

'Vivid example' of Adelaide expertise on show

A RESEARCH TEAM of University of Adelaide engineers and industry partners has been chosen to design the fuel system of one of the most important symbols of the Sydney 2000 Olympics—the Olympic torch.

The team, comprising experts from the University's departments of Chemical and Mechanical Engineering and Adelaide-based firm Fuel & Combustion Technology (FCT) International, has been given the task of designing the all-important fuel, fuel delivery, burner and flame for the torch.

The Sydney 2000 Torch Relay is one of the most significant events in the lead up to the Olympic Games. More than 10,000 torches will be produced for the Relay, which begins 100 days prior to the opening ceremony.

The Adelaide research team must design a fuel delivery system, torch burner and flame which adhere to strict guidelines set out by the Sydney Organising Committee for the Olympic Games (SOCOG).

The torch for the Sydney 2000 Games must be:

- highly visible—a bright flame, reflecting the spirit of the Olympics, easily seen by crowds of onlookers and media cameras;
- able to keep burning brightly in a wide range of adverse weather conditions, including torrential rain, high winds, cross-winds and the turbulent wakes shed by support vehicles;
- safe—for the immediate surroundings of the flame, for the torchbearers, and for onlookers;

- environmentally friendly—with no smoke and a minimum of greenhouse gases and other emissions, high fuel efficiency, and possibly able to burn renewable fuels.

Problems with previous Olympic torches have been excessive smoke and fuel system failures.

The Adelaide research team must overcome all these challenges (and more) to design a torch burner that is reliable, safe, environmentally friendly, easy to manufacture and affordable within budget constraints.

Drawing together some of Australia's best expertise in fuel, combustion and aerodynamics technology, the team was awarded the contract following a national tender by SOCOG.

"We are very pleased to have been awarded this contract," said project team leader Dr Dong-ke Zhang.

"It gives the University of Adelaide the chance to show its expertise to the rest of Australia and to the world at the Sydney 2000 Olympics."

Dr Zhang said the contract to design the fuel system and torch burner was a major boost for the collaborative efforts between the departments of Chemical and Mechanical Engineering at the University and their long-time industry partner, FCT.

It is this same collaborative group that was responsible for designing the revolutionary Gyro-Therm burner, which has achieved major improvements in flame technology, efficiency and stability while also reducing emissions.

Key members of the group include: co-leader Dr Gus Nathan (Mechanical

Engineering), chief design adviser Professor Sam Luxton (Mechanical Engineering), fuel system designer Dr Keith King (Chemical Engineering), aerodynamics expert Dr Richard Kelso (Mechanical Engineering), engineering manager Mr David Retallack (FCT) and engineer Mr Steven Hill (FCT).

"We have a unique and strong collaborative team, and with support from both the University and industry we are convinced that we can produce the best torch of any Olympics so far," Dr Zhang said.

The challenge is to meet all of the design requirements set out by SOCOG. To do this, the research team has drawn upon a range of expertise and is undertaking intensive laboratory testing.

Aerodynamics testing—ensuring the stability and safety of the flame—has been conducted in two key research facilities: a water tunnel, which utilises coloured dyes to simulate the flame, and a wind tunnel, which helps researchers gauge the flame's response to strong winds from any direction.

A key focus of the research efforts is the fuel itself. The specific fuel (or fuels) chosen for the torch will largely determine the flame's visibility, safety and environmental impact.

All possible fuels, from gaseous to solid, have been looked at by the team.

"There are so many issues to be considered in a design such as this, which makes a collaborative research team vital for success," said Professor Luxton.



The Olympic relay torch for the Barcelona Olympics. Photo courtesy of Dr Dong-ke Zhang.

"Although it is a difficult task, we are thrilled to have been asked by SOCOG to take up the challenge.

"This contract provides a stimulus for research in an area which involves a very specific and high-profile application. The benefits to be gained from the project, both for the University and FCT, are enormous," he said.

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The University's radiation safety officer Dr Gerald Laurence, Agronomy & Farming Systems lab manager David Mathew and technical assistant Chris Hill with a simple yet effective device which has led to improved radiation safety for staff in the Department of Agronomy & Farming Systems. Story on Page 4. Photo: David Ellis

Getting babies to sleep 'on cue'

LACK OF SLEEP in children can be a factor in behaviour problems, poor academic performance and hyperactivity. For parents, research suggests that a lack of sleep may be associated with child abuse.

Dr Brian Symon, Senior Lecturer in General Practice at the University of Adelaide, has seen hundreds of sometimes desperate, but always fatigued parents, children and babies pass through his surgery doors.

Fortunately, Dr Symon has been able to help many of these families with his unique sleep advice.

Now one of the world's most prestigious publishers, Oxford University Press, has

published his advice in a book: *Silent Nights: Overcoming Sleep Problems in Babies and Children*.

Dr Symon's advice is unique because he believes good sleep habits can be developed in new-born children. Most other sleep techniques advise waiting until babies are at least six months old, but Dr Symon believes poor sleeping can be more difficult to treat at this age.

His method began when he was a young father. Dr Symon's wife Maryanne sagely ignored her GP husband's advice about infant sleeping and followed instead a process of "teaching" the children to sleep.

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Technology and Leadership

I suppose it was a smart alec thing to do, but when I was asked to join a panel on the topic of technology and leadership at the recent Commonwealth Universities Conference in Ottawa I guessed (correctly) that all the other panellists would address the question of how we use technology in universities with particular reference to technology and teaching. So I decided to take a different tack and pointed out that universities could be major leaders in introducing new technologies to their societies.

I started with the example of how the Australian universities introduced the Internet to Australia relatively early in its development. Building on the work of the universities' Computer Science Departments and their formation of ACS Net, the AVCC established AARNet with ARC funding. It was guided by a Board of Management which steered it through policy pitfalls and practical implementation problems and ensured its successful establishment. Its success was so great in fact, that there were requests from commercial and other public sector users to join, and in due course AARNet allowed more general access. The whole operation then became so large that the AVCC had to decide whether to commit itself to managing a large and financially complex business or get out. In the end it sold the commercial side of the business while retaining the network for itself, making a very healthy profit in the process. During the development phase of the AARNet project the Board of Management had put in place a policy framework which now forms the basis of the legislation regulating the Internet in Australia.

I went on to point out that at a local level, the University of Adelaide, through the cleverness of Professor Chris Barter in Computer Science, had seen that the growth of the Net represented a major commercial opportunity, and established Camtech. The company rapidly became one of the leading commercial Internet companies in Australia, and eventually its success became an issue for the University. We had to ask ourselves, "Is this our core business?" And so earlier this year we sold the Internet provision aspects of the operation and achieved a considerable return for the company—and the University.

This week we are celebrating the fact that in an announcement made on Wednesday, the Malaysian Government has accorded Camtech Multimedia Super Corridor status (Congratulations all!).

I also told the Commonwealth Vice-Chancellors that in a University such as Adelaide, there has been considerable leadership shown in the introduction of new biotechnology techniques leading to the rapid development of new varieties—in our case, barley and wheat. And we have also been enthusiastic in promoting technology transfer for maximum development and uptake. To me this is an important part of the University's role as a good corporate citizen. Perhaps it is a case of me accepting my own rhetoric, but I believe we should spend more time thinking about the University's responsibility to show public leadership.

