

Surgery study offers hope to liver cancer patients

A MEDICAL research team from Adelaide University has begun final trials on a new and promising treatment for liver tumours.

Cancers of the liver are generally incurable. Only about 20% of livers diseased with tumours can be treated at present, and even then only with difficulty. Because the liver is essential for life and health, surgery is impossible when it involves the removal of excessive amounts of liver tissue. Transplants usually cannot be considered.

However, surgeons based in the Department of Surgery at Adelaide's Queen Elizabeth Hospital are now tackling liver tumours with electrolysis.

Electrolysis involves passing an electric current through the liver, a process that produces chemical and physical changes. Electrolysis can split water into oxygen and hydrogen, or produce strong acids and alkalis from neutral solutions.

The surgical team has developed techniques for inserting electrodes into a liver tumour and using low voltage to move ions between them, liberating toxic substances that destroy the tumour chemically. The current can be controlled to deliver a predictable dose-dependent response over time, and even very large tumours can be treated.

"The tumour isn't burned," explained Research Assistant Ms Paula Baxter, "the current is too low. We have an apparently safe process of destroying the tumour with the chemical action of electrolysis."

The technology has been developed conjointly with the University of Leicester in the UK. Over the last four years, five doctors from Leicester have been collaborating with the Adelaide team, which is led by Professor Guy Maddern.

"This is a technique and a technology that has not been used anywhere else in the world for this sort of condition," Professor Maddern said.

"It is now being published in recognised journals, and we hope that if we can get it working efficiently it will be picked up around the world."

"By placing the electrodes very carefully into the tumour, we hope to treat patients without resorting to major surgery," said Research Fellow Dr Guy Finch.

"We might even see the day when electrodes are left in the liver for several weeks, and patients come into the clinic for several sessions of treatment until the tumour is destroyed. It would be simple to manage, causing little discomfort and minimal disruption to patients' daily lives."

Following initial work on animals, a pilot study on five patients showed complete tumour destruction in all cases. That trial led to the use of electrolysis to treat three further patients with inoperable liver tumours. A surgical procedure on one patient 12 months later showed no trace of the original tumour, and that patient is now at 20 months follow up. The other two patients are currently at 14 and 12 months follow up, and neither shows any evidence of liver tumours.

"The patients we've treated to date have all gone well. They continue to be so, and some of them are now alive and well at a period of time greater than 12 months," Professor Maddern said.

"This is not going to be a cure-all for people," he said, "but I think for those who have cancers in the liver that are considered inoperable, this makes the patients potentially operable."

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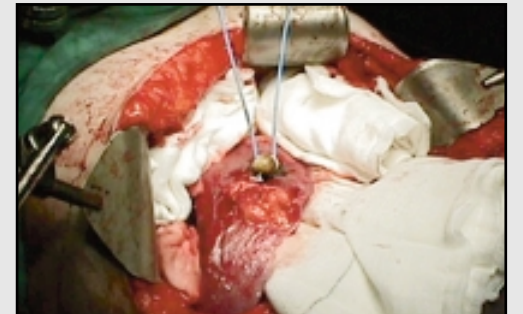
CANCERS of the colon and rectum are among the most common. While early diagnosis offers good prospects for their treatment, many are diagnosed at a late stage. A colo-rectal cancer which is in itself treatable has by then often spread to the liver.

Right: Professor Guy Maddern and his surgical team perform an operation.

Below left: Darkened liver tissue surrounding the large electrode has been destroyed by electrolysis. A smaller probe below it monitors the pH changes within the tissue.

Below right: Two electrodes are used to treat a tumour in the left lobe of a patient's liver.

Photos: Dr Guy Finch.



Putting a human face to tragic Bangladeshi health crisis

ADELAIDE University's Oral & Maxillofacial Surgery Unit is among the leaders of a major national project which aims to redress a shockingly high rate of maxillofacial problems in one of the world's poorest countries, Bangladesh.

The Bangladesh/Australia Oral & Maxillofacial Surgery Project has the ultimate aim of training more Bangladeshis to treat their own people, according to the unit's Director, Professor Alastair Goss.

The Oral & Maxillofacial Surgery Unit is based at the Royal Adelaide Hospital, Adelaide Dental Hospital, and Adelaide University. It provides a comprehensive service for South Australians with problems involving their mouth, jaws and face, and also provides undergraduate and postgraduate University-based education.

Bangladesh—with a population of more than 120 million—has an extremely poor health system compared with Western countries. Statistics about maxillofacial problems perfectly highlight this, Professor Goss said.

"The major portion of the gross national product is from overseas aid, with an average annual income for each adult being US\$25," he said.

"The health infrastructure is small, over-stretched and confined to the main cities.

"The country is ravished by many infectious



BEFORE: this Bangladeshi girl had a massive and infected benign tumour on her face.

diseases, such as cholera and dysentery, the average life expectancy is 55 years, and the infant mortality is 83 per 1000 cases.

"Maxillofacial pathology is common. Twenty-five percent of all cancers are in the mouth, and there are thousands of untreated cleft lip and palates."

In Bangladesh, there is only one trained oral and maxillofacial surgeon for every 24 million people.

This contrasts vividly with figures for developed industrial nations, where cancers of the mouth



AFTER: this photo shows how much difference the surgery to remove the tumour has made.

constitute less than 5% of all cancers, all cleft palates are recognised and treated at birth, and there is one trained maxillofacial surgeon to every 50,000 to 100,000 of population.

The joint Bangladesh/Australia project aims to reduce the Bangladesh figure from one surgeon for every 24 million down to one for every seven million by 2005, through a variety of means.

Professor Goss said the joint project involved education and training programs in both Bangladesh and Australia, with Adelaide

University playing a vital role in both countries.

"The project began 10 years ago through the individual efforts of Dr Barry Fitzpatrick, who was a senior lecturer at Adelaide University in the early 1970s. He realised the magnitude of the problems Bangladesh faces in this regard, and was determined to do something to improve the situation," Professor Goss said.

"Dr Fitzpatrick was helped by Dr Molla, from the University of Dhaka in Bangladesh, and together they successfully introduced this program, which is continuing to grow in size and effectiveness."

When Dr Fitzpatrick retired as chairman of the project, he was succeeded by Dr John Arvier of Brisbane, who also received his postgraduate training at Adelaide University.

"Part of the project involves Australian maxillofacial surgeons travelling to Bangladesh in their own time and at their own expense in order to help Bangladeshis with their maxillofacial training, primarily through the University of Dhaka Dental School and also a General Hospital in Dhaka," said Professor Goss.

"A number of staff from the Oral & Maxillofacial Surgery Unit have done this, all on more than one occasion: Doctors Bob Jones, Paul Sambrook and Miles Doddridge."

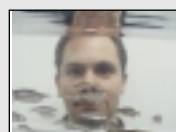
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INTERVIEW

PROFESSOR HUGH POSSINGHAM

PROFESSOR Hugh Possingham (Applied & Molecular Ecology) is leaving Adelaide University.

The Adelaidean's Science and Technology Journalist, Rob Morrison, asked Professor Possingham about his future plans, and a little about his time here.

When do you leave, where are you going and what will you do?

I'm going on July 7 to the University of Queensland. It's an appointment across two faculties; the departments of Mathematics and of Zoology & Entomology; a true joint appointment. It'll be nice having a foot in both camps. I don't think my research direction will change. It'll still be ecological theory, applied population dynamics and conservation biology.

I don't have any teaching for three years, but I'll be looking to attract people from computing science, engineering, maths and physics, where those modelling skills are generated, and convince them that ecological modelling is fun. It's easier for me to get students to come across from maths to the 'green' side. A lot of my best PhD students have come from maths and done ecological modelling.

What will your actual title be?

I will be a director of a new centre that has been provisionally called the Centre for Population and Conservation Biology. A theme of the centre will be applied spatial population biology. We will tackle major national issues involving population management, from fisheries and harvesting kangaroos to conservation of threatened species and pest control.

You have established an impressive record here. What prompts the move?

I don't think academics move enough. I came

back here after seven years (I was an undergraduate here), and I got into an office in Applied Mathematics. I had this horrible feeling that somebody would walk past my office in 30 years' time and say "There's old Possingham's office, he taught my grandfather maths in 1991."

10 years I've been here, and I've actually been on three different campuses, so you can't say I haven't moved a bit. ten years; a good time to move. If we were in industry, academics would be shuffling round every five years.

But academics can travel. Why is it so important to move your academic base?

You learn a lot of new things. You're right; from your research perspective it's not a big deal. With the research papers I now write, more than half of the co-authors are not in Adelaide, or even in Australia, but that's easy; you can fly to the US for a week and get some serious work done, so I don't think it's important from a research point of view.

I think it is important to move from the teaching and administrative side. When we go on study leave, not many of us talk about how we teach Biology 1 or Maths 1. You're not going to start asking about the details of how administrative structures work, how they devolve their money, how they do media, and all of those things that are now one third of our job, really. I'm intrigued by a new place and a new structure.

Do you take researchers with you?

Yes, a couple of postdoctoral researchers. At the moment I have one large ARC and one SPIRT, so they'll come with me. Most of my PhD students are being co-supervised, and they can live without me for the six months to a year while they finish off, which is a good thing about having multiple supervisors. Some plan to visit

briefly, no doubt in the winter!

From dry sclerophyll forests and arid zones to tropical rainforests and coral reefs. A big change for an ecologist?

Not really; most of my stuff is fairly generic. As an ecologist, I'm a habitat generalist and adaptable to any organism. A lot of my work recently has been marine, and where I'm going has a big new marine institute set up. We are currently doing a contract with the Great Barrier Reef Marine Park Authority, so that will save me time on the trips to Townsville.

I have enjoyed my time here enormously, particularly my varied interactions with staff across all three campuses; all the different faculties, and the central administration. So many people have helped me in so many ways it is impossible to thank them all.

In particular, I would like to thank Peter Gill, my former Head of Department in Applied Mathematics, and Malcolm Oades, my current Executive Dean, for their wisdom, integrity and patience. I feel especially proud of being involved in the successful supervision of 10 PhD students (10 more still to go), and 32 Honours students. Their enthusiasm for mathematics and science has been inspiring.

Are there projects left incomplete?

I am disappointed in one thing. When I first got here, there were ecologists across several departments in the University, fragmented across three campuses. My vision was to sort out departmental structures along discipline lines a lot better than they had been. The bringing of Waite and Roseworthy into the University didn't do it, as it never meshed them or resolved the overlapping teaching and research.

I suppose universities frustrate people like me in terms of their inability to change very quickly.



To precipitate things, we dissolved Environmental Science & Management as an act of faith because we believed we were in the wrong structure. By dissolving, we hoped to achieve a reorganisation along more rational lines. Unfortunately that still failed.

