

# ADELAIDEAN

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NEWS FROM THE UNIVERSITY OF ADELAIDE

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## University on show for a successful Open Day

ABOUT 12,000 people took advantage of Open Day on Sunday 1 August, with crowds flocking to the North Terrace Campus to get a glimpse of university life.

The Career & Course Expo held in Bonython Hall was again a big drawcard, and attendances at course information talks were up by about 30% on last year.

Other events and displays, such as the Science Trail, Anatomical Sciences, Engineering and the Humanities & Social Sciences were all busy for most of the day. Muffin Mania had the visitors enthralled in Economics, while a taste of a different kind was on hand at the History of Food & Drink stall, in the form of 19th Century-style pies. The Food Technology & Management group also had mouths watering with their tastings of fresh bread.

Music delights of all kinds were on offer, from CASM's mix of traditional and contemporary, to rock band Revolver, to rehearsals of Elder Con students.

With the smell of food and the sound of music in the air, there was plenty to see, do, taste and listen to at Open Day.



The Bonython Lions got into the spirit of things by wearing gold and blue lame bows.



This robot was a big attraction in Bonython Hall.



Dr Gus Nathan discusses Engineering courses with potential students.



Professor Purnendra Jain discusses Asian Studies at Open Day.



A family takes a keen interest in the skeletons of Samorn the elephant and a giraffe.



This family was intrigued by the Mallee heath dragon on display.



Scott Lewis from the Adelaide Uni Gliding Club shows eight-year-old Bruce how to fly.



Food technology — and its results — were on show at Open Day.



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# COMMENTARY

## COPING WITH GOETHE

Bemused by this agreeable Adelaide winter sunshine, I find it easy to forgive Goethe; six months back in a vastly different form of hibernation I was less magnanimous. I do blame him for my mortification then and the ill-chosen advice he offered, which I'm glad I obstinately refused.

The affair began on 30 August last year when I was on my way, a mature age student and participant in the exchange program between the University of Adelaide and the German state of Baden-Württemberg, to complete the final semester of my Bachelor of Arts degree at the University of Konstanz. After five semesters of tertiary education, I felt ready to intensify study in my major elective structured around the language, culture and history of Germany.

Konstanz, with a population of circa 90,000, is the largest city on the shores of the Bodensee-Lake Constance—a huge lake bordering Germany, Switzerland and Austria. Fishing families were living in the region some 5,000 years ago and, by the first century AD, Roman colonisers established the strategically important settlement of Konstanz.

Today in the central old part of the city there is ample church and dwelling architecture and remnants of walls, gates and watchtowers dating back to the Middle Ages. I chose to study at the University of Konstanz, founded in 1966, because of its relatively modest size by German standards (about 10,000 students are enrolled), its interesting options offered by the Philosophy department, which included my field of English and German literature, and its peaceful rural setting overlooking the lake, and surrounded by beech, pine and birch forests.

On arrival I completed many stressful formalities with government and university sections: securing suitable accommodation, opening a bank account, taking out health insurance and registering separately as a resident, a foreigner and a student. September exhibited pleasant autumn weather and I attended a four-week language course conducted by the Goethe Institute where instruction and discussion helped ease me into German society. The winter semester at German universities begins in mid-October and I used the brief hiatus to sketch and finalise a study plan.

One need not feel alone during this settling-in period, as there are advisors on campus, students acting as voluntary sponsors and fellow residents in the living communes ready to offer advice.

Neither is entertainment far away, whether in the form of student-run pubs, meals in restaurants in the narrow alleys of the old city, ferry rides on the lake, or excursions to major cities and mountain chalets. It does depend to some extent on an individual's budget, as the cost of living in Germany is high.

The student abroad, though, soon senses the absence of a support network—often taken for granted back home—of family, friends, customs and in my case, language. I used the telephone, email and the Internet access to Australian newspapers to assuage the remoteness, and treasured receiving personal letters.

Despite this global communication network, lonely decisions must still be made; one student returned home after only one week. Initially I found it difficult to balance the academic, public and private spheres. Yet once lectures commenced and I familiarised myself with the geography of the university and city, friendships were forming with students, representing a veritable "united nations", eager to share individual and national heritages; friends at dances, parties and dinners were from such diverse countries as Estonia, Guatemala, Japan and Morocco.

The community's life can be shared through sporting clubs, church groups and service organisations; I joined the German Red Cross. There are also numerous festivities in the year's cycle to celebrate together and I found the white Christmas particularly inspiring, New Year's Eve an almost manic occasion with the unrestrained lighting of fireworks and Fasching—Carnival—just prior to the austerities of Lent, therapeutic, since it was publicly condoned to dress and act like a fool.

It was harder to satisfy my desire for the freedom of the outdoors, especially as winter set in with its icy temperatures, fog, snow and shorter days. Yet there were advantages to this inclement season: the tourists departed and the Germans locked their first love, the car, in the garage and turned to the second, the television, or simply took holidays in more benign climates. The clean air was invigorating, the roads empty and forest paths delightfully covered in fresh snow, and even study in a warm library became more attractive.

Language is a major indicator of the degree of one's acceptance in any country. In my eclectic academic and social circles it always amazed and satisfied me

by  
**AF Jenish**  
Exchange student  
in Germany

that we communicated effectively in not the universal language of English, but rather the more circumscribed and difficult one of German. In the public arena of shops and offices, though, I was often made aware with an impatient reply, a condescending smile and the small nuance of a raised eyebrow, of my language inadequacies and status as a foreigner. This "German language test" is not restricted to the Germans, as the Swiss and Austrians love to apply it too.

The student abroad can feel insecure and vulnerable and needs to identify personal weaknesses and strengths; I would often ask what is it I miss, what can I draw on to survive? Alienation stimulated my imagination, a powerful weapon, and gave me the freedom to make sense of and a home in this new milieu. On reflection, I was trying to mediate between the Australian culture residing in my heart and the one of my host nation. Although it was hard to adjust to the many people in a small country, the formal and critical manners, and the implicit demands to conform, I felt roused by the potency of coping and sobered by the realization of my individual and academic limitations.

I developed an enduring respect for Germany—the economic powerhouse of Europe—welcoming many foreign students, confronting reunification friction and helping migrants, refugees and neighbours mired in war and destitution.

I enjoyed going to my German lectures, one January morning excepted during this harsh European winter—locals said it was the worst in 20 years. I had just spent two hours discussing Goethe's *Wilhelm Meisters Lehrjahre* and its idiosyncratic verb forms, especially in the subjunctive, and a literary style redundant and amusing, when I cycled to the Dresdner bank. There I attempted to carry out my

transactions but couldn't change gears into the bank's succinct and businesslike language and, looking pretty stupid, naturally blamed Goethe; the teller understood and smiled tolerantly.

I completed my eight-month stay and returned in April this year, grateful to be home, yet immensely glad I persevered and wilfully stuck to my study-abroad plan, while latterly assailed by homesickness. Not only did I complete my degree, but I also lived with the Germans through a watershed in their history as the old government of Helmut Kohl was voted out and the new generation, led by Gerhard Schroder, took over.

The experience also helped me to appreciate my Australian heritage more and sympathise with not only Germany but also the many nations my student friends so graciously represented. I always felt that in a small way, as an exchange student, I was an ambassador with rights as a guest and responsibilities as a representative of my university and country.

Goethe's proffered advice through Wilhelm Meister—it is never advisable, without special reason, to change one's seized way of life—is rational but too cautious, and had I followed it in my life would not have gone to university nor been an exchange student in Germany.

I unreservedly recommend the Study Abroad scheme to any student inclined and able to participate, as it motivates one to achieve academically in a liberating environment where temporal history is shared, not in a nationalistic sense but a common one as earth's tenants. Moreover, it is fun to establish a diverse range of friendships and associations, which lead to professional and personal partnerships, and to look back on a unique stage of life that will always proudly echo Tennyson's Ulysses: "I am part of all that I have met".

### Exchange opportunities for students

The University of Adelaide has student exchange links with institutions in North America, Europe and Asia. These programs are suitable for students who wish to study overseas for one or two semesters and earn credit towards their University of Adelaide degree.

Students who are enrolled full time in a University of Adelaide course at the time of the exchange are eligible to participate. Tuition fees for incoming students are waived by each exchange institution but all other costs are the responsibility of the student.

Student exchange places are still available for 2000 at universities in the United States, Canada, Japan, Malaysia, Singapore, France, Germany, Denmark, Sweden and, for geography students, at Leeds University in England.

For more information, please contact the Study Abroad office, tel 8303 4379.

# German language project opens exciting possibilities

AN EMAIL experiment linking students in South Australia with students in Germany has broken new ground for language-teaching at the University of Adelaide.

Ten German Studies students from the Adelaide and Flinders campuses participated voluntarily in the project, which was started by Dr Victoria Hardwick, Lecturer in German Studies, last semester.

Each volunteer corresponded by email with a "partner" student at the Technical University of Dresden.

They discussed issues raised in an on-line course book on intercultural learning and also explored specific, nominated topics.

All correspondence was through German.

Results were so encouraging that Dr Hardwick has decided to extend the project into the current semester.

"The volunteers responded very well to the experience," she said.

"Some had never been to Germany, and they appreciated the experiment as an opportunity to extend their linguistic skills.

"Learning the finer points of another culture is an important part of language learning.

"The project helped them to improve their written language skills as well as learn about how differences between cultures can cause misunderstandings.

"It also helped some students to improve their computer skills."

Dr Hardwick's interest in computer-assisted language



Victoria Hardwick (front) with students Alix Hurst and Tom Morgenstern.  
Photo: John Drislane.

learning was stimulated by a message on an international computer network for German language teachers.

Her curiosity led her eventually to visit the Technical University of Dresden to meet Dr Ulrich Zeuner, author of the on-line course book at the centre of the email project.

Dr Hardwick is now working with two colleagues in the German Studies department, Dr Engelhard Weigl and Ms Margaret King, to restructure the book to make it more suitable to Adelaide students.