MARY O'KANE

Unimpressed



In the last issue of the *Adelaidean* (Vol. 7.14), the front page was dominated by a story about a new scholarship scheme. Many members of the University will now have seen a flyer which presumably relates to these scholarships, and probably others. On the front, it trumpets figures on pubs, restaurants and cinemas (in themselves admirable things), and mentions the Adelaide Oval (sic). Inside the front cover it's

headed, 'Gimme a break' and goes on to advocate leisure pursuits using similar language. (It also suggested that one can get a degree in, '...a couple of years'. This is a rather loose use of the word 'couple').

One wonders whether the high achieving students and their parents will be impressed with this sort of hedonistic approach. Without I hope being puritanical, one might think not! Frankly it looks like a flyer for a tourist agency, not for a University which intends to be world class! Many of us in Economics have already decided to cut our losses and tear

off the purple cover, which leaves us with some reasonable and relevant information. We suggest others do likewise.

This is yet another example of 'dumbing-down'. In the long run, universities will regret this headlong rush to popularism; which can only destroy our main claim, which must be that we defend quality, standards and intelligence, often in the face of the majority. Crass publicity of this sort we do not need!

Dr John Hatch
Associate Dean
(Undergraduate Matters)
Economics

COMMENTARY

HUMAN RIGHTS AND THE INTERNET

This year marks the 50th anniversary of the Universal Declaration of Human Rights (UDHR) ratified by the United Nations General Assembly in San Francisco on 10 December 1948. To celebrate this event, the Australian Institute of International Affairs, South Australian Branch, convened Human Rights Week, 10-14 August 1998, mostly at the University of Adelaide.

One of the lunch-time lectures during Human Rights Week was on the theme of Human Rights and the Internet and sought to evaluate the role which the Internet has played in the advancement of Human Rights.

There is a very broad spectrum of views on the influence of the Internet on the Human Rights movement, from seeing it as a major force for the good, to seeing it as the epitome of an evil, subversive influence.

At one extreme, the Internet is a new, interactive communications medium which empowers humanity to participate in collective decision-making on a global scale and thus will no doubt herald a new era of international understanding and world peace. But then that is what was said about television, and the telephone before it.

At the other extreme, the Internet is a new source of propaganda and pornography which subverts human values and provides a vehicle for multi-national corporations to exercise thought-control over the masses and make them passive consumers. But then that was what was said about the paperback, and the printing press before it.

An evaluation of the role of the Internet with respect to Human Rights, then, needs to be more complex than either of these extreme and simplistic views. The history of the evolution of the Internet is helpful in this regard.

Before the INTERconnected NETWORK of networks was established, many human rights groups and non-government organisations (NGOs) were using telecommunications systems to exchange information, even internationally, through telephone lines. Using the spare capacity of voice-lines to transmit relatively small bursts of data between telephone exchange computers was far cheaper than a live voice-call and thus affordable even for an impoverished NGO such as a trade union in a developing country.

Such electronic mail could be exchanged automatically among telephone exchange computers very quickly every eight or six or four hours, according to a polling schedule whereby each computer automatically checked with a few others for incoming and outgoing email, much like a chain letter.

by
Pat Wright
Labour Studies
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Social Inquiry

Thus various networks for the rapid interchange of communications asynchronous in time and place were born. They had some of the advantages of telecommunications, in that they were asynchronous in place and thus bridged the gap between distant places around the world, and some of the advantages

of printed documents, in that they were asynchronous in time and thus persisted beyond the temporal presence of the communicator. The greatest advantages of these early computer networks, however, was their speed and their cheapness, both due to their simplicity.

Perhaps pre-eminent among these early international computer networks was fido.net, which was a somewhat fragile network of simple text communications which could be accessed with a modem and a simple games computer such as a Commodore 64.

In the developed world, fido.net provided a diverting pastime for hobbyists; in the developing world, it provided a lifeline for NGOs struggling for human rights, particularly human rights in employment.

Railway workers in apartheid South Africa, chemical workers in the Philippines, mine-workers in Bolivia, and maritime workers from Bangladesh were able to arm themselves with information regarding international labour standards, toxic chemicals and health and safety data, thanks to fido.net.

They were also able to alert kindred organisations in the developed world of exploitative practices and human rights abuses by multinational corporations and call for solidarity actions and protests around the world. Similarly, political dissidents, repressed minorities and the environmental movement made effective use of this new communications medium.

The effectiveness of such email networks, of course, depended upon their reliability and strength. As with other structures, they derived their strength not so much from their mass as from their resilience. Just as a spider's web gains enormous strength for its weight by evenly distributing load among its strands, and is resilient over time in being easily repairable, so the early email networks achieved their objectives very economically.

This strength from resilience was noted by the US military when they were considering their defence communications needs in an age of ICBMs and consequently there was a great deal invested in the development of telecommunications network infrastructure around the world.

Similar investment occurred in universities and other research establishments until the 24-hour, on-line, real-time Internet was established and the World Wide Web strung across it.

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The newspaper of The University of Adelaide

Collaboration to improve education outcomes for indigenous Australians

FOSTERING a collaborative approach to improving the success rate of Aboriginal and Torres Strait Islander students is one of the major goals of the new Director of Wilto Yerlo—the University of Adelaide's indigenous programs unit.

The new Director, Mr Roger Thomas, has lengthy experience in education, most recently as the Managing Director of the Pundulmurra TAFE College in Port Hedland, Western Australia.

Mr Thomas, a Kokatha man and a well-respected member of the South Australian Aboriginal community, is a former adviser to the University of Adelaide on Aboriginal education, employment and training and a former member of the University Council.

He worked for 10 years as the manager of welfare services in traditional, remote and isolated communities throughout South Australia and Central Australia.

He has extensive experience as Senior Manager for Aboriginal Adult Education Programs in South and central Australia. For five years he was Director of the Aboriginal Education Program at the Department of Employment and TAFE.

Mr Thomas said he wanted to improve the links between Wilto Yerlo and the rest of the University, with the ultimate aim of improving the performance of indigenous students at the University. "It's crucial that in-

digenous Australians take on the challenge of higher education," he said.

"University offers the qualifications that are going to ensure that indigenous people can compete with, and stand alongside, non-indigenous people in this country and in the world. That's a very important step for a lot of indigenous people to take.

"I believe Wilto Yerlo offers Aboriginal and Torres Strait Islander people a real change to succeed at university."

He said Wilto Yerlo aimed to remove some of the fears that many indigenous people have about studying at university.