You can split biology up in a number of ways. You can go system-based and have plant, animal and biophysical departments; that would make sense. You could have a structure based on the hierarchy of biology; molecular, physiological, organismal and ecosystem. There are some sensible ways of dividing up biological academics into groups but, despite that, people have trouble releasing themselves from the constraints of history. We failed; I am one of the casualties. Maybe the Biological Sciences Review will succeed.

Public Lecture

The Centre for British Studies is hosting a public lecture by Professor John Gascoigne of the University of New South Wales.

Professor Gascoigne is widely known as a historian of early modern science and the biographer of Sir Joseph Banks. Having published a history of Cambridge University in the *Age of Enlightenment* (Cambridge UP, 1989), *Joseph Banks and the English Enlightenment* (Cambridge UP, 1994) and *Science in the Service of Empire* (Cambridge UP 1998), Gascoigne is currently working on the influence of the European and English enlightenments in the early settlement of Australia.

"A Nation Rationally Conceived: The Enlightenment and the Origins of Australian Society", Ira Raymond Room, Barr Smith Library, 4.30pm, Tuesday 4 July. All welcome.

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Another Hawker scholar for Adelaide

ADELAIDE student Faye Ashworth is the winner of this year's prestigious Charles Allan Seymour Hawker Memorial Scholarship.

Ms Ashworth, a double-degree student in Law and Science at Adelaide University, was awarded the \$40,000 scholarship above a strong field of applicants from around Australia.

The Hawker Scholarship (described as "Australia's Rhodes") is the most financially generous privately funded scholarship available to Year 12 and undergraduate students in Australia. The scholarship commemorates the achievements of one of Australia's most respected pastoral pioneers, Charles Allan Seymour Hawker, who was also a scholar, soldier and statesman.

The \$40,000 scholarship pays for Ms Ashworth's HECS and other study fees, her residential fees at St Mark's College, and provides her with an annual credit at Unibooks.

Ms Ashworth joins the growing list of Adelaide University students to win the Hawker Scholarship, including last year's winners Phillip Killicoat and Alison Lloyd-Wright, 1998 winner Kirsty Munro and 1997 winner Jessica Roediger.

The scholarships are offered to academically talented students "of principle and character, who are committed to participating in and improving Australia's future". Since 1991, the Trustees of the Hawker Scholarship have awarded more than one million dollars to 26 young Australians.

Ms Ashworth was officially presented with the scholarship last month by the South Australian Minister for Education, Children's Services and Training, the Hon. Mr Malcolm Buckby MP.

"Faye Ashworth has already displayed a strong commitment to the ideals upon which

the CAS Hawker Scholarship is founded," Mr Buckby said.

"Faye is a gifted scholar and sports person. She has an inquiring mind and seeks through her efforts to better herself and as a result improve the wider community."

Master of St Mark's College the Hon. Mr John Bannon congratulated Ms Ashworth, and recognised the contribution by present and past Hawker Scholars who had resided at the College—including two who subsequently became Rhodes Scholars.

"The Hawker Scholarship is one of the most important in Australia. I commend the Trustees for the contribution the scholarship has already made and will continue to make to education in this country," Mr Bannon said.

More information about the Hawker Scholarship can be found online at <www.hawkerscholarship.org> or by calling (08) 8218 4911.

—Ian Doyle Faye Ashworth. Photo courtesy of Ian Doyle.



Adelaide University Hawker Scholars, past and present, at St Mark's College. From left: Faye Ashworth, Jessica Roediger, Phillip Killicoat, Alison Lloyd-Wright and Kirsty Munro.

Petroleum school a done deal

PETROLEUM company Santos Ltd and Adelaide University have signed what is believed to be the biggest sponsorship deal ever agreed between a private company and a public university in Australia.

The deal—announced originally last August—will see Santos provide \$25 million to establish a School of Petroleum Engineering at Adelaide University.

University Vice-Chancellor Professor Mary O'Kane and Santos Managing Director Mr Ross Adler completed the legal formalities at a signing ceremony at Santos headquarters in Adelaide on 23 June.

The Santos School of Petroleum Engineering & Management, as it will be known, will be a major education centre for the region, at the forefront of petroleum research, teaching and industry training.

The sponsorship will help provide almost \$5 million worth of scholarships to students undertaking the new undergraduate and postgraduate degree courses in Petroleum Engineering.

It will also support the construction of a special-purpose building, complete with laboratory and computing facilities, and the



Adelaide University Vice-Chancellor Professor Mary O'Kane, with the University seal, and Santos Managing Director Mr Ross Adler. Photo: John Drislane

funding of the Santos Chair in Petroleum Engineering. (The Commonwealth Government will provide \$1 million for a second Chair, to be known as the Reg Sprigg Chair).

The School is expected to be a major drawcard for international students,

particularly from the Asia Pacific region. It is expected to have one semester in common with the Petroleum degree course of a university in the United States, allowing students from one institution to study at the other without loss of time or credit.

—John Drislane

New book highlights girls' education

A LIFETIME of involvement in girls education has been further enhanced for Dr Helen Reid, with the launch of her first book on the topic.

Age of Transition: A Study of Four South Australian Private Girls Schools between 1855-1926 was launched by Vice-Chancellor Professor Mary O'Kane on Thursday 22 June.

The book is based on Dr Reid's doctoral thesis, which she completed as part of her PhD in Education at Adelaide University in 1996.

Dr Reid was headmistress of Walford Anglican School for Girls in Adelaide from 1973 to 1991. Since her retirement from Walford, she has served on various school and university college councils, and has served on the Adelaide University Council since 1998.

In the book's foreword, respected historian Dr Helen Jones writes that Dr Reid's lifetime of experience in education makes *Age of Transition* "a book of exceptional interest".

"She has known private girls schools as a student, teacher and headmistress, and has had further extensive involvement in education," she said.

"Hers might almost be called a history 'from within', for she knows well the complexities of management and teaching in private schools. She considers education philosophies and also bread and butter issues—and the practical need at times to strike a balance between the two.

"The students, teachers and headmistresses who people these pages come to life both through extensive contemporary evidence and the author's fascinating interviews with relatives of past students and teachers."

Professor O'Kane praised Dr Reid's outstanding contribution to education in South Australia, saying it warranted a book in its own right.



Longtime Walford headmistress, and now first-time author, Dr Helen Reid. Photo: Ben Osborne.

She said Dr Reid's study showed how girls' education had been improved and underlined how far girls had come academically in South Australia. She said this provided some valuable lessons for how boys' education might be improved in the future.

—Ben Osborne

Art exhibition to promote conference

PAINTINGS by a former member of the French Department have gone on display in the Barr Smith Library as part of the 8th Annual Conference of the Australian Society for French Studies being held at Adelaide University (5-7 July).

The late Hope Crampton was a senior lecturer in French Language and Literature at Adelaide University from 1930 to 1960. She retired on her 60th birthday and set out on travels through Europe, Russia and Turkey.

Hope eventually settled in the Adelaide Hills and took up watercolours—her teacher was the painter Ruth Tuck. She had one exhibition, the Theodosia Series, some of the paintings from which are featured in the Library display.



Librarian Mr Alan Keig with one of Hope Crampton's paintings. Photo: David Ellis.

"Many of Hope's paintings are a record of her travels, while others reflect her keen interest in classical literature," said librarian Mr Alan Keig.

The paintings will be on display in the foyer of the Barr Smith Library from 3-28 July.

Meanwhile, the conference—headlined "The Place of the Culinary in French Life and Culture"—promises to be an exciting and varied event.

Two public lectures kick off the conference. Angus Trumble, Curator of European Art at the Art Gallery of SA, will discuss "Teeth and the Modern Mouth in Art", while Gabrielle Cadier from the Sorbonne (University of Paris) will deal with "Alcohol and sociability in literature and art".

The public lectures start at 6.30pm and will be held at the Auditorium of the SA Art Gallery.

The conference, convened by Dr John West-Sooby (Centre for European Studies), officially opens in Adelaide University's Council Room on Wednesday 5 July.



HECS complexities

A few weeks ago in this column, I commended *The Australian* on its excellent series of articles about the future of higher education. Since then, the newspaper has published further articles by columnist Paul Kelly examining the major issues facing our universities. There's also been a perceptive editorial in *The Advertiser* welcoming the appointment of our new Chancellor, Robert Champion de Crespigny, and underlining the key role of industry in higher education.

These are encouraging signs. They suggest a growing awareness within the media that our universities are at a crossroads and that the public ought to be better informed about the issues.

I've been a long-time advocate of more open public discussion of higher education. One of the most valuable things I believe we can do is promote a greater understanding of how universities are funded and why Australian universities are facing tough times. Most people have difficulty understanding the Higher Education Contribution Scheme (HECS) and the role it plays in universities' finances. Given the complexities involved, this is hardly surprising.

There's a widespread public belief that the money universities receive through HECS comes on top of the annual Operating Grant provided by the Commonwealth. This is not the case. What happens, in fact, is that our Operating Grant is adjusted annually to take account of the level of HECS payments received from students. The more HECS, the less Commonwealth money.

We receive our Commonwealth Operating Grant conditional on our achieving a target total student load (in our case, 9570 EFTSU in 2000) including a target undergraduate load (in our case, 8420 EFTSU for 2000).

The Operating Grant comes to us in two main components: a government subvention and HECS payments. Universities collect and retain all the up-front HECS fees paid by students who choose the up-front payment option. We also receive HECS fees through a more indirect route. These are the HECS fees of students who chose the deferred payment option. They are collected through the tax system, paid into a trust account (the Higher Education Trust Fund) and recycled back to universities annually.

In allocating us our Operating Grant, the Government is giving us a guarantee that we will receive a fixed amount, even though the Government itself only funds a portion of it. Minister Kemp's Funding Report shows that, in 1999, Adelaide University was guaranteed an Operating Grant of \$134.6 million. Our total consolidated revenue from all sources was \$308.6 million in that year.

The contribution of HECS to our Operating Grant has been rising steadily in recent years. Our University's financial statements show that HECS payments contributed \$22.6 million in 1996, \$29.2 million in 1997, \$32.7 million in 1998 and \$36.8 million in 1999. The Government subvention has declined accordingly as the University's Operating Grant increased by only approximately 1% over that period.

The message is clear: increased HECS contributions are masking the true reduction in net direct Government support for universities. I've pointed out many times that the Operating Grant itself accounts for only 44% of this University's consolidated revenue. And the Government subvention to the Operating Grant accounts for just 32% of that revenue and is continuing to decline.

MARY O'KANE

North Terrace to be "nerve centre" for Adelaide neuroscientists

THE 1990s was declared the Decade of the Brain.

The decade may be ending, but research into the brain and nervous system has never been more intense. Nor has there ever been a greater number of researchers involved.

Our understanding of the morphology, physiology and pathology of the brain and nerves has advanced immensely in recent times, but a large number of problems remain unsolved. That number increases as research answers some questions, only to generate more.

Many neuroscientists have their base in the North Terrace precinct at Adelaide University, the Institute of Medical & Veterinary Science and teaching hospitals linked to the university.

