

ADELAIDEAN

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NEWS FROM THE UNIVERSITY OF ADELAIDE

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Country teaching practice spreads to Maitland

NEARLY HALF of the GP services on the Yorke Peninsula are now being supplied by the University of Adelaide following the opening of a second teaching practice in the region.

The new practice has been established in Maitland following the success of a practice set up in Minlaton about 18 months ago.

The two practices have gone a long way towards easing the shortage of doctors on the Yorke Peninsula, which has a total of five General Practices.

Several experienced GPs work at both practices, with students of medicine and other health professions visiting regularly to observe and gain experience in rural medicine.

Maitland, like many country towns, has struggled to

replace one of two local GPs who retired several years ago after a long period of service to the town and surrounding areas.

Dr Jonathan Newbury, a Lecturer in the University of Adelaide's Department of General Practice, is one of three doctors who work at the practice, providing services equivalent to just over one full-time doctor.

"Maitland is a town that has been relatively 'under-doctored'," Dr Newbury said. "We have taken over a practice from a doctor who had been in the town for 40 years."

Replacing that doctor had been very difficult, with the town advertising in South Australia, nationally and internationally. This search had been fruitless, leaving the town of 1000—and a surrounding

population of about 5000—with only one local GP.

The Maitland community heard about the success of the University's Minlaton practice, which had been established by the University with assistance from the SA Health Commission.

Dr Newbury said the practice was so important to Maitland that the Maitland Hospital Board, the board of the Maitland Health Centre and the rest of the community had decided to support the practice from their own resources.

The practice gives students the opportunity to learn practical procedures such as suturing and X-raying, as well as experience in a small-town and rural environment.

—David Washington

Smart start to the year

SOME 14,000 University of Adelaide students will start the new academic year with an innovative new "smart" student card.

The University is the first in Australia to introduce "smart" card technology for all its students, who will be able to use the University of Adelaide Card to borrow books, gain access to buildings, use photocopiers and printers around the campus, and gain access to public transport concessions.

As well, from mid-year, they'll be able to use the Card in "smart" payphones, vending machines and retail outlets, both on and off campus, which are progressively being added to the Telstra Smart Card network in South Australia.

The Card contains a computer chip which enables users to store up to \$500 in an "electronic purse", as well as a Library barcode and an encodable magnetic stripe to be used initially for building access.

Vice-Chancellor Mary O'Kane said the introduction of the new Card enabled the University to keep a longstanding promise to provide students with a student card for access to University facilities and services and as an identification card for transport and other student concessions.

"The 'smart card' technology is an added benefit, and should provide additional convenience by enabling students to use a much wider range of facilities on and off-campus, quickly and easily," she said.

University of Adelaide staff will also receive "smart" cards which will include provision for library use, access to buildings, a phone card and the ability to use the card at "smart" card outlets. It is anticipated that the staff cards will be available from mid-year.

The issuing and ongoing management of the Cards will be handled by the new Card Centre, adjacent to the Security Office in Hughes Plaza, North Terrace Campus.

—Patricia Cree

From space station Mir, with love

ASTRONAUT and University of Adelaide graduate Dr Andrew Thomas is returning to Adelaide to visit his parents—without moving from his post aboard the Russian space station Mir.

With the help of videoconferencing technology at the University's Waite Campus, Dr Thomas is able to speak with his parents "face to face" while he orbits the Earth.

Despite being separated by thousands of kilometres, Dr Thomas and his parents, Mr Adrian Thomas and Mrs Elizabeth Thomas, who live in Adelaide, are able to see and speak to each other as though they are in the same room.

In 1996 Andy Thomas became the first Australian-born astronaut to take part in a Space Shuttle mission. Last year he was chosen by NASA for the Shuttle-Mir Research Program, and in January he began a four-month stint aboard Mir.

Because of the long time spent on board the space station, NASA provides a range of support services to its astronauts. This includes maintaining close contact between astronauts and their family and friends through frequent audio or video conferencing link-ups.

Dr Thomas requested that the University of Adelaide play a role in providing the videoconferencing link with his parents in Adelaide. NASA contacted the University, which was happy to oblige.

The bi-weekly family video conferences with Dr Thomas are being conducted at the Educational Technology Unit (ETU) facilities at the Waite Campus.

"We have state-of-the-art videoconference technology at Waite that allows this type of communication with a space station to take place relatively seamlessly. That is, by simply dialling two phone numbers," said ETU manager Mr Paul Finlay.



Andy Thomas. Photo courtesy of NASA

"The process behind the connection is highly complex when you consider that the video images originating on Mir undergo several changes in technical formats.

"Originating in analogue Russian Secam, it's converted to a compressed digital stream then re-converted to analogue as Australian PAL. The signals are beamed from Mir to Moscow, then up to another satellite to Houston, and then to a second satellite from Houston to Adelaide.

"The end result is a reasonably clear

picture and sound connection that allows Andrew to talk to his family face to face."

Mr Finlay said the video link between Adelaide and Mir was not only exciting, but "a great opportunity for the University of Adelaide to showcase its investment in modern communications technology".

Dr Thomas, who replaced American astronaut Dave Wolf aboard Mir, is expected to complete his mission on the Russian space station in May.

—David Ellis



I'm an engineer and I'm OK

Aunty's programming over the summer has been predictably down-beat, however for me there was a pleasant surprise last Friday night when I turned on the television quite late and found the famous Lumberjack song in a re-run of Monty Python. This song has a rather special place in my personal iconography as it was the hymn of my undergraduate days. (It was useful when hitching a ride to University to be able to answer the driver's polite query of "What do you do?" with a rousing chorus of "I'm a Lumberjack etc".)

As usual at this time of the year I have been thinking about undergraduate issues and with the entry period just coming to a close, delighting in the quality of the students enrolling at the University of Adelaide. Obviously I am very pleased with the calibre of the students in my own home Faculty of Engineering and particularly in the three degrees largely taught in Electrical and Electronic Engineering, my home Department.

