

ADELAIDEAN

Vol 7 No 22

NEWS FROM THE UNIVERSITY OF ADELAIDE

DECEMBER 7, 1998

INSIDE

4

Putting pressure on pipe leak problem

5

New subject focuses on indigenous identity

8

Hands on display a first for OH&S

As a world-class wine facility opens...

A \$3.5 MILLION multi-purpose wine science laboratory, regarded as one of the best teaching and research facilities of its kind in the world, has been officially opened at the University of Adelaide's Waite Campus.

The Vice-Chancellor, Professor Mary O'Kane, said the Hickinbotham Roseworthy Wine Science Laboratory would enhance the University's international reputation for research and teaching excellence in oenology, viticulture, wine marketing and wine business.

"It will also provide the Australian wine industry with high-calibre graduates who are better prepared to meet the demands of an increasingly competitive field where knowledge and expertise are paramount," she said.

The wine science laboratory is a University of Adelaide funded venture aided by significant donations from the Hickinbotham family, the McLeod Bequest to the

Faculty of Agricultural and Natural Resource Sciences, industry, SARDI and the Australian Wine Research Institute.

The laboratory incorporates winemaking facilities for undergraduate teaching and post-graduate students and will accommodate visiting scientists and research partners, including the Australian Wine Research Institute and SARDI.

It also has testing facilities, research laboratories and tutorial rooms and a small-lot winemaking facility for critically assessing and evaluating wine for the industry.

A special feature of the laboratory is a state-of-the-art analytical facility where research into grape and wine quality, food processing and essential and edible oil production will be carried out.

The manager of the wine science laboratory, Mr Mark Turnbull, said the project demonstrated the level of



An artist's sketch of the new \$3.5m wine science laboratory. Picture courtesy of Mark Turnbull

collaboration between the University and industry.

"The wine industry's plan for the future, Strategy 2025, clearly states the need for maintaining and improving the technical, marketing and managerial skills of its

workforce at all levels to remain competitive, and it's great to see the University of Adelaide and other key players being a major part of that," he said.

The laboratory has been named after the late Alan Robb

Hickinbotham for initiating Roseworthy's first oenology course in 1936 and Roseworthy for its longstanding universal association with the training of first-class winemakers and viticulturists.

Continued Page 4

Study grants foster close international links

ADELAIDE CITY COUNCIL will award a number of grants to international students studying at the University of Adelaide next year, fostering closer links between the council, universities and students from neighbouring countries.

The University Study Grants are a once-off contribution for the part payment of the selected students' first-year tuition fees.

Students chosen to receive the grants must have been studying at Year 12 (SACE) level in a South Australian secondary school this year, must apply and be accepted into the University of Adelaide or University of South Australia, and must be an international full fee-paying student from the Asia-Pacific region.

Interviews with a number of candidates have already been held, with the successful students announced early next year. Applications for the study grants were received from a wide range of international students whose home countries include China, Hong Kong, Indonesia, Japan, Korea and Singapore.

The University Study Grants are being offered for the first time by the Adelaide City Council.

"Hopefully these scholarships will become clearly identified among

international students as exciting opportunities to focus their attention on Adelaide and its wonderful educational facilities," said Adelaide Lord Mayor Dr Jane Lomax-Smith.

"Adelaide is an ideal University City—its facilities are excellent and the city offers many advantages to international students, especially relating to the cost of living."

The Adelaide City Council has been working closely with the University of Adelaide's International Programs Office in finalising the details of the study grants and conducting interviews with candidates.

"This is an important move by the Adelaide City Council because it benefits the students, the universities and the city as a whole," said Ms Vivien Hope, head of International Student Support at the university.

"It's an extra incentive for the international students to stay in Adelaide for their undergraduate degree, rather than moving to Melbourne or Sydney. And it shows that we welcome and value their contribution to Adelaide and its future."

The exact number and amount of the grants will be determined in January 1999.

—David Ellis

...ARC grants provide a boost to wine research

WINE RESEARCH equipment worth \$350,000 is part of the more than \$10 million in new research funding won by the University of Adelaide from the Australian Research Council.

The University's position as a national leader in wine research was bolstered by the latest ARC grants announcement, which included funding for the state-of-the-art analysis equipment.

The equipment will aid research into grape and wine processing and innovation in wine production.

Three other grants also support the wine industry, with Economics Professor Kym Anderson winning a \$146,000 Large Grant to research the future of the Australian Wine Industry.

Two Strategic Partnership with Industry: Research and Training (SPIRT) grants were won by the Department of Horticulture, Viticulture and Oenology.

The announcement of the ARC grants came on the same day as the official opening of the new \$3.5 million Hickinbotham Roseworthy Wine Science Laboratory at the Waite Campus.

The Vice-Chancellor of the University

of Adelaide, Professor Mary O'Kane, said it was gratifying for the University's focus on the wine industry to be rewarded at such a time.

"These grants reflect the University's position as a major international contributor to research and teaching in the wine industry," she said.

"Many of our other researchers have also been recognised, with physiologists being particularly successful with the ARC grants and also last week's NH&MRC grants and fellowships."

University researchers investigating areas as diverse as human behaviour and plant biology won ARC Large Grants worth \$5.3 million over three years and ARC Small Grants worth \$1.7 million.

Nine researchers were awarded prestigious Australian Research Fellowships. Fifteen new SPIRT grants, worth \$700,000 in total, were awarded to support work with industry.

The University is also a partner in eight new grants worth \$2.2 million, funded under the Research Infrastructure Equipment and Facilities Program.

—David Washington



War and Peace

One, two,
peer review.
Three, four,
not any more.
Five, six,
pick up sticks!

It's time to take up cudgels on behalf of the Australian research system which is underpinned by international peer review.

I mentioned the rumoured green paper in my last column. It is clear that alliances are now being formed and many of the great academics of Adelaide are working hard to point out to Ministers that scrapping international peer review will damage Australia's research credibility. It would certainly represent a blow to the University of Adelaide which uses its great success in peer reviewed schemes to establish its worth with other funding sources. Yes, we do do well in peer review therefore we are a safe bet for industry investment in our research, which is of truly international quality.

It is heartening that there are many around Australia who clearly think as we do. There have been some interesting articles in the press including a particularly good piece by Janet McCalman in *The Age* on 25 November, "Can higher education get any lower?".

The opposing camp believes that it would be better if all research funds were allocated in block grants to universities which could then distribute their funding according to their own priorities, by their own methods. As a University with long experience of high quality research we know that such a system would quickly lead to the loss of Australia's reputation in international research "circles".

A peaceful respite from battles over research funding is provided by the magnificent new Sensory Garden in the Urrbrae House Historic Precinct which was opened recently by Malcolm Campbell. Indeed the opening was the highlight of the very successful Urrbrae House Open Day on 22 November.

The Sensory Garden is the first of four innovative gardens planned for the Precinct, with the ideas for planting themes developed in a series of community workshops - a truly "consultative" garden! A ceramic panel which forms part of the design is constructed of tiles made and decorated by the artists and residents of the Julia Farr Centre, and celebrates Pete Waite's immigration to South Australia. This wonderful garden is a welcome addition to our busy lives and we extend thanks to the Friends of Urrbrae House and to Jennifer Gardiner, Yvonne Routledge, Peggy Rowe and Mark Pharoah who coordinate the activities of the Precinct and preserve many of the treasures of the University.

MARY O'KANE

COMMENTARY

THE CHINA FLOODS

We have not really heard a great deal about the floods in China, in part probably because for the external world the Chinese Central Government has kept a low profile on the matter. Furthermore, almost everything about China belies the imagination; its history, its size, its population. Whatever the cause, the recent floods, although probably the biggest natural disaster of the decade, receded very quickly from the news. As a result, most of us fail to realise just what a devastating impact they have had. We have heard considerably more about the current crisis caused by Hurricane Mitch and its impact on Honduras.

For much of China, the situation was analogous, albeit on a far larger scale, to what happened earlier this year in East Gippsland. There the area was experiencing a severe drought leading into winter, and then came the torrential floods. Stock which had survived the drought were singularly ill-equipped to cope with cold and wet weather simultaneously so many of them perished. When the drought broke in China, it did so with a vengeance, with the resulting floods classed as the worst for forty years.

China experienced enormous flooding in 1931, when an estimated 200,000 people lost their lives. The next really serious flood was in 1954, when some 36,000 lives were lost. Hu Angang, from the China Academy of Sciences, has estimated that the damage from these recent floods is 10 times heavier, based on constant prices, than in 1954, with the cost expected to be as much as \$US36 billion, or four percent of the gross domestic product. Paradoxically, loss of life has been much less, with the latest estimate standing at more than 3600.

Central China is dissected by the country's largest river, the Yangtze. In the north the Yellow River, historically another source of major floods, flows out from the yellow earth plateau and then makes its way across the North China Plain. In the north-east a third great river, the Songhua, also flows east. Flow rates in these rivers at the peak of the floods were astronomical. At the fifth flood crest, the Yangtze flowed at a rate of 56,900 cu m/sec, and at its third and greatest crest, the Songhua flowed at 17,300 cu m/sec. By comparison, the current flow for the River Murray as it enters South Australia is a minuscule 40 cu m/sec!

Covering 1.8 million square kilometres, the Yangtze basin holds more than one third of China's population of 1.2 billion, and the equivalent of 40% of China's total industrial and agricultural output. Thus it is not surprising that in this region alone, the direct economic losses have been at least \$US24.1 billion, and more than 240 million people have been affected, together with the nationwide loss of 23 million head of livestock.

Damage began in the upper western reaches and spread inexorably eastwards following the river systems, with the heaviest damage in the eastern plains. The situation has been exacerbated by an age-old problem. Peasants' desperate efforts to coax crops from steep slopes create more and more soil erosion, and in the Yellow River for example, each year about 1.5 billion tonnes of soil is sent into the river, which now runs brown. Erosion from upstream has been deposited as silt in the lower flood plains of China's huge rivers and has further added to the difficulties with flood mitigation. It is a process that began thousands of years ago, and with which China is only just beginning to come to terms.

In the headwaters of the Yangtze and its tributaries, the Government has now imposed complete bans on logging, and launched mass reforestation projects. Illegal logging denudes some 440,000 hectares of forest each year. The China Daily reported a Hubei forestry official as saying that "One of the biggest lessons we have learned from the flood is that

by
Dr Peter Hornsby
Psychology

afforestation and water and soil conservation are a key to avoiding a repeat of the havoc in the future".

The floods began in late May and early June, and reached their peak in late August and early September. Nevertheless, despite falling flood waters, some 2.9 million Chinese are still living on dykes in central and south-east China. As the floods recede, they are leaving behind contaminated living areas and polluted water supplies, with the increasing threat of disease epidemics. It is estimated that after the 1954 floods, 30,000 people died from contagious diseases after flood waters receded. High population density and poor sanitary conditions in the temporary enclaves have already led to outbreaks of typhoid, cholera and dysentery. Rats, fleeing with the people, also have caused the spread of haemorrhagic fever, an untreatable viral disease. Sun Baiqiu, Vice-President of the Red Cross Society of China, has warned that "the danger of large scale epidemic outbreaks still exists". Another crucial problem is that with approach of winter in the north, people there are already succumbing to flu and pneumonia.

The scale and severity of the floods mean an enormous task for the relief operation, both from within China and from overseas. The United Nations World Food Program has launched its first ever emergency relief operation in China. The four month operation will cost an estimated \$US87.7 million. Part of the plan will be the provision of 247,000 tonnes of rice, on top of the 100,000 tonnes the Chinese Government had distributed from its own stockpile. Meanwhile the Beijing-based UN Disaster Management Team has reported that donations from Chinese at home and abroad have topped \$US135 million. The team has identified one of the greatest needs as insulated tents to house the homeless as winter approaches, with between 200,000 and 300,000 tents needed. The Red Cross Society of China also has received \$US13.9 million in cash and relief items.

In early September, the International Federation of Red Cross and Red Crescent Societies announced it was doubling its aid for the flood victims, and appealed for help in raising money. They were planning to send aid for two million Chinese, double the number first envisaged, and was calling for \$US5 million to supply water purification tablets, food and blankets. An earlier appeal in July had already raised six million Swiss francs (\$US4 million) At the same time, the Chinese Ministry for Civil Affairs had distributed over \$US24 million in donated cash, and relief materials valued at \$US5 million, while the Red Cross Society of China and the China Charity Federation had distributed a massive \$US204 million to the flood-ravaged areas. Meanwhile, the Japanese Government had donated \$US700,000 plus a large supply of tents, generators and water-purifying equipment. Substantial contributions have also come from Hong Kong, the United States, Canada and France.

