FOR THOSE who enjoy horses as a hobby, they are a relaxing pastime. But for those looking for a career in the horse industry, it requires more than a little nous.

That’s according to renowned veterinary clinician and animal science lecturer Dr Robyn Woodward. With skills sought after the world over, Dr Woodward knows that the next generation of would-be stars entering the horse world are inadequately prepared for the demands and pressures associated with the fast-moving industry—worth $15 billion to Australia’s economy each year.

Recently appointed as course coordinator for the Diploma in Horse Husbandry & Management at the University of Adelaide’s Roseworthy Campus, Dr Woodward is turning her remarkable talents towards improving the skills of the next generation of people entering the horse industry.

Dr Woodward’s main interests are in equine artificial breeding and exercise physiology, including the monitoring of horse fitness. This has led to several years working at the Scenic Veterinary Hospital during the southern hemisphere breeding season, and then spending the northern hemisphere breeding season working with eminent veterinarian Dr Peter Scott-Dunn in Berkshire, UK.

While overseas, Dr Woodward worked with every stud to performance horses, including Her Majesty Queen Elizabeth II’s carriage, hunting and polo horses. In 1991 she accepted a position as lecturer in Animal & Veterinary Clinical in the horse, cattle and sheep enterprises at Orange Agricultural College, before finally moving back to South Australia.

“I have been involved with the industry in several different capacities, both in Australia and overseas,” she said. “This has enabled me to understand the ins and outs of the horse world and how the education system can best produce quality graduates who will be in demand by the industry.”

Dr Woodward is currently working to change the focus of the horse husbandry and management course at Roseworthy so that it has a greater business emphasis while still retaining and increasing its practical strengths.

“I believe students should graduate with good practical horse-handling skills along with a deep understanding of the horse industry and expertise in business management and strategic marketing,” she said.

“It is also very important to have an appreciation of environmental management, pasture production and management and nutrition. I also hope to introduce components in horse physiotherapy and basic equine massage.”

As well as improving elements of teaching, Dr Woodward hopes to be able to foster new relationships with key trainers and industry groups as well as developing closer links with some leading South Australian horse enterprises, such as Lindsay Park, the SA Harnes Racing Association and the South Australian Jockey Club.

While the students can already decide to enter the National Coaching Institute, she is hoping to introduce components in horse physiotherapy and basic equine massage.

The Graduation Dinner will be held on Sunday, 29 November at 6.30pm in the Banquet Room, Hyatt Regency Hotel. This year the University of Adelaide experienced its largest ever intake of international students—more than 560 in total. Among them were almost 200 students from S·I·T.

All staff who have been closely associated with the teaching and support of international students are urged to attend the dinner, which is expected to become an annual event.

Tickets for staff members and graduating students will cost $10 each and are available from International Student Support Services, Level 6, Wills Building, tel 8303 4828.

CUTTING EDGE WORK a winner

THE UNIVERSITY OF ADELAIDE’s role in establishing a thriving biotechnology industry in South Australia has been recognised with a national award.

The University’s Department of Biochemistry and its spin-off companies have won the BusinessHigher Education Round Table’s inaugural award for Outstanding Achievement in Collaborative R&D.

Three successful companies, employing more than 200 people directly and indirectly, have grown out of the department’s early recognition that the biotechnology industry had enormous economic and employment opportunities.

The three companies—BresaGen Ltd, GroPep Pty Ltd, and Bresatec Pty Ltd—are all at the cutting edge of various aspects of biotechnology and are producing big benefits in terms of import replacement and export income.

GroPep has commercialised a range of products based on insulin-like growth factors with a view to producing therapeutic products for humans. BresaGen produces animal growth hormones, human protein therapeutics, and transgenic animals including pigs with improved production characteristics and sources of organs for transplantation into humans. Bresatec produces radio isotopes and enzymes for research purposes.

The University’s Professor of Biochemistry, Peter Rathjen, said the award recognised the commercial and scientific successes growing out of his Department.

He said the work had attracted national and international investors, provided important training for young researchers, and had encouraged research collaboration between University researchers, hospitals and industry.

“The model provided by the formation of these companies has attracted a lot of interest because it safeguards the commercial and academic interests involved.”

The Vice-Chancellor, Professor Mary O’Kane, said the award was just recognition for the work of the University of Adelaide’s world-class biotechnologists and their partners.

The university’s Business Initiatives from Graduates program won an Honourable Mention for Outstanding Achievement in Collaboration in Education/Training. The program helps graduates develop good ideas for innovative products, processes or services into businesses.

— Elizabeth Butler

— David Washington

INFORMATION PROVIDED BY THE UNIVERSITY OF ADELAIDE

Graduation Dinner a first for Uni

FOR THE FIRST time ever, the University of Adelaide will hold a formal Graduation Dinner for departing international students later this month.

Some 430 undergraduate and postgraduate international students are expected to complete their courses in 1998, including the first large cohort from the Sepang Institute of Technology (S·I·T) in Malaysia.

The Graduation Dinner will be held on Sunday, 29 November at 6.30pm in the Banquet Room, Hyatt Regency Hotel.

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All staff who have been closely associated with the teaching and support of international students are urged to attend the dinner, which is expected to become an annual event.

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Dr Robyn Woodward—quality education in the horse industry.
Photo courtesy of Roseworthy Campus

Dr David Woodward.
Peer Review - Yes or No

On 11 November the Higher Education Section in The Australian carried a lead article which summaries comments made by Professor Jan Reid in a speech delivered at the University of South Australia. She referred to a so-called draft green paper prepared by the Committee of the Australian Research Grants Committee and Training and Youth Affairs, which proposed that the role of the Australian Research Council (ARC) be significantly altered and that new block funding mechanisms replace existing arrangements. The changes, if implemented, would see an end to the existence of the main competitive funding source supporting basic research, and to the national competitive funding determined by international peer review.

Professor Reid claimed in her talk that Australia’s established research universities would be favoured under the new funding schemes. I have not yet seen any details of how the proposed changes would be distributed to the newer institutions. What moved out of the “sandstones” in order to redistribute it to the newer institutions? What is not obviously so. The history of distributive systems is not a perfect one. Whether this would be the case. Indeed it is evident that the loss of peer review carried out well has been shown to be distributed to the newer institutions (and the consequent loss of Aust- nally weighted according to university credibility in the international research community). I am also concerned about the lack of financial independence of the body that explicitly funds basic research. I believe basic research is the most essential pre-condition of a knowledge-intensive society and organisations which excel at basic research are among some of the most precious assets of a contemporary society. Here it is worth noting that universities account for 25% of Australia’s expenditure on research and development. And universities are collectively responsible for much of Australia’s basic research.