The focus in our Strategic Plan is very much on the quality of learning and teaching and how it must be improved if we are to continue to attract excellent students, not only from South Australia but also from interstate and overseas. The Convener of the Academic Board, Jonathan Pincus, has pointed out in recent discussions that students learn a great deal from each other, and certainly one of the joys of undergraduate life for those studying for the professions (law, engineering, medicine, etc.) is that one is from the very start part of a group with members learning a lot from each other—in tutorials, laboratories and extra-curricular activities.

As we continue to explore the nature of quality learning and teaching we are made increasingly aware that we are not just educating students for particular professions. We must also equip them to take up new opportunities as they arise and to adapt to the inevitable changes which will occur throughout a working life. We are already starting to see that whatever their starting point, graduates may "end up" in jobs that are not directly related to their university education. Indeed one of our most high-flying graduates is an example of this and one might easily adjust the Lumberjack song for him as follows:

I'm an engineer and I'm okay
I sleep at night and I float all day
I studied mech., I passed exams
I learned a lot in bars
Adelaide my alma mater
I wave to it from the stars.

Some of us of course became Engineers after all the fun of studying a generalist course first. I am always grateful for the education I had in Science (admittedly at another University). It gave me an excellent grounding for what has turned out to be quite a diverse career. But a long way from my Lumberjack youth, I'll spare the chorus as it applies to me (Yes, it does start "I'm an engineer and I'm VC").

MARY O'KANE

Mathematics education



At the end of 1997 you published some remarks of Professor Carey ["Maths study shows cause for concern", 1 December, 1&3] where he argued that sound mathematics teaching should encourage skill development and should be taught by teachers who have been trained in mathematics, and that school mathematics syllabuses should not be watered down because some students find them hard.

I have no quarrel with any of these points, although the cost of implementing the second requirement is probably more than our society is willing to pay.

What I had hoped that Professor Carey would also say was that there is a real skill in teaching mathematics which requires more than merely a sound

knowledge of mathematics.

Over the last 25 years the discipline of mathematics education has established a significant understanding about how mathematics is learned.

This University has a Department of Education, part of which is concerned with helping teachers to understand these principles so that their teaching may be of more value.

It is certainly true that there are many people who consider that the discipline of mathematics education has nothing to say at all about teaching, and believe that it is rooted in ivory tower philosophising.

It is true that mathematics education does have its lunatic fringe, but this view probably rests more within a distrust of anything to do with academic study of education than with mathematics education in particular.

I can only observe that time and again I observe student mathematics teachers having more trouble than they need have because they have not internalised the sorts of principles which mathematics education has developed. We do have something useful to offer.

The worm is turning and the Department of Education is once more in the ascendant (maths teachers don't need to know about mixed metaphors) as the desperate need for teachers becomes more and more apparent.

Perhaps now the time has come for this University to develop a way of integrating Professor Carey's important points with those of the educationists who also can contribute to improving the quality of teaching in all our educational institutions.

John Truran
Education

COMMENTARY

ENTRY, OFFERS AND ADMISSION

One of the important parts of the University year concerns the making of offers and admitting students.

by Professor Doug McEachern
Deputy Vice-Chancellor

In the review we want to have a look at the ways we go about attracting students, identifying recruiting both year 12 and others, and about the effectiveness of the

This activity dominates at least part of our lives from December through to February. It is an important part of what happens in the University, securing the right students for the right courses and in sufficient numbers to see that we meet our profile obligations to the Commonwealth Government, and hence secure one of the core parts of our funding.

In 1998, there was the opportunity to enrol Australian fee-paying students in undergraduate courses for the first time.

This year the process of making offers and enrolling students has gone very smoothly. The cutoff scores for our courses were high, and for admission to Engineering placed the University of Adelaide at the forefront of Australian universities for quality intake. In 1998 the University sought to reduce the level of unfunded load, and to a considerable extent has succeeded in doing so.

The Schools Liaison Committee, the various faculties with their outreach programs, and all who were associated with the effort to identify and recruit students are to be congratulated for their efforts.

Over the last few years concern has been expressed inside and outside of the University about our entry policies. This has not been a concern about our ability to fill our load. At no time has this been in question.

Nonetheless, there has been concern with the ability of the University to fulfil its strategic goal of being able to attract and hold the best students. Some have raised questions about the complexity of the University of Adelaide's entry requirements and its course offerings.

Further, the University has experimented with alternative methods of entry for Medicine (in which an interview and written test have been combined with achieving a specific high TER), Dentistry and Law.

The University now is holding a Review of University Entry. Professor Gordon Stanley, up until the end of January the Chair of the Higher Education Council, is to conduct the review, and we are pleased to get the services of such a well-informed and effective person.

alternative modes of entry into the University.

As an institution we need to consider the implications of our high quality intake. How do we need to shape and reshape the learning experience for these students so that they will be enthusiastically involved in their own learning while at the University of Adelaide, and be willing to seek out learning opportunities throughout their lives?

Having a high quality intake is a good thing, but just as important is the quality of learning that we create for these students who are willing to work with us in our many and varied degree programs.

TERMS OF REFERENCE:

A review of entry requirements and procedures for the University of Adelaide will inquire into the following:

1. the University's entry policies and their ability to generate an appropriate student profile for the University in terms of:

- the academic quality of students
- the provenance of students
- the University's commitment to access and equity.

2. the extent to which the University's entry policies and practices enhance or diminish the University's competitive edge in the attraction of quality students state-wide, nationally and internationally, to the University's general and professional courses.

3. resources: the physical and professional infrastructure available for successful implementation and management of the University's entry policies and procedures.

The review will make recommendations on:

- entry policies and practices which will attract high quality students to the University's courses from within the State, nationally and internationally
- strategies for the development of State, national and international awareness and recruitment programs
- resource measures which might be taken by the University to improve administration of the University's entry policies and procedures.



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New international students welcomed

MORE THAN 560 new international students are currently being introduced to life at the University of Adelaide in a busy program organised by the International Programs Office (IPO). It is the largest international student intake ever for the University.

Among them is the first large cohort of just under 200 students from the twinning program with the Sepang Institute of Technology (S-I-T) in Malaysia.