While much has been done, there still remains an enormous demand for aid both from within China and from overseas. As was pointed out earlier, while the initial problem was physical damage and displacement, the major humanitarian impact, in terms of disease, is only just now beginning to emerge.

Please do not hesitate if you feel you are able to come to the aid of what after all is our largest neighbour. More people than the total population of South Australia are still in desperate need.

Donations should be made payable to the Australian Red Cross (China Flood Relief Appeal) and sent to the Australian Red Cross (GPO Box 9949, ADELAIDE, SA 5001). Amounts greater than \$A2.00 are tax deductible. Receipts will be sent to all contributors.



ADELAIDEAN

John Edge
Editor

Julie Ryke
Layout

Printed by
Cadillac Color

The newspaper of The University of Adelaide

Writers
David Ellis
David Washington

Contributors
Tony Cox
Anne Lucas

Room G07 Mitchell Building, South Australia, 5005. Tel (08) 8303 5174; Fax (08) 8303 4838; Email: jryke@vco.adelaide.edu.au
WWW: <http://www.adelaide.edu.au/Adelaidean/home.html>
Material may be reproduced without permission but full acknowledgement must be given to the *Adelaidean*.

Dental healing work honoured

Four years ago, the ESPE Company of Seefeld, Germany set up an award to recognise the research work carried out over many years by Dr Graham Mount at the Dental School in Adelaide.

Last month, the 1998 Graham Mount/ESPE Award was presented to Dr John MacIntyre for two papers on the effect of fluoride in slowing down the progress and assisting in the remineralisation, or healing, of the carious lesion—part of an ongoing series arising from Dr MacIntyre's internationally recognised work in this area.

In the past it was considered necessary, even with an initial lesion, to adopt a surgical approach and remove a considerable amount of tooth structure to remove the lesion. The result was the preparation of a relatively large cavity to treat even the smallest problem.

The integrity of the crown of the tooth is often weakened by this

preparation and ultimately the remainder is subject to further breakdown under the continuing load of chewing.

Now research both here and in Europe is beginning to highlight the potential for healing a carious lesion, particularly if it can be identified in the early stages, says Dr Mount.

"It has been known for many years that fluoride is important in increasing the resistance of enamel and dentine to the acid attack which leads on to the development of cavities. In recent years it has become apparent that this is not the only advantage of fluoride.

"Demineralised tooth structure will remineralise more readily in the presence of available fluoride because it will act as a type of catalyst and facilitate the laying down of further calcium and phosphate ions, which can be derived from the saliva, thus leading to the

potential for healing a cavity," Dr Mount said.

Dr MacIntyre's work has concentrated on determining the mechanisms of remineralisation and methods of making further fluoride ions available to assist in the healing process. Further research at the Dental School is exploring the development of methods and materials most suitable for enhancing this process.

"It is now becoming apparent that a relatively new restorative material, glass-ionomer, is capable of releasing fluoride ions as well as additional calcium and phosphate ions, and it is thought this will lead to an even greater ability to heal caries.

"This in turn will lead to a much more conservative approach to the treatment of a cavity, with the conservation of a great deal of natural tooth structure," Dr Mount said.

Mech Eng students show their expertise

ALL THINGS WEIRD, wonderful, exciting and practical—and more—were on display at the recent Mechanical Engineering Student Project Exhibition.

The annual exhibition gives undergraduate students the chance to show their peers, staff and the public their research projects and win prizes for their efforts.

This year's projects ranged from the design of a tricycle for the 1999 Australian International Pedal Prix (pictured), to a satellite launch vehicle, or reducing the noise from an aircraft's exhaust.

First prize went to David McIver for his project, "Modelling of Irrigation Systems for Optimal Component Selection".

Second prize was awarded to Marc Jericho and Josh Lock ("Adaptive Noise Control for Exhaust Stacks"), while third prize went to Karen Suter ("Design and Development of an After Market Automobile Suspension Component").

This year, the CRC for Materials Welding and Joining presented an award to Simon Belcher and Anthony



Schaeffer for the "Design and Construction of a Friction Stud Welding Machine".

Mark Symes and Stuart Zeuner received first prize in the MechTest Awards for the "Infrared Temperature Decay Monitoring of Spot Welding",

and Ben James took second prize for the "Stress Analysis and Design of a Prototype Stretcher Bridge".

The main prizes were again sponsored by Mobil Refining Pty Ltd and the South Australian Centre for Manufacturing.

Luminis—catch us on the net

LUMINIS, the commercial arm of the University of Adelaide, has launched a new web site.

The new site—which can be found at www.luminis.com.au or by clicking on the Luminis HOTLINE of Business Links in the University of Adelaide web site—offers the benefits of online information for staff and students relating to:

- University policy on Consultancies and Contract Research
- hotlinks to Government and Aid Agency tender sites
- on line access to "Consultancy Proposal" forms
- hints on short CV preparation for consultancy bids
- the commercialisation process for intellectual property
- time efficiency

Luminis, in conjunction with the University of Adelaide, has elected to link its sight to the SPIN/SMARTS/

GENIUS CV database system developed by INFOED.

This system has many benefits to both the individual, Luminis and the University.

It will provide one central place for all staff to record their CV and hence remove the need for duplicate submissions of your CV to various departments; allow Luminis and others to search for personnel based on their "keywords" and expertise; provide automatic updates of research funding opportunities; allow matching of expertise with commercial development opportunities.

The database is maintained by the individual and easily updated, thereby ensuring information is correct. Information can be easily entered by cutting and pasting from your current CV.

Luminis is particularly interested in consultancy and contract research experience and capabilities. These

can be entered under the "Sponsored Funding" (Consultancies and Contract Research) heading and should be presented in a descriptive manner including sponsor (if not confidential), period, title, value, length of project (person months input), project aims and outcomes.

The site also offers information to potential external clientele relating to Luminis's role within the University, the services offered and examples of commercialisation successes.

If you have any comments relating to the web site or suggestions of any additions that will help service your potential clients please do not hesitate to contact us.

This can be done via the website (please remember to configure your computer to use Netscape mail) or by calling Andrew Cecil on 8303 6753.

—Andrew Cecil, Business Development Manager, Luminis

NEWS IN BRIEF

SURGEON APPOINTED TO ASIA PACIFIC ORGANISATION

Associate Professor Robert Bauze, Head of Orthopaedics at The Queen Elizabeth Hospital, has been elected president of the Western Pacific Orthopaedic Association (WPOA) at its 12th Triennial Congress in Fukuoka, Japan.

Professor Bauze has been instrumental in establishing exchanges with surgeons from Asia.

Over the next three years Professor Bauze expects to bring the WPOA Secretariat to Adelaide and will work to expand the membership and networks of the Association.

Adelaide will also host the 2001 Congress of the WPOA, with more than 1000 orthopaedic surgeons from Australia, Asia and around the world expected to attend.

DALCROZE EURHYTHMICS SUMMER SCHOOL

Once again the popular Dalcroze International Summer School will be held in Adelaide from 18-22 January, 1999, at the University of Adelaide's Madley Dance Space.

The Dalcroze Eurythmics Summer School offers a unique music learning discipline which introduces students to the physical expression of music—linking body and mind.

The five-day Summer School consists of a series of classes in movement, improvisation, voice training, teaching techniques and related arts. Information from Ruth Saffir, 8463 3473.

LOWER LEVEL SITE PLANS AVAILABLE

The Final Sketch Plans for the University of Adelaide's new Science Building have now been developed.

The plans are available for viewing by all staff and can be found at Property Services on the 9th floor, 10 Pulteney Street.

NEW STAFF EMAIL AND CALENDAR SYSTEM

A new, universal electronic mail and calendaring service for University of Adelaide staff will be launched early in 1999.

The system, based on the Netscape suite of products, will provide improvements in integration with web services, email delivery, management and consistency for the users.

All staff will automatically be included in this new system. Further details will be available in 1999.

RADIO 5UV NEWS

University Radio 5UV received a number of awards in recognition of its achievements in programming and training at the recent conference of public broadcasters at the University of Adelaide.

The conference was the first of its kind held in the city of Adelaide and helped confirm 5UV as one of the nation's best public radio stations.

5UV will be holding its traditional Christmas drinks on the banks of the Torrens near the Uni footbridge on Friday, 18 December from 5pm. All staff are invited to attend.

Meanwhile, 5UV is selling off a substantial part of its classical vinyl record library at a sidewalk sale on Friday, 11 December from 9am. All records are only \$1 each and there are some mint copies among them.

Putting pressure on pipe leak problem

ACCORDING to Angus Simpson, senior lecturer at the University of Adelaide's Department of Civil & Environmental Engineering, most metropolitan water supply systems leak water at a phenomenal rate—a serious problem right under our feet that few people are even aware of.

Over the last three years, Dr Simpson has been developing ways of detecting leaks in water distribution systems with American researcher Jim Liggett, Emeritus Professor of Civil & Environmental Engineering at Cornell University in the US. Dr Martin Lambert, a lecturer in Dr Simpson's department, has also recently joined the research team.

Estimates of loss rates for most cities worldwide range from 5% to 15%, but in some cases it can be as high as 50%. In the past, water losses of up to 20% were tolerated, but now that the costs of building and operating water works are rising, and community concerns about the environmental impact of new water storages are growing, water utilities have begun taking a long hard look at the cost of leakages.

Recent estimates of water loss within Australia put the cost at about \$65 million each year. About half of this amount relates to the cost of detecting leaks using existing methods.

Drs Simpson, Liggett and Lambert hope to change all this by not only

finding the leaks which are wasting water but also by finding them much more cheaply. Furthermore, by monitoring pipeline networks, they expect to find leaks when they are small, thereby reducing the likelihood of catastrophic bursts which may destroy roads and properties.

The process of detecting leaks firstly starts by opening and closing a valve to induce a small pressure pulse, known to researchers as a transient event (otherwise known to householders with thudding pipes as "water hammer").

The returning pressure waves are monitored by pressure detectors placed at various points in the pipe network. Because leaks reduce the strength of the pressure pulse returning, it is possible to determine via a form of computerised analysis, known as inverse transient technique, whether a pipe is leaking and how severe the leak is.

The research team anticipates that by combining data collected at all the detection points, the computerised numerical modelling technique will also be able to locate where the leak is.

The same process can be used to determine the roughness of the pipe's interior surface. This information is critical in determining the sizes of new pipes needed to ensure an adequate supply of water in a new area and for the replacement of existing

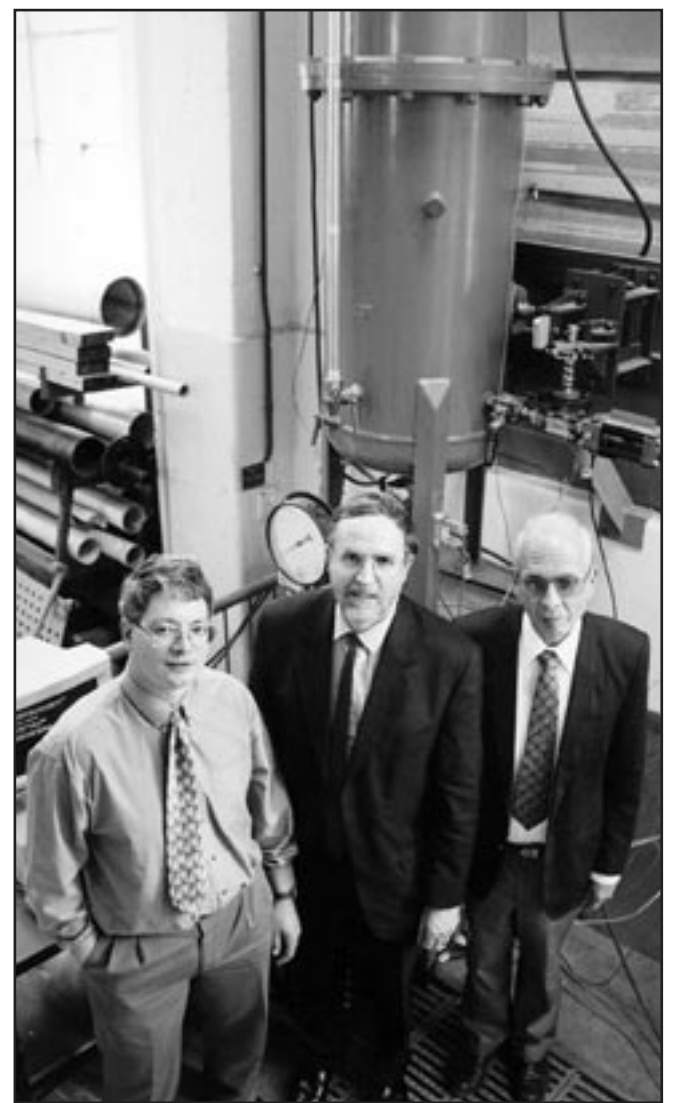
supply lines.