Peer review, which has been the mechanism used to distribute much of the research funding in Australia, needs to be managed carefully so that it is to achieve the best results. During recent years, Ross Milbourne, I and other Chairs of the Research Grants Committee of the Australian Research Council have been involved in the peer review system. It is crucial to find true peers to do the reviewing. Combining the comments from different reviewers can be an oddity. It is important that the track records of researchers are weighted according to peer review carried out well has the advantage of providing useful feedback to those applying. It also expresses Australia’s emerging research to the international community and provides accountability to government. I firmly believe that the many advantages of the peer review system outweigh the disadvantages.

The University of Adelaide has provided strong support to the ARC over a long period of time. With many staff members serving on the Council and its Committees and Panels. I think it is fair to suggest that the Australian Government were to abandon its own peer-reviewed research funding scheme with its long and proven benefits and problems. In fact the Industry Commission Report on Research and Development, chaired by David Finder, Chairman of the Productivity Commission, Mr Gary Banks, has already looked into these issues. I think the draft report could be good reading for the Prime Minister and Dr Kemp. At a time when the Government is moving to make our society knowledge-based, some basic research would be a wise first step.

MARY O’KANE

In its leader of May 27, 1997, the Australian Financial Review claimed that “investing in higher education is the most important way advanced economies can lift productivity”. I agree. The wealth of nations is knowledge, some of it explicit and explicitly taught and learned; knowledge of self, knowledge of others, knowledge of the immortal world, knowledge of ideas, knowledge of ways to know. The wealth of nations is mostly carried around in the heads of the people (although the university Librarian will not me to forget his domain).

However, the AFR then went on to make claims about the appropriate funding of undergraduate education, which I dispute. Grants to universities for undergraduate education, instead of being commended as an investment that benefits the economy were deprecated as “middle class welfare”. The AFR’s reasoning was that, because students themselves gained so much financially from their own education, no public support for undergraduate education was needed. The editorial also implied that the Commonwealth Treasury spends more on tuition grants than it receives in turnover from graduates.

To examine the validity of these judgments, I made some of the financial consequences of Commonwealth funding of undergraduate. What is the value of the learning? Who pays for it and who benefits from it? The results of the calculations, reported in a paper delivered recently at the Conference of Economists, are summarised here.

Consider a young person who, after completing high school at age 17, ceases education and goes to work in full-time employment. After one year he obtains a small amount of financial independence, possibly to leave home for a life free of parental scrutiny; or to stay at home and support the family and still have some money to spend.

At the end of, say, three or so years, what would they have? Maybe some savings in the form of money or a car; and they would have learned something about the world of work, especially relatively unskilled work.

If, however, in three years this young person had been able to create an asset worth a quarter of a million dollars, then that reality would be regarded as quite an achievement.

Yet, this is exactly what the average undergraduate does; starting with no post-school qualification, an undergraduate goes to work at building an asset which is worth over a quarter of a million dollars in about three years.

My figuring relates to the average undergraduate as reported in the Australian census, and not specifically to graduates of the University of Adelaide. Many Adelaide graduates have complete undergraduate degrees of length greater than 3.3 years, which is the average length of an undergraduate course. Many have undertaken post-graduate education. Many will earn more than the average graduate. My calculations relate to a typical or average undergraduate, going to university straight from high school.

On average, graduates earn more than do those who finish formal education with high school. Over a lifetime, the average graduate earns almost $900,000 in today’s dollars. That is, it would require a bank deposit of $900,000, paying 5% real interest, to provide enough capital and interest to draw down to generate the annual income of the average graduate over a working life.

While the graduate earns $900,000 over a lifetime, the average non-graduate earns a quarter of a million dollars less. This is the sense in which university education, in three and a half years, adds a quarter of a million dollars to the person.

Economists call these sorts of calculation the estimation of “human capital”. The average graduate’s human capital is $900,000, of which university education is responsible for about a quarter of a million. (The word capital comes from the Latin caput or head, and your human capital is what you carry around in your head.)

In my conference paper, I report that the general picture remains the same on all these adjustments. On the assumption that, even if they had not attended university, those who do in fact go to university study would have earned more than the average non-graduate.

Who gets the quarter of a million? Roughly speaking, it is shared 50/50 between the graduate and the Commonwealth Treasury. What I mean is that, after recouping its outlays on undergraduate education, the Commonwealth Treasury collects another $100,000 in additional taxes, extra 5% above the income taxes paid by the non-graduate. (HECS repayments are small in comparison with regular taxes.)

Students, their families and friends, and government, invest in human capital as half the financial benefit. Now, government is partner in all legitimate, taxing, money-making activities, but there is no evidence that the Commonwealth Treasury invest to in all such activities. However, an economic justification for public investment in education is that, without adequate and appropriate government investment in education, there will not be enough education; and the investment pays off. That is to say, in the absence of a market for whom education spending would yield a great net benefit for society will not receive any education or enough education. Instead there will be more education.

Importantly, equity grounds and economic calculation point in the same direction: the sorts of arguments that are commonly made in favour of public support for higher education on the basis of equity, lead to very similar policy conclusions as are supported by argument solely based on grounds of economic calculation.

Investment in human capital is an unusual investment. A student cannot sell ‘shares’ in him- or herself in the stock market, and realise the security of the yet-to-be-formed asset. For this and associate reasons, there is greater economic scope for government to be a partner in education. For it is an encouraging investment in human capital than there is economic scope for government to assist most other investments, taxing, money-making activities, in all of which government is a partner. Educational investment is different.

As well as enhanced earning power, higher education brings personal benefits in other forms. Not only does higher education develop the mind and spirit, but it also opens up opportunities for the kinds of employment that allow for further development of the mind and spirit. For many people, the most significant effect is that they become more accomplished persons, more interesting to themselves and to their friends and lovers. For others, the liberation and development of the mind primarily manifests in activities beyond family and friends, to the building and protecting what is properly called civil society of voluntary associations and actions.

This then is the ultimate argument why government should support higher education. It should support education to better society and better world by ensuring everyone has an equal opportunity to contribute to that better society and better world.
Young leader named SA's young achiever of the year

MIA HANDSHIN, University of Adelaide Arts/Law student and youth advocate, has been chosen as Young South Australian of the Year at an award ceremony once again dominated by University nominees.

A total of eight past or present University of Adelaide students were nominated in five categories for the award.

Ms Handshin won the Mitre 10 Community Service Award and was South Australian of the Year at an award ceremony in January next year.

Nominees included: Ms Rachel Barratt (Unilever Environment Award), Mr Grant Doyle and Ms Niki Vasiliakis (Medibank Private Arts Award), Mr Timothy Goh and Mr Nam Nguyen (Minister Youth Affairs Career Achievement Award), and Ms Rebecca Whyatt (SA Water Science & Technology Award).

The winners in each category of the awards are automatically nominated for Young Australian of the Year, and with the national winner announced in January next year.

— David Ellis

Captive lives the focus of public lecture

THE TRAGIC tale of indigenous Australian Tambo Cunningham has been told on stage from their homes and put on show in the US and Europe last century will be the focus of a new public lecture in Adelaide.