The formation of the North Terrace Neuroscience Discussion Group is an attempt to create a common platform for neuroscientists from all of these institutions, wherever they may work.

The group's objectives are to facilitate communication and collaboration between teams working on

different aspects of the nervous system.

The discussion group has been started by Dr Robert Moyer, NH&MRC research officer in the department of Obstetrics Gynaecology.

"I've been going to the Neuroscience seminar program at Flinders University," said Dr Moyer.

"It struck me that we had enough neuroscientists at North Terrace to warrant the formation of such a group, so I did a literature search and emailed 70 of them. More than 50 have responded positively, and that number is growing," he said.

The enormous potential of this discussion group derives from the wide range of topics covered by the researchers involved. They include topics such as sensorimotor and neuromuscular neurophysiology, neuro-genetics, circadian rhythms, drugs of abuse, brain evolution, traumatic brain injury, schizophrenia and a host of psychiatric disorders.

"We plan to start with two main activities," said Dr Moyer. "We will have our fortnightly addresses delivered in person, and we will also have discussion by means of a newsgroup on our website, which



has already been established."

The inaugural address is to be delivered by Dr David Kerr. Dr Kerr has been an active neuroscientist at Adelaide University since the 1950s and will give his personal perspectives on *Half a Century of Neuroscience at Adelaide University*.

Dr Kerr's address will be delivered on Tuesday 11 July at 5.00 pm in the seminar room of the Department of Obstetrics & Gynaecology (Medical

School North, 6th floor).

Subsequent meetings will be on alternative Tuesdays thereafter, and will be advertised in the Adelaidean. The website at <www.health.adelaide.edu.au/~rmoyer/NEUROSCIENCE> offers more complete information, including the seminar program for the rest of 2000. Contact Dr Moyer by email: <robert.moyer@adelaide.edu.au>.

—Rob Morrison

Food for thought

ADELAIDE University and Regency Institute of TAFE are teaming up to respond to forecasts of a 300% growth in SA's food manufacturing sector by the year 2010.

Part of this response is the introduction of the new Bachelor degree in Food Technology & Management.

Senior Lecturer at Adelaide University Dr Andreas Klieber said: "The course will play an important role for the industry, as consumers are demanding new and innovative food products to provide convenience in their busy lives and at the same time want to be assured that the food they eat is safe.

"The degree will be the key to careers in new food product development, quality management, managing food processing operations and legislation implementation, market analysis and food promotion and international marketing," he said.

The program has strong industry support, with industry placement in the course giving graduates hands-on experience.

For more information visit <www.waite.adelaide.edu.au/food> or contact Dr Klieber on 8303 6653.

Careers in agriculture a drawcard for top student

CHOOSING to study agriculture above engineering, pharmacy or other high-entry careers was a simple decision for top student Jane Schulz.

It was a decision that won her the Lois Harris Agricultural Bureau Scholarship, awarded each year to the first-year student with the highest TER score in the Bachelor of Agriculture course at Adelaide's Roseworthy Campus.

With a TER of 96.5, Ms Schulz began her studies at Roseworthy this year with three others who scored in the 90s.

Hailing from Maitland on Yorke Peninsula, Ms Schulz has a strong belief in the agricultural industry and did not hesitate to choose a university course that would give her the best career options.

"I believe that agriculture is one of the growth industries in Australia. The service industries are booming and there are so many opportunities in value adding and trying to find innovative ways of using our products," she said.

"There is also a growing gap between good and bad farmers. To get into the good group you need to have a good education these days, and there is an increasing demand by the poor farmers to have assistance to improve their management practices and skills.

"With so many possible career opportunities I was glad to find a

course that covered such a broad base and provided many options for a job when I finish."

Ms Schulz said it was a "surprise and an honour" to receive the Lois Harris scholarship, which was established last year to encourage top senior high school students to consider undertaking agricultural studies at tertiary level.

The State President of the Agricultural Bureau, Mr Rodney Bell, said the scholarship was established to show that the industry believed there was a sound future in agriculture.

"With their secondary school achievements, students such as Jane could have accessed a wide range of other prestigious university courses but have selected agriculture. Their career choice is very pleasing. We wish Jane and the others all the very best," he said.

The scholarship is named the Lois Harris Agricultural Bureau Scholarship in memory of the late Mrs Harris, who was a member of the Advisory Board of Agriculture (the governing body of the Agricultural Bureau) from 1995 to 1998. She was very active in pushing for students to consider careers in agriculture.

Jane Schulz is the second winner of the scholarship. Last year, Daniel Schuppan from Robertstown won the inaugural scholarship.

—Elizabeth Burns



Jane Schulz, winner of this year's Lois Harris Agricultural Bureau Scholarship. Jane is one of a number of top-ranking students to choose agriculture over other fields of study.

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Human face of health crisis

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The training program in Bangladesh involves students undergoing a five-year Masters Degree at the University of Dhaka. There are currently 12 students going through at a rate of four per year, with the first group of four completing their training in 2001.

A new component of the project course is to bring last-year trainees out to Australia to further enhance their knowledge and broaden their learning base through an intensive short-course program. This training follows the curriculum developed jointly by Adelaide University and the University of Dhaka. This particular program has started this year, with each of the four final-year trainees coming to Adelaide for a 12-week period.

"The most important thing out of all of this is that we want to train Bangladesh people to help their own people," Professor Goss said.

"It follows on from that old saying: 'give



From left: the University of Dhaka's Professor Molla with Adelaide University's Professor Alastair Goss.

someone a fish and they can feed their family for a day, but teach someone to fish and they can feed their family for a lifetime'."

—Ben Osborne

New research animals earn their stripes

FISH are not the most intelligent animals, but Adelaide University geneticists are learning about the great mysteries of life from the brains of humble zebrafish.

At the ARC Special Research Centre for the Molecular Genetics of Development, Dr Michael Lardelli works with zebrafish, searching for genes expressed during the earliest stages of the brain's development, when its first cells are generated and the future brain is divided up into its various subregions.

"Zebrafish combine some of the best characteristics of those other two workhorses of developmental genetics, the mouse and the vinegar fly," said Dr Lardelli.

"Having worked with both mice and flies, it was love at first sight when I saw a developing zebrafish embryo,"

The zebrafish (*Danio rerio*) is a small freshwater fish about 3 cm long. It gets its name from prominent black and white stripes running along its body. Originating in India, the fish are now widely distributed across the world.

Zebrafish have been studied by developmental researchers for more than 30 years, and they even have their own website <<http://zfsh.uoregon.edu/>> where many details of their biology are revealed. They are small and tolerate high densities, so they are inexpensive to keep and breed in large numbers. They have a short generation time and a single female can produce more than 200 eggs in a week.

Once they are fertilised, zebrafish eggs develop externally, rather than in a womb as mice do. The developing embryos are completely transparent, so they are easily studied under a microscope, where every cell can be seen. The eggs develop quickly—from fertilisation to hatching takes only three days.

"A zebrafish embryo does in three days what

takes a human three months!" said Dr Lardelli.

Under the microscope, the developing eggs can be filmed, exposed to chemicals in the water that bathes them, or even to surgical procedures, and their progress compared with other untreated eggs at the same stage of development.

Parts of embryos can be marked with fluorescent dyes to determine their fate as the embryo increases in complexity. New genes (transgenes) can be injected into the embryos to see their effect on development.

Zebrafish can also be studied by mutating the embryo's own genes and observing what effect this has on development. Such studies are revealing how nerve cells develop in the brain and nervous system, and which genes control the development of the backbone.

These and other advantages mean that zebrafish are replacing laboratory mice for many genetic studies.

"Growth in interest in zebrafish has been exponential over the past few years," said Dr Lardelli. "As the usefulness of this system increases, we may see a greater proportion of articles in developmental journals describing zebrafish research, while mice are used more to address questions specific to mammals.

"Our search for genes controlling brain development has been more successful than we had hoped. We have found more genes than we have the capacity to analyse in detail, so we are forced to focus on a few of the most interesting ones, and put the rest aside," he said.

"Still, it's better to have too many than too few."

The understanding of the genetics of zebrafish is now so advanced that scientists believe the entire zebrafish genome will be sequenced by the end of 2001. While that will mean that they know a great deal about the development of zebrafish, the real benefits of the study will lie in their wider implications.



Top: Dr Michael Lardelli observes a school of zebrafish. Right: Micrographs of the zebrafish embryo are captured on video and by computer for further study. Photos: Rob Morrison.



Knowing how the brain develops, even in a lowly vertebrate such as a fish, will greatly help our understanding of diseases such as Parkinson's disease, spina bifida, Alzheimer's disease and other afflictions of humans that have an inherited component or which are the result of incomplete embryonic development.

The scientific discoveries are likely to lead to many health benefits which, in turn, will open up huge commercial possibilities.

"There is big money being invested by pharmaceutical companies in the genetic research done on zebrafish," said Dr Lardelli.

"The intensity and competitiveness of the

research is very exciting, but the zebrafish community still retains a friendly, co-operative attitude. Let's hope that it continues that way."

—Rob Morrison

Elder Prize goes to anthropologist

FOR Department of Anthropology Head Dr John Gray, teaching is a lot more than simply ensuring students gain knowledge—it's about teaching students how to learn.

It's a philosophy which has served Dr Gray well throughout his career, culminating in his recognition as one of three Stephen Cole the Elder Prize-winners for Excellence in Teaching in 1999.

Dr Geoff Crisp (Chemistry) and Mr Steven Knopoff (Music Studies) were featured in the 22 May and 19 June issues of the *Adelaidean* respectively.

American-born Dr Gray received a BA in Psychology from Bucknell University, a MA in Anthropology from Northwestern University and a PhD in Anthropology from the University of Hawaii before moving to Australia in 1975.

He took up a position as a tutor with Adelaide University's Department of Anthropology upon arriving in Australia and has been with the University since, progressing to his current position of Head of the Department.

"Anthropology is being able to learn about, and understand, in a very full and vivid way, the way others experience the world," he said.

"I try to convey this to students, but I also try and structure my teaching so I can understand the students' point of view and where they are coming from when they are learning about anthropology. To me, it's no good having someone up the front of the class saying 'here's what I know', it's far better to be able to approach it from the students' angle.

"With anthropology, I think it's vital that students don't take everything for granted—they should read all their readings not with a sense of agreeing or disagreeing with what the author is saying, but how the author came to his or her conclusion.

"It's a case of students learning how to learn to be anthropologists. My goal as a teacher is to instil a life-long culture of learning that empowers our graduates to use the abilities of learning to learn in their everyday lives in challenging critically, and thereby changing their relations to, the taken-for-grantedness of our social world."

Despite being recognised as one of the University's best teachers, Dr Gray is doing less undergraduate teaching this year—which he misses—though he supervises honours and postgraduate students. But that's not to say he is not



Stephen Cole the Elder Prize for Excellence in Teaching recipient Dr John Gray. Photo: Ben Osborne

furthering his education as a teacher.

