays re-examining aspects of the history of the Australian labour movement will be launched at the University of Adelaide on 12 November.

The book, *Australian Labour History Reconsidered* (Australian Humanities Press, \$29.95) is co-edited by Ross Shanahan, Visiting Research Fellow at the Centre for Labour Research at Adelaide University, Dr David Palmer (Flinders) and Dr Martin Shanahan (UniSA).

It features essays by 15 academics from universities across Australia and contributions from each of the editors.

Ross Shanahan said that changing industrial relations processes and conditions had forced a rethink of important

questions in labour history. He said that issues central to the concerns of historians of the labour movement in the past were reconsidered in the book in the light of current social and cultural insights.

"We are also trying to stimulate discussion as to the future directions of the labour movement itself and to identify the most significant challenges that confront it," he said.

The book has a strong South Australian flavour and is dedicated to the memory of Don Dunstan.

Dr Barbara Pocock (Labour Studies) will launch the book at the Department of Social Inquiry on 12 November (4.30pm).

—John Drislane

Reading the Classics

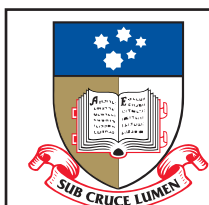
FESTIVAL FEVER is upon us again with the unveiling of the program for the Telstra Adelaide Festival 2000.

Honorary Visiting Research Fellow in English, Dr Alan Brissenden, is playing his part in the lead-up by reading from Dante's *Inferno*, one of four classics being used as performance pieces for the Festival.

The readings of the *Inferno*, *Faust*, *The Odyssey*, and *The Ramayan* are being held to help the people of Adelaide "bone up on the classics" prior to the Festival in March 2000.

Selections from one text only will be read each Tuesday until the Festival, with the first (*Inferno*) starting on Tuesday, 9 November.

"Boning Up On Your Classics" will be held at the Supermild lounge, 182 Hindley Street, every Tuesday from 6-8pm. Entry \$5. Full calendar from Supermild and Imprints Bookshop.



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Howl

There has been a distinctly lupine edge to my voice lately. No, it is not the full moon. What sets me off is the Prime Minister's response.

Now the poor man was in a difficult situation. A draft Cabinet paper from his Minister for Education, Training and Youth Affairs had been leaked to the Opposition who had had a field day. While containing some good elements, the paper also had parts that were odd, unpolished and politically naive. It was a document in need of discussion, robust editing and considerable revision. Prospective university students and their families were alarmed by the sillier aspects of the paper, which had opened the door for the Opposition to suggest university fees of \$100,000 were likely. So the Prime Minister basically said: "It's off the agenda". Higher education, now a very hot potato, was dropped. Fast.

And that is the very worst thing that could happen.

To learn that the problems of Australian universities are to be ignored (at least, presumably, until after the next Federal election) is why I want to scream and howl. The higher education system is in crisis. It is under-funded and over-regulated and has been left in considerable uncertainty since the Government announced the West Review of higher education financing and policy. As funding has been withdrawn, regulation has increased, meaning universities have been forced into the marketplace with our hands tied.

All political parties pay lip service to the need for a strong knowledge-based economy supported by a well-funded higher education system. But no political party seems willing to open a debate about what this means in hard dollar terms. If all Australians are to have a chance at international levels of higher education, then we will have to think hard about relative spending on Defence, Social Security and Health. We also need to revisit the mix of public and private contributions to higher education costs. At the moment the combination of the student fee (HECS) and the direct public subsidy provided to universities is not enough to provide the level of higher education that Australians say they would like.

The Government does not have to work it all out by itself. As Jane Richardson pointed out in *The Australian* recently, the Government would be wise to re-establish an independent advisory body on higher education, such as it had with the Commonwealth Tertiary Education Commission. Or it could turn to the recognised quality and independence of the Productivity Commission, as it did some years ago with an inquiry into research and development, for advice on the way forward.

The Prime Minister has been praised for his stand on East Timor—a position that required the reversal of Australia's long-term policy. It is often more difficult for a political leader to be seen as a hero in domestic affairs. But the time has come for the Prime Minister to reverse his stand on higher education and reinvigorate a reasoned policy debate about the future development of universities, including the issue of funding.

MARY O'KANE

2000 Summer School

ADELAIDE University's Centre for Professional & Continuing Education has launched its 'New Millennium, New Directions' Summer School program—open to all.

The Summer School runs from January to March 2000 and offers a wide range of personal and professional development seminars, senior and middle management programs, computer and study skills courses.

Half-day, full-day, two-day or evening classes are available. Intensive language courses for business, travel or pleasure, and English as a Second Language courses run over 10 weeks.

Professional & Continuing Education is now also taking enrolments for the Professional Certificate in Arbitration & Mediation, beginning March 2000.

Further information: (08) 8303 4777.

Government policies hampering Indian student market

AUSTRALIAN authorities are making it unnecessarily difficult for Indians to study in Australia, according to Adelaide University's representative in Mumbai, Mr Navin Shah.

On a visit to Adelaide, Mr Shah said the number of Indian students in Australia had grown from just 160 in 1992 to 6,500 last year.

But he said the potential for further growth was being hampered by Australian Government policies.

"There's a big blockage in processing student visa applications," Mr Shah said.

"The only place in India where you can get a student visa for Australia is the Australian High Commission in New Delhi.

"Visa processing is handled by only eight or 10 staff, and this is

causing big delays.

"The United States, on the other hand, issues student visas at centres in four Indian cities.

"The Australian Government needs to take a policy decision to increase the number of facilities—and the number of staff—to meet the demand for student visas."

Mr Shah, Director of the Mumbai-based Indo-Australian Education Centre, also said Australia operated an over-restrictive policy on visa applications for English language courses.

Under present regulations, visas are granted only for courses lasting more than 10 weeks.

Mr Shah, who acts as a representative in western India for a range of Australian universities, said the most popular courses among Indian students

wanting to study in Australia were business administration, computing, electronic commerce and electronic engineering.

He said he was impressed by the quality and quantity of facilities at Adelaide University, particularly in relation to the size of the student population. But he added:

"The tourism authorities in South Australia need to have a marketing push to put Adelaide on the map in India.

"Most Indian students want to go to universities in Sydney or Melbourne because they're the places in Australia they've heard about.

"Putting Adelaide on the map as a tourist destination is an important part of attracting students to the city."

—John Drislane

Frog Chemical Discovery

From Page 1

"My major project was discovering and analysing a whole number of new peptides from frog secretions.

"Quite a number of the peptides were biologically active."

Preliminary test results have shown that some peptides have anti-cancer and anti-bacterial properties, raising widespread interest in the research.

Professor Bowie is now collaborating with the National Cancer Institute in Washington DC to further examine the results.

This month, Mr Wabnitz is travelling to the United States at the invitation of a major pharmaceutical company which is interested in his work.

"It's an exciting research area to be in," he said.

"Some exploration has been done overseas and I can see it increasing in importance as more work is done."

Mr Wabnitz said he could not have undertaken the research without the support of Professor Bowie and Associate Professor Tyler. He also thanked Ben Smith, a PhD student in the Department of Environmental Biology, for his assistance with behavioural study tests.