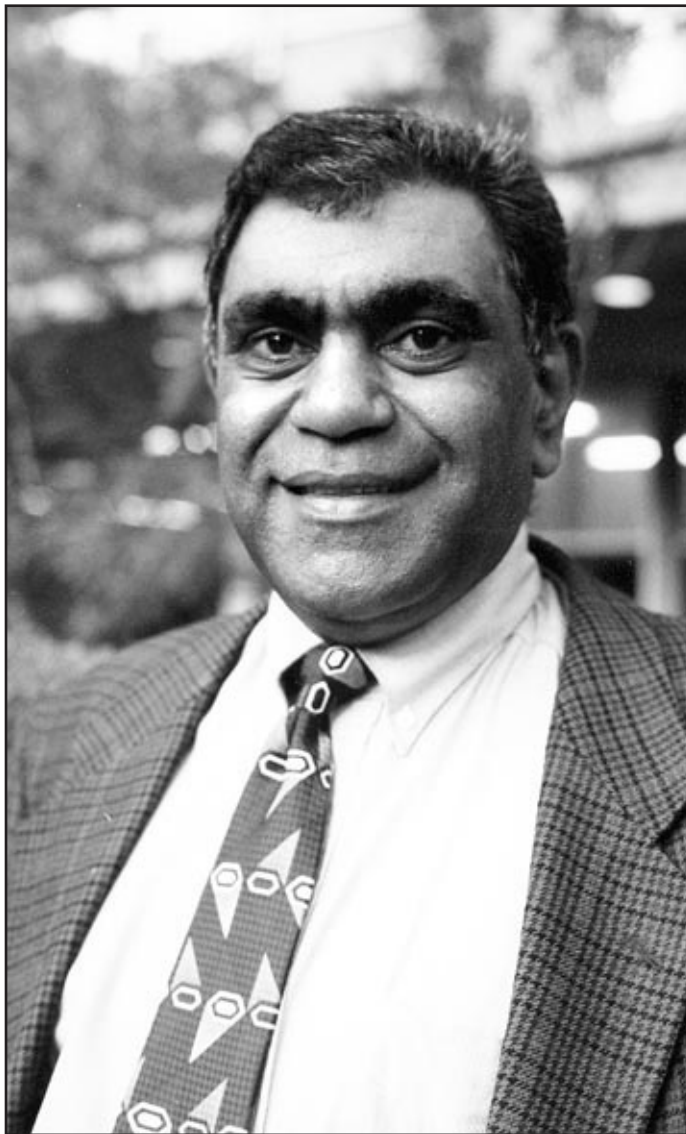
Mr Thomas said the fear of failure was a major deterrent, particularly to the many indigenous Australians who have not completed schooling for a whole range of reasons.

"A lot of Aboriginal people have not had good experiences of education. There's a perception that to succeed at university, you have to be academically brilliant.

"But I always promote the idea that if you have the motivation, the interest and the will to do something about your education, then you can succeed at university."

He said there were many examples of Aboriginal people doing brilliantly at university, despite little educational background.

However, the poor retention and success rates of indigenous people at university showed there



Roger Thomas—new director for Wilto Yerlo. Photo: David Ellis.

was still much work to be done.

Mr Thomas believes a key to improving these outcomes is greater co-operation between Wilto Yerlo and other parts of the University.

"We can't afford to be marginalised," he said. "There has to be a collaborative approach to

these issues by all sections of the University, including management."

Mr Thomas's first task is to work towards a strategic plan for Wilto Yerlo which will seek to establish a better structural relationship between the unit and the rest of the University.

—David Washington

Camtech moves into partnership with University Putra Malaysia

THE UNIVERSITY OF ADELAIDE-OWNED Camtech (SA) Pty Ltd has commenced a long-term investment in Malaysia in partnership with Universiti Putra Malaysia (UPM).

Camtech and UPM signed a Heads of Agreement in Malaysia on 26 August. It is the first stage of establishing a Malaysian subsidiary, Camtech Asia IT&T Sdn Bhd, in which UPM will be a shareholder.

Camtech recently opened a regional office in Kuala Lumpur and last month was given status in Malaysia's Multimedia Super Corridor.

The company will work closely with UPM and other Malaysian partners and customers to develop opportunities in the global marketplace unlocked by Internet commerce.

It will also build on close relationships with Sun Microsystems and EDS, both also established in the Multimedia Super Corridor.

Camtech Regional Manager for South East Asia Chris Hill said Camtech projected 40% of its revenue coming from Asia by 2001, with Malaysia as its regional office and IT export hub.

"The Internet is fundamentally transforming the global economy, so Camtech and its Malaysian partners plan to work together to ensure that transition benefits the region as a whole," he said.

Camtech Chief Executive Officer Bruce Linn said the skills offered by the company were in short supply in Malaysia.

"This is an opportunity to provide high level skills including Internet consulting and training and deployment of our electronic commerce products," he said.

A key element of Camtech's investment in Malaysia is the long-term relationship which exists between University Putra Malaysia

and the University of Adelaide.

"The University of Adelaide has had research contacts with Universiti Putra Malaysia for some years and is now extending these, particularly through the provision of research training in a range of new areas," said the Vice-Chancellor, Professor Mary O'Kane, who was in Malaysia for the Heads of Agreement signing.

"Over time, I expect a venture such as this agreement between Camtech and Universiti Putra Malaysia to open up many opportunities for our highly skilled, IT&T-trained graduates from Asia."

Camtech has been a pioneer in the development of technology to enable participation in the rapidly emerging online economy.

Earlier this year it sold its Internet access business to OzEmail to focus resources on Internet related consulting, training and Electronic Commerce.

NEWS IN BRIEF

GOODFELLOW SPEAKS

Local poet Geoff Goodfellow is the next speaker in the Friends of the State Library's Wednesday at One "Books in My life" series.

Geoff Goodfellow is well known nationally for taking poetry to building sites, jails, factories, offices, youth training centres, drug and alcohol rehabilitation units, private and state schools and universities as well as homes for the criminally insane and corporate boardrooms.

His successful *Semi Madness: Voices from Semaphore* was inspired by the suburb where he has lived for most of his adult life. His sixth book, *The Sex Poems Unleashed*, was launched at the Cargo Club earlier this year.

• Wednesday 2 September, at 1pm, Institute Building, North Terrace. Admission \$5 (Friends of the State Library and concession \$3).

DENTAL SCHOLAR

Adelaide dental graduate, Igor Lavrin was recently named the 1998 JL Eustace Scholar by the Faculty of Dentistry. The award is given to assist the recipient undertake further studies leading to a higher degree in dentistry in another institution.

Mr Lavrin is currently studying at Harvard University. He will receive his Orthodontic training from the Dental School, and his Master's degree from the Medical School where he is conducting research in Cleft Palate on Coll11a gene knockout mice.

"It is indeed a great honour to be named the 1998 JL Eustace Scholar," he said. "I would like to thank the Higher Degrees and Scholarships Committee in the Dental School for supporting my endeavours at Harvard.

"Adelaide gave me a fantastic dental education—it really is known internationally as one of the best! The University has produced numerous world-famous dentists, orthodontists and dental scientists."

After completing his Master's degree, Mr Lavrin hopes to return to Australia to pursue a combined academic and clinical career in Orthodontics. The University has also supported his studies in the past through the George Murray Overseas Travel Grant in 1997.

5UV OPEN DAY

UNIVERSITY RADIO 5UV will celebrate South Australia's Community Broadcasting Week by opening its doors to the public on Tuesday, 1 September.

As part of the Open Day, 5UV and its sister station 5MBS will broadcast live from the street—right in front of their studios on North Terrace.

Interested listeners to both stations are invited to have a look "behind the scenes" during the open day.

Tours through the stations' on-air studio, production facilities and offices will be available, with participants receiving a complimentary 5UV/5MBS program guide and an Active Radio bumper sticker.

5UV was the first public radio station on air in Australia when the university station commenced broadcasting on June 28, 1972.

Since 1995 it has been supporting and nurturing its sister station 5MBS, which mainly broadcasts fine and classical music.

Field trips develop students' scientific passion



Student Tanya Taylor helps lay out netting which is used to catch and record small animals in the Coorong. Photo courtesy Dr David Paton

Advertisement

THE BEST SCIENTISTS are passionate about their work.

For ecologists and zoologists that passion develops from having first-hand experience with natural systems.

For students, true appreciation of the adaptations of animals to their environment does not come solely from lecturers and laboratory sessions, nor from computer-generated material. It comes from observations and experiences of free-living wildlife.

Field trips provide not only practical experience with field techniques but also provide a unique opportunity for students to interact directly with staff and their native habitat—the field.