"The experiment has opened up quite exciting possibilities," Dr Hardwick said.

"Computer assisted language learning is taking off around the world, but I'm not aware of any other project in South Australia similar to ours.

"In my view, language learning has to be done principally in the classroom.

"Language is about living, breathing people, not about machines.

"I don't espouse the idea that the Internet can take the place of the classroom, but I believe we can certainly complement what goes on in the classroom with on-line courses."

—John Drislane

## Forum explores research income strategies

STRATEGIES for increasing the University of Adelaide's income from contract research were discussed at a staff forum recently.

The Deputy Vice-Chancellor (Research), Professor Ross Milbourne, told the forum that, since 1992, the University's income from contract research had not grown at anything like the rate of the Go8 universities as a whole.

He said there had been some speculation that the slowdown was the result of the University's increased participation in Cooperative Research Centres, but statistical analysis showed there was no link between the two.

Professor Milbourne said the Federal Government's recent Green Paper proposals would have a dramatic impact on returns

from contract research.

This underlined further the need for the University to develop new ideas for increasing research income.

Among the possible strategies he outlined were:

- building up major business around the University's research areas
- better matching of business opportunities with expertise
- developing a greater catchment area for research
- achieving higher profit margins on contract research work
- more flexible work allocations and
- recruiting and developing research teams.

—John Drislane

## Dunstan Foundation launched in Sydney

ABOUT 50 people attended an invitation-only dinner at the Sydney Opera House on 28 July to launch the Don Dunstan Foundation in Sydney.

The dinner was a celebration of Don Dunstan's life as well as serving to officially launch the University of Adelaide-based Foundation in NSW.

Hosted by renowned broadcaster and Foundation Trustee Mr Phillip Adams, the dinner featured two key speakers: High Court Justice Michael Kirby and Adelaide Lord Mayor Dr Jane Lomax-Smith, who is also a Trustee of the Foundation.

To make a donation or for more details about the Don Dunstan Foundation, call 1800 333 364.



## Opening fourth

On Sunday 1 August we held our fourth University Open Day since resurrecting the idea after abandoning it in the 1970s. Once again it was a great (and, thank goodness, sunny) day for the community and the younger members of the community in particular. The occasion provides a perfect opportunity for young people and their families to sample the exciting world of teaching and research which exists behind our doors. This, of course, is a very important year for us; our 125th Anniversary has offered a chance to place specific emphasis on the contribution the University has made to South Australian life and culture. A new feature of this Open Day was a special function for school leaders—school prefects and captains from around the state—who were invited to meet and speak with senior representatives of the University with a view to taking our message back to their schools. This is a great idea of Di Coffey's. Thank you Di for this and for all the hard work contributed by you and the other members of the Open Day Committee under convenor Dr Chris Dawson. And thank you to all staff and students from across the University who contributed to the success of Open Day. I am sure many of our visitors will be inspired to study here as a result. As universities face reduced funding from Governments it is more important than ever to showcase the work of the University and its benefits to the community. More than ever we need our community's support.

On Monday 2 August we welcomed Mr Geoff Dillon of Michael G Downes, Venn and Associates, who has been placed with the University to direct a major fundraising campaign. We are looking to our community—including the community of our graduates which is local, national and international—to support us. We also look to those who value the knowledge produced by the University to support us with chairs and scholarships in the interests of securing our future. In initiating a major fundraising appeal I am particularly heartened by the wonderful response we have had to the 125th Anniversary *Lumen*, "Past Illustrious-Future Unlimited" (if you haven't received your copy ring my office and we will send you one). We have received letters from all around the world—clearly our graduates enjoy reading about the University and its achievements, and it has been marvellous to hear from them.

I have stressed here the importance of the relationship between universities and the community. A university is itself a large community, in our case a community of about 15,000 people.

When tragedy strikes one part of the community it affects the whole, and we are all saddened by the death late last week of Her Excellency, the Hon Ong Siew May, the First Lady of the Republic of Singapore, who was a significant and much admired figure in our community of graduates. We also extend our deepest sympathy to the family and friends of Briana Smith, one of our bright young first year students, who died in the canyoning accident in Switzerland. As a community we sincerely regret this sad loss of two of our number.

MARY O'KANE



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# Horse course on a winner

THE "HORSE COURSE" at the University of Adelaide's Roseworthy Campus has achieved Advanced Diploma status following an extensive consultation and review with industry.

The new Advanced Diploma in Horse Husbandry & Management provides one of the best opportunities in Australia to develop valuable skills and knowledge, enabling graduates to succeed in the \$15 billion horse industry.

According to Equine Studies Program Leader Dr Robyn Woodward, the new course has been structured to meet the needs of the horse industry both within Australia and internationally.

"The programs offered at Roseworthy cover the husbandry of horses along with their relationship with the environment and appropriate land use," Dr Woodward said.

"Particular attention is also given to all aspects of horse breeding, sustainable business management and young horse development, along with the training of riders towards their NCAS EFA Level 1 and horses in the FEI disciplines. Thoroughbred and harness racing is also an integral part of the course.

"The programs are intended for



Shod for success at Roseworthy. Photo: Brenton Edwards

those people who are focused on a career in the horse industry either as a principal part of a large enterprise or in their own business," Dr Woodward said.

Students have access to the best and most dedicated team of staff from the University of Adelaide, TAFE and key horse industry leaders, including equine veterinarians, trainers, eventers, nutritionists, geneticists and business consultants.

There are excellent career opportunities in Australia and throughout the world in the

horse and supporting service industries.

The University of Adelaide's "horse course" graduates have found placement in a wide range of positions—from specialist areas such as thoroughbred stud farms, equine veterinary hospitals, pharmaceutical companies, international bloodstock transport, and training centres for the police force and film, to journalism, ecotourism, nutritional consultancies and marketing.

—Elizabeth Burns

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## 5UV gains funding for federation and oral history projects

RADIO 5UV has been awarded \$40,000 through the South Australian Federation Grants scheme to produce an ongoing series of short radio programs on aspects of the Federation story relating to this State.

The grants were announced late last month by the Premier of South Australia, Mr John Olsen.

Each program will feature a vignette of SA history, focusing on people, places and events leading up to and at the time of Federation in January 1901.

The series will be broadcast on Radio 5UV throughout the year 2000, with copies being made

available to the 30 other community radio stations in SA.

Executive Producer of Project Development at 5UV Mr Tony Ryan said the Federation series would be a valuable addition to community radio schedules across the State, and through limited release on CD would be also available for ongoing use through selected libraries and resource centres.

Options for internet distribution as "audio on demand" were being investigated, Mr Ryan said.

Radio 5UV has also been awarded grants in excess of \$10,000 to

continue the "Conversations" oral history series, which included a visit to Canberra for an extended interview with Professor Peter Karmel, formerly a member of staff of this University.

Also scheduled for production is a one hour audio tape of reminiscences relating to the foundation 40 years ago of the Australian College of Education at Geelong Grammar School in Victoria.

These oral history initiatives are funded by the Australian College of Education, with edited tapes being lodged with the Australian National Library in Canberra.

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# A new hope — 'rare' genetic disorders to be tackled by lysosomal diseases centre

JAMESON READ is one of 50 or so Australian children born every year who suffer from a particular group of severely debilitating genetic disorders.

Called lysosomal storage disorders (LSDs), not only do they result in a poor quality of life for the children and their families, they can cut life expectancy to between 5-10 years.

But thanks to more than 20 years of research, and the establishment of a new centre devoted to solving the mysteries of LSDs, sufferers like Jameson now have some hope.

The Howard Florey Lysosomal Diseases Therapeutic Centre is headed by Professor John Hopwood and is a collaborative venture between the University of Adelaide, the Women's & Children's Hospital and the Royal Adelaide Hospital.

The centre, made possible by a \$100,000 grant from the Florey Research Fund, is the culmination of Professor Hopwood's many years of work into LSDs.

"Lysosomes are in every cell in our body, and you can think of them as recycling devices," Professor Hopwood explained.

"They're responsible for breaking down or recycling waste material generated by the cells. But with a lysosomal storage disorder, that vital function is not being performed, and so the material that should be breaking down in the cell accumulates instead."

Professor Hopwood equates this with the average household kitchen: "You start off with a clean and orderly kitchen, but after you cook food or do work in the kitchen, you end up with garbage.

"If you can't take the garbage out of the kitchen for some reason, then it starts to build up. Eventually there are so many garbage bags, you can't find anywhere else to put them. There's so much rubbish that you can't work in the kitchen, and so the whole house breaks down because the kitchen is not performing its function."

With a lysosomal storage disorder, this build up of garbage in the cells can become so bad that the cells themselves can no longer function. This results in such clinical problems as stiff joints, muscles freezing up, respiratory difficulties, behavioural problems and many other debilitating conditions. At its worst stages, mobility and communication can be completely disabled.

To date, 41 different lysosomal storage disorders have been identified. In Australia alone there may be as many as 750 sufferers at one time.

Professor Hopwood and his team of researchers have been looking for new ways of helping children who suffer from LSDs.

One of these is enzyme replacement. Researchers have found that one of the major reasons why lysosomes are not functioning properly is that they lack the right enzyme, or tool, to do the work.

"The missing enzyme is different in each patient—by looking at what material is being stored in the cell, you can work out what enzyme is missing. So theoretically we can replace that missing enzyme, almost like handing the lysosome a spanner which has, until now, been missing from its toolkit."

Professor Hopwood has been working with a number of bio-tech companies to develop enzymes for several LSDs.

"The whole idea is that every week the patients would have an infusion of that enzyme. We're hoping that this will help the lysosomes do the work they're supposed to do, and give relief to the patients and increase their life expectancy.

"If this approach is successful, patients would receive enzyme replacement therapy every week for the rest of their lives, or until the next therapy is developed," Professor Hopwood said.



Jameson Read at age 22 months. Photo courtesy of Professor Hopwood and the Read family.

***Lysosomes are in every cell in our body, and you can think of them as recycling devices.***

One of the problems with LSDs is they are usually only diagnosed after they become well advanced.