—John Drislane



Caption: Paul Wabnitz (right) and Ben Smith with one of the frogs from Associate Professor Mike Tyler's laboratory. Photo: John Drislane

Dental students at the top

TWO STUDENTS from the University of Adelaide's Dental School have won top awards at an Annual Meeting of the Australian and New Zealand division of the International Association for Dental Research (IADR), held recently in Adelaide.

Patricia Diaz, an entrant in the Colgate Poster Competition, won the IADR Divisional Travel Award, enabling her to attend the 78th General Session of the IADR, to be held in Washington DC in April, 2000.

Ms Diaz is a graduate in dentistry from the Instituto de Ciencias de la Salud - CES (Medellin, Colombia). She is enrolled this year for the Honours Degree of BSc(Dent) and is working in the Oral Microbiology Laboratory in the Dental School.

For this study (in 1999) she was awarded the Colin Cormie scholarship from the Australian Dental Research Foundation Inc.

Jane Chalmers won the Young Investigator Award in Preventive Dentistry. She is supported by an NHMRC scholarship and is a PhD student in the Social and Preventive Dentistry area in the Dental School.

"A pleasing feature of the Meeting was the large (and probably a record) number of young investigators presenting posters in the Colgate Poster Competition," said the convenor, Dr Tony Rogers.

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Pioneering scheme offers the best of science

A PIONEERING program targeting the University of Adelaide's brightest science students has produced its first crop of graduates.

Three years after joining the Science Scholars program, the 17 original participants met for a final official engagement last month—a lunch with high-profile scientist and South Australian Museum Director, Dr Tim Flannery.

The students—all of whom have now completed their BSc studies—were selected for the pilot scheme in 1996 based on their outstanding academic abilities.

The program exposed them to a wide range of influences designed to enrich their understanding of the potential of science.

It included talks by academics, industry speakers and others; a mentoring program; visits to every Science department in the Faculty; experience of research laboratories (both public and private) throughout South Australia; and

site visits to the CSIRO, SARDI and other centres of scientific endeavour.

Course coordinator Dr Chris Daniels from the Department of Environmental Biology said the experience had expanded the students' view of the philosophy, practicality and function of science.

Congratulating them on their achievement, he said they had been provided with access to information, views and ideas that transcended their own individual courses.

"You have been exposed to the best that South Australian science can provide," he said.

Dr Daniels said the students' advice and assistance had also helped to develop and improve the Science Scholars program.

The program is now running among first, second and third year Science classes, with a total of 75 students participating.

—John Drislane



(Back row) - Dr Chris Daniels (program coordinator); Peter Smibert, David Lupton, Cameron Bracken, Sven Delaney, David Gallasch. (Middle) - Claire Hahes, Farmer Schultenzeburg, Associate Professor Michael Geddes (Deputy Dean, Faculty of Science); Dr Tim Flannery (Director, South Australian Museum); Jessica Roediger, Helen Lynn. (Front) - Megan Stait, Chaturani Jayasena, Megan Bennett, Anna Thomas.

Technology coup for CTIN

THE CENTRE for Telecommunications Information Networking (CTIN) is joining forces with Clipsal and Ericsson Australia to develop and evaluate new wireless communications technology, with the use of a state-of-the-art technology development kit.

The technology, known as Bluetooth, is a short-range wireless standard which eliminates the need for data cables in electrical and electronic devices and appliances. World wide, the electronics industry is working towards the adoption of Bluetooth as the universal standard. It is the fastest growing industry standard technology ever adopted.

There are only 200 Ericsson development kits for Bluetooth in the world. One of these kits has now been made available to CTIN and Clipsal by Ericsson.

Clipsal plans to use the early access to the development kit to trial applications of the Bluetooth technology, while CTIN's role will be to provide independent evaluation and assessment of products developed using Bluetooth.

Professor Reg Coutts, the Director of CTIN, said the Bluetooth kit would provide engineers with a design environment

to develop and assess the new technology in a range of electronic devices.

"The use of Bluetooth will make it possible for mobile phones to connect to PCs or send signals to appliances in the home, for example. Bluetooth is one of the key revolutionary technologies that will change the way devices connect and people interact with new mobile applications."

He said Ericsson and the other companies involved in the development of Bluetooth technology wanted to ensure that all products developed using Bluetooth were inter-operable.

Professor Coutts said it was quite a coup for Clipsal and CTIN to be selected to work on the development and testing of Bluetooth technology.

"We are looking forward to working with our local partner, and with Ericsson Australia, on a project which has significant potential," he said.

"It is a testament to the high regard in which the local expertise in Electrical & Electronic Engineering is held, and a great opportunity for engineers to 'get their teeth into' an interesting and valuable project."

—Collette Snowden

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New cancer research to target blood cancer genes

THE FLOREY Research Fund has announced the award of a \$100,000 grant for an exciting Year 2000 project: searching for the genes that cause leukaemia.

The project, selected on the recommendation of the Research Committee of Adelaide University's Faculty of Health Sciences, will be conducted under the direction of the Faculty in the Immunology Department of the Hanson Centre for Cancer Research.

The team will comprise Associate Professor Tom Gonda, Professor Angel Lopez, Dr Richard d'Andrea and the Director of the Centre, Professor Mathew Vadas.

The full title of the project is "Establishment of DNA Microarray Technology: a powerful new approach for identifying genes involved in cancers of the blood".

To exert its efforts, the information in any gene must be used to produce a corresponding protein, ie the gene is "expressed". In any one cell, only 10-20% of the total number of genes

are expressed—but this is still in the tens of thousands.

Cancers and in fact many other diseases result from changes in gene expression. Thus, identifying these changes is crucial to our understanding of cancer. However, this has been a bewildering task because of the huge number of genes involved.

The new DNA microarray technology allows the simultaneous monitoring of the expression of thousands of genes. The researchers believe this will lead to new insights into the causes and processes involved in leukaemias. This in turn may lead to the identification of new molecular "targets" for diagnosis and therapy.

The main funding for the project, just announced by Florey Research Fund Chairman Professor Robert Bauze, will come from monies raised through a major luxury car lottery now being conducted in conjunction with the Anti-Cancer Foundation.

—Frank O'Donnell
Executive Manager, Florey Research Fund

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FROM NEAR AND FAR

From Page 2

There was the persuasive and ebullient style of Roger Hainsworth teaching frontier American History and the restrained passion of Dr John Tregenza for the relatively uncharted and truly inspiring waters of a mythless Australian History in our Interim Honours Year—no gold seekers, bushrangers or diggers in sight. Here came the revelation that ours was in fact one of the most urbanised societies on earth. I count Dr Tregenza responsible for unleashing a whole generation of interest in Australia's past, with some students going on to develop careers in historical consultancy, a blazing path indeed in a country that had scarcely acknowledged that it possessed a history.

Dr Leon Atkinson delivered the emotionally stretching third year subject of History and Literature, a cross-disciplinary gift of a fine and sometimes tortured spirit, while the prodigious academic, Dr Norm Etherington inspired me to undertake an Honours History thesis on desegregation in the United States. The required reading revealed the hollowness of a rhetoric of freedom without real commitment to a fair democracy and social responsibility and partly explains why, twenty seven years later, I am at the University of South Australia doing what I am doing.