He is not only Department Head, but also Associate Dean (Education) of the Faculty of Humanities & Social Sciences and Deputy Convenor of the Academic Board.

"I've taken on a lot of administrative roles over the past several years, which has limited my teaching time, but I'm finding these administrative roles are helping me increase my knowledge as a teacher.

"I've been able to examine and learn from what other teachers are doing in the faculty and across the university, and by the same token been able to help and encourage others with their teaching, which is very satisfying," he said.

—Ben Osborne

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Indonesian graduates focus of new study

THE outcomes of overseas tertiary education undertaken by Indonesian students have become the subject of a new research project.

Associate Professor Bob Cannon from Adelaide University's Advisory Centre for University Education (ACUE) conducted the research project on behalf of IDP Education Australia.

Eighty-nine overseas-trained Indonesian graduates working in public and private sector institutions formed the major focus of the study. Supplementary groups of locally trained colleagues and institutional managers also contributed to the research study.

Associate Professor Cannon found the outcomes derived from an international overseas education by graduates to be complex.

"They are a mix of professional, affective, cultural and career advantages, mediated by the nature of the environment in which they work and the nature of the work they do," he said.

"Most graduates believe the advantages of an overseas education are more important than the disadvantages. Nevertheless, there are important disadvantages, such as difficulties with re-entry, work relationships, and the development of appropriate professional networks."

He found that Indonesian graduates placed

most importance on outcomes such as changes in intellectual abilities, attitudes and cultural perspectives, rather than on narrower career advantages such as salary and promotion, which may actually suffer as a consequence of an international education.

In concluding his study, Associate Professor Cannon reported that the rich experiences of an overseas education appeared to create a distinct inter-cultural group in professional society—a "third place"—neither completely Indonesian in outlook nor completely reflecting the culture of the country where they studied.

"Although there are some challenges for graduates to face as a result of this 'third place', reverse culture shock being one of them, I believe that creative individuals and their employers will seize opportunities presented by this third place phenomenon," he said.

"By giving considerate attention to the unique potential of this third place, and by maintaining and strengthening links in the educational and employment situation of graduates, stakeholders can build on the distinctive outcomes from an overseas education."

Copies of the research paper can be obtained by emailing <robert.cannon@adelaide.edu.au>.



Associate Professor Bob Cannon with an Indonesian graduate. Photo courtesy of Professor Cannon.

Surgery study offers hope to liver cancer patients

From Page 1

"If in the future the disease returns after what we thought was a curative operation, we may well be able to treat these patients without the need for surgery. We expect that the technique will improve considerably over the next 12 months," he said.

For any new form of cancer therapy to become accepted in clinical practice, it must be shown to improve patient survival. This is best shown by a five-year follow up of a controlled clinical trial of patients with inoperable disease.

The Department of Surgery is very keen to have any patients with known liver cancers referred to them to be assessed for their suitability for electrolytic treatment.

Arrangements can be made directly with Professor Maddern's receptionist at The Queen Elizabeth Hospital—phone (08) 8222 6750.

—Rob Morrison

Targets set on pest control at meeting

ROSEWORTHY was a focal point recently for the nation's expertise in controlling three of Australia's most damaging pest animals.

The annual scientific meeting of the Pest Animal Control Cooperative Research Centre (CRC) was held last month on Roseworthy Campus, bringing together more than 50 key research staff and students to update knowledge on the progress of research programs, to discuss and share successes and challenges, and to review priorities for research.

The CRC aims to develop fertility control vaccines for the rabbit, the fox and the introduced house mouse.

These controls need to be cost effective, environmentally friendly and successfully reduce the impact of the pest to acceptable levels over a long period of time.

The Pest Animal Control CRC (formally the CRC for the Biological Control of Vertebrate Pests) began its second seven-year term this year.

Adelaide University is a core participant in the CRC, with staff involved from the departments of Microbiology & Immunology, Biochemistry, Obstetrics & Gynaecology, Applied & Molecular Ecology and Animal Science.

They were joined by staff from CSIRO (Wildlife and Ecology), the universities of Western Australia, Sydney and ANU, the WA Department of Conservation & Land Management and Agriculture Western Australia.



Roseworthy was an ideal venue for the meeting. The presence of more than 50 of Australia's key researchers in this area has provided considerable interest and inspiration for a number of students on the campus, some of whom receive research support from the Pest Animal Control CRC.

—Sharon Behen

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AUSTRALIA

Agriculture and environment fair at Waite Campus

MORE than 400 students attended the recent inaugural Agricultural & Environmental Careers Fair at Adelaide University's Waite Campus.

The fair brought together industry organisations, recruitment firms and key agricultural and wine companies, all keen to be in the race to find the smartest and brightest students.

The Executive Dean of the Faculty of Agricultural & Natural Resource Sciences, Professor Malcolm Oades, was pleased by the level of interest shown at the event.

"It reinforces the strong demand for graduates of our courses," he said.

"It was a great opportunity for students of Roseworthy and Waite and secondary school students to have access to a range of university course counsellors, academics and industry representatives."

The Waite Institute Student Association (WISA), Roseworthy Agricultural Campus Student Union Council, the Students Association of Adelaide



University and the Adelaide University Union joined forces to organise the event with the aim of assisting the careers of young people involved in relevant fields of study.

After the fair, a reception for employer groups was hosted by Professor Malcolm Oades and President of WISA, Ms Caroline Brockus.

—Sharon Behen

Alumni Convention in Malaysia

INTERNATIONAL graduates of Australian universities are invited to attend the Second Australian Universities International Alumni Convention, to be held in Kuching, Sarawak (East Malaysia) from 24-27 August.

The theme of the convention is "Globalisation and the New World Order".

This a particularly appropriate theme given the pressure on all countries for increased global interaction and a need for the peoples of the world to come to understand what globalisation really means, what the positives and negatives of it are, and what the future may look like.

This convention continues on from the highly successful inaugural convention held in Adelaide in 1998.

In addition to the stimulating plenary and concurrent sessions there are a range of complementary activities planned for this year's event.

Kuching is not a mainstream tourist destination, rather a place to enjoy a rich cultural heritage and an extremely diverse, tropical natural environment; the old blends with the new, and the people are warm and friendly.

It is expected that a large number of Adelaide alumni from peninsular Malaysia and Sabah will attend as well as those who live in Sarawak.

The convention offers the opportunity for Adelaide alumni (and not just those living in Adelaide) to share the mutual bond of their alma mater in an international environment.

Further details about the convention and travel packages can be obtained by calling (08) 8232 8722 or email: <geoffrey.sauer@adelaide.edu.au>.

—Geoff Sauer
Australian Secretary, Second Australian Universities International Alumni Convention

From sand to snow—indigenous perspectives lead Scott to Canada

AN exploration of age-old views of the Adelaide landscape has led to new horizons for a young Landscape Architecture student.

Scott Heyes last year completed his Bachelor degree in Landscape Architecture with First Class Honours, his research looking at "Seasons of the Adelaide Plains" through the eyes of the Kurna Aboriginal people.

Now studying for his Masters in Landscape Architecture, Mr Heyes has been awarded a Queens Trust scholarship to spend nine months in Canada. At the Université de Montréal and in the field, Mr Heyes will study and compare the Inuit experience and their reading of landscapes with the experience of the Kurna people.

Mr Heyes is also a recipient of an Australian Postgraduate Award which usually goes to engineering or medical students. He is now the second Adelaide University student in Landscape Architecture to gain this award.

"My topic of interest relates to Aboriginal narratives, story telling and mythology," Mr Heyes told the *Adelaidean* shortly before leaving for Canada last month.

"The combination of these concepts delivers a particular perception of landscape, one that is embedded with spiritual meanings and attachments.

"It may seem like an unusual topic to be studying in Landscape Architecture, but when we understand indigenous connections to and readings of landscape we can begin to explore a 'new world' of design—a realm that until recently, from the Western point of view, has been left unexplored."

The idea is to see the land through an "indigenous lens", as Mr Heyes describes it. His initial research is proving fruitful.

"Already I'm seeing similarities in perceptions



Scott Heyes at Adelaide University, shortly before leaving for Montreal. Photo: David Ellis.

of landscape between indigenous Australian Aborigines and the Inuit people of Canada. There are definitely parallels of experience.

"Aborigines' descriptions of patterns in sand, for instance, mirror those of the Inuit's descriptions of patterns in snow.

"There is a vastness and an openness in both our countries, and the sheer space and scale of the land are themselves a 'shared experience' of both the Aboriginal and Inuit people," he said.

Mr Heyes has two supervisors: Dr David Jones, from Adelaide University's School of Architecture, Landscape Architecture & Urban Design, and Professor Peter Jacobs, one of the most senior landscape architecture academics in Canada, from the Université de Montréal. Support for the project has also been received from the SA Museum.

Dr Jones said the idea behind this project and other research being conducted was to shed the "cultural baggage" from Europe and the US.

"The indigenous approach has been one of caring and nourishing the land. None of that has been applied here," he said.

"It all comes back to a way of seeing things—we're setting up a guide to another way of seeing the landscape other than a Western one. Who knows where that can go, where it can take us."

Although spending much of his time at Montréal, Mr Heyes planned to go "to the source of the information—to academics, museums, and the Inuit communities themselves".

He is due to return to Adelaide in February 2001.

—David Ellis

Please help us to keep in touch

WE ARE currently working hard to update our database in the Alumni and Community Relations office so we can keep in touch with you and as many of the University's students, graduates, staff, former staff members or friends as possible. If you are a current student, graduate, staff, former staff member or a friend of the University we would love to hear from you.

We would also like to make sure you receive **complimentary** copies of *Lumen*—the feature magazine of Adelaide University for its alumni and friends. *Lumen* highlights the University's initiatives and successes and celebrates the work of its students, staff and graduates.

It would be very helpful if you could spare a few moments to complete as much as possible of the attached form. If you know of anyone else who is a student, graduate, staff, former staff member or friend of the University we would love to have their details too.

As a member of the alumni or a friend of Adelaide University your input and support is critical to our future success.

All information provided will be used for University purposes only.