Often the children come into the clinic at three or more years of age, and by the time they are diagnosed, problems such as central nervous system, skeletal or bone deformities cannot be reversed.

Professor Hopwood's team currently runs a national and international diagnostic service for patients suspected of having a lysosomal storage disorder, but he believes that within two years the problem could be screened at birth.

"It's so important to identify these patients at birth, where often there are no clinical signs. If we can begin therapy then, we should be able to maximise the benefits.

"We are already well advanced in developing a screening method for children at birth," Professor Hopwood said.

He said the establishment of the new Lysosomal Diseases Therapeutic Centre was an important step in the future of LSD research.

"It's all coming together very nicely. We're getting to the end of 20 years of research, we're now starting to produce therapeutic agents necessary to treat patients, and soon we hope to diagnose these patients before they walk into the clinic so that we can maximise their therapy.

"Many of these kids are robbed of a normal childhood, which can be very difficult for them and their families, and for us too.

"With the work that we've been doing, and the work we'll be able to continue within the new centre, we hope to give some of these kids a chance at a normal life."

—David Ellis

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## Early Music Wizards of Oz

TWO SPECIALISTS in Early Music from the Elder Conservatorium, Lesley Lewis and Tessa Miller, have just returned from a successful tour of Hong Kong and the United Kingdom with the Adelaide Baroque trio, Musica da Camera.

Their tour included concerts, lectures and demonstrations in Hong Kong, London, Norwich, Warwick, Chichester and Cardiff.

Musica da Camera comprises Tessa Miller (soprano), Lesley Lewis (harpsichord) and Lynton Rivers (recorder).

At the Warwick-Leamington Festival they presented University of Adelaide Research Fellow Dr David Swale's newly-edited work by Giovanni Legrenzi, the Cantata "Notte Madre d'Horrori".

It was at this festival that the Birmingham press hailed the group with the caption "Early Music Wizards of Oz".

The group was also honoured at a reception for over 250 guests in Australia House in London, given by the South Australian Agent-General, Mr Maurice de Rohan.

Musica da Camera used the tour to publicise its newly-released CD, which can be ordered at <dikidd@portal.net.au>.

Musica da Camera will give its first performance since returning to Adelaide at the group's resident venue, the Banqueting Room of the Adelaide Town Hall, on Sunday 5 and 26 September in the afternoon.

For further details phone Adelaide Baroque on 8363 3442.

# Optimism about addiction research developments

A NEW Chair in Addiction Studies at the University of Adelaide will boost efforts to improve the clinical treatment of people with drug and alcohol dependencies.

Professor Jason White, who has been appointed to the new position, said the creation of the Chair was a recognition by the University of the growing sophistication and importance of the field.

"Research into drug dependency involves a high degree of pharmacology," he said.

"The Chair will help to raise the profile of addiction studies and enhance its status as a legitimate study area within Health Sciences."

Professor White was previously a Senior Lecturer in the Department of Clinical and Experimental Pharmacology, where the new Chair is based.

As part of his new duties, he also takes on the responsibility of Head of the Maintenance Pharmacotherapy Unit (formerly the Methadone Unit) at the Drug and Alcohol Services Council.

"The University has been heavily involved in research activities at the Unit in recent years," he said.

"We have had good access for students undertaking both undergraduate and postgraduate research, and the relationship will become even closer now."

Professor White said heroin abuse continued to be the cause of most concern for researchers in the field of drug dependency in Australia.

"We certainly have a major problem with death rates," he said.

"More than 600 people die in Australia each year as a result of heroin abuse."

"About 10 per cent of deaths in the 18-30 age group are caused by heroin overdoses, and the number is continuing to increase."

"The death rates reflect a more widespread use of heroin as well as a greater purity of the heroin being used."

Professor White supports the concept of heroin trials and has appeared before the Select Committee set up by State Parliament to explore the proposal.

The Committee is due to release its

recommendations later this year.

"You have to recognise that it would be only a trial, involving maybe 50 to 100 people, so you're talking about very small-scale availability of heroin," Professor White said.

"I think the idea has potential, and it could also produce some spin-off scientific benefits."

"We know relatively little about the pharmacology of heroin, so it would be an opportunity to increase our knowledge in that area."

"To some extent it would be very difficult for any State to introduce a heroin trial without Federal Government support, however."

"In theory, the Federal Government could block importation from the UK of the pharmaceutical grade heroin needed for a trial."

Professor White said abuse of amphetamines and general stimulants was also on the increase in Australia, although the consequences were not as obvious as heroin.

He said cannabis dependency—as opposed to cannabis use—was on the rise, too, but the use of alcohol and tobacco seemed to be either stable or declining.

"The problem of drug addiction has been around for thousands of years," he said.

"There have always been problems of intoxication and dependency."

"We shouldn't expect that a solution will come along and 'the drug problem' will suddenly disappear—that just won't happen."

"What we have to do is control it and try to minimise the problems associated with dependency."

"Instead of talking about 'the drug problem' we need to recognise that there are multiple different drugs, each with its own problems and treatments."

"Science can help us to make progress by developing better and more specific treatment approaches."

Professor White said that, until recently, methadone had been the only drug treatment available for heroin addiction.



Professor Jason White: "we can achieve significant progress". Photo: John Drislane.

Earlier this year, however, another drug—naltrexone—had been approved for use.

He said that clinical trials, now under way, of two other new drugs—buprenorphine and LAAM—raised the possibility of a wider range of treatment within the next few years.

"Big changes are taking place," Professor White said.

"Despite all the gloom about heroin

death rates, people working in the area of addiction research are optimistic about the new developments.

"We're moving into more sophisticated treatment approaches."

"We have the potential to markedly improve treatment and, if we can match it to improved service delivery and better education, we can achieve significant progress."

—John Drislane

## Public Lecture Series

The Department of History is celebrating the 12th anniversary of the University of Adelaide with a series of public lectures to be presented by three distinguished historians. **Venue: Napier Lower Ground Lecture Theatre LG29 at 6.30pm.**

**10 August:** Professor Dick Geary (Modern European History, University of Nottingham): Voting for Hitler. The Peculiarity of German Politics.

**17 August:** Professor W Wesley Pue (Nemetz Chair of Legal History, University of British Columbia): Law for the Beaver and the Kangaroo: Inscribing Britishness in Canada and Australia

**14 September:** Dr Paul Hammer (Queen Elizabeth II Australian Research Fellow): Thinking About Virginit: Reading and Writing about Elizabethan England.

### Advertisement

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THE UNIVERSITY OF ADELAIDE



**THESE** students from Marryatville High School were some of the big winners on Friday 23 July, having won their section in the Musicorp Band & Orchestra Festival. The two-day festival was held at the University of Adelaide's Elder Hall, with Conservatorium senior lecturer and Adelaide Symphony Orchestra cellist Mr Janis Laurs acting as an adjudicator for the festival. More than 40 bands from around South Australia took part in the event.

# Adelaide University loses a distinguished Alumnus

ONE of the University of Adelaide's distinguished alumni, Sir Russel Tullie Madigan (Kt cr. 1981. OBE 1970. ME., LL.B, FSASM. F Aus 1 MM, FTSE), has died at age 78.

Sir Russel was born in Adelaide on 22 November 1920, son of Dr CT Madigan, lecturer and explorer from the Geology Department in the University of Adelaide.

In 1941 Sir Russel graduated with a Bachelor of Science degree in Engineering from the SA School of Mines and the University of Adelaide. During the course of his studies he worked as a cadet in the University's Department of Engineering.

At the time of graduation he was a member of the University Regiment. He joined the Royal Australian Engineers, graduating from the School of Military Engineering which was then under the command of his father. He was assigned as an officer to an engineering unit under the command of Major Bill Nettle (also an Adelaide alumnus) and attached to the Armoured Division. He saw service in New Guinea.

After World War II, he obtained a Masters in Engineering in 1954 and in 1960 a degree in Law from the University of Adelaide. He studied mining ventilation in the USA on a Gowrie scholarship, and he also became competent in Japanese language.

Sir Russel spent his very active mining career in Conzinc Rio Tinto Australia, filling many posts in subsidiaries Zinc Corporation, Comalco, and Blair Athol Coal. He was responsible for the development of the giant Hamersley mine, and

achieved international status in the iron ore business. He was one of three personal advisers to the President of Kobe Steel in Japan. He was associated with the discovery and development of the Argyle diamond mine, and was appointed to the Board of Rio Tinto Zinc plc in London in 1970. At retirement he was Deputy Chairman of CRA Ltd.

Following "retirement" he continued many activities until a week or so before his death. He joined a number of interesting companies: Muswellbrook Energy and Minerals, Aluminium Smelts Vic, Rempose and AUSI Ltd. He continued to contribute more than ever to his professional associations, the Sun Institute of Mining and Metallurgy and the Sun Academy of Technological Sciences and Engineering. His particular interests were education and maintenance of highest professional standards.

Sir Russel always had a wide range of interests and contributed to them all. Few people know that he was an accomplished pilot, using his aircraft

for business and pleasure, and to travel to his farm in the South East. He flew solo to England, and had flown to Japan and Korea. His sense of adventure had taken him in his father's footsteps to Antarctica and across the Simpson Desert. He served as Chairman of the Antarctic Names and Medals Committee, Chair of the Pacific Economic Committee, President of the Australian Institute of International Affairs, Chairman of the Australian Mineral Foundation, Chairman of the Australia-Japan Foundation, and was a Life Member of Pacific Basin Economics.

Until his death, Sir Russel maintained a strong interest in education at all levels, and often referred to the importance of his university years in Adelaide.

Sir Russel died in Melbourne on 19 July 1999, aged 78. He is survived by five children, Paul, Mark, Wendy, James and William, and two grandchildren, Elsie and Lawrence.