It is painful to hear that there are few specialist history teachers left in the state education system and to see the demise of history departments, not to mention other areas of the humanities, within universities. Should there not be a robust investment in Australian studies, with research at the fore, in a country that is supposedly forging a new political identity and future? The current Republic debate is mostly revealing how little our populace knows about our political system and history.

English was profoundly enriched at that time by Dr Alan Brissenden and his ardent love for Shakespeare, witnessed in lecture theatres overflowing with pen-poised students. Alan is the current President of the Friends of the State Library and has lost none of his zeal. Enthusing Professor Colin Horne, Jury Professor of English Language and Literature and resonant Professor John Colmer led us gingerly through the literary heritage with enormous aplomb.

Latterly Dr Geoffrey Thurley arrived from Britain—the source of many academic appointments at that stage—and took us by surprise with a depth of emotion that leapt out at us in a dense torrent of literary analysis and reflection.

The only memory of utter undergraduate confusion that remains is that of wide-girthed Dr Dalziel teaching Psych 1A. I nearly failed in my first year as I had not been able to decipher his Scottish burr throughout a year of lectures, and was too youthfully embarrassed to confess my inability to such a warm, rollicking and by all accounts, brilliant academic. (Bar-pressing Skinnerian rats still make me nervous.)

Amidst this anecdotal meandering, it should by now be clear that this University of Adelaide education was rich, undoubtedly biased in all kinds of unacceptable ways, and decidedly non-vocational. But it did inspire! Belonging to the waning era of the old 'liberal education', this now unfashionably 'targetless' non-utilitarian preparation has buoyed me every day of my life since, whether at work or at home, and in the joyful raising of our own thoroughly modern children for a substantially altered world.

—Ms Elizabeth Ho (BA Hons, AALIA)

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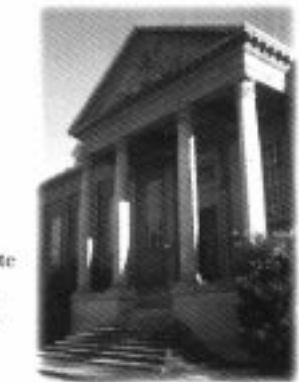
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What's the problem?

A NEW BOOK aims to turn conventional thinking about policy on its head.

Women, Policy and Politics: the Construction of Policy Problems, by Adelaide University Reader in Politics Associate Professor Carol Bacchi, encourages a more critical approach to thinking about policy issues by making people realise the many ways in which policy statements or proposals construct problems.

The argument, put simply, is that policy proposals imply an understanding of the nature and causes of a problem. Hence, it is crucial to identify this understanding as a first step towards assessing a proposal.

Dr Bacchi's book develops and explains a systematic approach which enables this re-evaluation of policy proposals.

"When we propose to do something, we've already thought through how we understand the problem. When you make a policy proposal, you are saying that you are going to change things in a desirable direction. In a sense, then, you have already decided what you think the problem is, because what you're suggesting is supposed to address that.

"What I'm saying is that it is important to uncover these implied understandings of the problem because, if we disagree with them, we will have good reasons to see limitations in what is being proposed as a solution."

Dr Bacchi has been working on and teaching her critical thinking approach at Adelaide University for more than three years.

In her book, she has applied the "what's the problem (represented to be)?" approach to the area of women and policy, her main teaching and research area since 1990.

The first half of the book develops the approach, while the second half applies it to a wide range of women's policy areas: equal pay, antidiscrimination policy and affirmative action, education, child care, domestic violence, abortion and sexual harassment.

For example, Dr Bacchi reflected upon a common way of understanding girls' inequality in education: "One of the major recommendations in addressing girls' inequality in education has been to encourage them into non-traditional study areas. The focus has been on recruiting them. If you look at that proposal, the suggestion is that there is something about girls that makes them reluctant to go in, and that they need encouragement or coaxing. So the proposal suggests that there is something that needs 'fixing' in girls," Dr Bacchi said.

"But there are different ways of approaching the issue, such as looking at how non-traditional study areas are taught. So we could focus on the curriculum, and maybe



Dr Carol Bacchi with Sage Publications book editor Karen Phillips.

we would find out that the curriculum addresses issues in a particular form that girls find unappealing—so it's the curriculum that might need to change. The solution in that case might be to change the way the subject matter is taught, not simply to recruit girls. In addition, we need to think about the way in which the emphasis on non-traditional study areas implies a lack of value in girls' more traditional areas of study, the humanities and social sciences."

Dr Bacchi said her approach would be a useful tool in any policy area.

"It's a tool that allows policy makers or those responsible for carrying out policy to intervene in policy development. If someone receives a directive which constructs the problem in a particular way, they can go back to the people who sent that directive and say 'I don't think you've captured what the real problem is—I think your suggestion constructs the problem in this particular way, but I think the real problem is this'. This would move the level of discussion to a different plane.

"The bonus for me is teaching this approach to students, who really respond to it," Dr Bacchi said. "It encourages students to think critically about a whole range of issues. I do not set out to give them answers. My goal is to provide them with a tool which they can use and apply in a variety of situations."

Women, Policy and Politics: the Construction of Policy Problems was launched at the 7th Women's Worlds Congress in Norway in June, and in Adelaide by the Office for the Status of Women in September.

Published by Sage Publications, it is now available through Unibooks.

—David Ellis

Seminar for industry awareness

MORE THAN 120 wine industry representatives attended a Grape and Wine Industry Outreach Seminar run by the Department of Horticulture, Viticulture and Oenology recently.

"The seminar was designed to raise awareness of the Department's current research capabilities and interests," said Dr Vladimir Jiranek, Lecturer in Oenology, who organised the event. "It was also a recognition by the University of the industry and its needs."

Departmental staff presented sessions on wine pigments, irrigation in viticulture and wine microbiology in relation to flavour.

Dr Jiranek said he was encouraged by the reaction of those who attended and believed it would help to revitalise the Department's outreach endeavours.

"We see a seminar like this filling the gap between Wine Technical Conferences, which occur every three years. There could even be

interstate or regional events. The Wine Tech conference is great, but it is hard to give everyone time to air their work in detail," he said.

The day included briefings and discussions and culminated in an open forum discussion 'Directions for future activities', hosted by Professor Peter Høj, Professor of Oenology, University of Adelaide, and Director of The Australian Wine Research Institute.

Organically produced wines and the potential for the presence of genetically modified organisms in the winemaking industry were two topics which gained attention from forum participants.

"In the future we would like to involve speakers from outside the University, perhaps people who can give an industry perspective or commentary," said Dr Jiranek.

—Sharon Behen

International awards for Architecture graduates

TWO University of Adelaide graduates have won international awards for computer-based architectural design.

Tristan Sterke and John Endersbee, who completed their studies at the School of Architecture last year, have been named major category winners in the form•Z Awards of Distinction announced in Salt Lake City, USA.

The awards—presented at the annual conference of the Association for Computer Aided Design in Architecture—were open to 247 architecture and design schools in the USA and to schools in 89 other countries.