Your details: Title (Mr, Ms, Dr, Mrs, etc) Family Name Former Family Name (if applicable) Given Names Address State..... Postcode Country Phone Hm () Wk () Fax Hm () Fax Wk () Gender M F (circle) Email Date of Birth Country of Birth Spouse/Partner's name: Is you spouse/partner a graduate of this University? <input type="checkbox"/> YES <input type="checkbox"/> NO Adelaide University Degree(s) or Qualification(s): <table border="1"> <thead> <tr> <th>Qualification</th> <th>Course</th> <th>Year of Graduation</th> </tr> </thead> <tbody> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table> Degrees or Qualifications from other institutions: <table border="1"> <thead> <tr> <th>Institution</th> <th>Qualification</th> <th>Year of Graduation</th> </tr> </thead> <tbody> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table> Please tick if you are: <input type="checkbox"/> Former Staff <input type="checkbox"/> Staff <input type="checkbox"/> Graduate <input type="checkbox"/> Student <input type="checkbox"/> Student/Staff No. (if known) <input type="checkbox"/> Parent of a student or graduate <input type="checkbox"/> Other			Qualification	Course	Year of Graduation	Institution	Qualification	Year of Graduation	Career Details: Please tick if you are: <input type="checkbox"/> Still Studying <input type="checkbox"/> Taking time out <input type="checkbox"/> Self employed <input type="checkbox"/> Unemployed <input type="checkbox"/> Family commitments at home <input type="checkbox"/> Retired <input type="checkbox"/> Employed Your position: Type of employment (please tick): <input type="checkbox"/> Professional <input type="checkbox"/> Managerial <input type="checkbox"/> Administrative <input type="checkbox"/> Supportive <input type="checkbox"/> Service Details of a friend, spouse or partner: (more names welcome on a separate sheet) Title (Mr, Ms, Dr, Mrs, etc) Family Name Former Family Name (if applicable) Given Names Address State..... Postcode Country Phone Hm () Wk () Fax () Email Date of Birth Country of Birth Gender M F (circle) Graduate of Adelaide University YES NO Signature Date Please send this form REPLY PAID TO: Alumni & Community Relations Office Adelaide University Reply Paid 498 Adelaide SA 5001, AUSTRALIA		
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Highway project a model for students

GEOLOGY & Geophysics is the proud new owner of a 3-D physical model of the recently opened Adelaide-Crafers Highway.

The visiographic engineering model was presented to the Head of the Geology & Geophysics Department, Professor Stewart Greenhalgh, by Transport SA Senior Project Manager, Mr Luigi Rossi.

"We are particularly pleased that Transport SA has presented the model to Adelaide University for the benefit of its students and visitors," Professor Greenhalgh said.

"The late Chancellor, Bruce Webb, who had a passion for geology, first saw the model while it was displayed at the visitor information centre set up on the construction site near the tunnels.

"It was his idea that the model could continue to play a useful role after the highway opened by providing valuable assistance for students in the Department."

The highway project, especially the tunnels, encountered complex geotechnical conditions related to rock jointing, weathering and faulting, which required extensive site investigations work.

Work began on transforming a 10km section of the South Eastern Freeway (Mount Barker Road) in 1995, and was finished in March this year. The \$151m Adelaide-Crafers Highway Project was fully federally funded. The upgrade included a short twin-tube tunnel beneath Eagle on the Hill, and shortened the length of the section by 2.1km.

The model will be used to stimulate further geological studies in the Adelaide Hills by Students of Associate Professors Vic Gostin and Pat James.

"This model will be a momento to the University to not only remind people of the project, but to help current and future students with their understanding of the geology that was involved



with a project of this magnitude," Mr Rossi said.

"We are certainly more than happy to work with Adelaide University in regard to this and any other future projects, because in the long run everyone will benefit from such an association."

The model and accompanying geological long section is housed in the Earth Science Resources Centre off the Tate Museum, within the Mawson Building.

—Tara McElhinney

Above: Construction of the tunnels for the Adelaide-Crafers Highway. Photo: Brenton Edwards.

Right: Head of the Geology & Geophysics Department, Professor Stewart Greenhalgh (right) and Transport SA Senior Project Manager, Mr Luigi Rossi at the handover of the Adelaide-Crafers Highway model. Photo: Ben Osborne.



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Retro readings are not to be mythed

TO CELEBRATE its 20th birthday, the youth theatre company urbanMYTH is presenting *retroREADINGS*—bringing its past performances back to life under the guidance of some of the most talented directors in the company's history.

Five of those directors are drama and dance graduates from Adelaide University: Chris Drummond, Anna Held, Michael Hill, Ingrid Voorendt and Sasha Zahra.

retroREADINGS acknowledges the creative talents of past members, writers, directors and staff who have all contributed to the success of this local theatre company.

Readings include some of urbanMYTH's best productions from the last decade. The selected scripts have been edited into 20-minute play readings presented back-to-back by the performers.

In all, 80 young performers will revisit the company's past glories over two days, split into two sessions each at Adelaide University's Little Theatre.

Thursday 13 July

3.30pm: *Sowing Seeds, Eat Me, Tutti Fruitti* and *Born to Shop*.

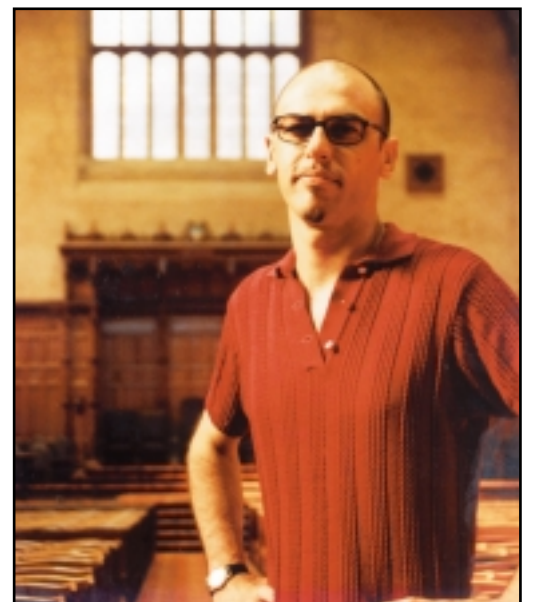
7.00pm: *Toxic Girls, Serendipity* and *Grunt*.

Friday 14 July

6.00pm: *Tutti Fruitti, Eat Me* and *Born to Shop*.

7.00pm: *Serendipity, Toxic Girls* and *Grunt*.

Tickets per session are \$5 adults and \$3 concession. Program enquiries and bookings through urbanMYTH on 8272 3036 (business hours) or at the door.



Chris Drummond. Photo: David Ellis.

ACCOMMODATION

FITZROY: Villa close to Nth Adel & the Aquatic Centre, 3 lge br, bright living rm, attic, 2 bathrm, garden. \$280 pw. Ph 8342 6170.

NAILSWORTH: Attractive fully furn character bungalow, 4 br with study, formal lounge, lge family areas, gardener, 4km from Uni, close to schools, shops & transport. Avail early July - Jan 01. \$350 pw. Ph Voula Lelos 0413 731 651.

OXFORD: Terrace house, 2 br, river views, 10 mins walk from centre, mod fully furn, avail 5 Dec 00 - 31 Jan 01. \$750 pm. Ph +44 1865 721

006 or email: <christopher.haigh@chch.ox.ac.uk>.

ST PETERS: Furn house, 3 br plus study, avail Aug - Nov incl, suit visiting academic. Ph 8362 4853 (after 10 July) or email <john.sved@adelaide.edu.au>.

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Unfurn \$220 pw. Ph Graham or Jenny 8266 3501.

FOR SALE

BED: Double ensemble, Sleep Haven "Queen Adelaide", as new, accessories. \$300 neg. Ph Evan 8303 6738 or 8271 3184 (h).

CAMERA: Canon SLR, 70 zoom. Ph Denis 8267 1898 (late evenings).

HOUSE: Athelstone (Wicks Est). Lge, light-filled home, 3 br, study, form lounge-dine., kitchen with w-in pantry adj

lge family/ informal eating area, easy care garden, close to Linear Pk, bus to city via O'Bahn, close to shops & school. \$195,000. Ph Helen 8303 4142 or 8365 4783 (ah) or email: <helen.alm@adelaide.edu.au>.

HOUSEHOLD ITEMS: Lounge suite, 1 x 3 seater & 2 x 1 seat, black leather look, exc cond, \$500 neg. Matching dining suite, black table & 6 b&w chairs, exc cond, \$350 neg. Double bed ensemble, \$60 & single ensemble, \$25. 2 x Dress-making models, \$100

ea. Ph Sally 8271 1182 (ah) or Sam 8303 5832 (w).

MACINTOSH: Power Book 180, 8 MB RAM, 250 MB HD, black & white screen, security cable. \$300. Ph 8373 6451 or 8303 4040.

MOVING SALE: TV, VCR, computer, microwave, fax machine, sewing machine, bike, rug and more. Ph 8338 4152.

NISSAN GAZELLE: 1985 metallic blue, very good cond, reliable & recently reconditioned, air cond, tinted windows, alarm. UMYV 402. \$5,500 ono. Ph Nick 8303 4165 or 8356 7163 or email: <nicholas.buchdahl@adelaide.edu.au>.

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VIOLINS: 1/2 size violin, modern high quality Chinese, ideal for serious young student, \$550. 1/10 size violin, Skylark, fine for child learner, \$85. Ph 8362 1227.

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PC'S: Pentium 150 and 133 with 15" View Sonic monitors avail from \$300. Ph David Bowler 8303 4706 or email <david.bowler@adelaide.edu.au>.

Bulletin Board

JULY 3, 2000

ADELAIDE UNIVERSITY

PAGE 1

Council Update

Council met on 26 June with a purposefully small agenda. The Deputy Chancellor, Mr Brian Croser, was again in the Chair because the new Chancellor, Mr Robert Champion de Crespigny, had a prior commitment at the time of accepting the office of Chancellor. Council had a very helpful discussion about fundraising, and many constructive suggestions were received which will help give shape to the University's proposed fundraising campaign.

SUSAN GRAEBNER
Council Secretary

Travel and learn

Learn Italian in Italy

Departing 1 September, flying Singapore Airlines, returning Wednesday 4 October 2000 - Includes 4 weeks tuition at Perugia's University for Foreigners Language School, 4 weeks accommodation, country taxes, and travel insurance. Flexible return dates from most European cities \$3,840 - Be quick

Learn German in Berlin

Departing Friday 5 January 2001, returning Tuesday 6 February - Includes 4 weeks tuition at Prolog Language School in Berlin, 4 weeks accommodation, country taxes, and travel insurance. \$3980.00

Information evening - Wednesday 2 August 6.00pm. For more information call Susan Boehm at Professional & Continuing Education on 8303 5236 or email <susan.boehm@adelaide.edu.au>.

Counselling Centre: Information for Staff

COUNSELLORS

Counsellors of the Adelaide University Counselling Centre are registered psychologists or accredited social workers with a minimum of 8 years clinical experience. The University has in place professional accountability mechanisms based on recommendations from the Codes of Ethics of the Australian Psychological Association and the Australian Association of Social Workers.

SERVICES

The counsellor's core business is to assist students to maximise their academic potential by addressing personal problems that are detrimental to their ability to succeed at University. The Counselling Centre provides:

- individual counselling
- telephone counselling
- crisis counselling
- a drop in service
- psychometric testing
- recommendations for assessment (special arrangements for exams, supplementary exams, extensions, etc)
- debriefing following traumatic incidents (CID)
- consultation for academic staff regarding student matters
- workshops

APPOINTMENTS

Appointments are usually scheduled for an hour and must be booked in advance. Alternatively students can use the daily drop in service from 1.00 and 2.30pm; no appointments are required and counsellors are available for brief

sessions of approx 20 min. In emergencies counsellors will be available.