—Norton Jackson  
Alumni Member (Metallurgy, 1942)

## Rhodes Scholarship for 2000

The Rhodes Scholarship is open to both women and men and is tenable at the University of Oxford for two years in the first instance. The scholarship provides for the payment of the scholar's College and University fees as well as a stipend of 720 Pounds Sterling per month. Candidates must be Australian citizens resident in Australia for at least five of the last ten years and have passed their eighteenth birthday but not reached their twenty fifth birthday by 1 October 1999. Contact the Honorary Secretary for application forms and information. Applications, 1999 for 2000, close with the Honorary Secretary of Selection Committee for SA at 5.00pm on Wednesday 1 September 1999.

GEORFFREY SAUER, Honorary Secretary

## Walford Lecture: top student to address old school

ZOE MORRISON, the 1998 South Australian Rhodes Scholar, will be the special guest speaker at the seventh annual Walford Lecture, Walford Anglican School for girls, on 31 August at 8.00pm.

Ms Morrison is an old scholar of Walford, attending the school from June 1985 to December 1994. During that time she was School Vice Captain from 1993-94 and received the Mrs Fletcher Prize for Leadership and the Headmistress' Prize for unstinting service. She was awarded two school Blues—one for Music and Drama, the other for Debating and Public Speaking. She also won prizes for Geography, English and Music Performance and gained perfect scores in these subjects in the SSABSA examination.

At the end of 1998 Zoe Morrison completed Honours in Geography from the University of Adelaide, having graduated from Arts in 1997 and having studied two years of Law. She won many University prizes for Geography and English and was active in student affairs, debating, drama and music. She has played a variety of sports, most recently concentrating on long distance running. She completed the 1998 Adelaide Festival Marathon and plans to continue running marathons.

Ms Morrison leaves Adelaide shortly to commence a PhD in Geology at Oxford University. She hopes to pursue a career in government or an organization like the United Nations.



Zoe Morrison (front left) with current Walford students (left to right) Amy Christie, Catherine Shanks and Arabella Jay.  
Photo courtesy of Walford College.

## John Bannon appointed Master of St Mark's

THE COUNCIL of St Mark's College has announced the appointment of former South Australian Premier, the Hon. John Bannon, to be Master of the College from 1 January 2000. He will succeed the former Australian Ambassador to the USSR, Mr CR Ashwin, who retires at the end of the year.

The Chairman of the Council, former Supreme Court Judge, Mr RG Matheson, said that the Selection Committee had advertised nationally and internationally for a person of high intellect and special qualities of leadership to succeed Mr Ashwin.

Mr Bannon has degrees in Law and Arts and is working towards a PhD at Flinders University. His special interest is the history of Federation, and the South Australian contribution in particular.

St Mark's college was the first residential college at the University of Adelaide and will celebrate its 75th Anniversary in March 2000. It is a co-residential College for some 202 undergraduate and postgraduate students of Adelaide's three universities. St Mark's is conducted under the auspices of the Anglican Church of Australia but is open to students of every faith or religions denomination.

As head of the College the Master has responsibility to the College Council for the good management of St Marks.

Advertisement



# Walford

To commemorate Walford's centenary in 1993 the school initiated a public lecture known as the  
**Annual  
Walford Lecture**

You are cordially invited to attend the 1999 lecture presented by

**The 1998 South Australian  
Rhodes Scholar**

**Ms Zoë Morrison**

and chaired by

Mrs Marilyn Haysom, Headmistress

**Tuesday 31 August 1999**

**at 8.00pm**

in the Helen Reid Hall at  
Walford Anglican School for Girls  
316 Unley Road, Hyde Park.

Please telephone the School on  
8373 4062 for reservations.

Free Admission

EXCELLENCE IN EDUCATION

# Engineering career proves rich in opportunities

THE TRADITIONALLY male-dominated field of engineering is becoming the career choice of an ever-growing number of women.

For Skye Widdows, it's a career that's proving to be rich in opportunities for advancement.

Ms Widdows, who joined United Water after graduating from the University of Adelaide in 1997, has just left for England to spend up to a year with United's parent company, Thames Water.

The move follows 18 months with United Water's assets section, where she worked on pump station design, project management and sewerage network modelling.

In England, Ms Widdows is joining a special project team at Thames Water's research and technology section.

The team is working to detect, monitor and reduce leakages in Thames's network of more than 30,000 kilometres of pipes.

"There's a large leakage problem with pipe networks in England," Ms Widdows said before

her departure.

"I haven't had a great deal of experience in this particular field before, so it's a tremendous opportunity for me.

"It will be a chance to increase my skills and knowledge and bring it back to South Australia."

At the University of Adelaide, Ms Widdows was one of five females in a class of 15 Civil and Environmental Engineering students.

"I find the question about women in engineering difficult, mainly because my own experience has been so positive," she said.

"I haven't come across any of the negative issues that some other people have spoken about.

"Even though, traditionally, it has been a male dominated field, in my experience, more women should become engineers because of the challenges and opportunities available. I love it."

—John Drislane



Skye Widdows—a tremendous opportunity. Photo courtesy of Ms Widdows.

# Formula Vee team aims for pole position

IT'S NOT every day you get to design your own race car—but one lucky group of students is doing just that.

Final year Mechanical Engineering students Isaac Mathwin, Andrew Paltridge and Luke Sanders are part of a collaborative team which is redesigning a Formula Vee race car.

The project is part of the Re-Engineering Australia initiative established by Concentric Asia Pacific.

As part of the initiative, Concentric provides teams throughout Australia with state-of-the-art computer design software. The teams can use the software to redevelop, or re-engineer, an existing design.

Under the supervision of Dr Fred Zockel, the University of Adelaide students are involved in the FV2000 Project—redesigning a standard Formula Vee race car.

The FV2000 Project aims to improve educational outcomes for students by providing them with a stimulating opportunity, advance the skills and innovative capabilities of South

Australian youth, and create a networking situation between secondary, post-secondary and tertiary education institutions in both urban and regional South Australia.

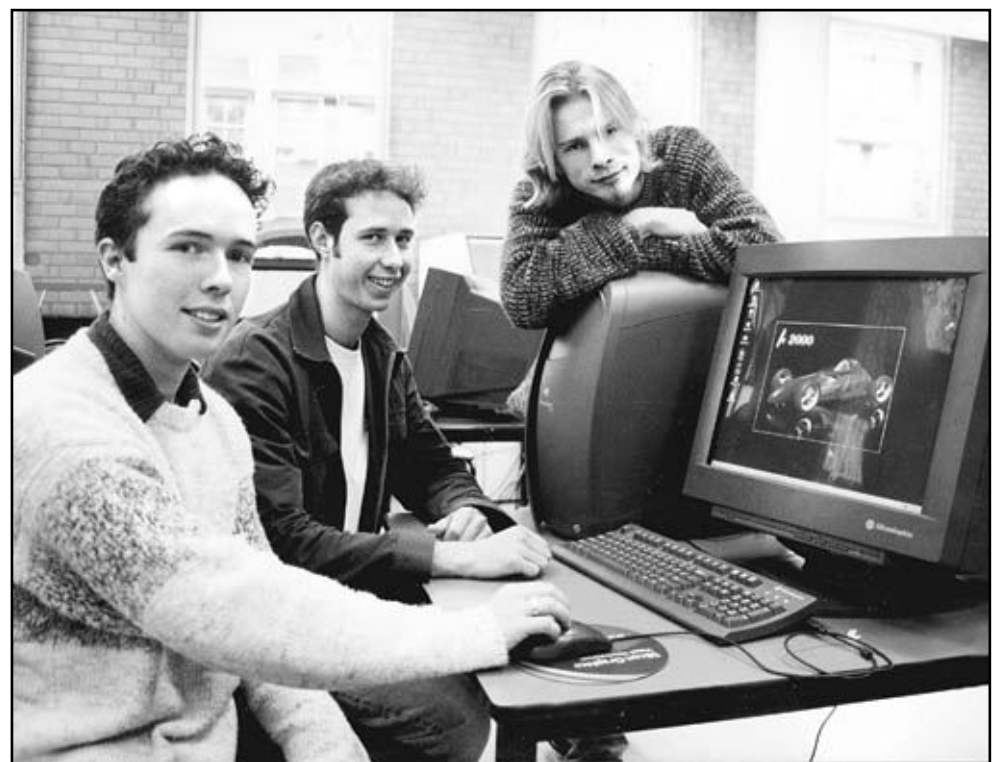
The Adelaide students are designing the suspension and air cooling systems and the chassis for the car, with other aspects of the design to be handled by students from the University of South Australia and TAFE SA. The project is guided by Engman Engineering Services, which has close links with CAMS, the governing body of Australian motor sport.

Not only are the students working on an exciting and challenging project, they will actually get to see the results of their labour—a real-life Formula Vee race car will be built next year, based on their designs.

The final design is to be entered into a national competition next year.

The Education Department of SA has generously supported the FV2000 project by providing computers to the design team.

—David Ellis



From left: Isaac Mathwin, Andrew Paltridge and Luke Sanders. Photo: David Ellis.

## ACCOMMODATION

**ALDINGA BEACH:** Cosy, relaxing, self-catering, 2 br holiday unit on seafront. \$70 per night (2 nights min). \$450 pw. Ph 8211 7500.

**CITY:** Unfurn room avail in furn, 2 br cottage SE corner. Prefer female, non smoker. Avail now. \$90 pw (+ exps). Ph Megan 8227 0494 or 0417 807 432 or email: <mmccarth@arts.adelaide.edu.au>.

**EASTERN SUBURBS:** Fully furn & equipped apartment. Near bus, schools & sporting facS, suit visiting academic. Avail for short or long term. Ph 8332 4814 or email: <dryland@senet.com.au>.

**FRANCE:** Experience the colourful autumn in The Loire Valley (chateaux and wineries). Character house, stunning view, 55 min from

Paris by TGV. Suitable for 5 people, weekly or longer rental, car avail. Ph 8365 1078 or 0417 816 041.