Mr Endersbee won the Urban Design category for a hypothetical media and retail centre to be used at the Sydney 2000 Olympic Games festival.

He created the design as part of his Honours project.

Mr Sterke, who now lectures at the

School of Architecture, won the Architecture category for a design entitled Idea Cloud suggesting a performance space for an experimental dance theatre.

Both graduates used the form•Z 3D computer modelling program to create their designs. The program is used widely in architecture, product design and the movie industry (many of the models for the most recent *Star Wars* film were created with form•Z).

As part of their prizes, Mr Endersbee and Mr Sterke will each receive a license for form•Z (worth several thousand dollars).

The University's School of Architecture, Landscape Architecture and Urban Design will also benefit financially from the win, with part of the annual cost of the form•Z academic license being waived next year.



—John Drislane Tristan Sterke and John Endersbee. Photo: John Drislane.

DSc to leading ecological scientist

DR THOMAS WHITE, an Honorary Research Fellow in the Department of Applied & Molecular Ecology at the Waite Campus, was awarded a Doctor of Science degree in the recent Commemoration Ceremonies in Bonython Hall.

Dr White graduated in science from Auckland and then Edinburgh university before working as a forest entomologist at the New Zealand Forest Research Institute. There, his studies of outbreaks of indigenous and introduced insects convinced him that the concept of regulation of insect populations by predators, parasites and diseases, did not fit with his own observations of the changes in abundance of these animals.

As a result, he accepted a Wool Research Trust Fund Fellowship at the Waite Agricultural Research Institute to study for his PhD with Professor HG Andrewartha, investigating outbreaks of lerp insects on eucalypts. This led to his hypothesis that the numbers of these insects were determined by the effects of weather on the quantity of their food, rather than by the actions of other animals.

Thirty years later Dr White published his book *The Inadequate Environment*, in which he completed a shift away from the majority view of the regulation of animal populations by density-dependent factors, to an alternative view, where population numbers are controlled by the capacity of their habitat to support them.

This has opened up new ways of thinking and more balanced approaches into investigations of populations. One of Dr White's papers is among the five most cited papers in environmental sciences and his international peers rank him among Australia's most important ecologists.

Dr White was a Senior Lecturer in Zoology at Adelaide before being appointed as Foundation Professor of



Dr Thomas White. Photo courtesy

Biology and Head of the School of Natural Resources at the University of the South Pacific. He then became Dean of the School of Applied Science in the Riverina-Murray Institute of Higher Education. He retired in 1987 and, as an Honorary Research Fellow at the University of Adelaide, wrote his book, published further papers and continued as the Australian Zoological Editor for *Oecologia*.

Public lecture: Black holes

BLACK HOLES are perhaps the most intriguing of the astronomical objects discovered this century.

They come in various sizes from very small to ones having galactic mass, which are believed to power quasars—the most energetic objects known. Black holes remain among the most puzzling and least understood of physical phenomena.

Professor Don Page of the University of Alberta, a world expert on black holes and theoretical cosmology, is visiting the Mathematical Physics Group this month through the Faculty of Science's International Science Scholar Scheme.

Professor Page obtained a PhD from Caltech in the early 1970s and over the past 25 years he has collaborated extensively with Professor Stephen Hawking, author of the popular science classic *A Brief History of Time*.

Black holes will be the subject of a free public lecture to be given by Professor Page on Tuesday, 9 November at 7.30pm in Union Hall. The lecture is aimed at a wide audience and is sponsored by the SA Branch of the Australian Institute of Physics.

— Dr David Wiltshire
Physics & Mathematical Physics



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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.

To find out more about Elizabeth Ho checkout this week's Near and Far column on page 2.

Wednesday 3 November, 1.00pm, Institute Building, North Terrace. \$5 (Concession/Friends \$3).

For more information about the Alumni Association and its activities visit the web site at: <<http://www.adelaide.edu.au/alumni/>>

SA musos Song of Hope Concert for East Timor

A NUMBER of Adelaide's top jazz and world musicians, headed by saxophonist Jeff Alkire, who is fresh from the Ray Charles Orchestra, have banded together to produce a fundraising concert to aid the people of East Timor on Sunday 14 November.

The concert will open with East Timorese musician Agostinho Moniz and his Timor Oan Culture Group who will perform traditional works with guitar and voice. Moniz is a leading figure in the Campaign for Independent East Timor and has just returned from meeting recently freed independence leader Xanana Gusmao.

This theme will be carried by several upbeat jazz standards and two of Alkire's original compositions played by some of South Australia's favourite jazz performers from the

Elder Conservatorium's Jazz Department: Jeff Alkire on saxophone, Connaitre Miller (voice), Bruce Hancock (piano) John McDermott (drums), and another US recruit to the faculty, bassist Erik Applegate.

The evening will also showcase some of the young stars of the University of Adelaide's Jazz Program who are rapidly making a name for themselves in the music scene.

Singer Libby O'Donovan will lead her jazz combo in a number of powerful spiritual and blues-influenced jazz tunes. Shane Ellery will join the faculty group on keyboard.

When asked what prompted him to organise this benefit concert, Jeff Alkire said, "Like many people I was moved by the courageous stand of the

people of East Timor voting for independence despite intimidation. The aim of the concert is to convey musically and financially our support of their courage and their dream to be free of oppression.

"And it's been great to see how willing the musicians and the larger University of Adelaide community have been to support this effort by contributing their time and energy to this benefit concert."

—Sheila Bryce

The concert starts at 7.00pm on Sunday 14 November in Elder Hall. Tickets at \$10 and \$5 concession are available from the Elder Conservatorium office by phoning (08) 8303 5272, and at the door. All proceeds will go to the East Timor appeal of Community Aid Abroad.



Greg Johns: "sculptural narrative". Photo Photography Unit, Waite Campus.

Sculpture honours Peter Waite

A NEW SCULPTURAL WORK at the Waite Arboretum honours Peter Waite, the original benefactor of the Waite campus.

His image is inlaid with burnt red gum on a gateway as part of a "sculptural narrative" by Greg Johns.

The work was opened a week ago by Peter Bassett, the Director of Projects for Arts South Australia.

The multi-faceted work also includes a bronze work by Silvio Apponyi, woodcraft by Douglas Bell and landscape design by Viesturs Cielens.

Greg Johns said the outline of Peter Waite was based on a 1905 photograph on display in Urrbrae House.

"This image is partly metaphorical: a European stepping from a gateway, which on one side is European in design, and on the other side Australian," he said.

The artworks were funded by the Australia Council Visual Arts/Craft Fund, with paths funded by the Friends of the Waite Arboretum.

Colour Scheme with a twist

BASSIST Erik Applegate, Lecturer in Jazz at the Elder Conservatorium School of Performing Arts, is premiering a new ensemble in Adelaide. Colour Schemes is a jazz quartet with a twist: two saxophones, bass and drums—and no harmony instrument.

Colour Schemes will appear at the Fox and Hounds, Stamford Plaza, North Terrace on Tuesday 9 November from 7.30pm-11.30pm. There is no cover charge.