The leakage detection work began with Professor Liggett in the United States as theoretical research. When this work took on practical dimensions, he approached Dr Simpson in Adelaide for assistance because of his experimental expertise with transient flow in pipelines.

In 1996 the research effort was transferred to the University of Adelaide for a series of laboratory trials which are still under way. One focus of this work is to determine how many pressure detectors are needed in a system and where they should be placed in order to give reliable data at minimal cost. Contributing significantly to the work is PhD student John Vitkovsky.

The next stage involves a field trial using pipeline network systems in Adelaide, in addition to further numerical modelling development work. This research is being funded for the next three years by an Australian Research Council grant of \$239,000.

The team expects that the same methods could be used for detecting leaks and illegal water use in irrigation systems, and it could also be applied in other pressurised pipeline systems like oil and gas, as well as the supply lines of large machines and chemical factories.



Martin Lambert, Angus Simpson and Jim Liggett.
Photo: David Ellis

—Tony Cox

World-class wine facility opens

From Page 1

The Hickinbotham Roseworthy Wine Science Laboratory was officially opened by the Deputy Premier, Mr Rob Kerin, on Tuesday, 1 December.

Speakers at the opening included Professor Mary O'Kane, Professor Malcolm Oades (Dean, Faculty of Agricultural and Natural Resource Sciences), Mr Brian Croser (President, Winemakers' Federation of Australia) and Professor Peter Høj (Professor of Oenology and Director of the Australian Wine Research Institute).

—Anne Lucas

DRY/WET cycle comes to life on CD-ROM

A NEW COMPUTER model can now help assess the potential environmental damage caused to inland rivers by irrigation.

Called DRY/WET, the computer model is aimed at providing pastoralists, irrigators, water resource managers and conservationists with detailed information about how irrigation affects rivers.

The name DRY/WET reflects the flood/drought cycles of inland rivers. Over the last few years there has been a national debate over proposals to establish irrigation on two of these rivers: Cooper Creek and the Paroo.

"Water withdrawals from the Murray-Darling rivers have caused

many environmental problems," said Mr Jim Puckridge, Principal Scientific Investigator on the project.

"If we are going to make wise decisions about using the waters of the arid zone, we must understand the likely ecological costs".

Mr Puckridge said the DRY/WET computer model utilised a unique database gathered over five years in the Coongie Lakes region of the lower Cooper.

"This database links river flow with responses of fish and other animals, and can be used to predict what effects water withdrawals would have on these creatures of the river."

The DRY/WET model on CD-ROM will be launched by the South Australian Minister for the Environment, the Hon. Dorothy Kotz, at 10am, 8 December in the North Dining Room, 4th Floor of the university's Union Building.

Industry representatives, water resource managers, conservationists and pastoralists are all invited to the launch.

The project—which involves the CRC for Freshwater Ecology at the University of Adelaide's Department of Zoology and the University of Melbourne's Department of Geomatics—is funded under the National Wetlands Research & Development Program.

Advertisement

Todd Partners

Sharebrokers and Investment Advisors

Providing a range of services including:

- Construction of Tax Effective Portfolios
- Superannuation and Retirement Planning
- Buying and Selling Shares
- Maximising Social Security and Veterans' Affairs Pensions
- Rollover Fund Options
- Allocated Pensions

For a free, no obligation consultation, with one of our experienced advisers please telephone Petra

8205 5700

Website www.todd.com.au
Member Corporation of Australian Stock Exchange



FINANCIAL PLANNING ASSOCIATION
OF AUSTRALIA LIMITED PRINCIPAL MEMBER

33 Waymouth Street, Adelaide SA 5000
Todd Partners Stockbroking Pty Ltd (ACN 008 082 157) is the holder of Dealers Licence No. 10788
Trading as Todd Partners

Advertisement

Academic Products Academic Prices



CAMPUS COMPUTERS

University of Adelaide Telephone: 08 8303 3320 Email: shop@campus.com.au

Internet provider supports research

AN INTERNET access provider is doing its part to support medical research at The Queen Elizabeth Hospital.

My Way Internet, a South Australian company, is donating a percentage of its profits to The Queen Elizabeth Hospital Research Foundation.

Each new customer who signs up with My Way will add to the total funds donated to the Foundation.

The head of the Research Foundation, Mr Maurice Henderson, said those funds would be used to support research activities at the hospital, much of which is University of Adelaide research.

"Customers of My Way are in a sense doing their part to give vital support to medical research at The Queen Elizabeth Hospital," Mr Henderson said.

"The aim is to raise \$15,000 a year, which will enable us to fund the work of a PhD student at the hospital."

My Way Internet offers two connection packages: \$20 per month (unlimited access time and 35 cents per MB download) or \$50 per month (50 hours access, 200 MB download).

Both packages include a free email account, unlimited daily log-ons, newsgroups, 2MB of free web space, and support.

For more information call 8222 6824 or 8326 8601.

New subject focuses on identity

A NEW SUBJECT dealing with issues of identity for Indigenous Australians and other indigenous peoples will be offered at the University of Adelaide next year.

"Indigenous Identities and the State" will be taught by Anthropology lecturer Dr Suzi Hutchings, an Arrente woman who obtained her PhD from Adelaide University in 1995.

Dr Hutchings, 36, said the subject would examine how indigenous peoples cope with encroachment of their identities and cultures by dominant societies. While there will be a focus on indigenous Australians, comparisons will also be drawn with Maori, Native American and African peoples. The course will draw on the theoretical perspectives development around ethnicity, race and identity.

"Indigenous Australians constantly have to prove who we are, but for other minority groups in Australia this is often not the case," Dr Hutchings said.

"The onus of proof has been on indigenous Australians throughout post-invasion history. The double-edged sword is that by stating we are Aboriginal, we are also open to control.

"One of my interests is in looking at the implications of proving Aboriginality. On the one hand, it gives us the freedom to be who we are and to be proud of it. But we are also open to all kinds of sociopolitical controls, such as those experienced by the Stolen Generation, scrutiny by welfare, and the higher likelihood of being incarcerated in the prison system. In fact, from the social point of view, once we have declared our Aboriginality we may not even be welcome to live in a particular area.

"Other people are not scrutinised by government to the same extent," Dr Hutchings said.

"Why not? Because the issue goes right back to the first days of invasion, to the suppression and control of indigenous peoples by State and Federal governments. The present situation for many indigenous Australians is a legacy of this past."

Dr Hutchings has been developing the 'Indigenous Identities and the State' subject since July of this year. She hopes the new subject "will demonstrate to both Aboriginal and non-Aboriginal people the power indigenous Australians have in controlling their destinies".

As well as lecturing in Anthropology, Dr Hutchings currently provides consultancy services in the area of Native Title, and to the Family Court and Youth Court through the Aboriginal Legal Rights Movement and the Legal Services Commission.

She completed her tertiary studies through Wilto Yerlo (Aboriginal and Torres Strait Islander Programs at the University of Adelaide) and is keen to see more indigenous Australians obtaining tertiary qualifications.

"We definitely need more Aboriginal and Torres Strait Islander anthropologists," she said.

"There is so much important work to be done for Native Title claims, and we should not be relying only on non-indigenous anthropologists to portray Aboriginal cultures, stories and history. Anthropology also provides a formula for empathetic understanding of other peoples' cultures.

"Whatever their area of interest, I



Dr Suzi Hutchings. Photo by Jo Shearer

encourage all indigenous Australians to consider tertiary education. We do not lose who we are by taking on university study, because it enhances our ability to be who we are in the wider world—an often hostile world," she said.

The subject "Indigenous Identities and the State" is open to students in a social science or humanities course in the Faculty of Arts and is also open to cross-institutional enrolments.

More information can be obtained by calling Dr Hutchings free from anywhere in Australia on 1800 651 763.

—Jo Shearer, Wilto Yerlo

What's in a name?

SOME NAMES will be changing around the University of Adelaide from 1 January.

Following on from the restructuring begun in 1996, each of the six academic Divisions will now be known as Faculties, and the various individual faculties currently within each Division will be known as Schools. Below is a table showing the changes, which have been approved by Council.

NEW	OLD
Faculty of Agricultural and Natural Resource Sciences	Division of Agricultural and Natural Resource Sciences AND Faculty of Agricultural & Natural Resource Sciences
Faculty of Engineering, Computer and Mathematical Sciences School of Engineering School of Mathematical Sciences	Division of Engineering and Mathematical Sciences Faculty of Engineering Faculty of Mathematical and Computer Sciences
Faculty of Health Sciences Dental School Medical School	Division of Health Sciences Faculty of Dentistry/Department of Dentistry Faculty of Medicine
Faculty of Humanities and Social Sciences	Division of Humanities and Social Sciences AND Faculty of Arts
Faculty of Performing Arts, Law, Architecture, Commerce & Economics (PALACE) The Elder Conservatorium School of Law School of Architecture, Landscape Architecture and Urban Design School of Commerce School of Economics Graduate School of Management	Division of Performing Arts, Law, Architecture, Commerce & Economics (PALACE) Departments within the Faculty of Performing Arts Faculty of Law/Department of Law Faculty of Architecture and Urban Design/Department of Architecture Together, were Faculty of Economics and Commerce and known as Department of Commerce, Department of Economics and Graduate School of Management
Faculty of Science	Division of Science AND Faculty of Science

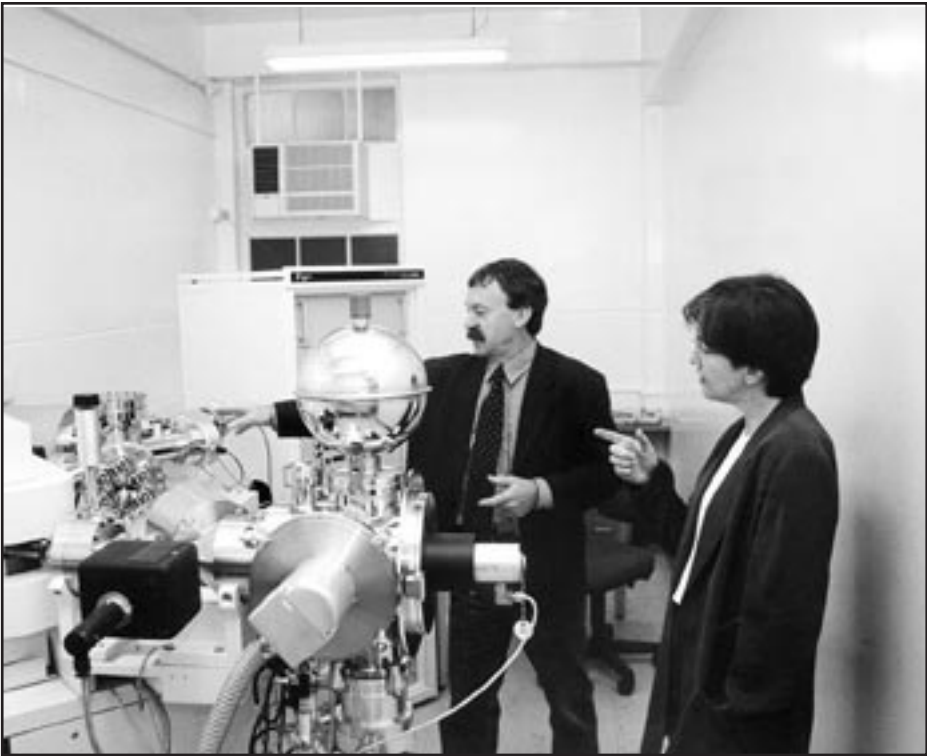


Photo by Ian Roberts

Geology hardware revealed

GEOLOGY & GEOPHYSICS has unveiled its new \$700,000 mass spectrometer, which has provided a welcome boost to the department's research facilities.