**GOODWOOD:** Newly renovated 1 br, fully furn studio apartment with sep kitchen/dine & loft, part of converted factory/warehouse. Close to transport & shops. Avail 4 Sept. \$200 pw incl utilities & linen. Ph 8303 8534 or email: <Maarten.Ryder@adl.clw.csiro.au>

**HOUSE SITTER AVAIL:** Professional Male Teacher avail, prefer Eastern suburbs. Excellent refs avail. Willing to care for garden & pets, also security conscious. Ph Anthony 0411 509 956.

**LEABROOK:** Fully furn 4 br house, spacious garden, r/c air cond, near bus route to city, avail for 2 mths from 3 Sept. Ph Shelley 8303 5434.

## ADELAIDEAN CLASSIFIED

**PARKSIDE:** Fully furn villa, 3 br, lge study, suitable for visiting academics, avail 20 Aug - 20 October. Carport, spacious private garden. Ph Yvonne 8272 0210 or email: <douglas.vickers@adelaide.edu.au>.

**STIRLING:** Fully furn, 3 br house avail now for 6 mths or longer. \$200 pw (bond required). Ph Dennis 8339 5862.

**SEMAPHORE/GLANVILLE:** Mature, female, non-smoker to share funky older house with same. \$80 pw for 2 adj rms plus shared lounge, kitchen, bathroom, etc. Ph 8449 3479.

**ST PETERS:** 1 (small) br

unit 2km from Uni. Close to bus and shops, off street parking. Ph Neil 8344 5133.

**WANTED:** Academic family seeks short term accomm, 3-4 br, north or east of city, from approx Sept - Nov. Ph 8132 0945 (ah).

## FOR SALE

**COMPUTER:** Apple Macintosh Notebook PB 190, 8/500 MB, Clarisworks, very good cond. \$300. Ph Paul Martin 8302 0119 or 8296 0996 (h) or email: <paul.martin@unisa.edu.au>.

**COMPUTER:** IBM300, 15" SVGA monitor, 4.3 HDD, 64 MB RAM, 40 speed CD, speaker, printer,

excellent cond. \$895. Ph 8338 4152.

**DINING TABLE:** Antique Mahogany, round, flip top, pedestal base with 6 padded dining chairs. Late 19th century. \$2,000 the lot. Ph 8332 4814 or email: <dryland@senet.com.au>.

**MISC:** Infant's convertible car seat (Britax Aprica), \$100. Fisher Price lift-n-lock swing, \$20. Ph 8337 4774 or email: <mwh@physics.adelaide.edu.au>.

**TOYOTA CORONA:** Air cond, mechanically A1, very reliable, 5 speed manual, 145,000km. UWZ 929. \$4,800 ono. Ph 8303 4290 or 8262 6395 (h) or email: <xiaowen@ncpgg.adelaide.edu.au>.

**TRAILER BIKE:** For your child to 5 years, universal jointed onto your seatpost,

they can pedal and brake, sturdy, great cond. \$200. Ph David 8204 7004.

## MISCELLANEOUS

**COOKING CLASSES:** Learn to cook Chinese meals for banquets or just simple everyday meals using quick easy techniques with expert tuition from Judy Lee. Ph 8264 8895.

**RESEARCH Writing** (published author), editing, proofreading, epidemiology tutoring, high quality work. \$25 per hour. Ph Graham 8332 7887.

**WORD PROCESSING:** Formatting of WP on disk, including IBM/PC and Mac MS Word amongst others. Laser printing; after hours service; city centre location. Ph Anne Every 8212 6869 or 8415 7866.



# Bulletin Board

AUGUST 9, 1999

THE UNIVERSITY OF ADELAIDE

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## MONDAY 9 AUGUST

**1.00pm Microbiology & Immunology Seminar:** Wine microbiology by Dr Eveline Bartowsky (Australian Wine Research Institute). Departmental Library, 5th Floor, Medical School South.

**1.00pm Law Seminar Series:** Constitutional intentions: shaking hands with a living force by Dr John Williams. Room 216, Ligertwood Building.

**1.00pm Clinical & Experimental Pharmacology Seminar:** Studies into the cyanobacterial toxin Cylindrospermopsin by Suzanne Frosco (PhD student). Seminar Room, 6th Floor, Medical School, North Wing.

**1.10pm History Staff/Postgraduate Seminar:** Unemployment in Germany in the Twentieth Century by Professor Dick Geary (Modern European History, University of Nottingham). Common Room 420, 4th Floor, Napier.

**1.10pm Student Workshop:** Improving sleep by Susan Howard. Counselling Centre, Ground Floor, Horace Lamb Building.

**4.00pm Soil and Water Seminar:** Octopus predation on the Southern Rock Lobster *Jasus Edwardsii*, by Danny Brock. Room 301, Prescott Building, Waite.

## TUESDAY 10 AUGUST

**12noon Child Health Research Institute Seminar:** Effects of IGF-1 on Nutrient Absorption in the Gut by Sonja Garnaut (PhD student). Seminar Room, 7th Floor, Rieger Building, WCH.

**12.30pm General Practice Seminar:** A randomised case controlled prospective study of neonatal sleep by Brian Symon. Seminar Room, Level 2, Eleanor Harrald Building, RAH.

**1.10pm Student Workshop:** Developing a lifestyle that reduces stress and worry by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

**3.10pm Asian Studies Seminar:** Challenges of translating and interpreting Japanese - experiences of a simultaneous interpreter by Masumi Muramatsu (Simul International Inc). Rm 528, Ligertwood.

**6.00pm Abbie Memorial Lecture:** Autonomic Disorders and Neuro-anatomy - and disengaging Cerberus by Professor Chris Mathias (Imperial College School of Medicine / Director of the Autonomic Unit, National Hospital for Neurology and Neurosurgery). Florey Lecture Theatre, Medical School.

**6.30pm Distinguished Historians - Public Lecture Series:** Voting for Hitler: The Peculiarity of German Politics by Prof Dick Geary (Modern European History, University of Nottingham). Lecture Theatre LG29, Napier Building.

**6.30pm Australian Institute of International Affairs Inc / Independent Scholars Association of Australia Inc Seminar:** Indonesia's Unpredictability: Implications for Australia by Emeritus Professor Jamie MacKie (Australian National University). Union Cinema, Level 5, Union House.

## WEDNESDAY 11 AUGUST

**10.10am Electrical & Electronic Engineering Seminar:** Towards Virtual Laboratories by Dr Nesimi Ertugrul. Lecture Room S112, Engineering South.

## COMING EVENTS

August 9th — August 20th

**1.10pm Geology & Geophysics Seminar:** Finding models that fit data: a new ensemble approach to inversion by Dr Malcolm Sambridge (Fellow, Australian National University). Mawson Lecture Theatre, Mawson Laboratories.

**1.10pm Genetics Seminar:** PhD proposals by Bruce Field, Jane Sibbons and Gabrielle Samuel. Seminar Room, Ground Floor, Fisher Building.

**1.30pm European Studies Seminar:** Beer and Skittles? Working Class Culture in Germany in the Early Twentieth Century by Professor Dick Geary (University of Nottingham). Room 723, Hughes Building.

## THURSDAY 12 AUGUST

**12noon HCCR/IMVS Seminar:** Antisense: apoptosis and multi-drug resistance by Dr Bryony Kuss (Haematology & Genetic Pathology, Flinders Medical Centre). Verco Theatre, IMVS.

**12.05pm Psychology Seminar:** Primary school teachers' judgements of reading achievement by Dr Ted Nettelbeck (Psychology). Room 527, Hughes.

**1.00pm Chemical Pathology Seminar:** Toxicological Applications of Knockout Mice by Dr Ross McKinnon (Department of Pharmaceutical Biotechnology/Medicinal Chemistry, University of SA). Seminar Room 1, 4th Floor, Rieger Building, WCH.

**7.45pm Field Geology Club Lecture:** Calcrete, silcrete and gold by Dr Mel Lintern. Mawson Lecture Theatre, Mawson Laboratories.

## FRIDAY 13 AUGUST

**10.00am Social Inquiry Seminar:** Flexible Work Time by Lisa Connolly (Postgraduate, Labour Studies). Seminar Room, 3rd Floor, 10 Pulteney Street.

**11.30am Social Inquiry Seminar:** Telling Stories in the Era of Global Communication: Black Writing Orature by Dr Susan Petrilli and Prof. A Ponzio (University of Bari, Italy). Seminar Room, 3rd Floor, 10 Pulteney Street.

**12.45pm Dentistry Seminar:** Dentistry in Columbia by Dr Patricia Diaz. Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

**1.10pm Elder Conservatorium Lunch Hour Series:** N-tet. Marie-Louise Slater, violin, Anna Zietara - viola, Louise Newland - clarinet, Renate Turrini - piano. Works by Bruch & Milhaud. Admission \$2 at the door. Elder Hall.

**1.15pm Physics Under a Spotlight:** Atmospheric Physics by Dr R Vincent & Dr I Reid. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

**4.00pm Economics Seminar:** To be advised, by Professor Jack Knetsch (Simon Fraser University, Canada). LG14, Napier Building.

**4.00pm Obstetrics & Gynaecology Seminar:** Insulin-like growth factor binding protein-2: its domains and their essential residues in binding IGF-I and IGF-II by Dr John Wallace (Biochemistry). Seminar Room, 6th Floor, Medical School North.

## MONDAY 16 AUGUST

**1.00pm Microbiology & Immunology Seminar:** An old organelle has plenty of surprises left. Mysteries in the biogenesis and cellular organisation of mitochondria by Dr Binks Wattenberg (Hanson Centre for Cancer Research). Library, 5th Floor, Medical School South.

**1.00pm Law Seminar Series:** Negotiating intentions in criminal law by Mr Ian Leader-Elliott. Room 216, Ligertwood Building.

**1.00pm Clinical & Experimental Pharmacology Seminar:** The clinical problems of acute pain management in methadone maintenance treatment by Mark Doherty (PhD student). Seminar Room, 6th Floor, Medical School North.