"I've always been fascinated by the textural possibilities of piano-less ensembles and I'm particularly excited about the specific musicians involved in this project," said Erik Applegate, who recently joined the staff of the conservatorium after holding appointments at Middle Tennessee State University and Western Kentucky University.

The group features Jeff Alkire and Mike Stewart on saxophones and John McDermott on drums. Jeff Alkire is a Lecturer in Jazz Saxophone at the Elder Conservatorium while Mike Stewart and John McDermott are established regulars on the Adelaide Jazz Scene, whom Applegate met while they were touring the US with the Adelaide Connection, one of the Conservatorium's premier student ensembles.

"I remember being impressed when I heard them in 1998 and was excited to hear the amount of growth they've both accomplished since then," says Applegate. "I knew I had to put together a band with them."

Colour Schemes will contrast oft-neglected jazz classics with original compositions and tunes by Pat Metheny, Keith Jarrett and Jim Hall, all arranged to exploit the unique nature of the group.

They promise lush ballads, down-home blues and hard swinging standards, along with explorations involving free improvisation.

"This group takes its place in the lineage of the great piano-less groups of Gerry Mulligan, Sonny Rollins, Joe Henderson and Ornette Coleman. Given that diverse background, I see it as a blank canvas," Erik Applegate said.

Applegate was schooled at Berklee College of Music in Boston and has performed with many internationally renowned jazz musicians including Milt Jackson, James Williams, Billy Pierce, Mulgrew Miller, Dave Liebman and Ed Thigpen, among others.

For more information contact Erik Applegate on (08) 8303 5426.

—Sheila Bryce

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Bulletin Board

NOVEMBER 1, 1999

THE UNIVERSITY OF ADELAIDE

PAGE 1

MONDAY 1 NOVEMBER

12noon Plant Science Seminar: Title to be advised, by Professor Bob Symons (Plant Science). Charles Hawker Conference Centre, Waite Campus.

1.00pm Microbiology & Immunology Seminar: Developmental genetics using the zebra fish by Dr Michael Lardelli (Genetics). Departmental Library, 5th Floor, Medical School South.

1.10pm Geographical & Environmental Studies Seminar: Field trials: barriers to student learning in the field by Dr Sandra Taylor (Geographical & Environmental Studies). Room 104, Environmental Studies Building.

4.00pm Applied & Molecular Ecology Final PhD Seminar: Management of *Genista monspesulana* in the Mt Lofty Ranges by Ms Janine Lloyd (PhD student). Charles Hawker Conference Centre, Waite Campus.

4.00pm Soil & Water Seminar: Title to be advised, by Patrick O'Connor (Soil & Water). Room 301, Prescott Building, Waite Campus.

6.00pm Centre for Intercultural Studies & Multicultural Education Seminar: Integration and Divisions in Israeli Society by Professor Eva Etzioni-Halevy (Sociology, Bar-Ilan University, Israel). Council Room, Level 7, Wills Building. Refreshments from 5.30pm. Enquiries: Mariusz Kurgan, 8303 5788.

6.30pm Australian Federation of University Women: Twelfth Night. Playhouse, Festival Centre. Cost \$30. Bookings: Kate Twidale 8339 4787.

TUESDAY 2 NOVEMBER

1.10pm Law Seminar Series: Bad Faith and Bad Intentions in Corporate Law by Professor Suzanne Corcoran. Room 216, Ligertwood.

3.15pm Anthropology Seminar: Welling Up and Calming Down: the Cultural Dynamics of Adoption in the Field of Emotion by Dr Jon Telfer (Anthropology). Room 722, 7th Floor, Napier Building.

6.30pm Australian Institute of International Affairs Seminar: International Elites and the Quality of Democracy by Professor Eva Etzioni-Halevy (Bar-Ilan University, Israel). Union Cinema, Level 5, Union House.

WEDNESDAY 3 NOVEMBER

10.10am Electrical & Electronic Engineering Seminar: Trace Cache by Apisake Hongwitayakorn (Postgraduate student). Lecture Room S112, Engineering South.

1.10pm Geology &

COMING EVENTS

November 1st — November 12th

Geophysics Seminar: Why is the Crust? by Dr Mike Sandiford (Geology & Geophysics). Mawson Lecture Theatre, Ground Floor, Mawson Laboratories.

1.10pm Genetics Seminar: Title to be advised, by Eun-Lee Jeong. Seminar Room, Ground Floor, Fisher Building.

4.00pm Physiology Seminar: Configurations of interleukin-4 and interleukin-13 receptors on human monocytes and macrophages by Dr Prue Hart (Microbiology & Infectious Diseases, Flinders University). Seminar Room N416-417, Medical School North. Refreshments provided.

4.10pm Environmental Biology Seminar: Bacterial communities at defined locations of Scot pine mycorrhizospheres in dry pine forest humus and nursery peat by Sari Timonen (Soil & Water). Room 416, Fisher Building.

5.30pm Centre for Biomedical Engineering Seminar: Student Papers Night: T-ray Imaging for Biomedical Applications by Sam Mickan. Protein with protective properties against insect immune reactions by Sussan Asgari. Imaging of rapid changes in intracellular calcium by Bonny Houen. A new fuzzy logic classifier for breast cancer diagnosis by Tijana Ivancevic. Room S125, 1st Floor, Medical School.

THURSDAY 4 NOVEMBER

10.00am Electrical & Electronic Engineering Seminar: Progress in Quantum Computers by Professor Gerard Milburn (University of Queensland). EM316, New Engineering Building.

12.05pm Psychology Seminar: The New National Ethics Guidelines for Human Experimentation by Dr Eric Rump. Room 527, Hughes Building.

1.10pm Physics & Mathematical Physics Seminar: The 1999 Nobel Prize in Physics by Dr Peter Bouwknegt (Physics & Mathematical Physics). Kerr Grant Lecture Theatre, Physics Building.

FRIDAY 5 NOVEMBER

11.30am Social Inquiry Seminar: The Missed Boat: A Post Colonial Discourse on Nationalism, Democratisation and Political Representation Among Kenya Women by Ms Edith Miguda (History, University of Nairobi). Seminar Room, 3rd Floor, 10 Pulteney Street, Adelaide.

12.45pm Dentistry Seminar: Brown blobs and blunders by Dr

Craig Dreyer. Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

1.00pm Asian Studies Seminar: Autonomy in diplomacy concerning Tibet, 1911-1951 by Joseph Askew (Doctoral candidate). Room 518, Ligertwood Building.

1.10pm Elder Conservatorium Lunch Hour Concert: Keith Hempton - bass, David Lockett - piano, James Cuddeford - violin, Keith Crellin - viola, David Shephard - clarinet. Works by Mozart, Schumann and Wendy Hiscocks. Admission \$2 at the door. Elder Hall.

4.00pm Economics Seminar: Demographic change, endogenous labor supply, and the political feasibility of pension reform by Professor Fredrich Breyer (University of Konstanz and ANU). Eric Russell Room LG14, Napier Building.

SATURDAY 6 NOVEMBER

8.00pm Elder Conservatorium School of Performing Arts Concert: Classic Composers. Elder Conservatorium Symphony Orchestra, Conductor Nicholas Milton. Works by Beethoven, Rosauo and Shostakovich. Elder Hall.