On Friday, 4 December Ms Roslyn Poignant, an Australian-born scholar based in London, will deliver a public lecture on the research associated with her exhibition "Captive Lives: Looking for Tambo and His Companions" which is coming to the South Australian Museum in February 1999.

Ms Poignet, a Visiting Fellow at ANU’s Centre for Cross Cultural Research during 1997, comes to Adelaide as a keynote speaker at the Cultural Studies Association of Australia national conference, co-hosted by the University of Adelaide, University of SA and Flinders University.

Tambo first came to public attention in 1993 when news flashed around the world that the mummified body of a North Queensland Aborigine had been found in the basement of a funeral home in Cleveland, Ohio. Two of Tambo’s descendants and a senior elder of the Palm Island community travelled to the US to repatriate his remains. He was eventually laid to rest in his own land exactly 110 years after his death in 1884.

What happened to Tambo and his companions has been of ongoing interest to Ms Poignet, who is also preparing a book on the subject.

Tambo was one of nine Aborigines removed from Palm Island, Hinchinbrook Island and the mainland of North Queensland in 1883 by American showman R.A. Barnum’s circus. Dispossessed of their lands, Tambo and the others performed in circuses, dime show museums and national exhibitions in the US and Europe for some 16 years, steadily reducing in number.

Ms Poignant’s research attempts to reconstruct the personal and local histories of these people. In this public lecture, drawn in part from consultation with Aboriginal communities, will effect a kind of reconciliation through public storytelling.

The lecture will be held at 7.30pm on 4 December in room CB1:14 of the Centennial Building, University of South Australia’s City East Campus. All are welcome.

— Dr Kay Schaffer, Social Inquiry

Trying out a different mortarboard

BRICKWORK on the University of Adelaide’s new $6.5 million Engineering and Mathematics building has begun, with the Vice-Chancellor, Professor Mary O’Kane, picking up a trowel and lending a hand.

The new building is part of the $41 million revamp of the North Terrace campus’s lower level. A staggering 120,000 red bricks will be used on the five-storey building, the CSR-supplied bricks (“Navarino Red”), in keeping with the colour and texture of the bricks on the existing adjoining buildings.

Integrated Construction started site work in June this year, with the building expected to be completed by August 1999.

The new building will house offices, seminar rooms and computer design suites for the faculties of Engineering and Mathematical & Computer Sciences.

— David Ellis

‘GARDENS’ WINS ANOTHER AWARD

Gardens in South Australia 1840-1940 (Adelaidean, 26 October, p.6) has won another award for its research scholarship. The report, prepared by Dr David J ones and Dr Pauline Payne, has been published by the Friends of the State Library of South Australia.

The intensive three-day program of workshops, seminars and discussions gives ambitious graduates the chance to meet arts industry professionals in an informal environment.

Speakers include national and international experts from theatre, music, visual and media, business and career management.

The school is open to graduates from all Helpmann Academy partners. For further information, contact Sheila Bryant, tel 8303 3692, fax 8303 4406.

SOCIAL SCIENCES FELLOW

Professor Richard Pomfret, head of the Department of Economics, has been elected a Fellow of the Academy of the Social Sciences in Australia. Fellows of the Academy are elected on the basis of having made a substantial contribution to one or more of the Social Sciences, recognised internationally.

Professor Pomfret is recognised as one of the world’s leading experts on Central Asia and has acted as an adviser to the United Nations, the World Bank and the Australian Government.

Recently he gave keynote addresses at two international conferences on (and in) Central Asia: a UN conference (in Almaty, Kazakhstan) on reducing poverty in the region, and a World Wildlife Fund conference (in Urumqi, western China) on sustainable development in Central Asia.

Professor Pomfret’s research interests currently centre on economic development and international economics. He is the author of 13 books, one of which, The Economies of Central Asia—the result of a year’s work with the UN as adviser on macroeconomic policy to the Asian republics of the former Soviet Union—is the leading text on the subject.

CAROL WHITELOCK TALKS

The final talk for 1998 in the popular “Wednesdays at Mark’s College” series was taken by Professor Carol Whitelock, discussing the books which have influenced her life.

The 1999 series will get under way on 3 February, Institute Building, North Terrace. Admission $5 ($3 concession and Friends).
Pushing the boundaries of molecular research

STARTING with what are thought to be the chemical precursors to life, two of the University of Adelaide’s leading chemists are synthesising molecules in two separate areas of cutting-edge research.

With Professor John Bowie uses the chemicals to make and understand interstellar molecules which only last for a second or so, Professor Michael Bruce modifies and stabilises them with metals to try and make new materials for future use.

The two share an Australian Research Council Large Grant of $186,000 over three years to push the boundaries in their respective but related areas of research.

Professor Bowie is interested in organic molecules found in interstellar space and circumstellar gas and dust envelopes which surround red giant stars. Some 118 interstellar and circumstellar molecules have been detected by spectroscopic methods.

Interstellar refers to anywhere in space, while a circumstellar envelope refers to the area directly around a star or an exploded star. When a star implodes, a whole series of chemical reactions take place in extremely high temperatures creating many precursors to molecules which are in the dust clouds surrounding the exploded sun.

“Some of these molecules may be the precursors to amino acids which are the first building blocks of life,” said Professor Bowie.

“Well known scientist Fred Hoyle has been saying for years that the chemicals of life originated not on the primitive earth but in intergalactic space.”

Professor Bowie’s research group is making the molecules found in the circumstellar envelope in the laboratory—some for the first time.

“Very few people can actually synthesise these molecules because they are not the sort of thing you can make at the bench in a chemistry laboratory,” Professor Bowie said.

“These compounds are very transient species. They may only live for a few seconds at the very most and have unusual structures. This work could not be done without access to the world class technology available at the University.”

“Very simply, we first synthesise the world class technology available at the University, then put them into the mass spectrometer and ionise them and make negative ions which means we can then convert these negative charged species into neutrals by stripping an electron off them in the mass spectrometer. It is the neutrals which have been detected in the circumstellar envelope. Using supercomputers we calculate their structures and examine their behaviour in the mass spectrometer.”

“Our aim is essentially to make what has not been made before. These molecules do not have any commercial application because alone they have no extended stability, but once they are stabilised with metal for example, they are very electron rich which means electrons can flow along between the molecule link which can act like a switch or a conductor.”

Professor Michael Bruce and Professor John Bowie—“Our aim is essentially to make what has not been made before.” Photos: David Ellis

Enter the research of Professor Bruce. Using the same chemical precursors to synthesise molecules, Professor Bruce is seeking to trap those molecules normally highly reactive in the free state—and stabilise them.

“We’ve discovered that molecules which contain two metal atoms linked by a chain of carbon atoms communi- cate electronically, so the carbon atoms are behaving like a wire,” said Professor Bruce.

Collaborating with laboratories interstate and overseas, this discovery was confirmed through work conducted first in Moscow, then in Canberra, Melbourne and Rennes in France.

To assist the research further, Professor Bruce is working with a theoretical chemist, Professor Jean-Francois Halet from the Université de Rennes.