**1.10pm Student Workshop:** Learn deep relaxation by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

**4.00pm Soil and Water Seminar:** Modelling sedimentation processes in a stormwater wetland by David Walker (Civil & Environmental Engineering). Room 301, Prescott Building, Waite.

**4.00pm Applied & Molecular Ecology Seminar:** New concepts in bromovirus packaging by Dr ALN Rao (Pathology, University of California, USA). Charles Hawker Conference Centre, Waite.

**8.00pm Classical Association of SA:** Roman Values: the Good, the Bad and the Ugly according to Romans by Dr Jacqueline Clarke. Room 723, Hughes.

## TUESDAY 17 AUGUST

**1.10pm Student Workshop:** The perfect procrastinator by Sally Hebenstreit. Counselling Centre, Ground Floor, Horace Lamb Building.

**4.00pm ACUE / HERDSA SA Workshop:** One Highway to Departmental Renewal: Making Teaching Community Property by Dr Lee Andresen (Consultant in Higher Education & Academic Development). ACUE Seminar Room, 6th Floor, Hughes Building. RSVP Lynne Bradshaw, 8303 5771 or email: <lbradshaw@acue.adelaide.edu.au>. See full notice page 3 of Bulletin Board.

**6.30pm Distinguished Historians Public Lecture Series:** Law for the Beaver and Kangaroo: Inscribing Britishness in Canada and Australia by Professor W Wesley Pue (University of British Columbia, Vancouver, Canada). Lecture Theatre LG29, Napier Building.

## WEDNESDAY 17 MARCH

**10.10am Electrical & Electronic Engineering Seminar:** A Neural Network Architecture for Object Recognition by Eric Chong (Postgraduate). Lecture Room S112, Engineering South.

**1.10pm Geology & Geophysics Seminar:** Thrust Tectonic Styles of the Petermann & Alice Springs Orogenies Central Australia by Dr Thomas Flöttmann (Geology & Geophysics). Mawson Lecture Theatre, Mawson Labs.

**1.10pm Genetics Seminar:** PhD

update by Quentin Schwarz and Paul Tosch. Seminar Room, Ground Floor, Fisher Building.

**1.10pm Horticulture, Viticulture & Oenology Seminar:** Picked and pickled - the table olive industry by Dr Michael Burr (Field Associate, HVO). Plant Research Centre Auditorium, Waite Campus.

**1.30pm European Studies Seminar:** Music Studies in Germany by Professor Hartmut Möller. Room 723, Hughes Building.

**5.30pm AFUW Postgraduate Seminar:** Bodies and Boundaries in Reproduction and Relatedness by Debbi Long (Women's Studies & Anthropology); Bodies and Boundaries in Experiences of Anorexia by Megan Warin (Women's Studies & Anthropology). Margaret Murray Room, Level 5, Union.

## THURSDAY 19 AUGUST

**12noon HCCR/IMVS Seminar:** Role of beta 1 integrins and the sialomucin PSGL-1 in haematopoiesis by Dr Jean-Pierre Levesque (Division of Haematology, Hanson Centre). Verco Theatre, IMVS.

**12.05pm Psychology Seminar:** Anxiety disorders in children by Kathy Moar (Postgraduate structured program). Room 527, Hughes Building.

**1.00pm Chemical Pathology Seminar:** The Structure and Biology of the Tec Family of Tyrosine Kinases by Dr Grant Brooker (Biochemistry). Seminar Room 1, 4th Floor, Rieger Building, WCH.

**4.30pm UNESCO Report Education for the 21st Century:** National response to Delors by Geoff Spring and Faith Trent. Flinders University. Details: email <cbc@cbconsult.com.au> or fax 8274 1199.

## FRIDAY 20 AUGUST

**10.00am Social Inquiry Seminar:** Research Method - action science and dual role research by Verna Blewett (Postgraduate, Labour Studies). Seminar Room, 3rd Floor, 10 Pulteney Street.

**11.30am Social Inquiry Seminar:** A gender perspective on female illiteracy in rural China by Liz Billard (Postgraduate, Women's Studies/Asian Studies). Seminar Rm, 3rd Flr, 10 Pulteney Street).

**1.10pm Elder Conservatorium Lunch Hour Series:** Selected Chamber Music by Ensembles from the Elder Conservatorium. Admission \$2 at the door. Elder Hall.

**1.15pm Physics Under a Spotlight:** Medical Physics by Dr T van Doorn. Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

**2.00pm Social Inquiry Seminar:** Partnership at work: new survey evidence on the position of unions in British workplaces by Mark Cully (National Institute of Labour Studies, Flinders University). Seminar Room 327, 3rd Floor, Tower Building, 10 Pulteney Street.

**4.00pm Economics Seminar:** To be advised, by Dr Tom Crossley (York University, Canada). LG14, Napier Building.

**4.00pm Obstetrics & Gynaecology Seminar:** Bovine colostrum and human athletic performance by Dr John Buckley (School of Physical Education, UniSA). Seminar Room, 6th Floor, Medical School North.

# SITUATIONS VACANT

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

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

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

## LENDING SERVICES ASSISTANT (ACTING)

(Ref: 4438)

Barr Smith Library

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

This fixed term position, as a replacement employee, is available from 6 September to 9 June 2000 on a 36.75 hours per fortnight basis. Further details of the position may be obtained from Robina Weir, tel: 8303 5349. The selection criteria and duty statement may be obtained from Tina Hardin, tel: 8303 5370. Applications close 16 August 1999.

## GENERAL LIBRARY ASSISTANT

(Document Delivery)

Ref: 3357

Barr Smith Library

Salary HEO2: \$25,388 - \$26,992

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

This fixed-term position, as a replacement employee, is available from 6 September 1999 until 30 June 2001. Further details from Bernadine Hardin, tel: 8303 3863. The selection criteria and duty statement are available from Tina Hardin, tel: 8303 5370. Applications close 16 August 1999.

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

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

## LECTURER /SENIOR LECTURER/ASSOCIATE PROFESSOR

IN MICROELECTRONICS DESIGN

(Ref: 4022) (Tenurable)

Department of Electrical and Electronic Engineering

Salaries:

Lecturer: \$48,435-\$57,518

Senior Lecturer: \$59,332-\$68,415  
Associate Professor: \$71,442-\$78,706

This position is available from January 2000. Further details of the Department, the Centre and the Selection Criteria for the position can be found on the Department's web site at <<http://www.eleceng.adelaide.edu.au/>>.

Intending applicants should contact the Head of Department, Dr AM Parker, tel: (08) 8303 5797, fax (08) 8303 4360, email <[parker@eleceng.adelaide.edu.au](mailto:parker@eleceng.adelaide.edu.au)> for any further information about the Department. Applications close 27 August 1999.

## LIBRARY SUPPORT OFFICER

(Ref: 3725)

Department of Public Health

Salary HEO4: \$30,736 - \$33,808

This fixed-term position is available immediately for a 12 month period with the likelihood of a renewal.

Further information including the duty statement and selection criteria may be obtained from Florence Kalambokas, tel: 8303 4637. Applications close 13 August 1999.

## TECHNICAL ASSISTANT

(Ref.: 4447)

Department of Genetics

Salary HEO3: \$18,708 - \$30,467

Junior rates apply to those persons 20 years and under.

The position is available from 6 September 1999 on a continuing basis.

Further information including a duty statement and selection criteria may be obtained from Secretary on (08) 8303 5563 or by visiting the Department's web page at <<http://www.science.adelaide.edu.au/genetics/>>. Applications close 13 August 1999.

## ADMINISTRATIVE ASSISTANT

(Ref: 2507) (Part-time)

Special Research Centre for the Subatomic Structure in Matter

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

The fixed-term position is available for three years in the first instance, on a 44 hours per fortnight basis. The person appointed will be required, from time to time, to make themselves available to work additional hours.

Further information including duty statement and selection criteria may be obtained from Professor AW Thomas, Director, Special Research Centre for the Subatomic Structure of Matter, tel: 8303 3547 or Mrs SL Johnson, Secretary, Special Research Centre for the Subatomic Structure of Matter, tel: 8303 3533. Applications close 20 August 1999.

# EMPLOYMENT INFORMATION

## NOTICE TO APPLICANTS:

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

The University notifies applicants that the following vacancies for Higher Education Officers with the reference numbers as stated have been filled and thanks them for their interest: 2870, HEO4, Civil and Environmental Engineering.

## HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 23 August 1999 advertising paper work must be to Human Resources by 6 August 1999.

For the *Adelaidean* of 6 September 1999 advertising paper work must be to Human Resources by 20 August 1999

# GENERAL NOTICES

## Payroll Notice

### 27 Paydays This Financial Year

About once every 11 years a financial year will have 27 fortnightly paydays, instead of the usual 26. When this occurs, there will be a shortfall in the tax instalment deductions made from an employees' wage over the financial year.

Employees may request that additional tax be deducted from their fortnightly earnings to cover their end of year liability. The following table shows the extra tax payable to cover likely shortfalls.

Fortnightly Earnings	Additional tax per fortnight
\$800-\$1400	\$5.00
\$1400-\$1410	\$6.00
\$1410-\$1425	\$8.00
\$1425-\$1850	\$10.0
\$1850-\$1900	\$12.0
\$1900 & OVER	\$13.00

Deduction authorities are available from the Human Resources Web Site

JACQUI STOCKLEY  
Acting Manager  
Payroll Service

## Y2K thanks

Over the past year an enormous amount of work has been carried out on the University's Year 2000 project. This was probably most apparent during the data collection and PC testing phase of the project. Local coordinators in each division were trained in the KPMG data collection methodology and were involved in taking an inventory items for their area. In addition they were involved in testing PCs in their areas. The majority of this process was completed within a 6 week period, which was a major achievement.

I would like to pass on my thanks to all local Year 2000 Coordinators and other staff who participated in the project. Their efforts have meant that the project has remained on schedule. With only a few months remaining until the Year 2000, it will be important for local coordinators to continue to have an involvement in the remaining stages of the project.