MONDAY 8 NOVEMBER

12noon Plant Science Seminar: Thioredoxin and self incompatibility: A comparative study in the grasses by Mr Juan Juttner. Towards *in vivo* analysis of the *Phalaris coreulescens* thioredoxin by David Olde (PhD students). PS Seminar Room, Waite Campus.

1.00pm Microbiology & Immunology Seminar: How do sperm and eggs get together (at the cellular level)? by Associate Professor Bill Breed. Departmental Library, 5th Floor, Medical School South.

1.10pm History Seminar: The History of the Green and Gold Cookery Book: A window into Christian citizenship and material culture in South Australia by Ms Julia Pitman (History). Common Room 420, 4th Floor, Napier Building.

4.00pm Applied & Molecular Ecology Seminar: The impact of seismic exploration lines on movement of native fauna by Dr Sue Carthew (Senior Lecturer, Applied & Molecular Ecology). Charles Hawker Conference Centre, Waite Campus.

4.00pm Soil & Water Seminar: Title to be advised, by Peter Schwieger, (Micro Ecology, University of Lund, Sweden). Room 301, Prescott Building, Waite.

TUESDAY 9 NOVEMBER

12.30pm General Practice Seminar: The effects of mental health problems on the physical health of the family members by Dr Ian Wilson. Seminar Room, Level 2, Eleanor Harrald Building, RAH.

3.15pm Anthropology Seminar: A World of Fine Difference: The Politics of Identity in a Modern Irish Village by Dr Ade Peace (Anthropology). Room 722, 7th Floor, Napier Building.

7.30pm Australian Institute of Physics Public Lecture: Black Holes by Professor Don Page (University of Alberta). Union Hall.

WEDNESDAY 10 NOVEMBER

1.10pm Genetics Seminar: Cell cycle regulation in *Drosophila* by Dr Tony Brumby. Seminar Room, Ground Floor, Fisher Building.

1.30pm European Studies Seminar: Experiences, Sensations and Grammatical Categories by Mark Clendon. Room 723, Hughes.

4.00pm Physiology Seminar: Wiring up the nervous system - the role of axon guidance molecules by Dr Simon Koblar (Genetics). Seminar Room N416-417, Medical School North. Refreshments afterwards.

4.10pm Environmental Biology Seminar: Australian rainforest: Islands of green in a land of fire by David Bowman (Centre for Indigenous Natural & Cultural Resource Management, Northern Territory University). Room 416, Fisher Building.

FRIDAY 12 NOVEMBER

11.30am Social Inquiry Seminar: Sexually Transmitted Debt: Irrational or Rational Choice by Ainsley Harper (Postgraduate, Women's Studies). Seminar Room, 3rd Floor, 10 Pulteney Street.

12.45pm Dentistry Seminar: The oral health of older adults with dementia by Dr Jane Chalmers. Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

1.00pm Asian Studies Seminar: Gender, Power and the Politics of Literacy in China by Elizabeth Billard (Doctoral candidate). Room 518, Ligertwood.

1.10pm Elder Conservatorium Lunch Hour Concert: Peter Tanfield - violin, Benjamin Martin - piano. Works by César Franck & Chausson. Admission \$2 from the door. Elder Hall.

4.00pm Obstetrics & Gynaecology Seminar: Hysteroscopic STOP sterilisation, a progress report by Professor John Kerin (Obstetrics & Gynaecology, Wakefield Hospital). 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.

RESEARCH OFFICER

(Ref: 7259) (Part-Time)

Department of Civil and Environmental Engineering

Full-time salary (HEO5/6): \$31,803 - \$41,959

The position is available for six months, on a 40 hours per fortnight basis. Further information, including a duty statement and selection criteria, may be obtained from Diane Keable, Department of Civil and Environmental Engineering, telephone (08) 8303 5470.

Applications close 12 November 1999.

RECEPTIONIST

(Ref: 7229)

University Radio 5UV

Full-time salary: \$26,725 - \$30,467

This fixed-term position is available immediately for six months in the first instance, on a 58.8 hours per fortnight basis. For further information, including the duty statement and selection criteria, contact Marit de Jager on (08) 8303 5000.

Applications close 4 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.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

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

For the *Adelaidean* of 29 November 1999 advertising paper work must be received in Human Resources by 12 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 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).

GENERAL NOTICES

Council Election

30 November

As the result of the retirement of Mr David Williams, there will be an election to fill a casual vacancy on the University Council, for a member elected by the General Staff of the University to serve for the period 1 January 2000 to 5 March 2001.

There are three nominations:

John Dominic Cecchin
Robyn Raymond
Andi Sebastian

All continuing/contract General Staff of the University are eligible to vote in the election, and voting papers are being sent to them. Any member of the continuing/contract General Staff who has not received the papers by the end of the first week of November and wishes to vote is invited to obtain them from the Returning Officer. Please apply in the first instance to Room 656, Level 6, Wills Building, North Terrace Campus; telephone 8303 5871.

REX HANNEY
Returning Officer

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

Tour of Campus and New Staff Orientation

New (and existing) members of staff are encouraged to take a Tour of North Terrace Campus. There will be a Tour of Campus, conducted by Ms Adrienne Eccles, starting from outside the Mitchell Building on Wednesday 24 November 1999 at 1.15pm. The Tour, which lasts for approximately one hour, follows the New Staff Orientation Program which begins at 8.45am on the same day. Please telephone Pina Cardone on extension 35807 for further details.

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.

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

Declaration of Result

ELECTION OF POSTGRADUATE MEMBER OF COUNCIL (ONE VACANCY)

There was one candidate for the vacancy on Council, the vacancy being for one year from 6 March 2000. I declare the following candidate elected: JULIA BLANCHE PITCHER.

REX HANNEY
Returning Officer

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.

Strategy for Online Services

Comments are invited on a draft document for online services available at:

<<http://www.adelaide.edu.au/ITS/onlinestrategy.pdf>>

Comments should be sent to: Danielle Hopkins, Information Technology Services <danielle.hopkins@adelaide.edu.au>, ext 33937

preferably by 5 November 1999.

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 effect on contracts, all of which now have to include a GST clause.

ACUE is moving!

On Monday 8 November, the Advisory Centre for University Education and the Integrated ESL Programs Unit will be moving together to levels one and two of the Schulz Building.

Contact numbers (telephone and facsimile) remain unchanged for all staff of the:

- Evaluation Service
- Integrated Bridging Program
- Language & Learning Service
- Educational Development Service

For further information, please telephone 8303 5771.

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.

Research Branch Update

The University of Adelaide / Australian Research Council INFORMATION SESSION - RESEARCH FUNDING SUPPORT FOR 2001: ARC Research funding opportunities: Monday 13 December 1999 at 11.30 - 1.00pm, Council Room, Level 7, Wills Building, North Terrace Campus.

Speakers: Professor Ross Milbourne, Deputy Vice-Chancellor (Research) and Chair, ARC Research Grants Committee, (Large Research Grants), Professor Russell Baudinette, ARC Committee for International and National Cooperation, (IREX and RIEF Grants), Professor Doug McEachern, ARC Research Training and Careers Committee (Research Fellowships), together with Research Branch staff, will provide information to assist you with applications for year 2001 funding.