Many students discover that staff have a sense of fun, are approachable, have a commitment to the environment and share a love for imparting their knowledge and enthusiasm for a topic.

The Department of Zoology believes in the value of field-based activities in under-

graduate courses and will continue to provide them whenever possible.

A group of second-year Zoology students was recently able to participate in such an experience at a camp at Gemini Downs in South Australia's Coorong.

More than 40 students had their first taste of field-based study on the four-day camp.

The Coorong is an important habitat for a wide variety of water birds, including some that breed in the northern hemisphere and migrate to the southern hemisphere during the northern winter. It is important that these wetland habitats used by such birds are protected.

Also, nearby agricultural regions are suffering from extensive dryland salinisation. This has been caused by the clearance of native vegetation, which results in salty groundwater rising to the surface and thus affecting crops and pasture.

One of the more controversial

solutions which is presently being implemented is to cut drains to intercept this salty water and drain it away.

Monitoring the effects of this scheme on the biota in the southern Coorong may allow changes to be detected before it is too late for remedial action.

During the camp students conducted a range of field-based research activities.

These included baseline monitoring of plants and invertebrates, measuring of salinity and other components of the water, counting the number of small animals crossing drains, and recording the number of birds flying overhead.

The students' work reaches much further than the four-day camp. As well as giving them some real field experience, it will be linked with the monitoring being conducted by research officers within the Department of Environment, Heritage and Aboriginal Affairs.

—Dr David Paton
Zoology

Simple device brings good news on radiation safety

RADIATION SAFETY has been improved for staff in the Department of Agronomy & Farming Systems thanks to a simple yet effective idea.

To measure soil moisture levels in paddocks at the Roseworthy Campus, Agronomy & Farming Systems staff have been using a highly accurate neutron moisture probe.

The probe is lowered into the ground and fires neutrons into the surrounding soil. Resistance to the neutrons by water molecules can provide researchers with detailed information about soil moisture levels and plant water use.

But at close proximity, this equipment gives off low levels of radiation (about five microSievert per hour, which in a year would be equivalent to a quarter of the maximum recommended dose for a radiation worker).

Because staff have had to carry the equipment by hand for long stretches of time, this posed a potential Occupational Health & Safety problem.

"There is a concept known as ALARA—As Low As is Reasonably Achievable," said university radiation safety officer Dr Gerald Laurence.

"Even if the radiation levels are low and pose no immediate threat, if we can reduce exposure to radiation we will make every effort possible."

His idea was to build a hand-held trolley which could transport the moisture probe, keeping it at a safe distance from the user.



Simple yet effective device improves radiation safety. Photo: David Ellis

The task was taken up by Agronomy & Farming Systems department manager Mr David Mathew. The department's technical officer, Mr Chris Hill, and workshop supervisor Mr Kevin Harrison built a lightweight, wheeled trolley.

The moisture probe hangs on the end of the trolley, keeping it more than a metre away from the user.

"It's a simple but effective design," Mr Mathew said.

"It's light enough and tough enough so you can throw it into the back of a stationwagon or lift it over a fence to get to a paddock. The trolley is also easy to push and pull through standing crops without

damaging them."

Two models of the trolley have now been developed and both have proven successful.

"What you'll notice is that although the radiation levels coming off the probe are reasonably high, if you stand about a metre or so away, at the same distance as the handles of the trolley, those radiation levels drop off effectively to a 25th or less," Dr Laurence said.

"That's good news for the staff who work with the probe regularly, because it'll greatly reduce their exposure to low levels of radiation and make their working environment safer and healthier."

—David Ellis

ACUE 25th Birthday Seminar Series: The third Web presentation is now on the 25th Birthday site: <<http://www.acue.adelaide.edu.au/25th/acue.html>>.

Dr Caryl Cresswell and Ms Joanne Pimlott present 'Education for Work', exploring the following questions:

- What is work?
- What do you believe is the role of the University in preparing graduates for the workforce?
- What attributes and skills do graduates need in the current 'work' environment and will this be different in the future?
- How does your department prepare its graduates for work?
- What challenges will we face in the future?
- Do you have any case studies of best practice in equipping graduates for employment?

Staff and students are invited to join in the Web-based discussion and to attend the seminar in the ACUE on Monday 7 September.

Physics 'studio class' encourages cooperative learning techniques

PHYSICS STUDENTS are benefiting from the trial of a new teaching and learning program at the University of Adelaide.

The Department of Physics & Mathematical Physics has this semester begun a new "studio" class structure for a pilot group of its first-year students, replacing traditional lectures, tutorials and practical sessions.

Instead of running the theoretical and practical components of the Physics 1 subject separately, these elements are combined into an intensive "studio" session.

Although brief lectures are given within the studio class, they are immediately followed up with group discussion and practical exercises, helping to reinforce what the lecturer has been saying.

Each studio session runs for two-and-a-half hours, with two sessions held per week.

"Studio classes are aimed at reducing the role of lectures as the primary source of information, encouraging cooperative learning techniques and encouraging students to take more responsibility for their learning," said Physics lecturer and program coordinator Dr Judith Pollard.

Team work is a major component, with the class of 30 students being split into five teams.

"The team structure enables students to



Dr Ian Bruce (left) explains a voltage experiment to first-year Physics students Shari Whennan and Catherine Slattery, just two of the 30 students taking part in the new Physics studio class. Photo: David Ellis

develop cooperative learning," Dr Pollard said.

"By working through practical and theoretical problems together they engage in a sharing of knowledge as well as utilising individual skills.

"There is greater and closer contact between students and lecturers, who can move from one group to another to discuss the ideas and issues being focused on in the session."

"This initiative forms a valuable part of the learning and teaching strategy of the Faculty of Science," said the Dean of Science, Dr Alastair Blake.

Preparation for the studio class also becomes an

important part of the learning process.

Students receive a set of notes to guide them through the text books and are expected to spend about six hours every week preparing for the classes.

"We're hoping that this different approach to teaching and learning will help improve students' knowledge and understanding of physics, and give them a solid grounding for future study in this field," Dr Pollard said.

"The experience of studio classes interstate and overseas has been a very positive one, and if this proves to be a success

within our department, it will lead to significant changes in the presentation of first-year Physics."

The trial of the studio class is funded by a CUTSD (Committee for University Teaching and Staff Development) grant and has received strong support from within the Department of Physics & Mathematical Physics.

"Presentation of a studio program is very time-consuming and would not have been possible without the dedicated efforts of all the staff involved, particularly Mr Peter Di Lernia and Dr Ian Bruce," Dr Pollard said.

—David Ellis

AS IT HAPPENED

John Button, the former Minister for Industry and Commerce in the Hawke and Keating Labor Governments, will be on the University's North Terrace campus on Friday 4 September.

Mr Button will be signing copies of his new book, *As It Happened*, in Unibooks between 11am and 12noon.

As It Happened is available at Unibooks (rrp \$34.95)

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Silent Nights: Getting babies to sleep 'on cue'

From Page 1

This process basically involved ensuring the child was dry, well-fed, comfortable and safe and then leaving the baby to go to sleep—even sometimes if the infant was crying. All four Symon children developed excellent sleeping patterns.

Dr Symon began to explore the scientific basis of Maryanne's technique.

"I started reading widely about sleep and the different philosophies of sleep," he says.

"The crucial piece of information was to do with sleep cycles and how all people of all ages wake up several times during the night. This is normal. Often we don't remember waking up but we do. So each of us achieves sleep several times a night. For children this is as frequently as once every 45 minutes.

"Once you recognise that babies wake repeatedly at night, the next step is to identify the need to return to sleep.