The instrument (pictured, being shown to the Vice-Chancellor, Professor Mary O'Kane, by Geology senior lecturer Dr John Foden) is an important part of the department's isotope analysis facility.

Dr Foden said the new thermal

ionisation mass spectrometer, which was installed earlier this year, would be invaluable to geoscience and environmental geochemistry research at the University of Adelaide.

The instrument was purchased with ARC funds and with the input of the office of the Deputy Vice-Chancellor (Research), the Faculty of Science and contributions from the universities of South Australia and Tasmania.

Selection of a new medical services provider

EARLIER this year a decision was made to outsource the University of Adelaide's Health Service.

During July and August input was sought through an open forum, submissions to the Student Services review and individual comment as to the range of needs which must be met in the future.

In September the University sought expressions of interest from health care professionals throughout Australia in response to a document which was in part shaped by the input received from students and staff.

That process has reached a stage at which those who have expressed an interest in providing a broadened Health Service for the University's students and staff have supplied documentation and made a presentation to the Evaluation Panel.

The presentations by the respondents provided an opportunity to discuss their health care and service provision philosophy, explore the nature of the proposed services and examine how the respondents might integrate with the University community.

It is anticipated that the new Medical Service will be in place early in 1999 and that the location will initially be in the same rooms as the current Health Service. Alternative accommodation options are being considered for the service, and it is hoped that a more open and accessible location can be confirmed in the near future.

The role of the new Medical Service, apart from clinical services, will include working with the allied services which already exist in the University. The Student Union, Counselling, Equal Opportunity

Office, International Programs and the Occupational Health & Safety Unit are some of those who have been interacting with the respondents and who will be assisting the new service to establish appropriate links within the University.

The medical staff in the current Health Service will cease with the University prior to Christmas. They are continuing to meet the needs of current patients including the provision of advice concerning options for their ongoing care.

During 1999, the Evaluation Panel will be encouraging further input from the University community to shape the range of additional services (both specialist and paramedical), and will be monitoring the performance of the new service.

The Evaluation Panel members are: Mr

Ian Creagh (Chair), Director Student and Staff Services; Professor Jonathan Pincus, Convener Academic Board; Mr Tony Siebert, Director Finance and Infrastructure; Ms Sophie Allouache, President SAUA; Mr Ian Cannon, Chief Executive, Adelaide University Union; Mrs Heather Howard, Acting General Manager Client Services; Mr Tom Smith, President, Adelaide Medical Students Society, and Mr Garry Read, Project Manager.

As soon as details are available about the new provider, information will be circulated widely.

For further information or input, contact Garry Read on ext 34638, 0417 878682 or email <gread@registry.adelaide.edu.au>.

—Ian Creagh, Director, Student & Staff Services

Deck the halls...



CHRISTMAS CARDS featuring one of the University of Adelaide's most well known buildings, Bonython Hall, are now available for purchase.

On the card (pictured above) the front doors of Bonython Hall are trimmed with gold and carry a verse from a much-loved traditional Christmas carol.

The cards are available for \$1.25 each from the Public Relations & Marketing Office, room G07, Mitchell Building, or phone ext 35174.

Advertisement

Theory of Everything

CUTTING EDGE research in modern physics is using advanced supercomputers to try to unravel the mysteries of the universe.

Research of this type is currently being performed at the University of Adelaide's Special Research Centre for the Subatomic Structure of Matter (CSSM).

A workshop on the topic will be held at the CSSM from 7-18 December, bringing together a dozen leading international researchers in this field along with local and interstate experts and graduate students.

This international workshop is jointly sponsored by the CSSM and by the National Institute for Theoretical Physics (NITP) for which the University of Adelaide is also host.

All of our current understanding of the physical universe is based on four fundamental forces: gravity, electromagnetism, and the so-called "strong" and "weak" interactions.

Gravity holds us to the earth, the earth in the solar system, and the solar system in our galaxy and gives rise to black holes and the curvature of spacetime.

Electromagnetism is the most easily manipulated force at the human scale and is aggressively exploited in all of our modern technology through electronic and optical devices.

The "strong" interaction very tightly binds together the protons and neutrons in the atomic nucleus and fuels the sun and all of the stars in the universe.

The "weak" interaction is indeed the weakest of the four forces. It leads to radioactive decay and is unique in that it interacts with matter in a "left-handed" way and hence differentiates at the subatomic level between mirror images of the same particle.

A "Grand Unification" of these four fundamental forces is the appropriate identification of these forces as different facets of a single force, described by a single elegant mathematical theory referred to as the "Theory of Everything" (TOE).

There is as yet no clear consensus on a TOE, but the unification of three of these forces (strong, electromagnetic, and weak) into a single theory known as the "Standard Model" has been achieved.

The Standard Model is a powerful mathematical theory and has passed all experimental verification tests to date, including those at large particle accelerators where particles are accelerated to very close to the speed of light before being brought into collision with each other.

However, the theory is so complex that there are regimes where the theory should be tested against experiment, and yet we are unable to properly solve the theory in order to compare it to our observations.

This is why the world's largest and fastest new supercomputers are being brought into the picture. They will help us solve the theory in those difficult regimes and hence further test the Standard Model. It is the ongoing intensive search for a failing or flaw in this, the most successful physical theory ever devised, that holds the most promise for lighting the path to the true Theory of Everything.

—Dr Tony Williams, Deputy Director, CSSM

A public lecture on this subject aimed at high school students and the general public will be given by Professor Greg Kilcup (Ohio State University) at the University's Flentje Lecture Theatre—7.30pm, Wednesday 9 December. Admission is free.

Advertisement

Put yourself in the spotlight
HOST A CONFERENCE

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

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

So if you are involved in a specialised field of research or study and wish to grab the attention of the world, contact Lyndal Sterenberg, Business Development Manager - Universities at ACTA on (08) 8212 4794 or e-mail: actauni@acta.sa.com.au

ADELAIDE
Convention & Tourism Authority
AUSTRALIA

u
n
i
k
i
d
s

LOOKING FOR
QUALITY CHILDCARE?

Individual, homely care for babies
Safe, active play for busy toddlers
Fun learning for preschoolers
Nutritious and delicious cooked meals
Close to the city, easy parking

*Fees starting from	\$12	to	\$22.50	1/2 Day
	\$20	to	\$39	Full Day
	\$90	to	\$185	Full Week

*Depending on Child Care Assistance/Medicare Childcare Rebates Applies.

Gilberton & Rose Park
8332 1791
community based

Harry Medlin to step down as Alumni Chair

INAUGURAL CHAIR of the Alumni Association Dr Harry Medlin announced at the Alumni Association Annual General Meeting that he would be stepping down as Chair of the Association from 31 December 1998.

Alumni Association President (and Chancellor) Mr Bruce Webb thanked Harry warmly for both his address to the meeting and his outstanding and longstanding contributions to the University's alumni relations.

Association Vice-Patron Dr Ivan Jarrett, a former President of the former Adelaide University Graduates' Union (the Association's predecessor body) also thanked Harry, on behalf of all alumni, for his "nurturing of a seed" so as to ensure that the Alumni Association succeeded. The remarks of both the Chancellor and Dr Jarrett were endorsed by acclamation.

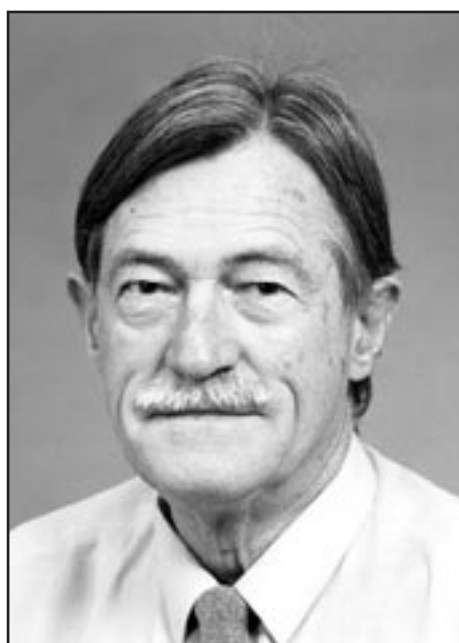
Dr Medlin has been Chair of the Association since its inauguration on 5 July 1985 and as Chair of the former Graduate Affairs Committee

drafted the original Association constitution and worked with the first Graduate Affairs Officer to set up and establish the Graduate Affairs (now Alumni) Office.

Under his leadership the Association has built for the University and from scratch a database with some 50,000 plus records, has involved some 300-400 volunteers over the last 13 years and established 12 chapters.

A program of recognising the University's alumni was introduced through Distinguished Alumni Awards and students' academic achievements are recognised through the Alumni University Medal and a HECS Exemption Scholarship.

Postgraduate students now have access to the Mutual Community Postgraduate Travel Awards which come from an innovative relationship marketing program and senior alumni come back to the University to celebrate the Golden Jubilee of their graduation.



Since 1985 some 2700 alumni have joined the Association and a solid foundation for the future has been established.

An announcement will be made early in 1999 about a function that is to be held to recognise Dr Medlin's leadership and contributions to the University's alumni relations.

—Geoff Sauer, Director,
Alumni Association

Missing Alumni: 1949 graduates

THE ALUMNI OFFICE is starting the search for missing Alumni who graduated from the University of Adelaide in 1949. If any one knows the whereabouts of the following 1949 Golden Jubilee Graduates could they please ring Judy Benson at Alumni, tel (08) 8303 4276. Graduates from other faculties will be published in later issues. Thank you.

MBBS:

Coates, Dorothy Ravelle
Ducray, Suzette Eleanor
Earl, John Alfred
Harris, Ian Antrobus
Hill, Douglas Henry
Lilburne, Geoffrey Douglas Roland
Lovall, Keith Everett
McRobert, Helen Angus
Miller, Leslie Gordon
O'Connor, Diana Jeanne
Opit, Louis Jonah
Russell, Ernest Alfred David
Schudmak, Henry
Scobie, John Hedger
Souter, Douglas Tod
Stam, Robert Edward
Thomas, Alfred John Thorley
Tregonning, Donald John Kennedy

Master of Medicine:

Kelly, Thomas Davis

LLB:

Goode, Jilien Mary (née Roberts)
Nobbs, William David
O'Loughlin, Kevin Thomas
O'Sullivan, James Davis
Ward, Kevin James

BAGSc:

Mattner, Philip Edward
Till, Maxwell Roy

BEC:

Gray, Harvey Hamilton
Simmons, Donald William
Jacobs, Alan Brian
Hieser, Ronald Oswald (Hons)
Howard, Donald William Digby (Hons)

Dip Com:

Arnold, Raymond Borman
Beauchamp, Shirley Francis
Blanch, Clement Edward
Brice, Malcolm Hubert
Cobiack, Gerald Patrick
Crump, Hedley Lawrence

Curtis, Lawrence Gordon
Evans, Ronald Dennis
Farrell, Edward William
Forrest, Peter Cameron
Frost, Ernest Martin
Hill, Patricia Pender
Howard, Cornelius James
Howard, Leonard Marie
Howard, Paul Francis
Jaunay, Donald Robert
Johnson, Douglas Oswald
Johnston, Verner
Kelly, Brian Patrick
King, Norman Reginald
Knox, Rex
Loneragan, Eric Norman
Newbold, Murray Charles Lewis
Oakley, Lyle Beresford
Pounsett, John Lenton
Rippin, John William
Roberts, Kenneth James
Rush, Douglas Bartlett
Smith, Dawn
Smith, Kenneth Brian Innes
Thompson, Jack
Thompson, Terence Dudley
Tilbrook, Kevin Townsend
Treloar, Ronald William
Whittenbury, Vernon Frank

ALUMNI ASSOCIATION AFTER HOURS PARKING PERMITS

Available now from the Alumni Office.

Permits for 1999 cost \$40.00. These permits allow parking on the North Terrace campus after 4.30pm and until 9.30am on weekdays and all day on Saturdays, Sundays and public holidays (except for 25 December).

PLEASE NOTE: 1998 permits expire at midnight on 31 December 1998. To avoid the possibility of receiving a parking infringement notice please renew your permit before 24 December.

Success for student send-off

THE GRADUATION DINNER for international students was a huge success, with more than 350 people attending.

This was the first time the University of Adelaide has held a formal Graduation Dinner for departing international students to celebrate their success in Adelaide.