Topics to be covered will include changes to the schemes and/or guidelines for 2001, comment and feedback on the 2000 application round and question time to assist in preparing successful applications.

All intending applicants are invited to attend. RSVP and any enquiries to Research Branch: tel 8303 5137

NOTICE TO RESEARCHERS AND DEPARTMENTAL ADMINISTRATORS:

Are you ready for the new millennium?

Departmental administrators and potential applicants for grants for which applications close in the early part of 2000 (including GRDC full applications, SAGITF funding, ARC Large Grants, Fellowships and SPIRT grants, and NHMRC Project Grants and Fellowships) are strongly advised to consider implementing contingency plans to avoid potential problems with the "millennium bug".

If you are a potential applicant for one of the grants listed above or for any other scheme closing early in 2000, or if you are a Departmental administrator, the Research Branch suggests that, prior to the Christmas closedown, you download from the Research Branch web site and store on disk (as well as in hard copy) the 2001 Application Form and Guidelines and Research Branch instructions for the various schemes in which you, or staff from the Department, might be interested when this material becomes available, probably during December for most of these schemes.

The same also applies to grant holders who are required to submit progress or final reports in January 2000 (e.g. to GRDC). They should download the relevant report form(s) before the closedown so they can meet their reporting obligations in good time.

The Research Branch will also store this material on disk and will make a copy available to any Department which requests it.

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

Learn German in Berlin

Departing 19 January 2000, flying Singapore Airlines, returning Wednesday 23 February 2000. Includes 4 weeks tuition at Prolog Language School, 4 weeks accommodation and country taxes, flexible return from most European cities, \$3,750. Be quick, bookings close 3 November 1999. For more information call Susan Boehm, 8303 5236 or email: <susan.boehm@adelaide.edu.au>.

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, 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/departmental_l&t_award.html>.

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



The International Students Support Office would welcome any

Staff or Student

wishing to host International Students for:

- Meals
- Day outings
- Weekends or
- Temporary accommodation

through our

HOST AN INTERNATIONAL STUDENT SCHEME (HISS)

Please contact the International Student Support Office for further information. Telephone: 8303 4828 Email: <melanie.baird@adelaide.edu.au>.

COUNCIL NEWS

Council met on 25 October and, amongst other things:

- noted arrangements for an election by undergraduate students for student members of Council to serve for one year from 6 March 2000 (see the separate notice in this Bulletin Board about the election by the general staff)
- noted that Ms Julia Pitcher has been re-elected unopposed as the postgraduate student member to serve for one year from 6 March
- noted various matters reported by the Vice-Chancellor, in particular regarding
 - the recent leaking of the Minister for Education, Training and Youth Affairs, Dr Kemp's draft Cabinet document about the future of higher education; and subsequent events (see the Vice-Chancellor's Voice column in this *Adelaidean*)
 - the Minister for Industry, Science and Technology, Senator Minchin's announcement of an Australian Science Capability Review, to include basic and applied science, engineering and technology, to be conducted by the Chief Scientist, Dr Robin Batterham; and the National Innovation Summit to be held next year, sponsored by the Business Council of Australia and Senator Minchin's department. The Vice-Chancellor has been invited to be a member of a Group of Strategic Advisors to assist Dr Batterham with the Australian Science Capability Review.
- commented constructively and favourably on an Internationalisation Plan for the University for the years 2000-2002, preparation of which was coordinated by the Pro Vice-Chancellor (Internationalisation and Development), Dr Ashton. The plan will now be finalised.
- approved a final version of a policy for dealing with conflicts of interests, to apply to Council and to University committees with external members
- approved, following endorsement by Academic Board, changes to the process for dealing with undergraduate students who make unsatisfactory academic progress, noting that the new arrangements carry over the existing protections for these students
- resolved, following endorsement by Academic Board, that the University should have a general power to award honorary degrees; and further resolved that the State Government should be approached to change the University of Adelaide Act to effect this
- noted a presentation from the Executive Director, Student and Staff Services, Mr Creagh, about the University's readiness for the year 2000.

The Council agenda, non-confidential minutes and reports to Council from senior managers are available to staff at:
<<http://www.adelaide.edu.au/secretariat/council/1999/meetings.htm>>.

New ARC large grants to University of Adelaide

THE University of Adelaide has won 33 new Australian Research Council (ARC) Large Grants, worth a total of \$5.4m over the next three years. Here is a complete list of the grant winners.

Dr D Abbott, Professor X Zhang, Professor J Munch, Dr T Van Doorn: T-ray imaging system: \$197,000.

Associate Professor AD Austin, Dr DJ Colgan, Dr PK Flook: Mitochondrial gene rearrangements as indicators of shared ancestry within the insects: \$200,000.

Dr DA Bies, Professor CH Hansen: Investigation Of Aerodynamic Noise Generation By A Body In A Turbulent Air Stream: \$176,768.

Dr PG Bouwknecht: Mathematical and physical aspects of quasi-particle excitations in quantum many body systems: \$221,000.

Professor MJ Brooks: Robust 3D-interpretation of uncalibrated image streams: \$189,000.

Dr DW Cameron, Professor M Williams, Dr BJ Pillans, Dr RH Gargett, Dr P Patnaik, Professor TE Cerling, Dr PS Ungar, Dr LJ Flynn, Professor D Pilbeam, Dr P Andrews, Dr CW Groves: Hominid Evolution and Extinctions During the Miocene in the Siwaliks of Indo-Pakistan: \$146,000.

Dr RW Clay, Dr BR Dawson: Implementation of a Large Scale Atmospheric Monitoring System for a

Cosmic Ray Observatory: \$158,000.

Dr SD Connell: Experiment ecology of encrusting marine organisms: \$144,000.

Professor MG Eastwood, Professor CR Graham, Dr TN Bailey, Dr VV Ezhov, Dr JP Slovak, Professor JA Wolf, Dr KP Tod, Dr AR Gover, Associate Professor LI Barchini, Associate Professor AC Cap, Associate Professor G Komatsu, Dr K Hirachi, Dr G Schmalz, Professor R Zierau, Dr A D'Agnolo, Professor TP Branson, Dr F Dillen: Symmetry and Analysis in Differential Geometry, \$60,000.

Professor GB Fincher, Professor BA Stone: The role of hydrolytic enzymes in plant cell growth: \$182,046.

Professor CH Hansen: Novel techniques for optimising the active control of low frequency noise radiated into small enclosures: \$176,768.

Professor RS Hill: Adaptation in the Australian flora: macrofossil evidence for convergence in response to climate change: \$105,000

Associate Professor BK May: mRNA Decay in Mammals: Molecular Studies on the Haem-regulated Degradation of the mRNA for Hepatic 5-Aminolevulinic Synthase (ALAS1): \$182,046.

Associate Professor PB Mayer: The Political Economy of Violent Death in India: \$162,100.

Professor P Mühlhäusler: Small Island

- Big Issues: The changing language ecology of Norfolk Island: \$185,000.

Dr DS Munro, Professor R Morrison, Dr FA Vaughan: Deriving a Family of Distributed Garbage Collection Algorithms: \$169,000.