"And why do we return to sleep? Most people say, 'it's because you're tired'. But many sleep achievements occur as we approach dawn and tiredness is largely resolved. It is difficult to identify fatigue as the cause of sleep 45 minutes before waking to start the day.

"So I developed the concept of sleep cues."

In adults, these cues usually include being warm and comfortable in your own bed, maybe your favourite pillow, the correct company—all of these are sleep cues. In children, Dr Symon says these cues fall into two categories—with parents and without.

"If the cue includes a parent, possibly patting the child to sleep, then it's logical for a parent to be 'politely' asked to get up several times during the night to repeat the 'cue' to help the child return to sleep," he says.

"If the child learns cues without parents, then they can return to sleep in their own company."

Helping infants learn new sleep cues can be difficult, particularly for parents whose children rely heavily on them in order to sleep.

In addition to cues of sleep there is a second major factor affecting sleep performance. Dr Symon says much advice about sleeping ignores the state of overtiredness. Children can become so fatigued that they have problems responding to their normal sleep cues and achieving a transition to sleep efficiently.

This is the stage at which parents often seek help. Many parents find they are spending three or four hours trying to settle their children, perhaps rocking them in their arms until they are sleeping, only to have a screaming baby again when they try and put them into their cot.

Dr Symon's technique involves ensuring the child is well-fed, healthy and comfortable, and then leaving the child to achieve sleep. This can be a heartbreaking process for many

parents, who are fearful that leaving a child to cry might cause emotional damage.

Dr Symon's answer to this fear is compelling.

"I say to parents that it would be very easy for me to cause damage to the emotional state of their family—simply by waking them three or four times a night for months on end. If you and your child get normal hours of sleep, then your relationships are more likely to be satisfactory."

Dr Symon began advising sleep-deprived families about 15 years ago, as part of a diverse general practice. News of his interest has spread by word of mouth to the point at which he is booked six weeks in advance in a practice which is now almost exclusively consumed by this issue.

"Due to my patients' advertising, I have become a sleep doctor," he says.

Silent Nights is available at most major bookshops.

—David Washington

Bringing IT to people with disabilities



Ann-Marie Salotti, one of the contractors working with Optcom Multimedia.
Photo: David Ellis

A NEW RESEARCH project will look at opportunities provided by information technology and telecommunications to help people with disabilities to work from home.

The \$135,000 project, funded by the National Office of the Information Economy, is to be researched by the University of Adelaide's Centre for Telecommunications Information Networking (CTIN).

CTIN will survey the use of information technology and telecommunications by people with disabilities in remote and regional areas of South Australia.

A group of people with disabilities who live in regional SA will be recruited and trained to access online information.

They will also work for Adelaide-based organisation Optcom Multimedia, which trains and employs people with disabilities in the use of multimedia products.

The group's ability to work remotely using telecommunications technology will be compared with another group of people with disabilities working on site at Optcom.

The aim of the project is to ensure that people with disabilities can benefit from new communications technology.

"There is not much point in having a 'revolution' in communication if some of the members of society are excluded, not by choice, but by our own inability to use the technology in creative and radical ways," said the director of CTIN, Professor Reg Coutts.

"Use and access to the Internet is a primary component of this project because the emergence of the Internet has become an important communications tool for economic and community development, especially for geographically dispersed business and rural and remote users.

"The application of the results of this study will enable people with disabilities to access the phenomenal growth in communication technologies through the integration of these technologies in work practices which make distance working increasingly feasible," he said.

—Collette Snowden

Advertisement



Put yourself in the spotlight
HOST A CONFERENCE

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

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

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



Vivid example of Adelaide expertise on Olympic show

From Page 1

Chief executive officer of FCT Mr Damian Scanlon said the company was proud to have a role in developing the torch flame for the Sydney 2000 Olympics.

"The Olympic torch represents a very different application of our skills—but just like the burners we design for cement, lime, metals and glass manufacturing industries, it presents its own set of challenges.

"FCT thrives on designing the most efficient flames to do the job in whatever circumstances, and the torch is no different in that respect," Mr Scanlon said.

The Vice-Chancellor, Professor Mary O'Kane, said the winning of the contract was a strong

example of the University's expertise in research and its ties with industry.

"In terms of research the University of Adelaide has proven time and again that we are one of the best universities in the nation. Now, thanks to the unique efforts of this research team, a very vivid example of that expertise will be on show for millions to see during the Sydney 2000 Olympic Torch Relay.

"My congratulations go to the entire team," she said.

The final details of the torch and the burner design will remain a closely guarded secret until early 1999.

—David Ellis

COMMENTARY

HUMAN RIGHTS AND THE INTERNET

Continued from Page 2

At first sight, this would appear to be a great leap forward for the human rights cause around the world, since it provided bigger, better, faster and more reliable communications to a much greater number of people in a greater number of countries.

However, the enthusiasm for graphic, colour images and more attractive documents immediately available 24 hours a day was soon tempered by the expense of the bigger and faster hardware and much more elaborate software needed to access the Internet and the World Wide Web—not to mention the greatly increased Internet Service Provider charges and the World Wide Wait connect-time needed to download the huge data files of some Web pages.

There is obviously a danger that the development of the Internet, which has occurred largely in the name of providing access to information, could be counter-productive in exacerbating the gap between the information-rich and the information-poor.

Evidence of this concern can be seen in the planned provision of local-call Internet access to rural and remote residents of outback Australia, but the concern is even greater in the case of human rights groups in developing countries, particularly those who could find themselves excluded from sources of information to which they have had access in the past by the fancy, new technology, which they cannot afford.

Fortunately, most providers of information about international labour and safety standards have maintained a text-only version of their websites and databases, so they remain accessible through quite simple and inexpensive technology.

The explosion of the converging market for information technology and telecommunications around the world has also led to a reduction in the price of equipment which offsets to some extent the push up-market to ever-bigger, faster and more elaborate machines.

Similarly, there is a trade-off between the amount of skill encapsulated in the technology and the amount of training required to use it effectively—the early email

networks required considerable command-line expertise of the operator, whereas a far greater number of people can point-and-click at the latest technology.

On balance, then, the Internet itself is neither a democratising nor an anti-democratic influence in the Human Rights movement. However, it has been used effectively and could be used even more effectively by democratic forces to advance the cause of Human Rights. This is amply illustrated by the celebrations of UDHR 50 on the Internet.

As well as governmental websites such as the United Nations High Commissioner for Human Rights at www.unhchr.ch/ and the Australian Human Rights and Equal Opportunity Commission at www.hreoc.gov.au/, there is a number of NGOs on the Web celebrating the 50th anniversary, such as the Human Rights Web at www.hrweb.org/, the Human Rights Internet at www.hri.ca/, and Amnesty International at rights.amnesty.org/.

Even the multinational corporations are celebrating, such as the Reebok Human Rights Program at www.reebok.com/humanrights/ and the project of the Lawyers Committee for Human Rights conceived by Peter Gabriel and funded by the Reebok Foundation, Witness, at www.witness.org, which aims to provide human rights groups with mass communication tools such as videocameras.

Perhaps the most remarkable examples of UDHR 50 celebrations on the Internet are the University of Iowa's Global Focus: Human Rights '98 at www.iowa.edu/~hr98/ and the Franklin and Eleanor Roosevelt Institute's website at www.udhr50.org/.