Stabilising these molecules by linking them between a chain of carbon atoms and adding a metal atom at each end has meant the creation of new materials with huge potential to be used as conductors or switches in various electronic apparatus.

With such potential for commercial application, the research is highly competitive. Professor Bruce has been making these molecules for three years with only three or four other groups in the world also making them.

They are now looking at changing one or two of the carbon atoms with other elements such as boron, nitrogen or oxygen to see what effect this has on changing the properties in terms of electronic transmission.

At the same time we don’t really know the extent that this research could be useful because we haven’t explored all the options yet. “All of us who are involved in basic or fundamental research have a tremendous sense of satisfaction when we make a discovery that means we now know something more about what is happening. This is really what keeps us going.” —Rebekah Washington

Dr Paul Nelson has been awarded the coveted Harold Woolhouse Prize valued at $1000 for the best PhD thesis submitted to the Faculty of Agricultural & Natural Resource Sciences in 1997.

Entitled “Organic Matter in Sodic Soils: its Nature, Decomposition and Influence on Clay Dispersions”, this work was deemed to have been the best on the basis of reports of external examiners of the theses, refereed publications and other measurable attributes of quality.

Dr Nelson graduated from the University of Adelaide with a Bachelor of Agricultural Science in 1987 and after working for several years was successful in winning a scholarship with the CRC for Soil & Land Management, enabling him to complete his PhD with the Department of Soil Science at the Waite Campus.

Dr Nelson now works in Queensland with the Bureau of Sugar Experiment Stations, in a position funded by the CRC for Sustainable Sugar Production.

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“You are interested in finding out how the material changes into another—that’s how we make progress and make new materials.”

“Chemistry is the science of change,” said Professor Bruce.

“And although my particular expertise is not to make molecular wires to attach them to bits of a computer for example, the principle that this could be useful for this sort of thing is certainly guiding our work.”

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Cancer links to mobile phones examined

FEW RESEARCH projects have the potential political and economic ramifications of the University of Adelaide’s Institute of Medical and Veterinary Science (IMVS) study into the health effects of radiation emitted from mobile phones.

The $1 million study—beginning in February 1999—has been watched closely by governments across the world, groups such as the World Health Organisation and as well as the massive global telecommunications industry.

The study, funded by the National Health and Medical Research Council, will be the most sophisticated and comprehensive examination of the biological effects of low level radiofrequency electromagnetic fields yet undertaken.

The work is being carefully monitored by an international panel and experiments will be conducted in a "closed" IMVS animal laboratory. Workers enter the lab through an air-lock (after changing all of their clothes), and the air is sterilised and filtered.

Inside the lab, a vast colony of transgenic mouse will be subjected to one hour of electromagnetic radiation—in comparable amounts to humans who use mobile phones—five days a week for two years.

The transgenic mice, which arrive from New York in February, all have a tiny piece of human DNA which makes them susceptible to lymphoma. This susceptibility will highlight any effects of the radiation on the cells of the animals.

The study will be “double-blinded”. The technicians and scientists working on the study will not have any way of knowing which mice have been receiving radiation, and which are part of the control group. None of the research team has worked on previous studies into this issue undertaken at the IMVS, to ensure objectivity.

The work is due to be completed in April 2001.

Professor Barrie Vernon-Roberts, Professor of Pathology at the University of Adelaide and Director of the IMVS, said the great care taken in the design of the study was a reflection of the enormous implications of the work.

"If this study does find that exposure causes or contributes to tumours in the entire animal, then the work will be scrutinised very closely," he said.

"It's extremely sensitive."

Dr Tim Kuchel, the Head of the IMVS Veterinary Services Division, added:

"There must be no cause for criticism in the way this study has been conducted and designed,” he said.

"The system for exposing the animals to the radiation is meticulously designed. Looking similar to a ferris wheel, the animals are kept at a uniform distance from the exposure source.

Electromagnetic radiation is emitted from a wide range of common appliances including televisions, computer monitors, microwave ovens, radios and power lines. Mobile phones emit mid-range levels of such radiation compared with other appliances (power lines are at the low end of the scale, microwaves are at the top). However, the fact that mobile phones are constantly pressed against the head and carried close to the body has raised particular concerns about their use.

Studies so far indicate that electromagnetic radiation may have a biological effect at the cellular level, with concerns being raised about the risk of lymphoma. These concerns are particularly common among mice subjected to electromagnetic radiation. The equipment for the study was a reflection of the work that has already been undertaken.

"We have three veterinary pathologists, one of whom is also a radiation biologist. We have outstanding pathology facilities and the IMVS has significant expertise in cancer research, through the Hanson Centre for Cancer Research. "The IMVS is unusual in having medical and veterinary science together. Even in the United States, you would come across this sort of combination very rarely."

The study has been approved by the animal ethics committees of the IMVS and the University of Adelaide.

— David Washington

Getting to the bottom of global cooling

IN WHAT is widely regarded as a major coup for Australian science, Adelaide geologist Dr Brian McGowan along with two colleagues elsewhere last year secured the services of the JOIDES Resolution deep ocean drilling vessel to obtain seabed core samples from Australia's southern continental margin.

The significance of these core samples for research being undertaken at the University of Adelaide’s Department of Geology & Geophysics by Dr McGowan and Dr Qianyu Li is that they will provide the key to a better understanding of the cooling of the earth’s oceans, which began somewhat abruptly about 42 million years ago.

The Great Australian Bight project was scheduled to start last month, having already been put on the top of the list of the 100-plus projects submitted to the International Ocean Drilling Program (IODP) within recent years.

The JOIDES Resolution, centrepiece of the ODGP research program, carries out six projects each year in waters up to 8 kilometres deep, adding to the global body of knowledge about the earth's oceanic geology.

"In terms of significance, ODGP as a scientific enterprise rates alongside the moon landing and the human genome project,” Dr McGowan said.

"What makes our drilling project unusual is the fact that Australia has such a long southern coastline. This puts us in the box seat to carry out research into sea level change at the northern end of the Southern Ocean, the engine room of global cooling.”

The Southern Ocean achieved this prominence as a result of continental drift which tore apart the ancient southern continent of Gondwanaland. About 42 million years ago, as Australia drifted northwards, a circumpolar current began to flow around Antarctica. Meanwhile, the Pacific Indian throughway above New Guinea constricted, setting up a new regime of global ocean currents. From then on, heat flowed more efficiently from tropics to poles, and the earth began to cool.

Antarctica, once covered in forests of giant fern trees and southern beeches, accumulated a covering of ice and snow, and the rainforests which grew over much of Australia shrank to their present distributions and disappeared. Southward flow of great ice sheets, over ancient oceanic crust, accumulated in their thousands per cubic centimetre of sediment, holding within their fossilised shells a very precise record of changes to carbon, oxygen and nutrient levels carried by ancient ocean waters.