IAN CREAGH  
Executive Director  
Student & Staff Services

## Declaration of Result

Election of a member of the Council by the Senate (one vacancy)

The appointed day for the election was Monday 19 July 1999.

There were three candidates for one vacancy on the Council, the vacancy being for the period from 20 July 1999 to 5 March 2001. I declare the following candidate elected: **JEANETTE THURSH BRENTNALL LINN**

REX HANNEY  
Returning Officer

## Student Administration live on the Web

The Student Administration Branch has a new and improved website available to staff, students and the general public.

The address is: <<http://www.adelaide.edu.au/studentadmin>>

Student Admin will be providing half hour demonstrations on how to navigate through the website. These will be held at the ITS Training Suite on Monday 23 August 1999 from 12pm onwards.

Please ring Jean Paton, Branch Secretary, on 35164 to put your name down if you are interested. Maximum of 8 people per session time.

## Data on the move

As part of the introduction of the PeopleSoft Payroll and Campus Community modules scheduled for later this year, the Project Endeavour Human Resources and Data Management teams have made significant progress in the migration of data from the existing systems.

The latest data migration test produced the following results:

- personal data: 67,506 records at 0.7% error rate
- employment data: 5,591 records, 0% errors
- tax data: 3,969 records, 1.8% errors
- general comments: 25,343 records, 0% errors
- phone data: 131,472 records, 0.02% errors

Project Endeavour Director Richard Arrowsmith said the extremely low error rate was a tribute to the joint efforts of the teams in "cleansing" the University's existing data to provide an even higher quality source for the new systems and business processes which would benefit all in the future.

He congratulated the teams, in particular Michael Edser, Data Management Team Leader; Sue Turner, HR Team Leader (University); Catherine Valsinger, HR Team Leader (Ernst & Young) and team members: Dale Arnott, Steve Courtney, Karen Jenkins, Adam Jones, Robyn Lewis, Deb Martin, Carol Moore, Doris Riffel, Greg Sargeant (Ernst & Young) and Michael Verzak (PeopleSoft)

For more information on Project Endeavour, visit the Web site: <<http://www.isb.adelaide.edu.au/mis2001/index.html>>.

## Thank you

The husband and family of the late Margaret Whiteford (Physics Department 1978-1999) would like to thank friends and workmates for their kind expressions of sympathy and their donations to the Peter Nelson Research Fund.

## Workshop on the National Statement on Ethical Conduct in Research Involving Humans

The new National Statement on Ethical Conduct in Research Involving Humans will shortly replace the National Health & Medical Research Council (NHMRC) Statement on Human Experimentation and Supplementary Notes (1992). It will apply to all disciplines of research involving human participants.

Australia-wide workshops will be conducted in August by the NHMRC's Australian Health Ethics Committee (AHEC) to provide an overview of the content of the new National Statement and address its implications in specific areas of research. AHEC advise that the new statement will be available in late July. The University's current policy regarding research involving humans will be revised in the light of the new document.

The Adelaide workshop will be held on **Tuesday 24 August 1999 from 8.30 am - 4.30 pm at the Hindley Parkroyal Hotel**. Cost is \$50, \$15-student. Further details appear on the human ethics website at [www.adelaide.edu.au/secretariat/ethics/human/index.htm](http://www.adelaide.edu.au/secretariat/ethics/human/index.htm). The registration brochure is available in Departments or from <HEWorkshop@ausconvservices.com.au>.

## ACUE and HERDSA(SA) Workshop

**One Highway to Departmental Renewal: Making Teaching Community Property** by Dr Lee Andresen (Consultant in Higher Education and Academic Development) - 17 August 1999, 4.00pm-6.00pm, ACUE Seminar Room, 6th floor Hughes Building.

Lee Andresen's forthcoming book *Discovering the Scholarship in Teaching* includes theoretical essays on issues to do with the 'scholarship' in teaching, and there is an extensive 'toolkit' of strategies to use for implementing a policy of developing scholarship in teaching within departments and institutions. For this workshop he will use sections of this book related to Making Teaching Community Property, Peer Review of Teaching, and Departmental Renewal. It is hoped that through studying and discussing some of these ideas it may be possible to stimulate productive imagining of creative alternatives to the ways in which academics currently co-exist as departmental teaching colleagues. We all know how collegiality is in very hard times at present: what are some ways of reversing the trend?

Dr Lee Andresen was previously employed in the Professional Development Centre at UNSW. He has published widely on a great many topics related to university teaching and learning, but one of his most published and passionate areas involves experience and its role in learning. He is also keenly involved in ecology, ethics and higher education.

RSVP - for catering purposes at the workshop and for dinner with Lee after the workshop - to Lynne Bradshaw: 8303 5771 or <lbradshaw@acue.adelaide.edu.au>.

## Call for Papers

Explore recent work in relation to the broader human services setting, examining the identified principles, purpose and application of assessment

- Identify and communicate examples of good practice in assessment
- Identify future directions to improve consumer outcomes in relation to assessment
- Role of Assessment: What is assessment and why do we do it?
- Assessment across the sectors: critical analysis of assessment in different settings
- Consumer self assessment
- Culturally appropriate assessment
- Single access points for assessment
- Application of assessment across the broad range of human services

A feature of this Workshop is a "hands on" approach. Small group discussions with the aim of exploring and identifying common principles for the future of Assessment will be the driving focus of the two days.

If you are interested in presenting, please send an abstract of no more than 250 words to Sarah Marshall. Please forward by email or diskette. Include your name, postal address, institution or workplace and contact details on your abstract.

Sarah Marshall  
Office for the Ageing  
PO Box 70  
Rundle Mall SA 5000  
Tel: (08) 8226 6860  
Fax: (08) 8226 6864  
Email: <marshall.sarah@saugov.sa.gov.au>

**Abstracts close Friday 27 August 1999.**

## LUMINIS SNAPSHOTS

### Congratulations Casey

Casey Van Seville, Principal of Sylva Signature Furniture Design, recently won a major National furniture design competition.

The competition is an annually run event by Gunns Veneers, a division of Gunns Timber. The award came with prize-money split between the manufacturer and designer. The awards were "Gunns Veneers Eucalypt Veneer Design Competition 1999" Design to Casey Van Seville. In association the "Gunns Veneers Eucalypt Veneer Design Competition 1999" Manufacturer went to Pfitzner Furniture of Mt Barker who have entered into a commercial arrangement to manufacture Casey's designs.

The competition was held as part of "Furnitex 99 New Product Parade", the furniture industry trade fair, held at the Melbourne Exhibition Centre last month. Record trade attendance was achieved at the event, Australasia's largest, with over 10,000 industry delegates.



*John Pfitzner, MD of Pfitzner Furning and Casey Van Seville, SLYVA Signature Furniture Design, with the award winning "Inside River" coffee table at the "Furnitex 99 New Product Parade", Melbourne.*

Invited to exhibit in the competition, Casey designed a matching sofa table and coffee table "knock downs" creatively called "Inside River".

Apart from the veneer, a cluster myrtle burl and figured Tasmanian oak resembling the swirling currents in an outback water course, the entry was a totally South Australian affair. Constructed of glass, from SA's Chevron Glass, aluminium cast by Castech, and laminated ply and prototype manufacture by Pfitzner's Furniture. Even a bottle of Croser was used to decorate the exhibit.

So what is the connection with the University of Adelaide you might ask?

Casey Van Seville is enrolled in the BIG program, a course in entrepreneurship run by the University at the Thebarton Campus. Graduate students develop a business under the guidance of Luminis and Industry Liaison, and study for a Graduate Diploma in Business Enterprise. Casey's business Sylva Signature Furniture Design specializes in custom design furniture pieces for special clients on commission. He was searching for an industry launch as part of his Business Plan, and with encouragement from associates, entered the Gunn's Veneer Competition.

"I was amazed at the amount of attention I received from a range of furniture manufactureres and retailers after the announcement of the award. The attention was electric", Casey reported on his return from the exhibition.

In summary Casey stated that; "Its success is seen as a triumph of creative thinking coupled with practical know-how after only six months of operation."

### Good Luck Jan

Luminis is pleased to announce that Dr Jan Carey from Geographical and Environmental Studies has won a consulting contract with the Thailand Australia Science and Engineering Assistance Program later this year.

Sponsored by Ausaid, and with assistance from tertiary education experts from Australia and New Zealand, the project helps the Royal Thai Government improve teaching standards and infrastructure in their tertiary education sector.

Jan's consultancy follows on from work in the contract already completed by Associate Professor Keith Walker and Mr Piers Brissenden from Environmental Biology.

So how was this work found?

One of Luminis' roles is to seek out consulting opportunities, and if appropriate, refer them on to the relevant academics within the University of Adelaide. In the case of the Thai Tertiary Education Program, Business Development Manager Andrew Cecil discovered a reference on the Monash International WEB site about twelve months ago and registered our interest.

We keep CV's on file for such eventualities. If you are personally interested in doing some external consulting work, get in touch and register with us.

PAUL SZUSTER  
Business Development Manager - tel 8303 5020

## THE UNIVERSITY OF SOUTH AUSTRALIA PHYSIOTHERAPY CLINIC

is running a  
**Sports Physiotherapy Clinic**

Clinic times are: Monday, Wednesday and Friday from 10.00am - 12.30pm until 17 September 1999.

The physiotherapists are qualified physiotherapists undertaking a Masters in Sports Physiotherapy. They are supervised by highly experienced sports physiotherapists.

**Bring your sports injury for assessment and management. For more information and appointments phone the Clinic on 8302 2541**

University of South Australia Physiotherapy Clinic is located on Level 8, Centenary Building, City East Campus (cnr North Terrace and From Road).



## Counselling Centre

Semester 2  
Ground Floor  
Horace Lamb Building

### WORKSHOPS

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

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

### DAILY DROP IN SERVICE

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

**COUNSELLING BY TELEPHONE OR APPOINTMENT IS ALSO AVAILABLE**

## WorkCover sponsors \$50,000 Fulbright award

The Victorian WorkCover Authority has increased its sponsorship of the Tim Matthews Memorial Student Postgraduate Award for study and research in America.