Dr Peter Mayer from the Department of Politics was the MC for the dinner, which was held in the magnificent Banquet Room of the Hyatt Regency Hotel.

The evening was well attended by university staff, including Vice-Chancellor Professor Mary O'Kane, who wanted to share in the students' celebrations and wish them well for the future.

Organised by the International Programs Office and the Overseas Students' Association, the dinner featured prizes donated by the Alumni Association and the Hyatt Hotel.

The Graduation Dinner is now expected to become an annual event.

ALUMNI NEWS

BE A CAMPUS TOUR GUIDE

Would you like to become a trained Campus Tour Guide for the Alumni Association?

Throughout 1998, the Alumni Association has conducted guided tours for visitors to the University each Tuesday morning at 10.30 am. The success of this venture has been due to the efforts of our team of tour guides, all alumni of the University who have been trained to share its story with visitors.

Can you spare a few hours to help the University next year? If you would like to join the Tour Guides' team, please contact Adrienne Eccles at the Alumni Office on 8303 3196. Training is provided, and the experienced guides will be pleased to help the 'newcomers' settle in!

THE INTERNET - WHAT A GREAT CHRISTMAS PRESENT!

Camtech invites Alumni Association members to enquire about their special Christmas deal—an internet Christmas for \$49.95.

Do you know someone with a computer? Give the gift you know they'll like: a connection to the Internet. Or you might get a connection for yourself. It's very affordable this year.

Using the Internet you can get onto the World Wide Web, where there's something for everyone. If you've got friends or family away from home, keep in touch. With email, you can send a message quicker and cheaper than by the post. (Using our service, you can even send online Christmas cards to anyone in the world.)

YOU GET:

- Internet access at 15 hours per calendar month until 31 March 1999* (*Anything over 15 hours is charged at \$2.50 per hour or part thereof)
- Free telephone support
- Free Internet Starter Kit
- Free Email account
- Free access to OzEmail online services
- Free Web space
- Free Web-based Email access
- Global Roaming capability (additional costs apply)

All you have to do is call Camtech's sales line on 8303 3300, or you can go straight to the web-site and register online at <<http://www.camtech.net.au>>.

A PORTRAIT OF JOHN BRAY - LAW, LETTERS, LIFE

Published jointly by the John Bray Law Chapter of the Alumni Association, the University of Adelaide Foundation and the Libraries Board of South Australia, this book commemorates the life and work of John Bray in the form of essays by people who knew and respected him—Dame Roma Mitchell, Justice Michael Kirby, Andrew Ligertwood, Jean P Whyte, Peter Ward, Arthur Rogerson, Brian Medlin, Andrew Taylor and Michael Abbott QC.

The volume is eminently readable and is a striking tribute to Bray's life and works.

Available from the Alumni Office in Kintore Avenue or phone (08) 8303 5800, fax (08) 8303 5808, or email: <gsauer@registry.adelaide.edu.au>

Priced at \$32.00 (soft cover) and \$55.00 (hard cover, very limited quantities)—includes postage and packing within Australia.

All proceeds go to the John Bray Law Chapter of the Alumni Association and will be used to support the Law School.

Hands on display a first for OH&S

EDUCATION and research into Occupational Health & Safety has been given a major boost with the opening of a new Collaborative Centre in OH&S.

The centre, based at the University of Adelaide's Thebarton Campus and comprising the combined expertise and resources of the University of Adelaide, UniSA and Douglas Mawson Institute of TAFE, is the first of its kind in Australia.

The centre's aims are to provide:

- courses leading to postgraduate certificates, diplomas and degrees
- continuing education for OH&S professionals and other groups
- joint research
- education for the wider community, such as schools, about OH&S issues

Playing a key role in the new OH&S centre is the University of Adelaide's Department of Public Health, in particular senior lecturers Dr Dino Pisaniello and Dr Richie Gun. They have many close links with industry and government and are also consultants on OH&S issues.

"This is an entirely new educational and research facility which we expect to become a nationally, and internationally, recognised centre of excellence," Dr Pisaniello said.

"The combined efforts of the three institutions will enable us to provide a range and quality of teaching, research and service that we could not deliver independently."

One of the main features of the new centre is a permanent interactive educational display.

The hands-on display contains extensive material about the various Occupational Health & Safety hazards, their danger to workers, and how to prevent them.

This ranges from information about lifting or moving heavy objects, to chemical spills, excessive noise, electrical dangers, fire and other hazards. The many different interactive displays give employees, tertiary students or school children the

chance to learn more about these issues and how to deal with them in a safe and appropriate manner.

"The interactive displays will play a very important role in our educational programs," Dr Pisaniello said.

"Using our displays, people can learn how to use protective clothing, how to prevent hearing damage, even practice first aid techniques. There are many facets to OH&S that most people probably don't realise, and this display area brings it all to life.

"Everything we have in the display is very much linked together, providing background about particular OH&S hazards and giving people the skills and understanding to deal with them.

"We've received a substantial and generous amount of support from industry, and we expect not only university staff and students to benefit from the display but also school students, industry groups and professional associations.

"The display area itself becomes a kind of 'teaching laboratory'. It allows us to better understand ways of teaching the various groups about OH&S, and will therefore lead to improvements in educational methods."

Tutorial rooms within the Collaborative Centre could also be used to educate people about OH&S, Dr Pisaniello said.

"We have an excellent facility here which will enable us to provide quality education to a wide range of interest groups. No one else is able to do this, which is why the collaboration between the two universities, TAFE, industry and government is so important.

"The centre is also complemented by a state-of-the-art research laboratory, which is already being used by postgraduate students for research into OH&S," he said.

The Collaborative Centre in Occupational Health & Safety and its interactive display were officially launched on Monday, 30 November.

For more information contact Dr Dino Pisaniello on (08) 8303 3571.



Dr Dino Pisaniello (University of Adelaide) and Mr Tom Fitzsimons (Douglas Mawson Institute of TAFE) in the new interactive display area. Photo by David Ellis

Chairman of Luminis retires

AFTER 10 YEARS of service on the Board of Luminis Pty Ltd, Mr Brian Burns has announced his retirement.

A Chartered Accountant by profession, and now a full-time Non Executive Director serving on several public and proprietary company boards, Brian has been the Chairman of Luminis since 1989.

This followed the Heard Report of 1989/90 into the operations and role of the company.

Highlights of Luminis's commercial activities under his governance include:

- consistent profitability with dividend returns to the University
- increasing sales revenue primarily from activities in contract research and consulting
- improved asset worth of the company
- \$9m syndicated research program in collaboration with Bresagen
- the formation of Camtech
- increased revenue and value of Repromed, where he has served as a nominee Director.

Peter Hart, Managing Director of Luminis for all of Brian's time as Chairman, has nothing but praise for his work and commitment, especially in his role as Chairman.

"His most notable early achievements were the restructure of the Balance Sheet and the capitalization of debt, and the drafting, approval and implementation of the Charter for Luminis from the University.

"Luminis has certainly prospered under his chairmanship," he added.

ACCOMMODATION

ASCOT PARK: Clean modern home, overseas students welcome. Close to transport. \$65 pw (pay own phone calls and food costs). Ph Ray 8276 1746.

GLEN OSMOND: 3 br, fully furn house, no pets, assistance with gardening, close to schools & transport. Avail Dec. \$210 pw + bond. Ph 8379 4869.

HACKNEY: Mature professional male, non smoker to share comfortable inner city house with same. \$85 pw. Ph 8362 2136.

HAYBOROUGH: Victor Harbour - avail during school holidays, very comfortable, views, opposite reserve, very close to beach, sleeps 6. Ph 8297 9371.

KANGAROO ISLAND: Holiday retreat avail Dec - Jan. Magnificent views. Minimum one week. Suit non smoking couples. Ph Peter 8362 3698.

NORTH ADELAIDE:

Heritage duplex in immaculate condition, avail short or long term, furn or unfurn, 2/3 br, park frontage, 5 mins to Uni. \$325 pw. Ph 8267 3472.

WANTED: Mature English lady seeks rental or house sitting arrangement from Jan - Mar 99. Care for pets and garden. Ph Jenny Nairn 8204 6257 or email: <nairnj@wch.sa.gov.au>.

WANTED: Unfurn 3-4 br house for 6-12 mths from 1 Jan 99. Eastern suburbs or hills preferred. Ph Philip Keane 8222 3224 or 0418 301 529 or email: <Philip.Keane@imvs.sa.gov.au>.

WANTED: House to rent or mind from 17-24 January 99 for visiting lecturers. 3 brs, close to Uni with a piano pref. Ph Keith

ADELAIDEAN CLASSIFIED

8303 3673 or Ruth 8463 3473 or 8364 0597 (ah) or email: <crelsaf@camtech.net.au>.

FOR SALE

BMX BIKE: 20" Colorado chrome freestyler, very good cond, new brakes. \$225 ono. Ph Maryann 8303 5122 or Karl 8261 4579 (ah).

CARPET: Floral axminster, 1940s-50s, in good cond. 3.5 x 3.5 approx. \$60 ono. Ph 8272 9453.

MAGNA: 1988, 5 spd, power steer, rad/cass, 5 mths reg, immaculate. WEP 776. \$3,450 ono. Ph 8338 4152.

MOVING SALE: Power Macintosh 7300/180 with Apple 17" colour monitor, only 1 year old, \$2,600 ono. Hoover Fridge, 290 ltr, 2 years old, \$390. Simpson Genesis washing machine, h/duty, \$250. NEC 51cm

colour TV, remote, \$280. Single bed ensemble, \$110. Bedside chest, pine, \$35. Dining suite, black table plus 4 matching chairs, \$140. Loung suite, 2 seater, 2 chairs, coffee table, \$100. Ph Charlie 8297 0586.

PEUGEOT: STI 2 ltr 505, 1984, one owner, 160,000km, 5 spd man, air, power steer, towbar, 2 sets wheels/tyres. \$7,000. Ph John 8271 0055.

SIGMA: 1978 GE sedan, auto, reliable run-about, new retreads, registered til Jan 99, am/fm radio, rear louvre. SOH 314. \$750 ono. Ph Jacki 8395 7149

TOYOTA CORONA: 1977, registered, reliable, used regularly, good mechanical cond. UUC 479. \$650. Ph 8332 0002.

TRAIN SET: LIMA, interesting landscaped

layout, 1900x1250, 2 trains, 2 controllers, over 15 metres of track in the circuit. \$350 neg. Ph 8295 1611 or 0419 814 120.

XMAS TREE: 185cm evergreen, bush, attractively decorated with gold balls and red bows. \$75. Ph Lesley 8373 1737 (ah).

DEPARTMENTAL

MACINTOSHES: Centris 650 24/1.2 GB, 15" monitor (not working). 3 x Power Mac 7300/180 64/2.5GB 17" monitor. 1 x PowerMac 7300/180 96/2.5GB 17" monitor. 2 x PowerMac 7200/120 PC compatible, 24/1.2GB. Details call Lachlan Tailby 8303 6746. Tenders in a sealed envelope marked "Macintosh Tender" to L Tailby, Plant Science, Waite by 18 Jan 99.

GARAGE SALE: Assort furniture, electronic equipment, power supplies, printers, photographic lights. 9-10 Dec, 12.30-

2.30pm, Rm 111, Hughes Building.

MISCELLANEOUS

WORD PROCESSING: \$3.50 per page @ 250 words per page; 1500 words = \$21. Thesis formatting of WP on disk. Laser printing, after hours service, city centre location. Ph Anne Every for a guide to services 8212 6869 or 8415 7866.

WANTED

DATSUN: 1600 station wagon, must be straight with minimal rust. Ph Paul 8276 7954.

DOES: your Frangipani need pruning? We require flowering branches 8 or 9 Jan for wedding floral effects. Ph 8336 2117 or email: <Vferg@camtech.net.au>

MATH TUTOR: For a 14 year old, lives at Nairne and is a student at Glenunga High School. Ph 8306 8700 (w) or 8388 6580 (ah).

Bulletin Board

DECEMBER 7, 1998

THE UNIVERSITY OF ADELAIDE

PAGE 1

END OF UNIVERSITY'S FINANCIAL YEAR - 31 DECEMBER 1998

The following are dates by which transactions to be recorded in the accounting system in 1998 are to be received in Finance Branch.