Many samples of these fossils have been collected from sites exposed on dry land in southern Australia as well as from coastal sites and the shallow waters of the Great Australian Bight—but very few samples have yet been obtained further offshore to fill out the stratigraphic record.

Dr Li went aboard the JOIDES Resolution last month as it carried out exploratory drilling work in the region in waters up to four kilometres deep.

"On this campus we have a combination of the elements needed to do the work," he said.

"We have three veterinary pathologists, one of whom is also a radiation biologist. We have outstanding pathology facilities and the IMVS has significant expertise in cancer research, through the Hanson Centre for Cancer Research. "The IMVS is unusual in having medical and veterinary science together. Even in the United States, you would come across this sort of combination very rarely."

The study has been approved by the animal ethics committees of the IMVS and the University of Adelaide.

— David Washington

Mobile phones— new research being watched closely by governments, health groups and the telecommunications industry. Photo: David Ellis

Mobile phones are constantly pressed against the head and brought close to the body, making them susceptible to lymphoma. This is a reflection of the work that has already been undertaken.

— Tony Cox
Body Image Revolution

You can be a part of it—by participating in a new study.

The University of Adelaide’s Department of Anatomical Sciences is seeking women to take part in a study of the Changing Size & Shape of Australian Women.

We need female volunteers aged 18 to 74 years who would be willing to spend about 30 minutes to have some body measurements and photographs of body posture taken.

Confidentiality will be ensured.

Names of participants will not be used and the face will be partially covered when photographs are taken.

The study is aimed at better understanding the “average” size and shape of Australian women.

If you would like to assist contact Professor Hennesberg or Kath Berry during office hours: 8303 5998.

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 Bureau 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
• Financial assistance packages
• Access to financial assistance schemes
• Full colour brochures that can be overprinted
• Advice on conference facilities, venues and catering

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

EXCELLENCE in teaching

Student teachers win prize

EXCELLENCE in teaching performance by two University of Adelaide students has been awarded by the Satisfac Credit Union.

Satisfac, which has had long associations with the teaching profession in this State, has awarded $800 to the top two teaching performance students within the Department of Education.

Music student Ms Vanessa Abela, who taught at both a State school and an independent school, was rated as being outstanding by all her supervisors.

Their comments included: “an excellent communicator and a good listener... a first rate music educator... managed her classes with confidence and sensitivity to those individuals who required very careful handling... she not only coped admirably but developed a good rapport with students”.

“She confident presence in the classroom had the students intrigued...” wrote one supervisor. “Just who was this nice person who had raised her voice at them, obviously knew what she was talking about, and could give them clear directions”.

“How did she learn our names so fast—and ask us questions? She was a student teacher, wasn’t she? Don’t we muck around for student teachers? ... She had our students pegged, and they soon worked it out.”

The second award winner, Mr Mason Wiles, was a teacher in the English and humanities areas, and again taught at a college and a State school.

Comments made in his reports included these: “He shows a real flair for teaching English, planning and preparation were exemplary... has a thoughtful and calm manner in relation to classroom incidents. He is to be especially commended on dealing with, and defuse, conflicts and potential disruptions.... demonstrated a high commitment to the learning needs of his students. He demonstrated an excellent knowledge of his subject... and a genuine enthusiasm for his material, which was naturally transferred to his students.”

“Mr Mason Wiles, Ms Karen Starr and Ms Vanessa Abela—Satisfac awards for teaching practice. Photo: David Ellis

For more information about the Satisfac Credit Union, contact national leader Simone Sietama on (02) 9412 2236.

Australian tourism commission, Jetset Travel, Ansett and other sponsors.

“There’s a lot of support for this program, and it’s something that Australia and the people who take part in it can really benefit from.”

— David Ellis

Ship for World Youth

HONOURS STUDENT MS KIRSTY MUNRO is one of a dozen young Australians selected to represent her country aboard the Ship for World Youth in 1999.

The ship, which sets sail from Japan in January, will visit several countries in Asia, the South Pacific, South and Central America over two months.

Delegates from 12 nations including Japan, Canada, the US, New Zealand and Mexico will also be aboard the ship, forming a close cultural and informational exchange.

Ms Munro was one of the 13 Australian delegates chosen out of almost 120 applicants.

Currently completing Honours in International Studies and Japanese at the University of Adelaide and a Bachelor of Music at TAFE, Ms Munro joins a contingent of young Aussies from a wide range of backgrounds who represent this country’s unique multicultural flavour.

The Ship for World Youth is an initiative of the Prime Minister’s Office in Japan and is run every two years for young people aged 20-29.

Ship-board activities include lectures and seminars on such issues as human rights, the environment and politics. Each nation also makes a presentation about the history, culture and contemporary life of their country.

While in Japan, those on the exchange will meet with the Crown Prince and Prime Minister of Japan and will live for a short period of time with a Japanese family.

“It should be an amazing experience,” said Ms Munro, who last year studied in Japan as part of her arts degree and worked as an interpreter during the Nagano Winter Olympics.

“I first heard about the program through a student at Adelaide Uni who had been on the ship two years ago. At the time I’d just got back from Japan. It sounded like a great opportunity, she said.

Ms Munro said she was thrilled to have been chosen for the voyage, which is the most prestigious of its kind in the world.

“I’m not entirely sure what I’m going to experience, but that’s not necessarily a bad thing.

“The voyage is as much about the people you meet and what you can learn from them as it is about a geographical journey. It’s a journey into yourself, a personal exploration as well as an exploration of other cultures.

“It’s really a year’s worth of experience all within two months, so I’m sure it’s going to be very exciting,” Ms Munro said although she was yet to set foot aboard the Ship for World Youth, she would already recommend the experience to others.

“One of the things the Ship for World Youth delegates are trying to do is bring attention to the program and promote it to other young people.

“I feel extremely lucky to have been chosen on this occasion and I think other students should have the opportunity to explore what’s out there and seek out programs like this.”

“We’re also seeking sponsors. So far we’ve had some amazing responses from Two Dogs Lemonade, Yalumba wines, Jacob’s Creek, the South Australian tourism commission, Jetset Travel, Ansett and other sponsors.

“There’s a lot of support for this program, and it’s something that Australia and the people who take part in it can really benefit from.”

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Leadership award to Ag Science graduate

Agricultural science graduate Thomas Murrell (BAG ’95) has received the Henry Best Leadership Award. The Fellowships were established in 1998 by Dr John Best AM, Emeritus Professor Sir Henry Harris, Emeritus Professor Bill Roediger from our Department of European Studies and General Linguistics, Miss Karen Westwood, Department of Botany. The Australian, performed the opening. The Oxford Science Park is a joint venture between Magdalen College, Oxford University and the Royal Society Open Days and soirees took place on 17–18 June and the Lord Florey Society Dinner was held at Lincoln College on 10 July. My wife and I and Dr Anne Rendell attended the Memorial Service in Westminster Abbey. Evensong was conducted by the Very Reverend Dr Wesley Carr, Rector of Lincoln College. Wreaths were laid on Lord Florey’s memorial stone in the north transept by Mrs Daphne Hamilton-Flood, Chairman of Nungalinya College, and Dr Sir Robert May, himself an Australian, performed the opening. He mentioned, inter alia, Florey’s all-round sporting abilities and that whilst working at Cambridge University he played County Cricket for Cambridgeshire.