The two-week "Settling in Successfully (SIS)" program from 9 to 20 February has been coordinated by IPO's Vivien Hope and is based around a welcome centre in Bonython Hall. There, students will have access to a wide range of information on living in Adelaide, family support services, health and counselling, student services and faculty information, language and learning services, accommodation and a workshop on "Aussie ways".

They will also enrol during the two week program, with the exception of the S-I-T contingent, who were enrolled in Malaysia late last year.

The Vice-Chancellor, Professor Mary O'Kane, will officially welcome the new students on Friday 20 February, followed by lunch in Bonython Hall.

Social events include a multicultural food fest, an excursion to the Barossa, a Valentine's Day Dance, a Bush Dance and a dance at Lincoln College.

Students have been invited to attend the final dress rehearsal of the Theatre Guild's production of *Slum Clearance* in Bonython Hall on 19 February, and are also being introduced to the wide variety of artistic activities that will be available during the Adelaide Festival and Fringe from 20 February.

Apart from the S-I-T students, the group includes over 50 students in the Study Abroad program, almost 50 on exchange programs, 20 in the Foundation Studies Program, and some 30 AusAid students. There are over 460 undergraduates and 70 postgraduates, with all faculties represented. The largest contingents are in Economics and Commerce, Engineering and Arts.

Malaysia accounts for more than 50% of the new students, with a



IPO's Vivien Hope (left) talks with Architectural Studies graduate Renee Jen Jen Lee and her father Henry Lee (also an Adelaide Architecture graduate) at the In-Country Re-Entry evening. Photo courtesy of Vivien Hope.

sizeable group also coming from the United States. Other countries with more than 4 students are Canada, China, Germany, Hong Kong, India, Indonesia, Japan, Korea, Singapore, Sweden, Thailand, UK and Vietnam.

But the work of the International Programs Office doesn't stop at the welcoming stage.

Last month, IPO also organised a pilot "In-country Re-entry" program, in conjunction with Adelaide University Alumni (Malaysia) Bhd, the organisation of Malaysian alumni of the University.

IPO's Vivien Hope went to Malaysia for the seminar at the Petaling Jaya Hilton which was aimed at helping new graduates make the cultural adjustment to returning home again after their time in Australia. The seminar also focused on job opportunities.

Honours Economics graduate Joanna Teh, who is now working for an Australian company named

Invetech in Malaysia after a period as a research officer at the Australian High Commission in Kuala Lumpur, organised a group of younger alumni to give a talk to the new graduates and their families about their own experience of settling back home and how they landed their first job.

Vivien Hope said the innovative program had been welcomed by the 34 new graduates who took part. Because the event took place during Ramadan, it was followed by a Buka Puasa (break fast) dinner.

"This helped us attract some of our Malay graduates, but was also enjoyed by the Chinese students," Vivien Hope said.

Apart from its value to the new graduates, the pilot program is seen as a means of developing a strong core of active younger graduates within Adelaide University Alumni (Malaysia) Bhd.

—John Edge

Enrolment trend is a 'healthy sign'

ENGINEERING COURSES at the University of Adelaide have attracted very high quality students this year with cut-offs in most courses above 90.

The Vice-Chancellor, Professor Mary O'Kane, said engineering cut-offs were very high by national standards. She said the cut-offs for the Bachelor of Science and its named degrees had risen significantly.

"The trends in engineering and science are very healthy signs for South Australia and the University of Adelaide," Professor O'Kane said.

The Bachelor of Engineering (Computer Systems) had a cut-off this year of 97.2. The combined degree of Bachelor of Engineering (Computer Systems)/Bachelor of Arts had an extraordinary cut-off 98.8.

Other engineering courses were also in very high demand, including 93.4 for the BE (Electrical and Electronic), 93 for the BE (Mechatronic), 92.8 for the BE

(IT&T), 92.6 for the BE (Chemical) and 91.6 for the BE (Civil).

One of the University's new degrees—the Bachelor of Science (Biomedical)—had a very high cut-off of 96 and the BSc had a cut-off of 72.6, considerably higher than the cut-off for Science at the other two South Australian universities.

Medicine and Dentistry entered the second year of the new admission arrangements which take into consideration TER, an admissions test and an oral assessment.

On the basis of January enrolments, the proportion of country students going into Medicine and Dentistry is 19%—up from only 4% two years ago. Forty per cent of students enrolled in the January round were from interstate.

The Asian currency crisis is likely to adversely affect international student enrolments. However, the influx of students from the

University's twinning project with the Sepang Institute of Technology means the number of new international student enrolments will be up in 1998.

At the time of publication the University had made 56 offers of full-fee undergraduate places to Australian students. There had been 12 acceptances.

Water degree first

The University of Adelaide has joined with SA Water and the Australian National University to set up a new Masters degree in Infrastructure Management—the first of its kind in Australia.

The collaborative project, formalised late last year, aims to provide high quality postgraduate education for the burgeoning water industry in South Australia and the Asia Pacific region.

NEWS IN BRIEF

TOP ADMINISTRATOR FOR HELPMANN ACADEMY

The Helpmann Academy has appointed Mr Greg Andrews as its new Executive Director.

Greg Andrews joins the Academy from Queensland, where he was Executive Director of the Queensland Office of Arts and Cultural Development (OACD). Over his ten years with that department he was involved with extensive planning of programs and procedures including the preparation of the Queensland Government's Cultural Statement, which mapped directions for that government to the year 2001.

While at the OACD he was involved in the establishment of two new festivals in Brisbane and the introduction of a broad range of initiatives to encourage the development of Film Queensland and the Pacific Film and Television Commission.

The Chair of the Helpmann Academy, Mrs Judith Roberts, said the Academy was delighted to have secured an administrator of Mr Andrews' calibre.

"We are confident that Mr Andrews will prove to be the person we need to take the Academy to its next important stage, which is aimed at consolidating the development of the tertiary arts training sector in this State."

HONOUR FOR FORMER STAFF

The Department of Civil & Environmental Engineering is honouring three former academic staff—Professor Frank Bull, Dr George Sved and Dr Robert Culver—by naming rooms after them.