It is important that staff associated in any way with year end accounting related activities, in your Divisions/Faculties/Branches/Departments/Units, observe these dates:

FINAL PROCESSING OF INVOICES, PURCHASE ORDERS AND JOURNALS

Final acceptance of invoices for last 1998 cheque run:	12 noon Monday	14 December 1998
Final acceptance of purchase orders for 1998:	12 noon Wednesday	23 December 1998
Final acceptance of internal charges for 1998:	12 noon Wednesday	23 December 1998
Final acceptance of correcting journals from departments for December transactions:	12 noon Friday	15 January 1999

Departments are urged to plan ahead, especially in the case where administration staff may be planning recreation leave over December/January as:

- Any invoices/receipts/internal charges received during the Christmas break period relating to December 1998 are to be forwarded by Wednesday 6 January 1999 to Finance Branch.
- Final Period 12 financial reports will be distributed on Friday 8 January 1999.
- The close off date for correcting journals to 1998 accounts is Friday 15 January 1999.
- The 'Year End Financial Package' is due back Friday 8 January 1999 (distributed in October 1998).

FINAL PROCESSING OF PAYROLLS

Period ended 18 December 1998 (actually paid on 17 December):

- variations to payroll and overtime/shift loading	10.00 am Tuesday	8 December 1998
- casual claim forms	10.00 am Tuesday	8 December 1998

Period ended 1 January 1999

- variations to payroll and overtime/shift loading	10.00 am Monday	14 December 1998
- casual claim forms	10.00 am Monday	14 December 1998

Please note: Payroll for 1 January 1999

- Nine-tenths of the fortnightly pay will be debited against 1998 and one-tenth against 1999.
- All casual pay will be debited against 1999.

BANKING

- All cash received by departments (performing their own banking) up to 22 December to be banked and schedule delivered to Cashier, Revenue Section by 12 noon Wednesday 23 December 1997.

THESE ARE CLEAR CUT-OFFS FOR PROCESSING. THEY WILL BE RIGIDLY ENFORCED.

BJ SCHERER, **Director Finance**

Teaching at University

The Teaching at University courses consist of seven sessions and a project which focus on learning and teaching at the University of Adelaide. They are open to any staff teaching, or intending to teach at the University. Completion of the course meets one of the requirements for tenure, and counts towards the Master of Educational Studies subject Learning and Teaching at University (7269).

For course schedules, fees and registration contact Lynne Bradshaw on 8303 5771 or email: <lbradshaw@acue.adelaide.edu.au>.

Perimeter Gates to close

On Christmas Day 25 December 1998

From midnight on 24 December 1998 to midnight on 25 December 1998, all perimeter vehicle and pedestrian access to the Campus will be closed. University staff needing entry to the Campus should contact the Security Office, 8303 5990.

John Larwood, **Acting Director, Property Services**

UNDERGROUND CAR PARK UPGRADE

The second stage of the Underground Car Park Upgrade Works will commence in the first week of January and be complete by the last week in February in 1999.

The works may result in restrictions in the number of car park spaces available (as little as 70 car parks available during the period), the car park maybe closed between the hours 8.00pm and 7.30am, 7 days a week and all day Saturday, and the car park will be dustier during this period.

The works will involve: replacement of the Ground Floor bitumen, replacement of the block work at the perimeters with steel grilles or balustrades, improved lighting, repairs and replacement of the bitumen to the ramp from the First Floor to the Ground Floor, repairs to the ceiling of the First Floor, cleaning and water proofing to the Plaza surfaces, removal and paving of the South Pond, and painting of the ceilings.

Any question should be directed to Carl Bradney at Property Services on ext 34673.

Health Service Farewell

With a private provider commencing a new medical service from January 1999, the current Health Service will close on 24 December 1998.

Staff and students are invited to attend a farewell to thank the medical and support staff for their valuable work. **4.00pm - 5.00pm, Monday 14 December 1998, Equinox Cafe, Level 4, Union Building.**

If you would like to attend please contact Paola Mavrogiannis, tel 8303 5351 or email: <pmavrogiannis@registry.adelaide.edu.au>.

CENTRE FOR ELECTRON MICROSCOPY AND MICROSTRUCTURE ANALYSIS (CEMMSA)

Election Result

ELECTION OF POSTGRADUATE STUDENT TO MEMBERSHIP OF THE CEMMSA USER'S GROUP - held from 18 November - 24 November 1998

The successful candidate was Mr Jamie Chapman, by a margin of 4 votes after distribution of the preferences of the candidates placed fourth and third on first preferences. There were 31 valid votes cast.

Peter Franklin, **Returning Officer**

COMING EVENTS

December 7th — 18th December

MONDAY 7 DECEMBER

4.00pm Crop Protection Seminar: Epidemiological studies of *Aschocyta* blight of chickpeas by Mr S Kahn (PhD Student). Charles Hawker Conference Centre, Waite Campus.

WEDNESDAY 9 DECEMBER

1.10pm Horticulture, Viticulture & Oenology Seminar: Applications of genetic engineering and tissue culture to the improvement of temperate fruit crops by Dr Fredi Hammerschlag (Beltsville Agricultural Research Centre, Maryland, USA). Plant Research Centre Auditorium, Waite Campus.

2.00pm Research Branch - Information Sessions: ARC Large Grants and Fellowship schemes. Council Room. Enquiries: 8303 5137.

7.30pm Physics Lecture: Supercomputer Experiments with Quarks and Gluons by Associate Professor Greg Kilcup (Physics, Ohio State University). Flentje Lecture Theatre.

THURSDAY 10 DECEMBER

12noon HCCR/IMVS Seminar: Genes and Human Disease: Investigating Ets2 in Down Syndrome as a paradigm by Prof Ismail Kola (Monash Medical Centre, Melbourne). Verco Theatre, IMVS.

3.00pm The Adelaide Pharmacology Group Seminar: Innovative teaching and learning methods in pharmacology by Dr IE Hughes (Senior Lecturer - Pharmacology, University of Leeds, UK/Director of Pharma-CAL-ogy Consortium, UK). Seminar Room, Level 6, Medical School North.

6.00pm Centre for Intercultural Studies & Multicultural Education Seminar: Multiculturalism: Diverse or Diverging Cultures by Hon Lynn Arnold (Chief Executive, World Vision Australia). Council Room, Level 7, Hughes Building. Refreshments from 5.30pm. Enquiries Elizabeth Balan or Mariusz Kurgan 8303 5788.

FRIDAY 11 DECEMBER

11.30am Child Health Research Institute Seminar: Is there such a thing as fetal consciousness by Prof D Mellor (Director, Animal Welfare Science and Bioethics Centre / Institute for Food, Nutrition and Human Health, Massey University, New Zealand). Seminar Rm, 7th Floor, Rieger Building, WCH.

TUESDAY 15 DECEMBER

11.00am Anatomical Sciences PhD Project Seminar: The Marsupial Zona Pellucida: Its development, structure and modifications within the oviduct by Jamie Chapman. Lecture Theatre S127, Medical School.

1.00pm Research Branch - Information Sessions: ARC Large Grants and Fellowship schemes. Charles Hawker Conference Centre, Waite Campus. Enquiries: 8303 5137.

FRIDAY 18 DECEMBER

12noon Child Health Research Institute Seminar: Targeted liposomal doxorubicin in the treatment of haematological malignancies by Dr Terry Allen (University of Alberta, Canada). Seminar Room, 7th Floor, Rieger Building, WCH.

SITUATIONS
VACANT

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

DEPARTMENTAL MANAGER
(Ref: 2549)

Department of Chemistry
Salary HEO7: \$42,760 - \$47,973†
The successful candidate will be responsible for monitoring the financial resources of the Department and providing high level assistance such as preparing detailed submissions and reports on planning and resources for the Head of Department.

- You should have:
- demonstrated high level administrative skills and proven competence in financial management
 - well developed organisational and analytical skills.
 - well developed communication, interpersonal and negotiation skills.
 - excellent spreadsheet, database and word processing skills.
 - ability to use the University's management information system to analyse and interpret financial and statistical data.

The position is available from 1 January 1999 on a continuing basis. The selection criteria and duty statement may be obtained from the Secretary, tel: 8303 5365. Further details from Dr David Ward tel: 8303 5496, email: dward@chemistry.adelaide.edu.au
*APPLICATIONS should include the names and addresses of two referees, to Dr D Ward, Head, Department of Chemistry, University of Adelaide, Australia 5005 by 14 December 1998.

WHEAT MOLECULAR MAPPING
(Ref: 9788)

Plant Science
Special Research Centre for Basic and Applied Plant Molecular Biology
Full-time Salary HE05/6: \$31,803 - \$41,959†
The successful candidate will carry out a large scale program of RFLP screening and map construction as part of the National Wheat Molecular Marker Program. This candidate will also be responsible for the maintenance of the marker database associated with this project.

- You should have:
- a degree
 - experience in the application of

RFLP and RCP-based molecular markers to wheat improvement

- experience in the use of computer-base data analysis
- proven ability to prepare detailed experimental reports.

The position is available immediately on a 44.1 hours per fortnight basis until 30 June 2000 in the first instance. Further details from Dr Ken Chalmers tel: 8303 7331, fax: 8303 7102.

*APPLICATIONS to the Head, Department of Plant Science, University of Adelaide, Waite Campus, PMB 1, Glen Osmond, SA 5064 by 14 December 1998.

WHEAT VALIDATION
(Ref: 3736)

Plant Science
Special Research Centre for Basic and Applied Plant Molecular Biology
Full-time Salary HE05/6: \$31,803 - \$41,959†
The successful candidate will undertake the validation of molecular markers previously identified as being associated with agronomic traits in wheat. The candidate will also determine their suitability for use within wheat marker assisted selection strategies.

- You should have:
- a degree
 - experience in the application of RFLP and RCP-based molecular markers to wheat improvement
 - experience in the use of computer-base data analysis
 - proven ability to prepare detailed experimental reports

The position is available immediately, 58.5 hours p/f until 30 June 2000 in the first instance. Further details from Dr Ken Chalmers tel: 8303 7331, fax: 8303 7102.

*APPLICATIONS to the Head, Department of Plant Science, University of Adelaide, Waite Campus, PMB 1, Glen Osmond, SA 5064 by 14 December 1998.

BARLEY MOLECULAR MARKET IMPLEMENTATION
(Ref: 2155)

Plant Science
Special Research Centre for Basic and Applied Plant Molecular Biology
Salary HE04: \$30,736 - \$33,808†
The successful candidate will provide the routine marker screening service for the South Australian

Barley Breeding Program. The objective of the work is to use RFLP and PCR markers to screen breeding material for agronomically desirable traits

- You should have:
- experience in the application of RFLP and RCP-based molecular markers to cereal improvement.
 - experience in the use of computer-base data analysis
 - proven ability to prepare detailed experimental reports.

The position is available immediately until 30 June 2000, in the first instance. Details Dr Ken Chalmers, tel: 8303 7331, fax: 8303 7102.

*APPLICATIONS to the Head, Department of Plant Science, University of Adelaide, Waite Campus, PMB 1, Glen Osmond, SA 5064 by 14 December 1998.

PERSONAL ASSISTANT
(Ref: 3723)

Geology and Geophysics
Salary HEO3: \$26,725 - \$30,467†
To provide administrative support to the Head of the Department of Geology and Geophysics.

- You should have:
- experience and demonstrated ability in a Personal Assistant/support role
 - excellent communications skills
 - proven ability to work as part of a team
 - demonstrated reliability in dealing with confidential matters
 - a sound knowledge of the University of Adelaide's corporate structure
 - demonstrated skills in using modern information technology

Experience in dealing with external companies and institutions, an ability to deal with scientific and mathematical terms and a willingness to help foster team spirit within the Department would be desirable. This continuing position is available from 4 Jan 1999. Details Mr G Buttfield, 8303 5844.

*APPLICATIONS to Mr G Buttfield, Department of Geology & Geophysics, University of Adelaide 5005, by 17 December 1998.

GENERAL LIBRARY ASSISTANTS
(3.5 positions) (Ref: 1147/9305/1939/3734)

Barr Smith Library
Salary HEO2: \$25,388 - \$26,992**†
To undertake a variety of clerical activities. Duties will be assigned in one or more of the following areas: Acquisition, Lending Services, Reference Services and Research Services. Applicants will be

expected to participate in rosters at all specified service points and in rostered duties in the evenings and at weekends as required.