At 6:00pm Dr Best and Mr Geoffrey Marshall, Provost of Queens College, hosted a reception in the Library of Queens’ College where Lord Florey had been Provost in his latter years. A selection of Florey’s Medals and citations on loan from the Ashmolean Museum were on display. The final event was the Florey Memorial Dinner at Magdalen College. His Excellency Mr Phillip Flood proposed the toast to Lord Florey, to which Professor Richard Larkin, Chairman of the NH&MRC, responded. A Mardi custom was observed in which guests were moved to other places at the table before being served cheese and coffee. This led to our meeting the family of the late Professor Gwyn Macdiarmid, author of Howard Florey, The Making of a Great Scientist. This memorable experience in the grandeur of Magdalen Dining Hall rounded off the Florey Centenary Celebrations. We wish to express our appreciation to Dr Best for the opportunity to attend these memorable functions.

– Richard Brock, MBS 1948

Dr Brock played a key role in celebrations of Florey’s achievements coordinated by the Alumni Association’s Florey Medical Chapter to commemorate the 50th anniversary of his Nobel Prize in 1995, and the centenary of his birth this year.

The Florey Centenary celebrations in England

IT IS TO the credit of Dr John Best AM, M.D., Ph.D., Chair of the Australian Institute of Political Science and the Howard Florey World-Wide, Minister of Health, that it has been possible to celebrate the Florey Centenary in Canberra, Melbourne, Adelaide and the UK this year. Minister of Health, that it has been possible to celebrate the Florey Centenary in Canberra, Melbourne, Adelaide and the UK this year.

Dr Best invited those of his Adelaide committee who could do so to attend the celebrations that had been arranged in England. The Royal Society Open Days and soirees took place on 17–18 June and the Lord Florey Society Dinner was held at Lincoln College on 10 July. My wife and I and Dr Anne Rendell attended the Memorial Service in Westminster Abbey. Evensong was conducted by the Very Reverend Dr Wesley Carr, Rector of Lincoln College. Wreaths were laid on Lord Florey’s memorial stone in the north transept by Mrs Daphne Hamilton-Flood, Chairman of Nungalinya College, and Dr Sir Robert May, himself an Australian, performed the opening. He mentioned, inter alia, Florey’s all-round sporting abilities and that whilst working at Cambridge University he played County Cricket for Cambridgeshire.

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Alumni Association assists doctoral students through grants

The Alumni Association is delighted to be able to assist these students in their work and wishes them well with their studies.

The next round of Mutual Community Postgraduate Travel Grants will be advertised in March/April 1999. These grants are funded through a project of the Alumni Association and Mutual Community Health Insurance providers. The next round of AUG/URC Heddle Awards, which are funded through a fund set up by the former Graduates’ Union, will be advertised in August 1999.

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FOR A PLACE THAT houses only 18 students, Mattanya Housing Association is a true melting pot.

Ninety percent of the students are from interstate, they are aged from 18 to 50 and are studying courses ranging from music to medicine. What binds them together is that they are all Aboriginal or Torres Strait Islander people.

Nick Leidig, a 28-year-old Aboriginal student in his final year of a BA (Aboriginal Affairs Administration) at the University of South Australia, has recently been handed the task of ensuring that Mattanya is a harmonious and effective community of scholars.

He has been appointed Academic Director of Mattanya for two years, a task for which he is well prepared given his experiences both as a student and as a manager with Aboriginal Hosts.

Located in restored heritage houses in Finniss St, North Adelaide, Mattanya is a unique experiment in student housing affiliated with the University of Adelaide.

Finding appropriate and affordable accommodation is seen by many Aboriginal people as a barrier to successful university study, particularly because so many travel interstate to study.

Mr Leidig said Mattanya aims to improve the success and retention rates of Aboriginal people at university by creating a supportive community, as well as providing high-quality student housing.

“There are various reasons why there is a high attrition rate among indigenous students at university, but I think the University of Adelaide has an advantage in having Mattanya,” he said.

“It shows to the students that the University is serious about addressing their needs.”

This is an important message to convey, given the sense of alienation which many indigenous students can feel at university.

“This place seeks to break down the alienation that is there, and offers a cultural atmosphere where students can meet their own people and be supported.”

“Mattanya is the Kaurna word for ‘owner’ and that is an important concept in this place—to give students a sense of ownership and responsibility in the running of Mattanya. They are responsible for the upkeep of Mattanya.”

“I would like to hope that some of the students here can develop a really strong bond with others, and have the kind of supportive networks that are needed to get them through their studies.”

“The people here hate to see someone drop out. When they see someone struggling they really support them in their studies and their life so that they can get through.”

He responds clearly to questions about why such a project is needed specifically for Aboriginal and Torres Strait Islander people.

“This is not a new idea,” he said. “There are many housing associations specifically designed to address the needs of disadvantaged groups within our society.

“This may be part of the transition for Aboriginal people. We may eventually break down the barriers that exist, but at the moment Aboriginal people are comfortable to be with each other and need that support.”

Mr Leidig, who identifies with the Kaurna and Ngarrindjeri people, grew up in several different States and therefore had a disrupted time at high school.

He worked with Aboriginal Hosts, a group which provides accommodation for Aboriginal and Torres Strait Islander people in need, whilst studying at university.

“I found university much more conducive to study than school,” he said. In particular, he appreciated being treated with respect and not being called by the broader range of subject areas on offer.

“I would like to encourage students who didn’t have a great time at school to come to university, because through their studies they can find a lot of satisfaction.”

“Being able to study more about culture and history at university has been very important to me—a critical factor in my university life.”

Mr Leidig is also the Aboriginal and Torres Strait Islander representative in the Students’ Association of the University of South Australia.

— David Washington
Medical Research B1 Funding 1999

In December 1999 the Research Committee of the Division of Health Sciences wishes to allocate the B1 Category of Funding for Medical Research. These funds are intended to provide some support to researchers of externally refereed grant applications which have not received funding for 1999 with a view to the applications will be submitted for funding in 2000.

Applications for B1 Category Funding are hereby invited from chief investigators of grant applications to the following bodies:
- National Health & Medical Research Council
- Australian Research Council
- Heart Foundation
- Kidney Foundation

which were submitted in 1998 but were not funded for 1999.

Eligibility: All academic staff, affiliate and clinical title holders of the University of Adelaide are eligible to apply. For applications submitted, but not funded by the National Health and Medical Research Council, the minimum score required for consideration by the Committee will be 7.4. Applications submitted to other externally refereed competitive granting bodies should be of a comparably high standard and should provide evidence for both the score and the relevant scaling system.