The ceremony will be held on 27 February at 5.30 for 6.00pm in Room S127, Engineering South. The Vice-Chancellor, Professor Mary O'Kane, will attend. Former students and colleagues from other Departments are invited to attend the ceremony. RSVP to Berni Colledge (8303 5135) by 20 February.

POSTMODERNISM IN PRACTICE

The third biennial Postmodernism in Practice conference, founded and convened by Dr John Kaye from the Psychology Department, will take place in the Art Gallery of South Australia from 25 February to 1 March.

The conference, focusing on cultural and political studies and contemporary developments in Psychology, has attracted 80 abstracts on a wide variety of topics from gender to health studies.

Keynote speakers include Australian and international scholars in cultural studies and critical social psychology. Among them are the founder of discourse analysis as a research method, the Open University's Margaret Wetherell, leading Venezuelan political psychologist Maritza Montero, feminist, educational writer, and author of *Mastery of Reason*, Valerie Walkerdine from the University of Western Sydney, and the originator of the critical position in psychology, John Shotter from the University of New Hampshire in the United States.

The conference has been organised in association with the Adelaide Festival, whose director, Robyn Archer, will deliver the opening address. The conference dinner also includes a theatre package and associated talk for a major Festival attraction.

Registration packages are still available (\$180 to \$405) through Dr John Kaye: tel 8303 5693, fax 8303 3770.

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Rock lobsters next on research menu

SOUTH AUSTRALIA'S multi-million dollar rock lobster industry has turned to the University of Adelaide to help solve a common, and costly, problem.

More than 2600 tonnes of rock lobster is caught each year in South Australia. The industry generates \$100 million in export revenue, making it the most valuable seafood industry in the State.

However, up to 10% of lobsters caught in pots are killed or damaged by predatory octopus, costing the industry about \$5 million each year.

In a bid to reduce the problem, the SA Rock Lobster Advisory Council has awarded University of Adelaide PhD student Mr Danny Brock a \$20,000 scholarship.

Mr Brock, from the Department of Environmental Science & Management (Roseworthy Campus), will investigate ways of reducing the predation of octopus, possibly through a repellent or deterrent of some kind.

Executive officer of the SA Rock Lobster Advisory Council Mr Roger Edwards said there would be many benefits to the industry should the research be successful in excluding octopus from pots.

"There will be less damaged lobsters, which will add value to the industry, and there will be more survival of immature animals in pots, which will have positive benefits for the robustness of the lobster breeding population," he said.

Another PhD student from Roseworthy, Mr Mike Harte, will also receive industry funding over three years to develop a computer support system for lobster fishers.

The computer model will be an integrated software package designed



Mr Terry Moran (L), one of the directors of the SA Rock Lobster Advisory Council, congratulates PhD candidate Mr Danny Brock on receiving the scholarship. Photo courtesy of SA Rock Lobster Advisory Council.

to aid decision-making, helping fishers determine where and when a catch should be sold. The computer support system will calculate fuel costs, travel times and profit on catch for various ports.

"The Rock Lobster Advisory Council recognises the importance of supporting education, in particular science, and ensuring that there are new scientists and advisers coming through the industry," said Mr Edwards.

"We believe the University of Adelaide will provide a new dimension and

lateral approach to rock lobster research."

Both scholarships have already received support from lobster fishers, who have offered to provide boats, tank space for marine research and their time to help the students carry out their studies.

The industry money was also welcomed by the students' supervisor, Mr Greg Van Gaans, who said it would provide a much-needed boost for research.

—Anne Lucas, David Ellis

Agricultural Business, Wine Marketing changes

THE BACHELOR of Agricultural Business and Diploma of Wine Marketing courses have been overhauled this year, with a shift for students and staff to the North Terrace and Waite campuses, and the closure of the Department of Agricultural Business.

The Faculty of Agricultural and Natural Resource Sciences and the Department of Commerce are now jointly responsible for the Bachelor of Agricultural Business.

Those enrolling in the degree in 1998 will take the same foundation subjects as Bachelor of Commerce students, and will complete a major in agricultural business in their second and third years. From 1999, a new degree, Bachelor of Commerce (Agribusiness) will be offered.

The Diploma of Wine Marketing is now attached to the Department of Horticulture, Viticulture and Oenology. The changes follow an external review of the Department of Agricultural Business and an evaluation of the options for the teaching of agricultural business and wine marketing at the University.

Head of the Faculty of Agricultural and Natural Resource Sciences, Professor Malcolm Oades, said the location and size of the Department meant it was not able to take full advantage of synergies with other Departments within the Faculty, and with Commerce and Economics.

As well, students clearly preferred to undertake their studies in the city.

Three staff of the former Department are now attached to Horticulture, Viticulture and Oenology; two have relocated to Agronomy and Farming Systems; and two have left the University.

The change process in 1998 will be overseen by the former Department Head, Mr Hugh McClelland, who will also take on a range of roles within the Faculty.

The moves are in keeping with the University's plans to develop the Roseworthy campus as a centre for excellence in teaching and research for farming systems in dryland agriculture, and the animal industries, particularly animal nutrition, to complement the activities of the Pig and Poultry Production Institute of SARDI.

Australia's animal industries—mainly sheep and cattle—produce some 60 per cent of the nation's export earnings from agricultural commodities.

Professor Oades said the integration of outstanding education and research into all agricultural and environmental management practice had been, and would continue to be, a key factor in ensuring that these important industries maintained their competitive advantage.

"With the Waite campus now well recognised internationally for its work in plant science, soil science, viticulture and oenology, our intention is to use that successful strategy to build similar strengths in dryland agriculture and animal production at Roseworthy," Professor Oades said.

—Patricia Cree

Sale of the Century challenge

TELEVISION QUIZ SHOW Sale of the Century is searching for the University of Adelaide's sharpest student minds.

The popular program is planning a "University Challenge" and an audition will be held at the North Terrace campus in early March.

The audition—which will consist of 50 questions similar to those heard on the show—will be used to narrow the field to 10 students. The top 10 will be re-tested and interviewed by Sale of the Century before the final participants are chosen.