- You should have:
- accuracy and attention to detail
 - good organisational skills and ability to meet deadlines
 - good communication skills
 - keyboard and basic word processing skills
 - ability to work in a team environment
 - successful completion of five years of secondary education or relevant experience

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

The positions 1147, 9305 and 1939 are available from 1 January 1999 on a continuing basis. Position 3734 is available from 1 January 1999 on a 36.75 hours per fortnight for two years to replace an employee on transfer. The selection criteria and duty statement may be obtained from Toni Luppino, tel 8303 5370.

*APPLICATIONS should include names and addresses of two referees, to the University Librarian, University of Adelaide, Australia 5005 by 14 December 1998.

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

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

RESEARCH ASSISTANT (NH&MRC)
(Ref: 3741)

Department of Pathology
Salary: \$33,905- \$46,013†
To provide research assistance for studies on the molecular interactions of elastic fibre proteins (important structural components of tissues such as arteries, lung and skin) with macromolecules of the surrounding extracellular matrix. Duties will include the use of a range of techniques including solid-phase binding assays, recombinant protein expression, yeast cell culture and two-hybrid screening of human cDNA libraries.

- You should have:
- a degree in biochemistry or similar discipline preferably with honours
 - research experience with proven ability to perform experiments in a diligent and conscientious manner
 - ability to accurately write up experiments in detail and maintain up to date records

Experience with yeast cell culture would be an advantage.

The position is funded by a new NH&MRC project grant and is available from January 1999 to 31 December 1999 in the first instance, with the possibility of renewal for a further two years. Details from Dr Mark Gibson, tel: 8303 5337 or fax: 8303 4408.

*APPLICATIONS to the Head, Department of Pathology, University of Adelaide, Australia 5005 by 14 December 1998.

INTRANET SERVICES PROJECT MANAGER

(Ref: 3739)
Information Technology Services
Salary HEO8: \$48,105 - \$54,119†
The University of Adelaide requires a person to manage the development of a pilot Intranet service. The

person will work with University staff and external consultants to develop project specifications; prepare, monitor and report on project plans and budgets as well as coordinate the activities of teams working on various aspects of the project.

- You should have:
- relevant tertiary qualifications and/or relevant extensive experience
 - demonstrated experience in managing IT projects
 - good knowledge and experience with Internet/Intranet technologies with particular reference to the Lotus Notes/Domino environment
 - excellent oral, written and interpersonal communication skills
 - a strong commitment to customer service

The position is available for one year in the first instance with the possibility of renewal for a second year depending on project funding. Further details from Information Technology Services, tel: 8303 5716.

*APPLICATIONS to the Director, Information Technology Division, University of Adelaide, Australia 5005, by 14 December 1998.

BUSINESS MANAGER
(Ref: 3704)

Graduate School of Management
Full-time Salary HEO8: \$48,105 - \$54,119†
To prepare monthly financial reports and annual budgets, market award programs including preparation of brochures and other promotional material, maintain the website, manage development and production of academic teaching material for offshore programs, develop alliances with the business community, assist in developing and establishing new initiatives locally and offshore, manage human resource matters, manage facilities including IT equipment, and produce the biennial graduate yearbook.

- You should have:
- experience in the preparation of financial reports and drafting budgets
 - demonstrated ability in marketing, including writing brochures and other promotional material
 - demonstrated ability in writing comprehensive reports and proposals
 - a high level of communication and interpersonal skills
 - a high level of proficiency in the use of Word for Windows and Excel spreadsheets

A tertiary qualification or equivalent experience, in particular an MBA would be a distinct advantage.

This continuing position is available immediately on a 36.75 hours per fortnight. Further details from Carol McHugh, by telephoning 8303 4650.

*APPLICATIONS to the Director, Graduate School of Management, University of Adelaide, Australia 5005 by 14 December 1998.

ELECTRONIC INFORMATION RESOURCES SPECIALIST (Law Project)

(Ref: 3733)
University of Adelaide Library
Salary HEO7: \$42,760 - \$47,973†
The successful candidate will carry out a project instituted jointly by the Dean of Law and the University

EMPLOYMENT INFORMATION

*APPLICATIONS, IN DUPLICATE, addressing the selection criteria and quoting the relevant reference number should include residency status and names and full addresses of three referees. The address for applications is C/- the Department or Officer named in the advertisement. Selection criteria and applicable duty statement may be obtained from the contact officer named in the advertisement.

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

NOTICE TO APPLICANTS: The University notifies applicants that the following vacancies for Higher Education Officers (HEO) with the reference number

as stated have been filled and thanks them for their interest: 3632 HEO6, Graduate Studies and Scholarships; and 3538 HEO6, Finance Branch.

† Salary rate as from 4 January 1999.

HUMAN RESOURCES DEADLINES FOR SITUATIONS VACANT

'Situations Vacant' - 18 January, advertising paper work must be to Human Resources by 11 January.

'Situations Vacant', - 1 February, advertising paper work must be to Human Resources by 25 January.

Librarian and be expected to provide specialist expertise in identifying and evaluating appropriate electronic information sources and providing information and training to staff and students of the faculty of Law. Duties also include creating web-sites and developing computer-assisted learning packages, working closely with teaching staff and undertaking teaching of legal skills according to faculty requirements.

The position is administratively attached to the Law Library, but duties are performed variously under the direction of the Law Librarian and the Dean of Law or in consultation between them.

You should have:

- substantial knowledge of electronic information resources in law.
- demonstrated understanding of the organisational structure of electronic information resources, and an ability to analyse and evaluate them
- demonstrated technical ability and sound knowledge of the latest developments in information technology
- university degree preferably in Law and experience in legal research and legal librarianship
- capacity to undertake teaching of legal skills

The position is available from 1 January 1999 for three years. Further details, including the selection criteria and duty statement are available from Toni Luppino, tel: (08) 8303 5370.

***APPLICATIONS** should include names and addresses of two referees to the University Librarian, Barr Smith Library, University of Adelaide, South Australia 5005, no later than 15 January 1999.

COMPUTING OFFICERS

Department of Computer Science
(Ref: 3725) Salary HEO 5/6: \$31,803 - \$41,959†

(Ref: 3728) Salary HEO 7: \$42,760 - \$47,973†

The Department of Computer Science is experiencing a phase of significant growth and is attracting greatly increased numbers of both Australian and overseas students. Accordingly, applications are invited for the above positions.

The Department is involved in several Cooperative Research Centres (CRCs) and key centres including the Centre for Sensor Signal and Information Processing, the Distributed High Performance Computing Project within the Research Data Network CRC, and the National Key Centre for Social Applications for Geographic Information Systems.

Successful applicants will be expected to provide appropriate technical support for both the teaching and research activities of the Department. For appointment at HEO 5/6 you should have:

- an Honours degree in Computer Science OR a Bachelors degree in Computer Science and additional experience or equivalent qualifications
- experience managing a Unix operating system, preferably Solaris
- experience managing Windows NT and/or Apple Macintosh computers
- demonstrated ability to work productively in a team
- excellent interpersonal, oral and written communication skills

For consideration for appointment to HEO 7 you should also have, in

addition to the above:

- extensive experience in the management of the Unix operating system
- the ability to lead and work within a team

The positions are available on a continuing basis. Details from Tracey Young, tel: 8303 5681, fax 8303 4366, or email vacancies@cs.adelaide.edu.au Information about the Department available from http://www.cs.adelaide.edu.au

***APPLICATIONS** to the Head, Department of Computer Science, University of Adelaide, Australia 5005 by 16 December 1998

RESEARCH ASSISTANT

(Ref: 3710)

Department of Obstetrics and Gynaecology

Full-time Salary HEO 5/6: \$31,803 - \$41,959†

The Maternal Perinatal Clinical Trials Unit at the Women's and Children's Hospital coordinates randomised clinical trials in maternal and perinatal medicine. Duties will include preparation of study proposals and coordinating National Clinical Trials.

You should have:

- knowledge and experience in research methods
- excellent organisational and interpersonal and communication skills
- demonstrated experience in computer skills, including word processing, spreadsheets, databases and desktop publishing
- experience in preparation of research reports

Tertiary qualifications, preferably Honours or Masters would be an advantage.

The position is available from 18 January 1999 on a 0.8 FTE basis, for one year in the first instance, with the possibility of renewal.

Further details, including the selection criteria and duty statement are available from Associate Professor C Crowther, tel: 8204 7647.

***APPLICATIONS** IN TRIPPLICATE to A/Prof C Crowther, Obstetrics and Gynaecology, University of Adelaide, Women's and Children's Hospital, 72 King William Road, North Adelaide, SA, 5006, by 8 December 1998.

WHEAT MOLECULAR MARKER IMPLEMENTATION

(Ref: 3738)

Plant Science

Special Research Centre for Basic and Applied Plant Molecular Biology

Salary HE05/6 \$31,803 - \$41,959†

The successful candidate will organise and provide the marker screening service for the South Australian wheat breeding programs. The objective of the work is to use RFLP and PCR markers to screen breeding material for agronomically desirable traits

You should have:

- a degree
- proven ability to prepare detailed experimental reports
- experience in the application of RFLP and RCP-based molecular markers
- ability to work in collaboration with other research groups

The position is available immediately until 30 June 2000 in the first instance. Further details, including the selection criteria and duty statement are available from Dr Ken Chalmers tel: 8303 7331, fax: 8303 7102.

***APPLICATIONS** to the Head, Department of Plant Science, University of Adelaide, Waite Campus, PMB 1, Glen Osmond, SA 5064 by 14 December 1998.

TECHNICAL ASSISTANT

(Ref: 6931)

Department of Plant Science
Waite Campus

Salary HEO4: \$30,736 - \$33,808†

The South Australian Barley Improvement Program is an integrated research team which aims to breed, test and commercialise improved barley varieties for the malting, feed and food markets.

The successful applicant will assist with the evaluation of the malting quality of barley. Duties will include the preparation of barley and malt samples for laboratory analysis, carrying out a range of routine quality analyses, assisting in the development and implementation of improved analysis methods, and performance of standard laboratory duties.

You should have:

- a Science Technician's certificate or equivalent, or extensive laboratory experience
- ability to perform repetitive laboratory analyses accurately and conscientiously
- experience with Macintosh and/or IBM personal computers and the application of word processing and spreadsheet packages
- good organisational skills

The position is available from 15 February 1999 to 30 June 1999, in the first instance. Further details about the duties of the position, including the selection criteria and duty statement are available from the Secretary, Department of Plant Science, tel: 8303 7289 or fax: 8303 7109.

***APPLICATIONS** to the Head, Department of Plant Science, University of Adelaide, Waite Campus, PMB 1, Glen Osmond, SA 5064 by 11 January 1999.

GRADUATE STUDIES ASSISTANT

(Ref: 4523)

Graduate Studies and Scholarships Branch

Full-time salary HEO4: \$30,736 - \$33,808†

To provide administrative and secretarial support to the Graduate Studies Office. Duties include the administration of higher degree candidatures under the direction of the Registrar, Graduate Studies; liaison with academic staff and higher degree students regarding higher degree and other related matters; maintenance of records relating to higher degrees in the appropriate data base and student files, processing correspondence and providing limited computer support to the Branch.

You should have:

- demonstrated ability to perform administrative tasks within the terms of relevant regulations, guidelines and procedures
- excellent oral and written communication skills

- well developed computing skills, particularly in the use of data bases, word processing and spreadsheets
- demonstrated ability to work under pressure in times of peak workload and to prioritise competing demands

A general knowledge of the university sector and experience dealing with students, particularly postgraduate students would be an advantage.

This continuing position is available immediately on a 58.8 hours per fortnight basis.

Further details, including the selection criteria and duty statement are available from Mrs Esther Tobin, tel: 8303 5116, or email: etobin@registry.adelaide.edu.au

***APPLICATIONS** to Mrs Esther Tobin, Registrar, Graduate Studies, Level 7, Wills Building, University of Adelaide, Australia, 5005, no later than 14 December 1998.

FINANCE AND ADMINISTRATIVE ASSISTANT

(Ref: 3717)

Department of Dentistry

Full-time Salary HEO3: \$26,725 - \$30,467†

In the Australian Institute of Health and Welfare's Dental Statistics and Research Unit, to provide support to academic and research staff in the Unit, which is involved in the collection, analysis and dissemination of information on oral health, use of dental services, provision of dental services and the dental labourforce.

You will undertake financial administration within the Unit. You should have demonstrated experience in the maintenance of financial records, experience with computerised accounting systems and spreadsheets, experience in advanced word processing/graphics preparation and knowledge of general administrative functions.