The award, which is jointly sponsored by the Fulbright Foundation, is now valued at \$50,000.

The Tim Matthews Memorial Award in Statistics, Economics and Related Disciplines is open to those in the fields of economics, econometrics, mathematical statistics, actuarial studies, finance and applied mathematics.

It is one of several offered by the Fulbright Foundation annually for study, research and lecturing in the United States. Applicants for the Year 2000 awards are now being sought.

The Tim Matthews Memorial Award was introduced in 1996 to honour the memory of Dr Tim Matthews, who died in April 1995.

As Principal Statistician and Actuary with the Accident Compensation Commission (now the Victorian WorkCover Authority), Dr Matthews was the principal architect of WorkCover's premium system.

Further information on the Tim Matthews Memorial Award is available from the Fulbright Foundation, phone (02) 6247 9331. Application forms and supporting information is available from their website at <<http://sunsite.anu.edu.au/education/fulbright>>.

Applications close on 30 September 1999.

## Research Branch Update

### OPEN FORUM

The Chair of the Australian Research Council, Professor Vicki Sara, will lead an Open Forum on the proposals for the ARC in the Green Paper [New Knowledge, New Opportunities : A Discussion Paper]

**Wednesday 18 August, 2pm - 4pm, Mawson Lecture Theatre, Ground Floor, Mawson Building**

RSVP by 13 August and enquiries to the Research Branch on 8303 5137 or email : <[coleen.roddam@adelaide.edu.au](mailto:coleen.roddam@adelaide.edu.au)>.

### GRDC - Preliminary Research Proposals 2000-2001

A reminder that the GRDC are now inviting researchers to submit Preliminary Research Proposals which are consistent with the Corporation's priority areas as detailed in its 2000-2001 Research Prospectus.

For details, locate the 2000-2001 Research Prospectus on the GRDC website at <http://www.grdc.com.au> or through the Funding Opportunities page in the Research Branch website.

Preliminary research proposals should be submitted to the Research Branch by 13 August 1999.

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

# RESEARCH AND SCHOLARSHIPS 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, contact the Research Branch, ext 35137; or email <[louise.moore@adelaide.edu.au](mailto:louise.moore@adelaide.edu.au)>.

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

**Parke Davis/Pfizer - Cardio Vascular Lipid Research Grants:** Internal closing date: 9 August 1999. Web Site: <<http://www.cvlgrants.com.au>>.

**Sudden Infant Death Research Foundation Inc. - Research Grants:** Internal closing date: 9 August 1999.

#### Leakey Foundation

- General Research Grants
- Fellowship for Great Ape Research and Conservation
- Fellowship for the Study of Foraging Peoples
- Paleoanthropology Award

Internal closing date: 10 August 1999. Web site: <<http://www.leakeyfoundation.org>>.

**Grains Research and Development Corporation (GRDC) - 2000-2001 Research Investments: Call for Preliminary Research Investments:** Internal closing date: 13 August 1999. Web site: <<http://www.grdc.com.au>>.

**Human Frontier Science Program - Research Grants and Long Term Fellowships:** Internal closing date: 18 August 1999. Web site: <<http://www.hfsp.org>>.

**Juvenile Diabetes Foundation**  
• Research Grants, Fellowships & Career Development Awards

\*Updated Internal closing dates: 2 January 2000 (Copy of first two pages of application). 18 August 1999 and 17 January 2000 (Completed full applications)

• Innovative Grants

\*Updated Internal closing dates: 3 September, 1 December 1999 and 1 March 2000 (Copy of first two pages of application)

17 September, 16 December 1999 and 17 March 2000 (Completed full applications)  
Web site: <<http://www.jdfa.org.au>>.

**Australian Academy of Science - Graeme Caughley Travelling Fellowship in Ecology:** Internal closing date: 20 August 1999. Web site: <<http://www.science.org.au/awards/awards.htm>>.

**Australian National University - Institute of Advanced Studies Fellowships:** Internal closing date: 20 August 1999. Web site: <<http://www.anu.edu.au/academia/ias.html>>.

**Foundation for High Blood Pressure Research - 2000 Postdoctoral Research Fellowships:** Internal closing date: 20 August 1999

**Garnett Passe and Rodney Williams Memorial Foundation Award for 2000: Research Training Fellowships in Otorhinolaryngology:** Internal closing date: 20 August 1999.

**Horticultural Research & Development Corp - 1999 Graham Gregory Awards:** Internal closing date: 20 August 1999

**Motor Neurone Disease Research Institute of Australia Inc: Grants-in-Aid for Research into Motor Neurone Disease:** Internal closing date: 20 August 1999. Web site: <[www.vicnet.net.au/~mndri/](http://www.vicnet.net.au/~mndri/)>.

**Australian Academy of Science - Selby Fellowship for 2000:** Internal closing date: 23 August 1999. Web site: <[www.science.org.au/awards/awards.htm](http://www.science.org.au/awards/awards.htm)>.

**Dunlop Asia Awards Trust, The University of Melbourne, Asialink Centre: Sir Edward Weary Dunlop Asia Fellowships:** Internal closing date: 23 August 1999.

**Horticultural Research & Development Corp - Partnership in Horticulture: Horticultural R&D Funding 2000/2001:** Internal closing date (Concept Development Proposals) : 23 August 1999

**Parke Davis/Pfizer Medical Research Fellowships:** Internal closing date: 23 August 1999.

**Multiple Sclerosis Australia - Seeding Grants for 2000:** Internal closing date: 24 August 1999.

**SA Network for Research on Ageing - SANRA Research Awards 1999:** Internal closing date: 24 August 1999.

**Faulding Centenary Committee - The Faulding Florey Medal:** Internal closing date: 25 August 1999. Web site: <<http://www.aips.net.au/tallpoppies>>.

### Scholarships

Unless otherwise stated, information and applications are available from the Registrar, Scholarships, or the Scholarships Officer, Graduate Studies and Scholarships Branch, Level 7, Wills Building, ext 35697/ 33044. Undergraduate Scholarship enquiries to Anne Witt, ext 35271. Please lodge all applications with the Scholarships Office unless otherwise stated.

**ANU Summer Vacation Scholarships 99/2000:** Provides opportunity to undertake a short research project in physics, chemistry, astronomy, engineering, medical sciences, earth sciences, Pacific and Asian studies, social sciences, environmental sciences, arts, economics/commerce, mathematics, music, visual arts and other university areas. Closing: 31 August (ACT)

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

**CSIRO Australia Telescope National Facility Vacation Scholarships 1999/2000:** Open to 3rd and 4th year students in the areas of physics, mathematics, computer science, electrical engineering, or close allied subjects. Closing: 20 August (NSW)

**CSIRO Vacation Scholarships 1999/2000:** Open to graduates & undergraduates who have completed no less than three years of full-time courses in physics, mathematics, computer science, electrical engineering or closely allied subjects. Details available from <[http://www.atnf.csiro.au/educate/summer\\_vacation.html](http://www.atnf.csiro.au/educate/summer_vacation.html)>. Closing: 20 August

**Fulbright Awards 2000 to study in the USA:** Postgraduate awards available to undertake an American higher degree or engage in research towards an Australian higher degree in any field of study. Postdoctoral Awards to undertake study/research for 3 to 12 months. Senior Scholars Awards for senior scholars and professionals of academically based professions to visit the USA for 3 to 6 months. Professional Awards for practitioners in any field who have a record of achievement and are poised for advancement to a senior management or policy role wishing to undertake a professional development program in the USA for 3 to 4 months. Further information & applications available only from Fulbright website: <<http://sunsite.anu.edu.au/education/fulbright>>.

**Hebrew University of Jerusalem - Lady Davis Fellowship Trust:** Provides awards for study, research or teaching at graduate, postdoctoral or professorial levels at Hebrew University or the Technion. Details from: <<http://sites.huji.ac.il/LDFT>> or Lindy Susskind, (03) 9272 5511.

**Hebrew University of Jerusalem - Rothberg Family Scholarship:** Open to graduate students at all levels who meet the relevant requirements for participating in the Graduate Year Program at Hebrew University's Rothberg International School. Details from: <<http://sites.huji.ac.il/LDFT>> or Lindy Susskind, (03) 9272 5511.

**Multiple Sclerosis Australia - Postgraduate Research and Summer Vacation Scholarships:** Postgraduate scholarships open to registered medical graduates or appropriately qualified science graduates or health professionals. Vacation scholarships intended for currently enrolled undergraduates completing three or four years of a full-time course leading to an honours degree in medicine, health science or science. Applications for vacation scholarships direct to the funding body by 31 August 1999. Closing: 23 August- Postgraduate Scholarships (Scholarships)

**Neuromuscular Foundation of WA - Postgraduate Scholarships in Neuro-muscular Diseases and Neurosciences:** Open to medical or science honours students or graduates in medicine tenable at the Australian Neuromuscular Research Institute, University of WA. Forms from Mr Ian Passmore, tel: (08) 9346 2818, fax: (08) 9346 3487, email: <[anri@cyllene.uwa.edu.au](mailto:anri@cyllene.uwa.edu.au)>. Web: <<http://www.anri.uwa.edu.au>>. Closing: 19 August (WA)

**Rural Health Education Scholarships:** Ten one-off scholarships available to first year students who have lived in rural SA for no less than five years, and completed the first semester of their undergraduate health course in medicine, dentistry, nursing, or allied health. Closing: 27 August

**Sir Edward 'Weary' Dunlop Asian Fellowships:** Open to Australian citizens to undertake individually devised projects in an Asian country, in such fields as social service, local community development, peace-keeping, public health/welfare, technology, environment/resource management, arts/culture, sport. Closing: 30 August (Victoria)

**Sir Robert Menzies Scholarship in Law:** Tenable for two years in the UK commencing October 2000. Applicants should be aiming to attain prominence in Australia as demonstrated by their record of leadership, extra-curricular activities and interest in the service of others. Closing: 23 August (Scholarships)