Associate Professor MK Murray, Dr MA Singer: Bogomolny monopoles, nullarons and chiral Potts: \$178,000.

Dr GJ Nathan, Mr NL Smith, Professor D Zhang, Dr DS Nobes, Dr GJ Newbold: Quantification and Control of Particle Clustering Effects in Two Phase Jet Flows Under Conditions Relevant to Industrial Application: \$192,838.

Dr QD Nguyen, Professor RM Turian: Dynamic Setting Behaviour of Particles in Sheared Flow: \$127,844.

Dr GJ O'Brien, Dr JP Opie: Rethinking the Mind: Connectionism, Consciousness and Mental Content: \$45,500.

Professor JM Oades: Alkyl Carbon in Soils and Sediments: \$150,000.

Associate Professor LM Potter, Emeritus Professor HC Brookfield: Indigenous systems and the estate-crop revolution: monoculture versus polyculture in the new Indonesia: \$123,830.

Associate Professor RJ Protheroe, Professor PL Biermann, Professor W Bednarek, Professor T Stanev: High Energy Neutrinos from Extragalactic Sources: \$206,000.

Dr JW Randles, Dr AM Rezaian: The mechanism of replication of a novel viral DNA satellite: \$132,046.

Dr MR Ripper: Reproductive politics and technologies: the interrelationship between infertility treatments and abortion in rhetoric and clinical practices: \$126,511.

Associate Professor RS Seymour, Professor RV Baudinette, Dr S Runciman: Respiratory and cardiovascular development in birds: \$176,000.

Associate Professor T Sheridan: Industrial Relations in Australia 1950-1968 with special reference to state regulation of the labour market: \$103,000.

Professor RH Symons: Viral and host protein interactions necessary for infectivity and pathogenicity of an RNA plant virus: \$227,046.

Associate Professor PG Taylor, Dr SA Berezner, Professor A Krzesinski, Dr AE Arvidsson: Scalable Dynamic Control of Logical Telecommunications Networks: \$157,000.

Associate Professor JN Timmis, Dr MA Ayliffe: The frequency of chloroplast DNA transposition to the nucleus in plants: \$188,046.

Professor EO Tuck: Flow about high-speed ships and planing craft, including computation of splashes and nonlinear waves: \$181,887.

RESEARCH AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

Research Grants and Fellowships

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

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

University College London - Ramsay Memorial Fellowships for Chemical Research 2000-2002: Internal closing date: 1 November 1999

Juvenile Diabetes Foundation Australia - 1999 Travel Grants for Young Researchers: Internal closing dates: 4 November 1999 and 3 February 2000.

National Breast Cancer Centre - National Multidisciplinary Care Demonstration Project: Internal closing date: 4 November 1999

Department of Industry, Science, and Resources: DISR Science & Technology Awareness Program - National Science Week: Internal closing date: 5 November 1999

Hebrew University of Jerusalem - Golda Meir Fellowship Fund 2000/01 Post Doctoral Fellowships: Internal closing

date: 5 November 1999

Canadian High Commission
 · Canadian Studies Academic Internship Program
 · Program for International Research Linkages (PIRL)

Internal closing date: 8 November 1999.
 Web site: <<http://www.powerup.com.au/acsanz>>

NSW Board of Vocational Education and Training - Research Projects - Expressions of Interest: Internal closing date: 8 November 1999. Web site: <<http://www.bvet.nsw.gov.au>>.

National Institute on Deafness and Other Communication Disorders, USA - Research Grants: Internal closing date: 9 November 1999. Web site: <<http://www.nih.gov/grants/guide/rfa-files/RFA-DC-99-002.html>>.

National Institute of Alcohol Abuse & Alcoholism, USA - Peptide Regulation of Alcohol Intake Research Grants: Internal closing date: 10 November 1999. Web site: <<http://grants.nih.gov/grants/guide/pa-files/PAS-99-156.html>>.

Onkaparinga Catchment Water Management Board - Research & Development Grants: Internal closing date: 11 November 1999

Faculty of Health Sciences Research Committee

· Georgina Dowling Medical Research Associateship
 · Keith Sheridan Medical Research Associateship

Closing date: 12 November 1999

Rockefeller University - Rockefeller Archive Centre Residencies and Grants-In-Aid: Internal closing date: 16 November 1999.

Scholarships

Unless otherwise stated, further information and applications are available from the Student Information Office, Level 4, Wills Building. Please lodge all applications with the Student Information Office unless otherwise stated.

AINSE Postgraduate Supplements: Open to postgraduates whose research is associated with nuclear science, or its applications, and who require access to the facilities at the Lucas Heights Science and Technology Centre. Value: \$7,500pa to scholars who are (or will be) in receipt of an APA or similar award. Closing: 24 November (SIO)

American Association of University Women (AAUW) Educational Foundation International Fellowships: Open to women who are not citizens or permanent residents of the USA to study at the graduate or postgraduate level in the USA. Closing: 15 December (USA)

Charles and June Ross International Fellowship: Open to women scientists who are Australian citizens and have graduated from an Australian university. Tenable for one year in the USA to a full-time graduate or postgraduate to undertake study or research. Applications from AAUW Educational Foundation, Fellowships and Grants, North Dodge Street, Dept 141, PO Box 4030, Iowa City, Iowa 52243-4030 USA, fax: (319) 337 2201, tel: (319) 337 1716 ext 141. Closing: 15 December (USA)

Frank Knox Memorial Fellowship to Harvard: Open to Australian citizens who have recently graduated, or are about to, from an Australian university. Tenable for 1 year with possible extension for a further year. Closing: 10 December (SIO)

International Council for Canadian

Studies - Graduate Student Thesis/Dissertation Scholarship: Open to students in social sciences and humanities who are in the process of preparing their graduate thesis or doctoral dissertation on Canada, to enable them to spend 4-6 weeks at a Canadian university doing research related to their thesis in the field of Canadian studies. Closing: 15 November (ACT)

Mason Family Scholarship in the Communication of Science: For a full-time postgraduate student in the field of Science Communication enrolled in either a Graduate Diploma of Education, provided the student has a degree in Science or Agricultural and Natural Resource Sciences from Adelaide University, or other equivalent university; a Postgraduate Diploma of Science Communication or any other postgraduate degree in Science Communication; or a qualified teacher of Science in schools, who is seeking improved qualifications at Adelaide University. Closing: 12 November (SIO)

RG Menzies Scholarship to Harvard 2000/2001: Applicants must be an honours graduate of an Australian university; be an Australian citizen or Permanent Resident of Australia, and normally reside in Australia and intend to return to Australia after studies at Harvard. Details/applications: Administrative Officer, Council and Boards Secretariat, ANU, Canberra ACT 0200, fax: (02) 6279 8524, email: <cabs.admin@anu.edu.au> or via web page: <<http://www.anu.edu.au/cabs/scholarships/index.html>>. Closing: 31 January 2000 (ANU)

Rural Industries Research & Development Corporation Postgraduate Scholarships 2000: Open to Australian citizens or permanent residents who hold, or expect to hold, an Honours 1 or upper 2A or equivalent. Closing: 15 November (SIO)