Application: Submit 16 copies of the original grant application, all comments and scores from reviewers, and a one page summary of any further comments or answers to questions raised by reviewers in particular areas. Please also include on this page which areas are of particularly high priority for funding together with an appropriate justification.

Funding for applications is limited - maximal sums awarded per application have not exceeded $10,000 in previous years.

All material should be sent to Stella Richards, Faculty of Medicine Office, to be received no later than Tuesday 1 December 1998.

National Teaching and Staff Development Grants

The Committee for University Teaching and Staff Development (CUTSD) has recently called for applications for National Teaching Development Grants (Organisational) and Staff Development Grants.

Staff are invited to submit expressions of interest in applying for these grants and also for National Teaching Development Grants (Individual).

Expressions of interest on the appropriate form must reach the Office of the Deputy Vice-Chancellor by close of business on 7 December 1998.

Expressions of interest will be considered by a small working group chaired by the Deputy Vice-Chancellor. From the expressions of interest submitted, the working group will select projects to be developed into full CUTSD applications. Small grants may be made to assist in the development of the applications.


If you have any queries please contact Andrew Starcovic on extension 3616, by call or by email at <astarcovic@registry.adelaide.edu.au>.

COMING EVENTS

November 23rd — 4th December 2018

MONDAY 23 NOVEMBER

1.00pm Microbiology & Immunology Seminar: Chronic myeloid leukemia biology—Application of a murine model by Dr Tim Hughes (Division of Haematology, Hanson Centre for Cancer Research IMVS), Departmental Library, 5th Floor, Medical School South.

1.10pm History Staff/Post-graduate Research Proposals: The food culture of 19th century emigrant Poles and its evolution in the Barossa Valley by Ms Angela Hazenroeder. Faith, gender and food culture of 19th century emigrant society: religion in 20th century Australia by Ms Julia Pitman. Common Room 420, 4th Floor, Napier Building.

WEDNESDAY 25 NOVEMBER

1.10pm Genetics Seminar: Functional studies of laminin-1 and its consequence of atherosclerosis by Dr Mats Falk (visiting researchers). Seminar Room, Fisher Blvd.

THURSDAY 26 NOVEMBER

12noon HCCR/IMVS Seminar: Lipoprotein oxidation: a cause or consequence of atherosclerosis by Dr Roland Stocker (Head Biochemistry, Heart Research Institute, Sydney). Verco Theatre, IMVS.

4.00pm The Role of Universities in Australia in 2010: Speaker - Associate Professor Shirley Alexander

MONDAY 30 NOVEMBER

1.00pm Microbiology & Immunology Seminar: Molecular analysis of pneumococcal virulence factors by Associate Professor James Paton (Molecular Microbiology Unit, WCH). Departmental Library, 5th Floor, Medical School South.

1.00pm Graduate School of Education Seminars: In Search of a Culture of Excellence by Ms Susana Manzon (Managing Director, Public and International Relations, University of Asia and the Pacific, Manila), Schulz Room, 1st Floor, Education Building.


5.00pm CISME Seminar: The Philippines - A Hundred Years of Civic Education by Ms Susana Manzon (Managing Director, Public and International Relations, University of Asia and the Pacific, Manila), Schulz Room, 1st Floor, Education Building.

12noon HCCR/IMVS Seminar: Mammalian cbl proteins central protein in receptor signalling and cytokinase efflux: and prospect for its modulation in humans by Dr Len Kirtharides (Heart Research Institute, Sydney). Verco Theatre, IMVS.

THURSDAY 3 DECEMBER

12noon HCCR/IMVS Seminar: Mammalian cbl proteins central protein in receptor signalling and cytokinase efflux: and prospect for its modulation in humans by Dr Len Kirtharides (Heart Research Institute, Sydney). Verco Theatre, IMVS.

6.00pm CISME Seminar: Restorative Justice in New Zealand: Keeping Young Offenders Out of Jail by judge Heather Simpson (District Court Judge, NZ). Common Room, 7th Floor, Hughes Building. Refreshments from 5.30pm.

FRIDAY 4 DECEMBER

12.45pm Dentistry Seminar: Occlusal variation in the primary dentition of Australian twins and singletons by Candy Thomas (Dentistry). Lecture Theatre 1, Adelaide Dental Hospital.
Applications for the following vacancy will be considered only from members of the staff of the University.

**SITUATIONS VACANT**

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

**APPLICATIONS, IN DUPLICATE, addressing the selection criteria and quoting the relevant reference number should include résumé and names and full addresses of three referees.** 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 of the University of Adelaide’s staff newspaper for advice about the filling of the position.

**NOTICE TO APPLICANTS:** The University notifies applicants that the following vacancy for Higher Education Officer (HEO) with the reference number as stated has been filled and thanks them for their interest. 2835082 is the address for applications (C/O 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.

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**NOTICE TO APPLICANTS:** The University notifies applicants that the following vacancy for

**LECTURER A**

*Ref: 3678/3681* (Limitied Term)

Department of Pure Mathematics

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

Experience in counselling undergraduate students in the production of computer-assisted learning packages would be an advantage.

**SITUATIONS VACANT**

**Situations Vacant** - 16 December, advertising paper work must be to the Human Resources Department by 4 December 1998.

**Situations Vacant** - 18 January, advertising paper work must be to the Human Resources Department by 11 January 1999.

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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.**

B'J SCHERER, Director Finance

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**GENERAL NOTICES**

The University of Adelaide
to Members of the University Staff and Senate

ELECTION OF MEMBERS OF COUNCIL

3 December 1998

**1. Staff elections**

Three members of the academic staff to be elected by the academic staff and two members of the general staff to be elected by the general staff. Voting papers have been sent to all eligible members of staff. Any member of staff who believes he or she is eligible to vote and has not received papers may obtain voting documents on request from the Returning Officer. The following are dates by which transactions to be recorded in the accounting system in 1998 are to be received in Finance Branch.

**SUPERANNUATION**

Variations to Death and Disablement cover and Regular Voluntary contributions to TESS are allowed on 1 January and 1 July each year. Variation forms should reach the Superannuation Office by 24 December 1998.

Further information and variation forms are available by phoning the Superannuation Office, ext 35222 or 34917.