Eleanor Roosevelt chaired the UN Commission on Human Rights which drafted UDHR. The drafting committee consisted of only eight countries, one of which was Australia, and the Declaration was ratified with Dr HV Evatt, Australian Labor Party Leader, in the Chair of the UN General Assembly. This prompts Australians especially to use the Internet to participate in the Amnesty International campaign for 8 million signatures worldwide in support of UDHR by its 50th birthday on 10 December 1998.

Unusual idea for skills program

WINE STAINS AND TIES aren't usually a pleasant mix.

But an Adelaide company set up and run under the Young Achievement Australia program is hoping the wine-stained tie look will catch on.

That's because the company, YASASSY, manufactures and sells ties with designer wine stains.

What makes the company even more unique is that it's run by a group of tertiary students and graduates.

"Young Achievement Australia (YAA) runs a 24-week business skills program aimed at giving young people a hands-on introduction to business," explains Miss Tamath Rainsford.

Miss Rainsford is a graduate of the University of Adelaide—Bachelor of Science with Honours (Maths & Computer Science, 1996)—and is currently studying for a PhD with the Department of Physics & Mathematical Physics.

She is also the head of marketing and deputy managing director of YASASSY.

"Under the business skills program, groups of young people can form their own company which must operate exactly like a real business during the 24 weeks of the program.

"We sell a real product or a service, we register the company, have shareholders—we do everything that any normal business does.

"The idea is to help young people learn about business and build valuable skills, while bringing the cost down to a bare minimum.

"Each of the company members starts by purchasing a \$2 share in their business, and from there the only real cost is the amount of time you spend developing the company and your product," she said.

YASASSY's other company members include a PhD graduate (Physics),



Tamath Rainsford—novelty product. Photo: David Ellis

an Engineering and Arts student, and a TAFE student.

Their product, high quality silk ties with red wine stains and labels, is an original and patented design. YASASSY can also vary their design to make the wine stains specific to particular wineries—giving the wineries a novelty product to sell to customers.

The infamous Sam Newman of Channel 9's *The Footy Show* was so taken with the ties that he wore one of them during a recent broadcast from Adelaide.

Miss Rainsford said she first heard about the YAA program through the University of Adelaide's Careers office. She said the experience of setting up and running YASASSY had been invaluable.

"The YAA program is extremely worthwhile, especially for students who have an interest in learning

more about business.

"You spend a great deal of time developing links with other people in business, and many students who've taken part in the program end up getting jobs out of it. Being involved in a program like this really increases your employment prospects.

"Although it can be hard work, it's also lots of fun. For someone like me who is looking to start their own business, the skills you learn from this program can be extremely useful," she said.

Students or graduates interested in the YAA business skills program can contact the State office on 8231 0548.

—David Ellis

Anyone interested in purchasing a silk tie from YASASSY (\$29.90 retail) should contact Miss Rainsford on 8303 3955 or 8276 7689.

Advertisement

ALUMNI NEWS

EXPLORING MEDIEVAL LITERATURE ON THE NET

English lecturer Tom Burton and Research Librarian Alan Keig invite alumni to explore the world of medieval literature on the Internet.

The Alumni Activities Program once again invites alumni to the Barr Smith library at 7:30pm on Thursday 24 September, for a demonstration of how modern information technology is extending our access to the literature of the middle ages.

(Please note that the date announced earlier in the year for this activity has been changed.)

There are plenty of places available, but please call the Alumni Office on 8303 4275 if you would like to come along, to help us with our planning.

OUR HIDDEN STATE

University of Adelaide staff and alumni are among the many contributors to *Our Hidden State*.

Recently published by ANZAAS with the support of the University of Adelaide Foundation and the Hickinbotham Group, *Our Hidden State* provides a scientific tour of the State under the guidance of its thirty contributors. Copies are available at the Alumni Office for \$15.95.

GRANTS AVAILABLE FOR DOCTORAL CANDIDATES

The Alumni Association invites applications from Doctoral candidates for the AUGU/RC Heddle Award and the Mutual Community Postgraduate Travel Grants.

Both grants are provided to assist the recipient to travel to a conference or similar gathering to present his or her work, or to travel to another institution to learn a particular method essential to his or her work. Such travel may be undertaken within the state, within Australia, or overseas.

The AUGU/RC Heddle Award was instituted by the former Graduates' Union, and is now managed by the Alumni Association. Two grants of \$1250 each are available.

The Mutual Community Postgraduate Travel Grants are generated through a program set up by the Alumni Association and Mutual Community. Four grants, each of \$2500, are available.

Application forms may be obtained from the Alumni Office. The closing date for applications is Friday 18 September.

CAMPUS TOURS: SHARE YOUR UNIVERSITY WITH A FRIEND

Are you expecting visitors from interstate or overseas? Do you have friends looking for an interesting morning's exploration? Are you a member of an organisation looking for something 'different' for its social program?

The Alumni Association offers walking tours of the North Terrace Campus on Tuesday mornings at 10:30am. The tours last one and a half hours, and the cost is \$3 per person. Proceeds go to the Alumni Association's Scholarship Fund. Groups are welcome: please telephone 8303 4275.

The tour includes some strenuous sections, with stairs to be negotiated. Participants are urged to wear comfortable shoes.

PERFORMING ARTS ON CAMPUS

Roving in a world of masks and serenades

SHE WAS DESCRIBED by Virginia Woolf in *A Room of One's Own* as being both "amorous and shady", and an example to all women who wanted to be writers. Aphra Behn was the first British woman to make a career from writing plays and novels, with a little espionage on the side.

The Rover, her best known play, is now being directed for the University of Adelaide Theatre Guild by Cate Rogers, most recently seen as Madame Orgon in Jim Vilé's production of *Tartuffe*.

In collaboration with Gina Tsikouras and Parting Company, Cate Rogers has directed several of Shakespeare's comedies at the University and decided it was time to move into another theatrical period.

"*The Rover* has the same pacy irreverent feel as the comedies that we had already tackled, and was a classic, and wasn't Shakespeare," she said.

The story of *The Rover* is set in Naples. Florinda and her sister Hellena are Spanish ladies, the one destined for an arranged marriage and the other for a convent. Colonel Belville, an exiled English cavalier, and his friend Wilmore, the Rover of the title, are also in Naples in search of love.

It's carnival time and the action takes place in a world of masks and serenades, assumed identities and plots and counterplots.

While the play is two hundred years old, Cate Rogers sees the story as being entirely contemporary and accessible to a modern audience.

"That's why I've chosen with

the music and the dance and the various comic devices in the play to make them modern. It's a perilous experiment.

"I'm hoping to mesh the two periods because you'd be taking away so much of the pleasure of the play if you got rid of the pirate shirts and leather trousers, the maidens in their flowing gowns and heaving cleavages, all the swash-buckling kind of stuff," she said.

After her death, Aphra Behn's reputation suffered in a backlash against the sexually explicit plots of her plays.

Now the insights she displays into human nature and her theatrical élan have caused a revival of interest in her as a woman and a writer.

In the original 1677 production of *The Rover*, the role of the courtesan Angelica Bianca was played by Nell Gwynn, the mistress of King Charles the Second. This time round she's played by Victoria Goodyear.

The title role is played by Chris Papps. Sarah Jane Croser and Amy Murphy are the sisters, and Theatre Guild veteran June Barnes plays the maid.

The Rover opens in the Little Theatre at the University of Adelaide on Friday 4 September and runs from Tuesday to Saturday until 19 September at 8pm.

The production is part of the celebrations for the sixtieth anniversary of the Theatre Guild. Tickets are \$18/\$12, and are available from BASS 131246, the Theatre Guild (8303 5999) or at the theatre.