The position is available on a 44.1 hours per fortnight basis until 30 June 2000, in the first instance, with the possibility of further renewal.

Further details, including the selection criteria and duty statement are available from Professor AJ Spencer or Silvana Marveggio, tel: 8303 5438.

***APPLICATIONS** to Professor AJ Spencer, Department of Dentistry, University of Adelaide, Australia 5005 by 18 December 1998.

ACCOMMODATION AND WELFARE ASSISTANT

(Ref: 3732)

International Programs

Salary HEO3: \$26,725 - \$29,467†

To work as part of a team in providing assistance in matters of international student arrival, orientation, accommodation, social and cultural programs and administrative support.

You should have:

- experience in a relevant service oriented profession
- excellent cross cultural and administrative skills
- strong interpersonal skills
- the ability to work effectively in a team environment
- a Class 1 driver's licence

The position is available immediately on a continuing basis. Further details from Ms Vivien

Hope, Head, International Student Support Services tel: 8303 4058. The duty statement and selection criteria may be obtained from the International Student Support Services Section, tel 8303 4828.

***APPLICATIONS** to the Director, International Programs, University of Adelaide, Australia 5005 by 14 December 1998.

DEPARTMENTAL SECRETARY (Ref: 3712)

Department of Biochemistry

Full-time Salary \$26,725 - \$30,467

The Department seeks a responsible administrator to act as Personal Assistant to the Head of Department, and to provide secretarial and clerical assistance to other members of the Department. The duties include aspects of personnel and student administration, reception, management of Departmental records, and providing support to the Departmental Committee.

You should have experience in the provision of secretarial and clerical support to senior professional staff, a high level of word processing skills and proven interpersonal skills with the ability to integrate into a small team.

The position is available from 18 January 1999 on a part-time/half-time basis (hours to be negotiated), for one year as a replacement for a staff member on leave.

Further details, including the selection criteria and duty statement are available from Professor PD Rathjen, tel: 8303 5354 or Janet Hobbs, tel: 8303 4624.

***APPLICATIONS** to the Head, Department of Biochemistry, University of Adelaide, Australia 5005 by 18 December 1998.

ADMINISTRATIVE ASSISTANT/DRIVER

(Ref: 3731)

International Programs

Salary HEO2: \$25,388 - \$26,992†

To provide reception and clerical support to the International Student Support Services Section. This is an important frontline position dealing with inquiries from staff, students and the general public. The position includes assistance with international student arrivals.

You should have:

- strong verbal communication and interpersonal skills
- experience in using computer databases and software
- the ability to work effectively in a team environment
- cross cultural skills
- a Class 1 driver's licence

The position is available immediately on a continuing basis.

For further details contact Ms Vivien Hope, Head, International Student Support Services, tel: 8303 4058. The duty statement and selection criteria may be obtained from the International Student Support Services Section, tel: 8303 4828.

***APPLICATIONS** to the Director, International Programs, University of Adelaide, Australia 5005 by 14 December 1998.

† Salary rate as from 4 January 1999.

ReSearch 99

Term 1, 1999
Friday: Colin Thiele Lecture evening, theme: Student Voice.
Saturday: Expo showcasing Research in Education, sessions throughout the day on a range of educational topics.

Invitation to present your research

ReSearch 99 will be held from 19-20 March 1999. The Friday Colin Thiele Lecture Evening will be followed by a Saturday Research Expo. Department and University researchers are invited to make a 1/2 hr presentation of their work at the Expo. To register your interest, request an *Invitation to Present* from <nbillinghurst@sadecs.nexus.edu.au> or ph/fax 8226 1282.

Research Branch Update

WEB SITES TO NOTE

THE UNIVERSITY OF ADELAIDE RESEARCH BRANCH

Have you had a look at the new Research Branch web site at <http://www.adelaide.edu.au/RB/>? The site now contains information about the Branch, funding opportunities, forms, guidelines, policy documents and links to other relevant web sites! We have tried to make the site as user-friendly as possible, so the information you require can be located easily and quickly. Feedback / comments about our web site are welcome and can be emailed to: <research@registry.adelaide.edu.au>.

DEPARTMENT OF EDUCATION, TRAINING & YOUTH AFFAIRS (DETYA)

Higher Education Research Branch.

Please note that the Higher Education Research Branch (HERB) has a new web site address, as follows: <www.detya.gov.au/highered/research/index.htm>.

This new web site is due to the revised DETYA portfolio.

RESEARCH BRANCH - 'UPDATE' NEWSLETTER

The Branch advises that paper circulation of the 'Update' will cease at the end of 1998.

The Update will still be available electronically from the Branch web site, and users are encouraged to access the site regularly for details of available funding opportunities. The information will be updated, as it is now, on a fortnightly basis and the new format enables you to print or download only the details that are of interest to you.

AUSTRALIAN RESEARCH COUNCIL

SUPPORT FOR 2000 FUNDING

LARGE RESEARCH GRANTS AND FELLOWSHIP SCHEMES

Information Sessions

Information Sessions on the ARC Large Research Grants and Fellowship schemes will be held on the following dates in December 1998. All intending applicants are invited to attend. Professor Ross Milbourne, Deputy Vice-Chancellor (Research) and Chair, ARC Research Grants Committee together with ARC panel members with experience of the ARC process and Research Branch staff will be present to provide information to assist you with your application for 2000.

North Terrace: Wednesday, 9 December, 2-00 - 3-00pm, The Council Room, Level 7, Wills Building.

Waite Campus: Tuesday, 15 December, 1-00 - 2-00pm, Charles Hawker Conference Centre

Topics to be covered will include any changes to the schemes or guidelines for year 2000 funding panel comment and feedback on the 1999 application round and hints on preparing successful applications. Enquiries to Research Branch: Telephone 830 35137.

SCHOLARSHIPS, RESEARCH AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

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

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: <http://australia.infoed.org/spin_start.html>. Select 'Access Spin WWW' and then select 'Spin Australia'.

Department of Industry, Science & Tourism (DIST) - Technology Diffusion Program (TDP): This Program has three integrated components: Technology Alliances; Technology Transfer; and Online Business. Further information about the TDP is available from the AusIndustry web site: <http://www.ausindustry.gov.au/tdp>. U19/98

International Agency for Research on Cancer - Fellowships for Research Training in Cancer: Internal closing date: 14 December 1998. Web site: <http://www.iarc.fr/education/fellow.htm>. Please note: Due to the specific criteria governing the fellowships, IARC prefer potential applicants to contact them directly to request application forms to enable them to carry out a certain degree of preselection. Contact ph, fax & email details are available from their web site. U20/98

University of Cambridge - Corpus Christi College: Visiting Fellowships 1999/2000: Applications need to be with the Secretary, Corpus Christi College by 15 December 1998. U8/98

Clive & Vera Ramaciotti Foundations - Ramaciotti Foundations Travel Award: Internal closing date: 17 December 1998. U8/98

Royal Society of Victoria - Medal for Scientific Research for 1998 (Earth Sciences): Internal closing date: 21 December 1998. U18/98

Australian National University (ANU), Humanities Research Centre: Academic Program 2000: Visitors Program - Internal closing date: 22 December 1998. Web site: <http://www.anu.edu.au/HRC/>.

The John Carter Brown Library - Research Fellowships 1999-2000: Internal closing date: Amended from 1 January to 4 January 1999. U20/98. Web site: <http://www.brown.edu/Facilities/John_Carter_Brown_Library>.

Gladys Krieble Delmas Foundation of New York - Grants for Venetian Research 1999/2000: Internal closing date: 4 January 1999. U22/98

Smithsonian Institution - 1999 In-Residence Fellowships (Postdoctoral & Senior): Internal closing date: 6 January 1999. U21/98

New Educational Aids in Medicine and Science (NEAMS) Trust - Grants: Internal closing date: 8 January 1999. U19/98

Norwegian Nobel Committee - Invitation to nominate candidates for the Nobel Peace Prize: Internal closing date: 11 January 1999. U21/98

Health & Aged Care; Dept of - Pharmaceutical Education Program 1998/99: Grants for research and education projects to promote Quality Use of Medicines: Internal closing date: 13 January 1999. U22/98

Grains Research & Development Corporation (GRDC) - Applications for Conference Support 1999-2000: Internal closing dates: 15 January 1999 (for the six months July 1999 to December 1999). U11/98. Web site: <http://www.grdc.com.au>.

South Australian Grain Industry Trust Fund - Research Funding 1999/2000: Internal closing date: 18 January 1999. U22/98

Department of the Environment and Heritage - Antarctic Research Division: Antarctic Research - Project and Grant Applications for the 1999-2000 Season: Internal closing date: 22 January 1999. U23/98. Note: Although applications are to be submitted electronically via the web, applicants are still required to forward a copy of their application (complete with signatures) to the Research Branch.

Scholarships

Unless otherwise stated, information and application forms for the following scholarships are available from the Registrar, Scholarships, or the Scholarships Officer, Graduate Studies and Scholarships Branch, Level 7, Wills Building, ext 35697/33044. Please lodge all applications with the Scholarships Office unless otherwise stated.

Asia/Pacific Scholars Program Stanford University: These are available to citizens of PRC or Hong Kong, and cover maximum of two years tuition and living allowance, and one-time round trip economy travel. Applicants must apply independently to, or be enrolled in, a Stanford graduate department or school. Details: Romola Breckinridge, Program Coordinator, Encina Hall 311, Stanford University, Stanford CA 94305-6055, tel: 6507236756, fax: 650 725 2010, email: romola@stanford.edu or their web site: <http://www-iis.stanford.edu/APSscholars>.

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

Cambridge University - Sidney Sussex College: Details on the Evan Lewis-Thomas Law Studentships for 1999 are available on request. Closing: 1 February 1999 (UK)

Cambridge Australia Trust: An information sheet regarding Packer and Poynton Scholarships for study at Cambridge in 1999, are currently available. Forms available from The Secretary, Board of Graduate Studies, 4 Mill Lane, Cambridge, CB2 1RZ. Closing: Admission: 31 January & Scholarship: 30 April (Cambridge)

Constantine Aspromourgos Memorial Scholarship for Greek Studies: Open to bachelors or masters graduates of Queensland University undertaking a postgraduate course involving at least one area of Greek studies (ancient, Byzantine or modern) in language, culture, literature, history, archaeology, society, religion, economy, politics or geography, at another university,

or Queensland University, providing that some part of the course involves studies at another university. Value: \$4,500. Closing: 23 April 1999 (Queensland)

Finland and Australia Exchange 99/2000: Open to postgraduates and researchers for nine months, aged under 35 years. Value: FIM4,100, FIM1,000 establishment allowance, does not include rent or travel costs. Closing: 1 February (Canberra)

Frank Knox Memorial Fellowship to Harvard: Open to Australian citizens who have recently graduated, or are about to graduate, from an Australian tertiary institution. Fellows will be required to devote the major part of their time to study in one of Harvard's Graduate Schools. Closing: 11 December (Scholarships)

Mitchelton Wines Preece Fellowship - Masters Degree in Wine Business: Applicants must be Australian citizens or permanent residents who are acceptable as candidates for the Master of Applied Science in Wine Business at the University of Adelaide. Value: \$17,000. Closing: 11 December (Scholarships)

Research Abroad Scholarships: Open to those enrolled full-time in a higher degree at Adelaide University, or part-time students not employed who can demonstrate financial need, and Lecturers Level A, who are able to demonstrate that overseas travel is essential for the pursuit of his/her postgraduate work. Conference funding will only be considered if the applicant has been invited to present a paper. Retrospective applications are restricted to travel within the six month period immediately prior to the relevant closing date. Closing: 31 January

Society of Petroleum Engineers Scholarship: Value: \$4,000 for one year. Open to undergraduates and postgraduates studying petroleum engineering. Details: Tom Paspaliaris, Santos Ltd, 8224 7910 or Patrick McCarthy, Boral Energy Resources Ltd 8235 3818. Closing: 15 December

Wyatt Benevolent Institution University Scholarships for Country Students 1999: Open to students, under 25 years of age, living away from home (rural SA) while undertaking a first degree/diploma course at a SA university. Applicants must be, and have been resident, in SA for a period of less than 5 years in total, and are in reduced financial hardship (family financial circumstances will be taken into account). Value: \$3,000pa. Closing: 18 December (Scholarships)