SHIRLEY SUTHERLAND

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**HUMAN RESOURCES**

**Situations Vacant/External Advertising**

As the Adelaidean will not be published during the holiday break, Human Resources will be producing information on job vacancies for December 1998/January 1999. Publication dates and deadlines for advertising material to reach Human Resources are as follows:

**Publication Date** | **Human Resources Deadline**
---|---
16 December | 4 December
18 January | 11 January
1 February | 25 January

The ‘Situations Vacant’ will be available on the Human Resources web page at: <http://www.adelaide.edu.au/HR/>. To assist departments that wish to advertise in the external press (eg Advertiser, Australian) during December/January, we advise the following deadlines:

**Publication Date** | **Human Resources deadline**
---|---
19 December | 11 December
9 January | 23 December
16 January | 8 January

**STEVIE DASYSH**, Acting Director Human Resources

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**DECLARATION OF RESULT**

SSAU Consultative Committee

Election of Academic Staff member from the University of Adelaide (one vacancy)

At the close of nominations for this vacancy, 12 noon Friday 6 November 1998, only one nomination had been received. I therefore declare the following nominee elected:

**PETER MAXWELL GILL**

**SUSAN G AEBRENN**, Returning Officer

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**DEPARTMENT OF CLINICAL AND EXPERIMENTAL PHARMACOLOGY**

**Volunteers required**

Healthy Volunteers required for a drug metabolism study involving a single urine and saliva sample. Age 18-50 / Male or Female For further information tel Janet Coller on 8303 5985 ($10 compensation paid for involvement)

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**SUSAN GRABEREN**, Returning Officer

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You should have:
- demonstrated experience and expertise in the provision of a full range of administrative functions
- completed related studies in basic financial administration
- excellent interpersonal skills
- experience in the use of Macintosh computers
- Microsoft Word and Excel

The position is available immediately for twelve months in the first instance, with the possibility of renewal. Further details from Professor Alan Pearson, tel 8303 3393, fax 8303 3770, email: <apearson@medicines. adelaide.edu.au>

• APPLICANTS to Professor A Pearson, Head, Department of Clinical Nursing, The University of Adelaide, Australia 5005, by 30 November 1998.

TECHNICAL ASSISTANT

(Ref: 3698)

Agronomy and Farming Systems - Roseworthy Campus

Salary HE03(T): $26,725 - $30,467*

*APPLICATIONS to Department of Agronomy and Farming Systems, Roseworthy Campus, Roseworthy, SA 5371 by 27 November 1998.

The Department, in collaboration with the South Australian Research Development Institute will be conducting a Grains Research and Development Corporation (GRDC) funded project, examining Eyre Peninsula Farming Systems. This position is part of this initiative.

Duties include assisting in tasks related to laboratory and field experiments concerning sustainable cropping practices for the low rainfall zones in the Eyre Peninsula. You should have completed Year 12, have the ability to undertake scientific protocols for laboratory and field experimentation, and the ability to process and enter data.

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

Salary HE03(T): $26,725 - $30,467*
Physiotherapy Clinic

ASCESMENT AND TREATMENT by registered physiotherapists undertaking postgraduate studies

TREATMENT BY APPOINTMENT ONLY

Fees
If covered by private insurance for extras (Health Fund requires)
Uninsured: $25 per visit
Students: $20 initial visit, $15 follow up visits

CLINIC HOURS
Monday, Wednesday, Friday
10.00am - 12.30pm

LOCATION
Centenary Building, Level 6 (CB6-45), School of Physiotherapy, University of South Australia. From Road entrance - Gate 1 or 2, North Terrace - Gate 23.

SOUTH AUSTRALIAN GRAIN INDUSTRY TRUST FUND

Call for Applications for 1999/2000 Research Program

The SAGITF was established in 1991 to administer the voluntary research levy, which has been collected from South Australian wheat and barley growers for many years. The responsibility for management and direction of the Program is vested with the South Australian Federation in conjunction with the SAGITF trustees.

Applications for SAGITF funding should be for research of specific relevance to the South Australian grain industry and must follow the project application guidelines circulated by the Trust.

Applications must be received by 25 January 1999 with applicants being advised of the outcome of their submission by the end of April 1999. Project commencement dates would be 1 July 1999, although some flexibility is possible.

Applicants must contact the Trust office unless otherwise stated. A more detailed application form and further details are available from M S Kathyrambaum, tel (08) 8232 5555, fax (08) 8232 2222.

South Australian Grain Industry Trust Fund, PO Box 601A, Halifax Street, Adelaide, SA 5000

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 schemes, is available at: <http://www.adelaide.edu.au/RIB>

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.infor/sps/start.html>. Select Access Spin WW and then select Spin Australia.

Department of Industry, Science & Tourism (DIST) - Technology Diffusion Program (TDP): Projects have three components: Technology Alliance; Technology Transfer; and Online Business. Further information can be obtained by applying the Research Branch, ext 35137; email <research@registry.adelaide.edu.au> or ccmail 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.infor/psp/start.html>. Select Access Spin WW and then select Spin Australia.

Women's & Children's Hospital - Clinical Research Fellowships: Applications must reach Mrs Nikki Johnson, Research Secretariat, Women's & Children's Hospital by 11 December 1998. Application forms can be obtained by contacting her on: tel 8244 6390; fax 8244 6112 or email <johnsonn@wch.sa.gov.au>. Further information about the TDP is available from the AusIndustry web site: <http://www.ausindustry.gov.au/tdp>. Further information can be obtained from the Registrar, Scholarships, or Charles and June Ross International Fellowship: Open to women scientists (natural and engineering) who are Australian citizens and graduates of an Australian university to undertake full-time graduate level study or research. Tenable in the US for one academic year. Value: $US15,400. Applications available from AUIWF, Research Fellowships and Grants, North Dodge Street, PO Box 4030, Iowa City, Iowa 52243-4030 USA. Closing: 1 December USA.

Frank Perry Scholarship in Engineering: Open to Australian citizens or permanent residents of Australia enrolled in a Masters or PhD, who hold, or expect to obtain, another major award tenable at the University of Adelaide ie an APA or University scholarship. Details on request. Closing: 30 November (Scholarship).

Fujitsu Asia Pacific Scholarship Program: Participants in this 15 month program complete a full-time one year MBA, pursue a Japanese or Chinese language and culture courses conducted jointly by Hawaii University’s College of Business Administration, and the Japan-America Institute of Management Science. Program concludes with a 3 month internship at a major Chinese or Japanese corporation. Closing: 30 November (Scholarship).

Korean Association of Science & Technology in Australia - Work Experience: Available for four weeks, 4-30 January 1999. Includes Sydney/Korea return airfares, accommodation and meals. Applicants must be majoring in science/engineering in an Australian university. Details from: Dr Sung Hock Hong (03) 9772 6248 or Dr D J Kim (02) 9385 1664.

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: $5,000. Closing: 1 December (Scholarship).

Wyatt Benevolent Institution University of South Australia College Students Scholarship: Open to students, under 25 years of age, living away from home in rural SA, while undertaking a full degree/diploma course at a SA university. Applicants must be, and have been, resident in SA for at least one year. Maximum of two years full-time study or part-time study, and are in reduced financial hardship (family financial circumstances will be taken into account). Value: $3,000pa. Closing: 1 December (Scholarship).

Charles and J une Ross International Fellowship: Open to women scientists (natural and engineering) who are Australian citizens and graduates of an Australian university to undertake full-time graduate level study or research. Tenable in the US for one academic year. Value: $US15,400. Applications available from AUIW, Research Fellowships and Grants, North Dodge Street, PO Box 4030, Iowa City, Iowa 52243-4030 USA. Closing: 1 December USA.

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