REFERRALS

Staff can make referrals in a variety of ways:

- encouraging the student to make an appointment or use the drop in service
- telephoning reception on behalf of the student
- talking with a counsellor to negotiate appropriate counselling support

RECOMMENDATIONS TO ACADEMIC STAFF

Counsellors make recommendations to academic staff regarding student assessment. Supporting documentation is only provided when it is clear that a student would be disadvantaged by exceptional circumstances beyond their control. It is not provided for students requesting concessions as a result of motivational difficulties, subject overload, etc. The counsellors have strict guidelines regarding these recommendations and ensure that the needs of the University as a whole are balanced with those of the individual student. The final decision regarding special consideration remains the responsibility of the academic staff.

LEARNING DIFFICULTIES

The Counselling Centre carries out psychometric testing for specific learning difficulties. Following testing counsellors may make recommendations regarding concessions for exams (extra time, supervised breaks, etc) and alternative forms of assessment.

CONSULTATIONS

Counsellors provide individual or group consultation to academic and general staff in relation to students with personal problems.

STUDENT WORKSHOPS

Workshops are run on topics such as:

- stress management
- procrastination
- relaxation
- exam stress
- sleep difficulties
- confident presentations
- relationships
- surviving a PhD

Details from the Counselling Centre web site at: <http://www.adelaide.edu.au/counselling_centre>.

CRITICAL INCIDENT DEBRIEFING

In the event of a traumatic incident involving a member of the University community, the Counselling Centre is equipped to provide the appropriate response. Mechanisms are in place to liaise with other units both within and outside the University where necessary.

CONFIDENTIALITY

The Centre provides a confidential service. Disclosure of information without consent will only occur if there is a serious risk to an individual's safety or a legal requirement to do so. Students can be reassured that staff outside the Counselling Centre do not have access to the names of students attending nor any other details.

Counselling Centre, Ground Floor, Horace Lamb Building, ext 35663.

RHODES SCHOLARSHIP FOR 2001

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 2000.

Intending candidates should contact the Hon-orary Secretary for application forms and further information as soon as is possible. General information about the Rhodes Scholarships with particular reference to applicants from South Australia is available at: <www.adelaide.edu.au/Graduate_Studies/scholarships/rhodes>.

Applications, 2000 for 2001, close with the Honorary Secretary of the Selection Committee for South Australia at **5.00pm on Friday 1 September 2000**. The Honorary Secretary can be contacted at: c/- Education Adelaide, 2nd Floor, 157 Grenfell Street, Adelaide (PO Box 3064 Rundle Mall, Adelaide SA 5000), tel: (08) 8232 8722, fax: (08) 8232 8737, email: <geoffrey.sauer@adelaide.edu.au>.

GEOFFREY SAUER
Honorary Secretary

National Symposium

The Department of Medicine at the Queen Elizabeth Hospital is currently organising a 2-day national symposium titled **New Directions in Asthma and Zinc Research to be held at the Queen Elizabeth Hospital on Friday 8 and Saturday 9 September 2000**. The program consists of two international plenary speakers and a number of well recognised Australian speakers.

Could all interested parties please register and if desired, submit an abstract for the poster sessions as soon as possible, as places are quickly filling. For details on abstract and poster specifications contact Ai Troung-Tran, tel: 8222 7347 or email: <ai.truong-tran@student.adelaide.edu.au>.

Symposium program and registration forms can be obtained from the QEHS 2000 Symposium web page at: <<http://www.nwahs.sa.gov.au/research/september%20conference.htm>>.

COMING EVENTS

July 3rd — July 13th

MONDAY 3 JULY

1.00pm Microbiology & Immunology Seminar: HLA and disease associations by Dr K Pile (Rheumatology, TQEH). Library, 5th Floor, Medical School South.

4.10pm Centre for Applied Modelling in Water Engineering Seminar: Balancing infrastructure costs with public health in water distribution system design by Dr C Hewitson (Arup Stokes). N132, Engineering Nth Bldg.

TUESDAY 4 JULY

9.00am Network for Research in Women's History Seminar: Gender in the Contact Zone by various speakers. Florence Batchelor Room, Education Building.

12noon Child Health Research Institute Seminar: Lineage Specific Differentiation of Embryonic Stem (ES) Cells: Implications for Novel Cell Therapies by Prof P Rathjen (Biochemistry). Seminar Room, 7th Floor, Rieger Building, WCH.

WEDNESDAY 5 JULY

1.00pm Genetics Seminar: Title to be announced by Dr Sharad Kumar. Seminar Room, Ground Floor, Fisher Building.

1.30pm TQEH CDRC Seminar: Future of Research at NWAHS Update by Professor Guy Maddern (Director of Research, CDRC). Maternity Lecture Theatre, 1st Floor, Maternity Building, TQEH.

MONDAY 10 JULY

1.00pm Microbiology & Immunology Seminar: The genetic basis of complex disease by Dr Charles Mulligan (RAH). Library, 5th Floor, Medical School South.

TUESDAY 11 JULY

9.30am NCPGG/Geology & Geophysics Talk: The Evolving Global Energy Mix: Impacts for Australia in the 21st Century by Dr P McCabe. Rudd Lecture Theatre, Mawson Labs. Coffee from 9am.

5.00pm North Terrace Neuroscience Discussion Group: Half a Century of Neuroscience at Adelaide University by Dr D Kerr (Honorary Visiting Research Fellow). Seminar Room, 6th Floor, Medical School Nth

WEDNESDAY 12 JULY

1.00pm TQEH CDRC Seminar: The role of oestrogens in intestinal calcium absorption by Prof P. O'Loughlin. Maternity Lec Theatre, 1st Flr, Maternity Bldg, TQEH.

1.00pm Genetics PhD Updates: Scott Spargo & Melanie Attard. Seminar Room, Ground Floor, Fisher Building.

THURSDAY 13 JULY

7.45pm Field Geology Club of SA Lecture: Rehabilitation of acid mine waste by Dr Reg Taylor. Mawson Lecture Theatre.

SITUATIONS VACANT

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

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

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

ASSISTANT PAYROLL/LEAVE ADMINISTRATOR

(Ref: 7485) (Continuing)

Human Resources

Salary: HEO6 \$39,402 - \$42,664

This continuing position is available immediately. Further information including the duty statement and selection criteria may be obtained from Miss Karen Jenkins, tel: 8303 6262 or email: <karen.jenkins@adelaide.edu.au>. Applications close 10 July 2000.

ADMINISTRATIVE ASSISTANT

(Ref: 8911) (Part-time)

Department of Physics and Mathematical Physics

Full-time salary: HEO2\$18,071 - \$27,445*

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

This continuing position is available immediately on a 22.05 hours per week basis. Further information including duty statement and selection criteria may be obtained from Carmel Palumbo, Department of Physics and Mathematical Physics, tel: 8303 5314 or email: <carmel.palumbo@adelaide.edu.au>. Applications close 28 July 2000.

*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.

FUNDRAISING COORDINATOR

(Ref: 10441) (Fixed-term)

Office of the Pro Vice-Chancellor (Internationalisation and Development)

This fixed-term position is available immediately until 18 July 2002. Further information including the duty statement and

selection criteria may be obtained from Dr Norman Ashton, tel: 8303 6340 or email: <norman.ashton@adelaide.edu.au>. Applications close 17 July 2000.

PROJECT OFFICER

(Ref: 10442) (Fixed-term)

Office of the Pro Vice-Chancellor (Internationalisation and Development)

Salary: HEO6 \$39,402 - \$42,664

This fixed-term position is available immediately until 18 July 2002. Further information including the duty statement and selection criteria may be obtained from Dr Norman Ashton, tel: 8303 6340 or email: <norman.ashton@adelaide.edu.au>. Applications close 17 July 2000.

PROJECT OFFICER

(Ref: 10134) (Continuing)

Office of the Vice-Chancellor

Salary: HEO5 \$35,191 - \$39,268

This continuing position is available from 1 August. Further information including the duty statement and selection criteria may be obtained from Rosalyn Chardon, tel: 8303 5780, fax: 8303 4407 or email: <rosalyn.chardon@adelaide.edu.au>. Applications close 10 July 2000.

COMPUTING OFFICER

(Ref: 10443) (Continuing)

Department of Computer Science

Salary: HEO5/6 \$32,337 - \$42,664

This continuing position is available immediately. Further information including the duty statement and selection criteria may be obtained from Tracey Young, tel: 8303 5681, fax: 8303 4366, or email: <vacancies@cs.adelaide.edu.au>. Applications close 7 July 2000.

POSTDOCTORAL FELLOWS (six positions)

(Refs: 10428/10429/10430/10431/10432/10433) (Fixed-term)

Centre for the Molecular Genetics of Development

Salary: \$34,475 - \$46,786

(Ref: 10428) This fixed-term position is available from 1 July 2000 for 3 years. Further information including the selection criteria may be obtained from Dr Michael Lardelli, tel: 8303 3212 or email: <michael.lardelli@adelaide.edu.au>.

(Ref: 10429) This fixed-term position is available from 1 July 2000 for 3 years. For further information may be obtained from Dr Simon Koblar, tel: 8303 4336 or email: <simon.koblar@adelaide.edu.au>.

(Ref: 10430) This fixed-term position is available from 1 July 2000 initially for 2 years with the possibility to extend and develop

independent projects. Further information may be obtained from Dr Stephen Wood, tel: 8303 4551 or email: <stephen.wood@adelaide.edu.au>.

(Ref: 10431) This fixed-term position is available from 1 July 2000 for 3 years. Further information including the selection criteria may be obtained from Dr Stephen Dalton, tel: 8303 3793 or email: <stephen.dalton@adelaide.edu.au>.

(Ref: 10432/10433) These fixed-term positions are available from 1 July 2000 for 3 years. For further information including the selection criteria may be obtained from Professor Robert Saint, tel: 8303 4043 or email: <robert.saint@adelaide.edu.au>.

Applications close 17 August 2000.

RESEARCH OFFICER/ RESEARCH ASSISTANT (NH&MRC)

(Ref: 2024) (Fixed-term)

Department of Pathology

Salary: \$34,475- \$46,786 (starting salary with Ph.D is a minimum of \$43,584)

The position is funded by a NH&MRC project grant and is available immediately until 31 December 2000 in the first instance, with a possibility of renewal for a further 12 months. Further information may be obtained from Dr Mark Gibson, tel: 8303 5337 fax: 8303 4408 or email: <mark.gibson@adelaide.edu.au>. Applications close 21 July 2000.

TECHNICAL ASSISTANT

(Ref: 10437) (Fixed-term)

Centre for the Molecular Genetics of Development

Salary: HEO4 \$31,252 - \$34,376

This fixed-term position is available from 14 August 2000 for a period of three years. Further information may be obtained from Professor Robert Saint, tel: 8303 4043, or email: <robert.saint@adelaide.edu.au>. Applications close 24 July 2000.