The selected few will compete against university students from across Australia for prizes and television glory (and a little bit of reflected glory for the University).

Auditions are open to all students of the University of Adelaide. Interested students should register by writing their name, course, address and telephone number and placing it in the special box in the Student Information Office.

For further information contact David Washington on 8303 5414.

Warming to research

SIXTY-FIVE STUDENTS recently used much of the summer vacation to gain a taste of research by spending six or more weeks working alongside staff in the University's research program.

The projects were spread across a wide range of disciplines, including work as disparate as developing equipment for Cosmic Ray studies, the impact of the 1895-1903 drought on rural production, architectural visualisation of urban environments, developing vaccine antigens for traveller's diarrhoea, gelling of wax oil in pipelines, blood pressure and temperature variations in pregnancy and applications of gene transfer in plant molecular biology.

The Deputy Vice-Chancellor (Research), Professor Ross Milbourne said the University's Summer Research Scholarship scheme offered undergraduates and honours students who were considering the possibility of research studies and careers, an opportunity to experience being part of an ongoing research team in their area of interest.

Professor Milbourne welcomed the high participation in the scheme, since this should lead to an increase in the number of able and enthusiastic research students.

The Scholarships pay an allowance, jointly funded by the Deputy Vice-Chancellor (Research) and Academic Divisions to help cover the cost to the students of forgoing vacation employment.

Professor Milbourne expected that the Summer Research Scholarships would be offered again in the 1998/99 long vacation.

—Peter Franklin

Dinosaur lecture a hit with kids

DINOSAURS became a little less scary and a bit more realistic during a recent lecture given to school students as part of the University of Adelaide's Siemens Science Experience.

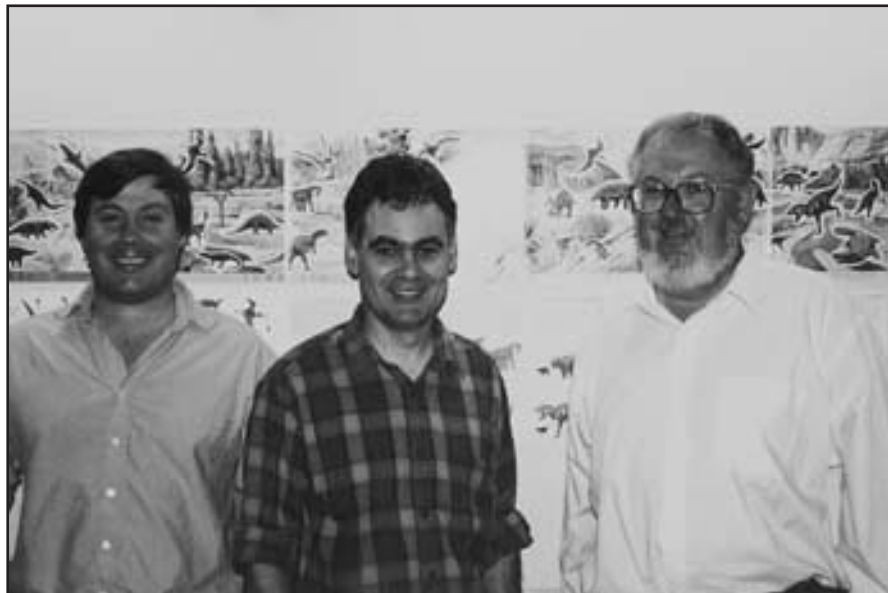
The Science Experience is a 'summer school' run each year for South Australian kids who are interested in science, technology and engineering.

A highlight of the three-day event was a lecture called "Truth Is Stranger Than Fiction", an examination of the science behind the blockbuster movies "Jurassic Park" and "The Lost World".

More than 100 students packed the Mawson Lecture Theatre to attend the session, which was hosted by three lecturers from the University of Adelaide.

Geneticist Professor Rob Saint discussed the idea of using dinosaur DNA samples to reconstruct a living dinosaur. Although theoretically possible, he said it was virtually impossible to do so from dinosaur blood taken from mosquitoes, as shown in "Jurassic Park", because the DNA sample would be too small and in poor condition.

Velociraptors, their attributes and habits were the focus of the second part of the lecture, by palaeontologist Dr Richard Jenkins. He said there was more evidence than ever before to support the theory



L to R: Dr Chris Daniels, Professor Rob Saint and Dr Richard Jenkins. Photo: David Ellis

that raptors were bird-like in nature, with recent discoveries showing some raptors nested close together in colonies.

The final part of the lecture, on dinosaur physiology, was given by comparative physiologist Dr Chris Daniels. According to Dr Daniels, the dreaded Tyrannosaurus Rex did not stomp and roar in real life—it was more likely to have tiptoed and gurgled. He also explained the nature of dinosaur droppings and why it was unlikely that a dinosaur could stand on its

hind legs without fainting.

Video clips were used to help illustrate the various science fact and fiction elements of Steven Spielberg's films, and the lecture included displays of dinosaur bones, teeth, claws, and mosquitoes trapped in amber.

A huge hit with the kids, there are now plans for the lecture to be shown to a wider audience later in the year, possibly as part of National Science Week.

—David Ellis

Business education program spreads its wings

THE ENTERPRISE Education Group at the University of Adelaide's Thebarton Campus is gearing up for an even busier time as a result of its successful bid to offer the Graduate Diploma and Certificate in Business Enterprise as courses that now can be taken externally via the Open Learning Agency of Australia (OLA).

Enquiries to date have come from the ACT, New South Wales, Queensland, Victoria and South Australia, said the Co-ordinator of the University's Enterprise Education programs, Ms Joanne Pimlott.

"Feedback we are receiving from people making enquiries indicates they are attracted by both the content of the courses as well as the flexibility that studying off-campus provides prospective students, several of whom are in business and find off-campus

study more accessible," she said.

"We are in the business of providing students with opportunities to undertake research and learn about the practical application of knowledge in areas such as entrepreneurial management, particularly as it applies to the new/innovative enterprise, small business creation, innovation, managing human resources, financial management, business planning and so on."