—Ewart Shaw



Amy Murphy, Sarah Jane Croser and Trish Ryan — roving in Theatre Guild's new production. Photo: Cate Rogers.

Advertisement

Portrait of Tristram Cary

THE CHANCELLOR, Mr Bruce Webb, will unveil a portrait of Tristram Cary in the Ira Raymond Room, Barr Smith Library, on Thursday 10 September.

Tristram Cary was a pioneer of electronic music and an admired teacher in the Elder Conservatorium until his retirement. The portrait was painted by his friend Gwen Harris a few years ago. It was selected for the Portia Geach Memorial Prize exhibition in Sydney in 1996, and received a very favourable review in *The Weekend Australian*. It is a strong portrait of a thoughtful man.

The purchase of this picture for the University's Art Collections was initiated by the Cornell Chapter of the Alumni Association, and made possible by a grant from the University Foundation.

Not all portraits of important persons are as distinguished as the sitters, but in this case the quality of the portrait matches the distinction of the man. After the unveiling it will be displayed in the foyer of the Barr Smith Library, where there is currently an interesting exhibition of portraits.

—Tim Mares, Chair (Cornell Chapter)

ACCOMMODATION

CITY: 2 br, heated, air cond, new carpets, dishwasher, washer and dryer, carpet. \$130 pw. Ph Kay 8272 6900 or Mary 8379 1735.

CITY: 1 or 2 br cottage near Central Market, recently renovated, small garden, available immediately. Ph 8344 2536 (evenings).

GLENELG: Professional, non smoker to share immaculate 3 br house close to beach and shops. Ph Gary 8291 4144.

KATHLEEN LUMLEY COLLEGE: Is the postgraduate residential college of the University. The College has 3 small flats and several single study bedrooms (with bathroom) available

for short and medium term visitors to the Uni. Ph 8267 3270 (mornings only).

NORTH ADELAIDE: 1 br fully furnished flat with pool. \$120 pw incl electricity. Ph 8267 1081.

ST GEORGES: Person wanted to share luxury home, close to Waite. \$100 pw + exp & bond. Ph John 8379 1166 (ah).

TENNYSON: Absolute beachfront, fully furnished, 3 br house available now for 4-5 months. Ph 8269 2892.

WANTED: Visiting academic and wife require 2 or 3 br, fully furn house from now until Aug 99. Prefer south eastern suburbs. Ph 8303 8540 or email: <peter.cook@adl.clw.csiro.au> .

WANTED: Visiting

ADELAIDEAN CLASSIFIED

academic and family require 2 br apartment or house from 21 Dec 98 - 16 Jan 99. Prefer near beach or eastern suburbs. Ph 8379 3859.

FOR SALE

DATSUN: 280C, 1980, auto, air cond, power steer/windows, well maintained. SOY 064. \$1,600 ono. Ph Paul 8303 7394 or 8373 3698.

FACSIMILE: Panafax UF121 thermal paper fax includes 4 rolls of fax paper. Ph Unisure 8303 5141.

FRIDGE: General Electric with auto temp fridge /freezer, in good working

order. \$110. Ph Nicola 8422 4664.

GERMAN SHEPHERD: Adult male, intelligent, good looking, pedigree family dog, vaccinated, adores babies & children. Excellent playmate. \$200. Ph Susan 8337 9079.

MISC: Caravan - 17ft Viscount pop top, 4 berth with annex & sep awning, \$5,500. Single electric blankets (2), \$15 ea. Yamaha electronic keyboard, \$65. Panasonic portable stereo with CD player, dble cassette, 2 removable speakers \$400. Teac stereo with CD, dble cassette, record player, 2 speakers, \$400. All prices

neg. Ph 8291 4132 or 8272 9275 (ah) or email: <ynotley@acf.org.au>.

MISC: Computer P100, 1.2 GB HD, 16 MB RAM, CD, sound card, 15" colour monitor, Win 95 and Office, lots of software, \$1,200 ono. Philips 51cm colour TV, remote control, sleep timer, as new, \$350 ono. Philips Hi-Fi midi, 3 CD, dble cassette, remote control, \$320 ono. Ph Paul 8303 7394 or 8373 3698.

PENTIUM: 200MMX (intel inside), 32 RAM, 2.1 HDD, 15" SVGA monitor, CD, 2 MB video card, keyboard, mouse, modem, good cond. \$1,150 ono. Ph 8338 4152.

TABLE: 120cm x 75cm, oak top, black legs, \$60 ono. Ph NTEU Branch Office 8303 5155.

WANTED

WASHING MACHINE: 2nd hand in good working order. Ph Gary 8291 4144.

MISCELLANEOUS

CHILDCARE: Reliable, references available, own transport. Ph Rebecca 8262 5134.

WORD PROCESSING: Fast and accurate, 15 years experience as a temp. Good rates, free pick-up and delivery. Ph Trisha 8232 4841.

WORD PROCESSING: \$3.50 per page @ 250 word per page. 1500 words = \$21. Thesis formatting of WP on disk, laser printing, city centre location. Ph Anne 8212 6869 or 8415 7866.

Bulletin Board

AUGUST 31, 1998

THE UNIVERSITY OF ADELAIDE

PAGE 1

Anti-Cancer Foundation of South Australia — Student Vacation Scholarships 1998/1999

The Anti Cancer Foundation offers scholarships each year to undergraduates interested in participating in research projects directly related to cancer. These scholarships which are tenable for up to eight weeks will be available during the summer holiday period in recognised research institutions in South Australia. The scholarships are intended to stimulate the interest of students in research and to test their research aptitude. The scholarships are not intended to support the employment of students for routine work.

The scholarships are open to University undergraduates who are enrolled in any Faculty and who have completed at least 2 years of their course at the time the scholarship commences. Only one

application per student is permitted. If a student accepts an offer of another student vacation scholarships, this will preclude that applicant from an Anti-Cancer Foundation scholarship.

The scholar will be paid \$135 per week for the agreed tenure, up to a maximum of eight weeks.

How to apply

Students should make application through the Head of the Department in which they wish to work. The Department Head should endorse the candidate's application and request funding from the Anti Cancer Foundation.

Applications

There is no specific application form, but the Department Head should:

1. Provide full particulars (including a transcript of the Academic record) of the suitability of the applicant.
2. Offer a brief title and details of the research project to be undertaken.
3. State the number of weeks selected (including specific dates).
4. Give an outline of the arrangements and an undertaking that suitable supervision throughout the period of the scholarship will be provided.

Two copies of the application should be submitted, with an accompanying letter of support from the supervisor of the Research Project.

Report

Each successful application should forward a brief report of the work

undertaken during his/her scholarship to the Executive Director of the Anti-Cancer Foundation within 6 weeks of the completion of the project.

Closing date

Friday 25 September 1998. Departments will be advised the results of the application by late October 1998. It is expected that the scholar will commence duties on or about 1 December 1998.

Address all applications to

Executive Director
Anti-Cancer Foundation of SA
202 Greenhill Road
EASTWOOD SA 5063
(PO Box 929, Unley SA 5061)

Tel: (08) 8291 4131
Fax: (08) 8291 4122

MONDAY 31 AUGUST

1.00pm Clinical & Experimental Pharmacology Seminar: An animal model of opioid withdrawal by Mr Raymond Chan (Ph Student). Seminar room, 6th Floor, Medical School, North Wing.

1.10pm Public Health Seminar: BHSc: First Years' - expectations & needs (includes open discussion) by Dr Gerry Mullins (ACUE) and Ms Angela Hockley (Student representative). Seminar Room, Level 6, Bice Building, RAH.