PURCHASING OFFICER

(Ref: 9757) (Continuing)

Department of Physiology

Salary: HEO4 \$31,252 - \$34,376

This continuing position is available from 1 July 2000. Further information may be obtained from Mr Dan McHolm, Acting Departmental Manager, tel: 8303 4732 or email: <dan.mcholm@adelaide.edu.au>. Applications close 7 July 2000.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 17 July 2000, advertising paper work must be received in Human Resources by 30 June 2000.

For the *Adelaidean* of 31 July 2000, advertising paper work must be received in Human Resources by 14 July 2000.

GENERAL NOTICES

Senate postal address list

In line with the Standing Orders of the Senate of Adelaide University, the University is currently revising the Senate Postal Address List.

The Senate is comprised of:

- all Adelaide University graduates;
- all full-time University staff members who are graduates of this or equivalent Universities; and
- all postgraduate students.

All members of the Senate are entitled to attend meetings of the Senate, which are usually held once a year, and to vote in elections for three members of University Council and for officers of the Senate. Relevant material is sent automatically only to those members who have asked that their names be placed on the Postal Address List.

If you qualify as a member of the Senate and wish to be added to the Postal Address List, contact Zane Whitehorn, 8303 3408.

SUSAN GRAEBNER
Clerk of the Senate

Academic staff promotions

Following numerous requests from staff it is timely to provide a report on the current status of the 1999/2000 academic staff promotion round. The current situation is as follows:

Level B/C

Health Sciences: reports outstanding

Humanities & Social Sciences: reports outstanding

PALACE: reports outstanding

Science: almost complete

Agricultural & Natural Resource Sciences: almost complete

Engineering, Computer & Math. Sciences: reports outstanding

Level D

Reports outstanding for all Faculties.

Level E

Reports outstanding & assessors being identified for all Faculties.

The participation of heads of department, referees and assessors, and the two-stage nature for the consideration of applications by a discipline sub-panel and then by the University Promotions Committee, determines the timeframe of the process.

Human Resources has experienced some difficulty in gathering the reports necessary for the consideration of applications, particularly those referee and assessor reports from international sources.

For further detailed information contact Jacqui Stockley on 35087.

STEVE DAYSH
General Manager, Human Resources

University Teaching Development Grants 2000

The aim of the University Teaching Development Grant is to promote the enhancement of learning and teaching at the University of Adelaide.

Applications are invited for the 2000 round of the University of Adelaide Teaching Development Grants. The Grants are intended to promote good learning and teaching practices; to encourage and foster innovation in higher education teaching; and to provide staff development opportunities at the University of Adelaide.

A total of \$150,000 will generally be available and is to be used by the successful individual(s), team, department or centre to effect practical improvements in learning and teaching. Individual grants are likely to fall within the range of \$10,000 to \$50,000 according to the scale and nature of the projects funded.

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

Eligibility for the University Teaching Development Grants:

- All full-time and part-time members of academic staff (including clinical, affiliate and adjunct titleholders) in a teaching position at the University of Adelaide are eligible. Members of academic staff on contract should have at least one year of service remaining of their contract period and demonstrate that the objectives of the proposal are deliverable within the time available.
- Teaching groups which include full-time and part-time members of the academic staff which may include members of the general staff are eligible.
- All teaching faculties, departments, centres and interdisciplinary groups in the University of Adelaide are eligible.

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

Applications are now sought for and application forms can be obtained from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, ext 35511, fax: 34873, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's web-site: <http://www.adelaide.edu.au/DV/C/quality/teaching_development_1&t_grants.html>. Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by **Friday 4 August 2000**.

Accommodation for new international students

The University has over 200 new international students seeking accommodation during July.

The International Student Centre offers accommodation assistance to all international students. We are seeking offers of rental (fully furnished preferred), shared and homestay accommodation.

If you can help, please contact: Melanie Baird, International Student Accommodation Officer, International Student Centre, Ground Floor, Old Classics Wing, tel: 8303 4953 or email: <melanie.baird@adelaide.edu.au>.

University mouse mats

The Media, Marketing & Publications Unit has commissioned some mouse mats bearing the Adelaide University logo. They are available for purchase at \$5 each. Departments interested in purchasing mouse mats for gifts or promotional purposes should contact Pue San Ng, 8303 6479 or email: <puesan.ng@adelaide.edu.au>.

Changes to Facilities Booking System

The Facilities Bookings System has been expanded to include all events taking place at the University's North Terrace Campus. The purpose of this initiative is to ensure that:

1. Appropriate approvals are obtained and the facility for the event is formally booked.
2. Other members of the University community that need to know, are informed of the event.
3. The facility is provided with the agreed needs eg. Power, Security, Car Parking, Cleaning etc.

To cater for this arrangement the Facilities Bookings Office now comprises of two positions:

- Room Bookings (John Keefe)
- Event Bookings (Megan Costello)

Typical events that have been held at North Terrace include Public Debates, Wedding Photography, Departmental barbeques, Banners on fences/buildings, Union Cloisters events, Credit Union Christmas Pageant, ie bookings outside the common academic room bookings.

We would therefore request that anybody proposing an event to contact Megan Costello on 8303 5151.

Women's Professional Development Network (WPDN)

The WPDN is a development initiative for all women general staff of Adelaide University. It focuses on issues affecting the professional and personal development needs of women general staff. The WPDN runs a variety of activities including breakfasts, lunchtime speakers and workshops. For more information, visit our web site at: <<http://www.adelaide.edu.au/wpdn>> or contact Sam Jacob <sam.jacob@adelaide.edu.au>, ext 34201, or Danielle Hopkins <danielle.hopkins@adelaide.edu.au>, ext 33937.



Dental treatment for University staff and students

The Colgate Australian Clinical Dental Research Centre (CACDRC) is a state-of-the-art clinical research facility located in the Adelaide Dental Hospital building (adjacent to the Royal Adelaide Hospital) and is a unit of Adelaide University and the Dental School.

Emergency dental treatment and routine dental care is available. All patient treatment is carried out by qualified staff. Competitive rates and EFTPOS facilities are available. Concessions are also available for holders of University cards. Convenient public transport access is available.

For further information or to make an appointment for treatment, please contact Freya on 8303 3437.

Competitive Rates...Convenient Access

Workshop for staff new to Postgraduate Supervision

In conjunction with the Board of Graduate Studies and the PGSA, the ACUE is hosting a one-day workshop for staff new to postgraduate supervision.

The workshop is being presented by a range of experienced supervisors drawn from several Faculties on Thursday 20 July 2000, from 9.00am - 3.30pm.

AIMS

To provide staff new to supervision with:

- an opportunity to understand some of the main issues related to effective supervision;
- examples of good practice.

Staff members who are required to complete Teaching at University for tenure or promotion purposes can claim exemption from some parts of that course by attending the workshop. Contact Christine Ingleton 8303 4721 to discuss possible exemption.

For copies of the program and enrolments contact Meredith Ireland, 8303 5771 or email: <meredith.ireland@adelaide.edu.au>.

For more information regarding the workshop contact Margaret Kiley, 8303 3130 or email: <margaret.kiley@adelaide.edu.au>.

ACUE Workshops

Are you interested in exploring the connection between teaching and research? Then the following workshops with Professor Charles Glassick, will be of interest. The Workshops will be held on **Friday 14 July 2000 in Union Cinema. Cost: 1 workshop \$20 + lunch \$30. 2 workshops including lunch \$40.**

Workshop 1: 10.00am - 12.30pm: Scholarship Reconsidered and Assessed: Recent Trends and Progress.

Workshop 2: Re-inventing Undergraduate Education

Registration details are available from the ACUE, 8303 5771.

Professional & Continuing Education Courses

Professional and Continuing Education is presenting the following professional development courses. The cost for Adelaide University staff for these one-day programs is \$208.

Strategic Thinking and Planning: 03PD2001: Tuesday 25 July 2000.

Behavioural Interviewing for Staff Selection: 03PD2002: Thursday 27 July 2000.

Project Management: 03PD2006: Monday 31 July 2000.

Enquiries/enrolments: Nadia Tarasenko on 8303 4777.



Barr Smith Library tours

Join a free 30 minute guided tour on the first Thursday of every month.

Ideal for students, staff or alumni unfamiliar with the layout, collections, resources and services of the Barr Smith Library.

RSVP to Jennifer Osborn (Reference Services). Max of 12 per group. Tel: 8303 3706 Email: <jennifer.osborn@adelaide.edu.au>.

Missed the deadline?

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

Visual Identity Web Site

Information regarding the new University Visual Identity can be obtained from: <<http://www.adelaide.edu.au/pr/vi/>>.

This section focusses on the University's logo. The site will be regularly expanded as further templates and protocols are finalised.

JOHN EDGE
Manager, Media, Marketing & Publications

Matching Funds for Information Technology Development 2000

The aim of the University Matching Funds for Information Technology Development is to encourage the development and use of student-centred and flexible learning through information technology at the University of Adelaide. (Learn-ing and Teaching Plan 2000-2002)

Applications are invited for the 2000 round of the Adelaide University Matching Funds for Information Technology Development. The Matching Funds for Information Technology Development are intended to encourage the development and use of student-centred and flexible learning and the introduction of innovative modes of teaching through information technology and telecommunications at the Adelaide University.

A total of \$200,000 will generally be available and is to be used by the successful individual(s), team, department or centre to effect practical improvements in learning and teaching by developing information technology facilities, online programs, modules and curriculum materials at the University. The Matching Funds for Information Technology Development will vary in size according to the scale and nature of the projects funded. Funds will be provided for small and medium scale initiatives on a matching funds basis. The matching component may be contributed either on a cash or an in-kind basis.

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

Eligibility for the Matching Funds for Information Technology Development:

- All full-time and part-time members of academic staff in a teaching position at the University are eligible;
- Teaching groups which include full-time and part-time members of the academic staff which may include members of the general staff are eligible; and
- All teaching faculties, departments, centres and interdisciplinary groups in the University of Adelaide are eligible.

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

Applications are now sought for the 2000 Adelaide University Matching Funds for Information Technology Development. Guidelines and application forms from Marie Reitano, Office of the Deputy Vice-Chancellor (Education), Room G04, Mitchell Building, tel: 35511, fax: 34873, email: <marie.reitano@adelaide.edu.au> or downloaded from the Deputy Vice-Chancellor's web-site: <http://www.adelaide.edu.au/DVC/quality/matching_funds_it_development.html>. Nominations must reach the Office of the Deputy Vice-Chancellor (Education) by **Friday 7 July 2000**.

RESEARCH GRANTS AND SCHOLARSHIPS

AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellow-ship 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 the funding schemes listed below, contact the Research Branch, ext 35137; or email <renae.minerds@adelaide.edu.au>.