Ms Pimlott said the Enterprise Education Group's courses promoted the importance of holistic management, creativity in business thinking and innovation.

This meant they needed to be flexible and innovative, not only in terms of the curriculum content but in the total package—the teaching and learning process, mode of delivery and

so on—offered to students.

"We are committed to offering a program of study that is both intellectually challenging and relevant to the diverse situations that students interested in new enterprise creation and small business management are in," she said.

Around 15 students will be commencing the on-campus Graduate Diploma or Certificate.

These include five graduates starting a business through the Business Initiatives from Graduates (BIG) scheme, and two graduates working for a company under the GILES program.

The remainder is comprised of both recent graduates and those in employed and self-employed situations looking to gain a qualification in this area.

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ADELAIDEAN INTERVIEW

ASSOCIATE PROFESSOR LOKE WING HONG

A HISTORIC and unique joint venture between the University of Adelaide and the Ngee Ann Kongsi launches into operation for the first time this month, with 20 students undertaking the University's MBA program at the new Ngee Ann Adelaide Education Centre, based in Singapore.

The centre is a 50/50 partnership of the University and the Ngee Ann Kongsi, which is the welfare and education foundation of the Teochew Chinese community.

In Adelaide recently to discuss the current and future plans of the Ngee Ann Adelaide Education Centre was its Singapore Director, Associate Professor Loke Wing Hong. Dr Loke spoke to *Adelaidean* writer David Ellis:

LOKE

The interest in MBA programs in Singapore always has been very high, and there are now more than 25 different MBA programs. So competition is very stiff. But there are very few programs that offer quality education.

The proposition is that the University of Adelaide will provide a quality MBA program, rather than just another MBA—good lecturers, good support for students to learn—and when the students finish their studies they will find it useful. They will have high regard for the quality of their education.

We have 20 students for the first intake, and that speaks very well for the program. I think we've had a very good head start, perhaps due to the years of planning that have gone into this. Most of the students are Singaporeans, and there is one from China. We hope in subsequent intakes to draw students from Malaysia, Indonesia.

ELLIS

All the courses at the centre are being taught by Adelaide lecturers. Is the distance between Adelaide and



Associate Professor Loke Wing Hong: "joint venture is a very solid one". Photo: David Ellis

Singapore a problem?

LOKE

Many other programs have worked far apart, and distance can be a problem. One solution is to narrow that distance by using high technology, such as videoconferencing, so students in Singapore can still be in touch with the lecturers here in Adelaide.

One unique aspect of this program is that each lecturer from Adelaide comes to Singapore twice for a module. With most of the long-distance MBA programs in Singapore, the lecturer comes once. With our program there's much more interaction between the lecturers and the students.

We are exploring the possibility of modules or residential intensives in Adelaide, so that students from the centre come to Adelaide and do part of

the course here instead of being in Singapore. So although they take nearly all the course in Singapore, there are study opportunities in Adelaide. This way the students can get to feel and smell and hear Adelaide, and I think that's important.

ELLIS

What plans are there for the further development of the centre?

LOKE

The plan is to not only run the MBA program but also to draw other interesting and feasible courses into Singapore, such as economics, biochemistry, computer science, and all that. So any of the programs in use in Adelaide could be transplanted to Singapore as long as it's feasible. This is the first part of our vision for the centre.

The other is to go for non-award kinds of programs, such as management executive programs, workshops—quality programs that do not lead to any particular degree.

We are looking at other options, such as using the centre as a base for research, consultancy work and creating spin-offs into private businesses. There might also be a lot of Asian students in Adelaide who would now think about doing a Masters degree in Singapore. They would still do their degree with the University of Adelaide, but they would be doing it in Singapore where there are lots of job opportunities.

Similarly, some Singaporean students might want to study at Adelaide University, and we can be an information hub for that. If students ask about Adelaide, we can provide them with information and be a conduit to draw students into the University.

Enthusiasm here in Adelaide is very high, and the joint venture with the Ngee Ann Kongsi is a very solid one, so we are looking at a very promising future.

Inaugural prize for top Physiology student

SAMANTHA YATES is the inaugural winner of the Honours Prize in Physiology, worth \$500, established by the Department of Physiology to recognise the achievement of its highest ranking Honours student.

Ms Yates was the highest achiever of the 1997 Physiology Honours students with her thesis "Differential Induction of C-FOS in wounded fetal rat". She will be presented with the prize at a ceremony in March.

Samantha Yates went to Golden Grove High School and originally started her University career in Electronic Engineering. "I quickly found that it wasn't for me!" she said. For contrast, she turned to the Biological Sciences where she studied Physiology with Microbiology and Immunology and discovered her true interest.

She was a vacation scholar in 1996 working at the Child Health Research Institute. "And that," she said, "got me interested in wound healing and wanting to do work in that area." She was fascinated by the way that fetal skin does not scar and inspired by the idea of how an understanding of this could impact

on the management of postnatal and even adult wound healing. She admits to doing "quite well in third year" and thought she would have "a good chance at Honours".

Her ambition is to be a research scientist. For the moment she is embarking on a PhD on "Characterisation of the early molecular components of fetal wound healing". She has received an Australian Postgraduate Award and will be studying with Dr Tim Rayner in the Department of Surgery at the Queen Elizabeth Hospital.

Honours Convenor Dr Mike Nordstrom said, "The standard of the 16 students in the 1997 Honours class was extremely high and I am very pleased to be offering the award to Samantha whose work in all aspects of the assessment was outstanding."

The establishment of the award was a "positive step by the Department to recognise outstanding academic achievement", said Dr Nordstrom, who also foreshadowed the Department's intention of seeking the interest and support of local industry to enhance the Prize's prestige.

—Jane Delin



Samantha Yates. Photo courtesy of Physiology Dept.

Colin Hocking: Adelaide education set scene for international career

SCIENCE GRADUATE Colin Hocking (pictured) believes that a University of Adelaide education is a sound basis for internationalism. He has lived and worked in Sweden for forty years, and swears he owes his success in moving in international scientific research to his formative years at Adelaide. On a recent visit to Adelaide he explained where his career took him after Adelaide and offered some thoughts on his old University.