1.10pm History Staff/Postgraduate Seminar: George Monck and the Restoration of Charles II by Dr Roger Hainsworth (History). Common Room 420, 4th Floor, Napier Building.

4.00pm Crop Protection Seminar: Tripartite interactions between the black millipede, a nematode and bacteria by Andreas Hensel (Visiting German Academic). Charles Hawker Conference Centre, Waite Campus.

4.00pm Civil & Environmental Engineering Seminar: Environmental Engineering in China by Mara Warwick (Alumni University Medalist / 1998 Fulbright Postgraduate Student). Room N132, Engineering North Building. Tea/coffee at 3.30pm in Culver Room.

4.15pm Geographical & Environmental Studies Seminar: Relationship between trends in the labour force and housing markets by Ms Valerie Kupke (PhD student). Room 819, 8th Floor, Napier Building.

TUESDAY 1 SEPTEMBER

3.15pm Anthropology Seminar: Foundations of Australian Racism: the Pacific Cultures Gallery, SA Museum by Deane Fergie (Anthropology). Room 702, 7th Floor, Schulz Building.

6.30pm Australian Institute of International Affairs Talk: Impressions of Chile and Argentina (includes slide show and music) by Mr Alan Samagalski (Bizline Librarian, State Library of SA). Upper Refectory, Level 3, Union House.

WEDNESDAY 2 SEPTEMBER

12.30pm ARCHSS Seminar: Pierre Ryckmans (aka Simon Leys): Sinology and the Public Intellectual by Dr John Makeham (Asian Studies). Room G08, Napier Undercroft.

COMING EVENTS

August 31st — September 11th

4.00pm Physiology Seminar: Surfactant: a future biomarker of lung health? by Ian Doyle (Physiology, Flinders University). Room N416, Medical School, North Wing.

THURSDAY 3 SEPTEMBER

12noon HCCR/IMVS Seminar: Alternate transcription and translation of the LIF gene produces a novel intercellular protein by Dr Bryan Hains (Molecular Regulation Laboratory, Division of Haematology, HCCR). Verco Theatre, IMVS.

1.00pm Chemical Pathology Seminar: An update on Batten's Disease by Ms Viv Muller and Dr Barbara Paton (Chemical Pathology). Seminar Room 1, 4th Floor, Clarence Reiger Building, WCH.

2.00pm Zoology Seminar: Fear, food or favour: why are estuaries full of fish? Dr Rod Connolly (School of Applied Science, Griffith University). Mawson Lecture Theatre, Mawson Laboratories.

3.00pm Zoology Seminar: Population dynamics of clonal marine organisms: a case study of the Zoanthid *Palythoa caesia* by Dr Jason Tanner (Marine Biology, James Cook University of North Queensland). Mawson Lecture Theatre, Mawson Laboratories.

4.15pm Zoology seminar: Effects of habitat and predation on plants and animals: results of experiments from intertidal and subtidal habitats by Dr Sean Connell (School of Biological Sciences, University of Sydney). Mawson Lecture Theatre, Mawson Laboratories.

FRIDAY 4 SEPTEMBER

12.45pm Dentistry Seminar: Finite element analysis in dentistry by Jack Gaffey (Dentistry). Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

4.00pm Obstetrics & Gynaecology Seminar: Microinjection or microsurgery following vasectomy - is the test tube mightier than the sword? by Dr Ossie Petrucco (Obstetrics & Gynaecology, WCH). Seminar Room, 6th Floor, Medical School North.

6.30pm Dentistry - The Graham

Mount Oratorion: Dentistry's Millenium Avalanche by Professor MR Sims. Elder Hall. Details: Brenda Purdie, 8303 3286.

MONDAY 7 SEPTEMBER

1.00pm ACUE 25th Birthday Seminar Series: Education and Work presented by Associate Professor Caryl Cresswell and Joanne Pimlott. Seminar Room, 6th Floor, Hughes Building. BYO lunch / tea and coffee provided.

1.00pm Mawson Graduate Centre for Environmental Studies Seminar: The Gaze in Nature Writing by Prof Hank Harrington (University of Montana). Room 204, Environmental Studies Bldg.

1.00pm Clinical & Experimental Pharmacology Seminar: Oxidative drug metabolism by cytochrome P450 isozymes by Ms Janet Coller (PhD student). Seminar Room, 6th Floor, Medical School, North Wing.

1.10pm Public Health Seminar: Physical Anthropologist in Public Health by Professor Maciej Henneberg (Anatomical Sciences). Seminar Room, Level 6, Bice Building, RAH.

4.15pm Geographical & Environmental Studies Seminar: Suburbs of acquiescence, suburbs of protest by Professor Patrick Troy (Head, Urban Research Program, ANU). Room 819, 8th Floor, Napier Building.

6.00pm Centre for Intercultural Studies and Multicultural Education Seminar: Not all of us have the privilege of telling our story - Reflections about stories told by Israeli students: Intercultural and multicultural perspectives in the context of higher education by Dr Nava El-Ad (School of Social Work, University of Haifa, Israel). Council Room 7th Floor, Hughes Building. Refreshments from 5.00pm. Enquiries: Elizabeth Balan / Mariusz Kurgan 8303 5788.

TUESDAY 8 SEPTEMBER

3.15pm ARCHSS Seminar: Topic to be advised, by Emeritus Professor Sidney Mintz (Anthropology, John Hopkins University). Council Room, 7th Floor, Hughes Building.

WEDNESDAY 9 SEPTEMBER

12.30pm ARCHSS Seminar: When the going was good: Prehistoric Hippo Hunters and Cattle Herders of the Sahara by Professor M Williams (Environmental Studies). Room G08, Napier Undercroft.

1.00pm Zoology Seminar: Research in the department of the Good Life by Professor Margaret Sedgley (Horticulture, Viticulture & Oenology). Seminar Room, 4th Floor, Fisher Building.

4.00pm Physiology Seminar: Growth Hormones by Stephen Judd (Endocrine Unit, Flinders University). Seminar Room N416, Medical School, North Wing.

THURSDAY 10 SEPTEMBER

9.00am Crop Protection: Annual Postgraduate Symposium (Day 1). Charles Hawker Conference Centre. Closes 5.00pm.

12noon HCCR/IMVS Seminar: Tissue Specific Regulation of Cytokine Genes by Dr Peter Cockerill (Division of Human Immunology, HCCR). Verco Theatre, IMVS.

1.00pm Chemical Pathology Seminar: Development of a new HIV-based vector by Maria Fuller; Investigations into the biology of osteoblasts in Mucopolysaccharidosis Type VI by Krystyna Niedzielski. Seminar Room 1, 4th Floor, Clarence Reiger Building, WCH.

FRIDAY 11 SEPTEMBER

9.00am Crop Protection: Annual Postgraduate Symposium (Day 2). Charles Hawker Conference Centre. Closes 5.00pm.

12.45pm Dentistry Seminar: Report of 11th International Dental Morphology Symposium, Oulu, Finland by Grant Townsend and Lindsay Richards (Dentistry). Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

1.10pm Asian Studies Seminar: Research Proposal on Modern Chinese History by Joseph Askew (PhD student). Room 518, Ligertwood Building.

4.00pm Obstetrics & Gynaecology Seminar: The fetal adrenal medulla: an important oxygen sensor, or just along for the ride? by Mr Michael Adams (Physiology). Seminar Room, 6th Floor, Medical School, North.