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

Wellcome Trust - Various Fellowships, Grants and Travel Awards: Applications can be submitted at any time. See the Research Branch Web site 'Update' or visit the Wellcome Trust web site <<http://www.wellcome.ac.uk/>> for further details.

Alexander von Humboldt Foundation - Max Planck Research Awards for International Cooperation: Applications may be made at any time. Web site: <http://www.avh.de/en/programme/stip_aus/stp_01.htm>

Department of Foreign Affairs and Trade - Australia Indonesia Institute - Project Funding: Internal closing date: 22 September 2000. Web site: <<http://www.dfat.gov.au/aai>>.

Partnership Projects, Industry Placement Awards, & Regional and Special Projects: Internal closing date: Applications may be submitted at any time. Web site: <<http://www.dpie.gov.au/prdc>>.

Perpetual Charitable Planning Services - Clive and Vera Ramaciotti Foundations: General Grants/Medal for Excellence/Travel Grants for Biomedical Research: Internal closing date: 23 June 2000 / 22 September 2000 (Travel Grants). Web site: <<http://www.perpetual.com.au>>.

Pig Research and Development Corporation (PRDC): Training and Development Awards: Internal closing dates: 23 June & 22 September 2000. Web site: <http://www.prdc.com.au/travel_conference_and_distinguished_visitor_awards.htm>.

Ian Clunies Ross Memorial Foundation - Clunies Ross National Science & Technology Award 2001: Internal closing date: 7 July 2000. Web site: <<http://www.cluniesross.org.au/Award/htm>>.

Association of Commonwealth Universities - T.H.B Symons Fellowship: Internal closing date: 17 July 2000. Web site: <<http://www.acu.ac.uk>>.

Matsumae International Foundation - Matsumae International Foundation Fellowship Program: Internal closing date: 17 July 2000.

Rhodes University - Hugh Kelly Fellowship: Internal closing date: 17 July 2000. Web site: <<http://www.rhodes.ac.za/research/fellowships/fellowships1/htm>>.

Rhodes University - Hugh Le May Fellowship: Internal closing date: 17 July 2000. Web site: <<http://www.rhodes.ac.za/research/fellowships/fellowships1/htm>>.

Rhodes University - Post-Doctoral Fellowships: Internal closing date: 17 July 2000. Web site: <<http://www.rhodes.ac.za/research/fellowships/fellowships1.html>>.

Australian Housing and Urban Research Institute: Indigenous Housing Research Project Funding: Internal closing date: 21 July 2000.

National Health and Medical Research Council Awards for 2000: NHMRC Travelling Award for Research Training: NHMRC Training Award Fellowships: Internal closing date: 21 July 2000. Web site: <<http://www.nhmrc.health.gov.au>>.

Retina Australia - Research Grants: Internal closing date: 21 July 2000

BHP - Community Trust and Community Support Programs: Internal closing dates: 22 July & 25 October 2000. Web site: <<http://www.bhp.com.au/community/trust.htm>>.

Australian Academy of the Social Sciences in Australia - Australia/China Exchange in the Social Sciences: Internal closing date: 23 July 2000.

Alzheimers Australia Research Foundation: 2000 Dementia Research Grants: Internal closing date: 24 July 2000.

APEX Foundation for Research into Intellectual Disability Limited - Research Grants: Internal closing date: 24 July 2000.

APEX Foundation Trust for Autism Grant: Internal closing date: 24 July 2000.

Australian Academy of the Humanities: Publication Subsidies: Internal closing date: 24 July 2000. Web site: <<http://www.asap.unimelb.edu.au/aah>>.

Australian Academy of the Humanities/Academy of Social Sciences in Australia/Vietnam National Centre for the Social Sciences and Humanities - Overseas Program - Vietnam: Internal closing date: 24 July 2000. Web site: <<http://www.asap.unimelb.edu.au/aah>>.

Australian Academy of Science - Fenner Medal: Internal closing date: 24 July 2000. Web site: <<http://www.science.org.au/awards/femmed.htm>>.

Australian Academy of Science - Frederick White Prize: Internal closing date: 24 July 2000. Web site: <<http://www.science.org.au/awards/fwhite.htm>>.

Australian Academy of Science - Gottschalk Medal: Internal closing date: 24 July 2000. Web site: <<http://www.science.org.au/awards/gottscha.htm>>.

Australian Academy of Science - Moran Medal: Internal closing date: 24 July 2000. Web site: <<http://www.science.org.au/awards/moran.htm>>.

Australian Academy of Science - Pawsey Medal: Internal closing date: 24 July 2000. Web site: <<http://www.science.org.au/awards/pawsey/htm>>.

Australian Federation of University Women - Qld Freda Bage Fellowship: Internal closing date: 24 July 2000. Web site: <<http://www.academicdress.com.au/afuwffi/index>>.

JH & JD Gunn Medical Research Foundation - Research Grants: Internal closing date: 24 July 2000.

Reg Waite Award for Young Australian Achievers: Internal closing date: 24 July 2000.

Royal Society of London / The Australian National University / The National Health and Medical Research Council - Howard Florey Fellowships in Biomedical Sciences: Internal closing date: 24 July 2000.

Australian Academy of the Humanities/Royal Netherlands Academy of Arts and Sciences/Academy of the Social Sciences in Australia -

Overseas Program - The Netherlands: Internal closing Date: 8 August 2000. Web site: <<http://www.asap.unimelb.edu.au/aah>>.

Australian Rotary Health Research Fund - Mental Illness Research Grants & First Aid, Pre-Hospital Treatment and Emergency Care Research & Ian Scott Fellowship: Internal closing date: 8 August 2000. Web site: <<http://www.rotarnet.com.au/arhrf>>.

French Embassy - French Government Scientific Fellowships 2001: Internal closing date: 8 August 2000. Web site: <http://www.france.net.au/site/science_culture/scient/bourse_bourl188.htm>.

Motor Neurone Disease Research Institute of Australia Incorporated - Grant-in-Aid for Research: Internal closing date: 18 August 2000.

Australian Academy of Science - Selby Fellowship: Internal closing date: 21 August 2000. Web site: <<http://www.science.org.au/awards/selby.htm>>.

The Asia Link Centre - The Sir Edward Weary Dunlop Asia Fellowships: Internal closing date: 24 August 2000. Web site: <<http://www.asialink.unimelb.edu.au/public/dunlopfellow.html>>.

Radiological Society of North America - Research and Education Foundation - Seed Grants: Internal closing dates: 1 September 2000. Web site: <<http://www.rsna.org>>.

University of Cambridge in association with Wolfson College at Cambridge University - Smuts Visiting Fellowship in Commonwealth Studies 2001-2002: Internal closing date: 1 September 2000. Web site: <<http://www.cam.ac.uk>>.

Perpetual Trustees - Grants: Internal closing date: 15 September 2000.

Australian Academy of the Humanities - Overseas Program with the Former Soviet Union: Internal closing date: 22 September 2000.

Canadian High Commission: Canada-Asia-Pacific Award in Canadian Studies (CAPA): Faculty Research Program (FRP); Faculty Enrichment Program (FEP): Internal closing date: 22 September 2000

International Council for Canadian Studies - Program for International Research Linkages: Canadian Studies Academic Internship Program: Internal closing date: 8 November 2000. Web site: <<http://www.powerup.com.au/~acsanz/>>.

Dried Fruits Research and Development Council - Research and Development Projects: Internal closing date: 23 September 2000. Web site: <<http://mildura.ozland.net.au/dfrdc>>.

Grains Research and Development Corporation (GRDC) - Travel/Conference Attendance 2000/2001: Internal closing date: 23 September 2000. Web site: <http://www.grdc.com.au>

The Commonwealth Fund-Harkness Fellowships in Health Care Policy: Internal closing date: 25 September 2000. Web site: <<http://www.cmf.org>>.

University of Calgary - Postdoctoral Fellowships 2001-2002: Internal closing date: 23 October 2000. Web site: <<http://www.ucalgary.ca/UofC/Others/CIH/CIHApplication.html>>.

Australian Academy of Science - Scientific visits to the United States of America, Canada and Mexico: Internal closing date: 25 October 2000. Web site: <<http://www.science.org.au/internat/exchange/usavis.htm>>.

Scholarships

Unless otherwise indicated, further information and application forms are available from the Student Centre, Level 4, Wills Building. Please lodge all applications with the Student Centre unless otherwise stated.

Canadian Studies Awards: ACSANZ Postgraduate Awards: Up to \$A2,800 for Masters or Doctoral candidates engaged in research into Canadian studies to undertake research trips to Canada for up to six months. Closing: 30 September. ICCS Graduate Student Thesis/ Dissertation Scholarship: \$CAN3,500 for Masters or Doctoral candidates to undertake thesis-related research at a Canadian university for 4-6 weeks. Closing: 15 November. Further details from Canadian High Commission, Academic & Public Affairs Section, Commonwealth Avenue, Canberra ACT 2600, tel: (02) 6270 4000, fax: (02) 6270 4083, email: eva.zarka@dfait-maeci.gc.ca or visit the ACSANZ Web Site: <<http://www.powerup.com.au/~acsanz>>.

John Crampton Travelling Scholarship: Open to students of Architecture, Engineering, Fine Arts and/or Classical Antiquity to undertake study in Italy, Spain, Germany or Greece or any other country considered appropriate by the Scholarship trustee. Tenable for up to two years for a Masters degree and three years for a doctorate. Value: payment of compulsory university fees, an annual living allowance, annual travel allowance. Closing: 31 July (Student Centre).

National Health & Medical Research Scholarships: Applications are invited for Medical/Dental Postgraduate Scholarships, Dora Lush (Biomedical) Postgraduate Research Scholarships, Public Health Postgraduate Research Scholarships, Training Scholarships for Aboriginal Health. Closing: 4 August (Student Centre).

National Heart Foundation Postgraduate Research Scholarships 2000 (Non-medical): Open to Australian citizens or permanent residents for full-time postgraduate research studies leading to a PhD at an Australian university. Research should be concerned with cardiovascular function, disease or related problems. Closing: 25 October (non-medical) (Student Centre).

Sir Robert Menzies Scholarship in Law: Open to Australian citizens and tenable in the UK for two years commencing October 2001. Value: return airfare (including spouse and/or dependants), university fees, living allowance, travel costs within UK. Academic excellence is of primary importance. Closing: 25 August (Student Centre).

Swiss Government Scholarships: Three scholarships are available for art/music. Tenable for nine months. Open to Australian citizens with a sufficient knowledge of French or German. Value: SFr 1450 per month (undergraduate) and SFr 1650 per month (postgraduate and art students), university fees, medical insurance, travel from Switzerland to Australia. Closing: 18 September (Canberra)

Zonta International - Amelia Earheart Fellowship: Open to women of any nationality in an effort to encourage and support women to expand their horizons by pursuing aerospace-related sciences and aerospace-related engineering. Value: \$US6000. Applications and further details may be downloaded from www.Zonta.org Closing: 15 November (USA).