After attending both the Adelaide High School and Prince Alfred College, I started my university career studying Commercial Law in the evening and working as a bank clerk during the day. I was given special permission to study at the University although I had not yet turned 16 years of age.

Curious as I was, I did not wish to follow the 'white collar' line: I wanted to become a chemist and got myself a position as laboratory assistant at the Waite Institute. This meant that it took longer to graduate; in fact, I was enrolled as a student from 1942 to 1950, when I received my BSc (1st Class Honours).

My first two published papers covered antibiotics in 1950 and penicillin in 1951.

In 1950 I was awarded a Rotary Foundation Fellowship and did some research under the supervision of the

Nobel Prize winner Peter Debye at Cornell University.

Subsequently, I studied at Uppsala in Sweden, where I met and married my wife, a psychologist. We moved to Melbourne, where I worked at ICI, but returned soon to Sweden.

At that time, the deep-freeze technique for preserving food was just being developed. I was invited by the Swedish company Electrolux to start up a process development section. As a specialist on the use of polymers, I began work on introducing the new plastic foam insulation into the Electrolux plants in Sweden, England, Germany, Holland and Turkey.

In 1970, when the environmental

movement was taking form, I was appointed Head of the Environmental Laboratory at the Swedish Packaging Research Institute, and a very active program was gotten under way. Sometimes people consider packaging as unnecessary but forget that without packaging, modern food and goods preservation and transport optimisation would be impossible. Our studies on packaging have served as a model for other industries.

I believe that there is a place for optimism on environmental matters, provided the rapidly developing industrial nations also respect good environmental practice.

The University of Adelaide is unique because of its placement so near to other cultural institutions on North Terrace. It has been my good fortune to attend Cornell University in America, Cambridge University in England, Gottingen University in Germany and Uppsala University in Sweden. None of the campuses of those universities are placed in such a widespread cultural complex as the University of Adelaide.

Please keep all cars, except those belonging to the disabled, off the campus. Even Nobel Prize winners, Chancellors and Presidents should park at a distance and walk to their respective departments.

And please make sure that at least you recycle your paper!

Australia Day Honours to our alumni

CONGRATULATIONS to the following alumni of the University of Adelaide who were recognised in the Australia Day Honours list.

Companion in the Order of Australia (AC)

Professor Grant Sutherland, Department of Paediatrics, for service in human genetics research and the human genome project and for his contribution to discovery of importance of fragile chromosomes in inherited diseases.

Officer in the Order of Australia (AO)

Mr Richard Vincent Ryan AM, for service to the NT Aboriginal community through education, employment, health and tourism programs.

Member in the Order of Australia (AM)

Dr Robert John Coulthard (MBBS 1958), for service to the Lions Sight First Foundation in Australia and internationally since 1965.

Emeritus Professor David George Galliver (MA aeg 1966), for service to music as a research scholar, singer, conductor and Elder Professor of Music at the University of Adelaide, 1966-83.

Dr Peter Stuart Hetzel (MBBS 1948 MD 1952), for service to cardiology in cardiac investigation and the development of open heart surgery at the Royal Adelaide Hospital.

Mr Alan David Hickenbotham (BSc 1949), for service to housing and urban development as founder and managing director for over 40 years of the Hickenbotham Group, and to the community.

Emeritus Professor Barry Boettcher (PhD 1966), for service to biological science and education as Foundation Professor, Biological Sciences Department, University of Newcastle, and to reproductive immunology.

Professor Janice Clare Reid (BSc 1968), for service to cross cultural public health research and the development of health services for socio-economically disadvantaged.

Professor Max Norman Walters (MBBS 1954) for service to medicine and education in pathology, to medical

research and to the community.

Dr Martin Wesley-Smith (BMus 1968 MMus 1971) for service to music as a composer, scriptwriter, lecturer, presenter of multimedia concerts and member of Australia Council boards and committees.

Member in the Order of Australia (Military Division)

Colonel Neil McLay Wilson (BTech 1969 BSc 1974 MAppSc 1978) for exceptional service and contribution to the Army Reserve in South Australia.

Medal of the Order of Australia (OAM)

Mr John Thomas Brewer, for service to the community through Southern Cross Care (formerly Southern Cross homes), Knights of the Southern Cross, Seniors On Line and Neighbourhood Watch.

Ms Nancy Margaret Day (BA 1980), for service to the promotion of bicycle transportation and cycling as recreation through the Bicycle Institute of South Australia and Bicycle Federation of Australia.

Mr Neville David Hannaford (BMus 1971), for service to music through the Brighton Secondary School and the Australian Music Examinations Board.

Dr Vivian Lee Hawke (MBBS 1946), for service to medicine general practice in the Semaphore area for more than 50 years.

Miss Joyce Hecker (BA 1955), for service to the community through the Friends of Walkerville Library, Neighbourhood Watch and the Blind Welfare Association.

Mr Bryce Wesley Saint (BA 1968), for service to children through the Safety House Association of South Australia.

Dr Ronald Werner Bade (MBBS 1952), for service to the aged community of West Wimmera.

Dr Peter Ferguson Brownell (Roseworthy 1943 BAgSc 1951), for service to science in plant physiology, to education and to the community.

Mr Ian Laurie Hickenbotham (Roseworthy 1950), for service to the winemaking industry.

ALUMNI NEWS

AFUW SA INC BEGINS 1998 PROGRAM

This year, AFUW SA Inc will hold its General Meetings at the University of Adelaide's Waite Campus.

The first of these will be an afternoon tea meeting at Lirra Lirra Cafe, featuring a talk by women scientists, on Tuesday 24 February, 2:00pm - 4:30pm.

For information about subsequent General Meetings, please contact Margaret Messenger on 8201 2876.

The AFUW SA Inc Breakfast Club will hold its first meeting on Monday 2 March at 7:15am in the Students' Training Restaurant, Adelaide Institute of TAFE, at the corner of Currie and Rosina Streets in the city. The speaker will be retired Chief Inspector Catherine Finnegan (SA Police).

Cost: \$12. Bookings: Judith Francis 8297 3826 or email Judith.Francis@flinders.edu.au, by the Thursday prior to the meeting.

Those wishing to join AFUW SA Inc should contact the Membership Office, AFUW SA Inc, C/- Mail Room, University of Adelaide SA 5005.

SCIENCE AND MATHEMATICAL SCIENCES CHAPTER AGM

Members of the Science and Mathematical Sciences Chapter are advised that the Chapter's Annual General Meeting will be held at 5:30pm on Wednesday 25 February, in the Science Faculty Meeting Room, level 5, Oliphant Building.

Elections will be held for the Chapter Committee and for the position of Convener. Nominations may be made from the floor or advised in advance by contacting Adrienne Eccles, Alumni Office, University of Adelaide SA 5005.

All members of the Chapter are urged to attend.

SURVEY OF WOMEN SCIENCE GRADUATES

Jane Carey, a PhD student from the University of Melbourne, is conducting a national survey of women science graduates 1930 - 1960, and is appealing for help from readers of the *Adelaidean*.

The project is concerned with the experiences of women who graduated from, or were on the staff of, the science faculties of Australian universities. While women made up a considerable proportion of science graduates during the thirty years from 1930 - 1960, they remain largely absent from most histories of Australian science. Jane Carey is hoping to document the nature and extent of women's contribution to science in this period and to outline the opportunities open to them in the field. The study will encompass all areas in which women science graduates were employed, as well as their experiences outside the work force.

Ms Carey said the survey questionnaire is quite comprehensive and covers a wide range of areas from family influences, to school and university study, to experiences in the work force.

"I am sending it to as many women science graduates as I can identify," she said. "The responses will remain confidential and will only be viewed by myself and my supervisors."

Women science graduates who would like to take part in this survey are invited to contact Jane Carey directly. Tel 03 9482 7114, email j.carey1@pgrad.unimelb.edu.au, or write to 66 McKean Street, North Fitzroy Vic 3068.

PERFORMING ARTS

ON CAMPUS

Czech play speaks to audiences

"AS A YOUNG THEATRE DIRECTOR I relate to the sensation of feeling at times that my future lies in the hands of administrators and bureaucrats", says Adelaide University Drama graduate Chris Drummond. That's why Vaclav Havel's play *Slum Clearance* speaks to him and, he hopes, will strike a responsive chord in audiences.

Chris Drummond has come "home" from Sydney to direct *Slum Clearance* for the University of Adelaide Theatre Guild as part of the Adelaide Fringe.

It's the first production for the Guild in its sixtieth anniversary year, and will take place amid the gothic splendour of Bonython Hall—an ideal venue for a play in which architecture becomes the vehicle for an exploration of the themes of idealism, freedom and creativity.

Vaclav Havel is a poet, playwright, philosopher and politician—he is the President of the Czech Republic—and *Slum Clearance* is infused with the irony and the passion of a man who has seen his country move from Communist repression to a new identity with the splitting of Czechoslovakia into the Czech and Slovak Republics.

Slum Clearance is about a team of architects who are struggling to fulfil their responsibilities to the authoritarian government of their country.

Commissioned to redevelop a beautiful old medieval village, the architects respond to the job in differing ways. Some of the older architects are happy to do the bidding of the powerful but shadowy figures of government, while others hate what they are being asked to do but continue because they know through experience that resistance is useless.

One young architect refuses to give in to the visionless demands of his superiors and finds himself in deep water.

The characters are also trapped in a web of love triangles and lustful yearnings which grow more comic and more complex as the story unravels.

The play and its venue have attracted the interest of a group of Adelaide University architecture students, who are constructing a scale model of an

old castle and surrounding buildings which will feature prominently in the set.

"Architects walk the finest of lines between the discipline of function and the necessity of free artistic expression," Chris Drummond says.

"Inherent in their work is the ongoing internal negotiation between the two opposing aspects. And unlike a painter or sculptor, an architect's work requires enormous amounts of money to be realised and thus invites an invasion of external opinions from the financing parties.

"Autonomy of vision is a rare and unrecognised domain for most architects."

Chris Drummond says that we have the perfect example in Australia of this tension—the Sydney Opera House and the saga of Utzon's struggle with the council of the day.

"The building is a marvel, but it is not the full vision of the architect; it is an inferior interpretation created to please the holders of the purse strings."

Chris Drummond says the core of *Slum Clearance* is its concern with the obstruction of passionate expression.

"Every person in this play is deeply passionate about something that is out of their reach. Whether it be a self-imposed obstacle or an obstruction at the hands of another, this play is charged with the emotion of passion under pressure," he said.

Chris Drummond completed his BA (Theatre Studies) in 1992 and until last year worked on various projects in Adelaide.

Since 1996 he has worked in Sydney as a script reader for Griffin Theatre, a playwrighting director for the Australian National Playwrights' Centre (ANPC), and as a dramaturg and tutor for the NIDA (National Institute of Dramatic Arts) Playwrights' Studio.

• *Slum Clearance* runs Saturday to Thursday (including Sunday) in Bonython Hall from 21 February to 5 March at 7pm. Bookings (\$15) at FringeTix. (21 February by invitation only.)



Chris Drummond outside Bonython Hall. Photo: David Ellis.

• Radio 5UV will again cover the Adelaide Festival and the Fringe; a special program guide will be published on 20 February. Festival coverage will be focused in drive time from 4:30pm weekdays, starting on Thursday 26 February. Most of the breakfast programs will be promoting Fringe activities.

ACCOMMODATION

AVAILABLE: Furn house, suit visiting postgrad student. Cycling distance to Uni. Avail from Apr - Nov 98. \$150 pw. Ph 8369 2220.

AVAILABLE: Adjacent Nth Adelaide with 2.5 br, air cond, heating, carport, shed and low maintenance garden, very close to bus and train. Avail now. \$145 pw. Ph Tania 8230 4054 or email: <tvuong@scagops3.telstra.com.au>

BURNSIDE: 3 br house, sep lounge, dining, garage & carport. \$180 pw. Ph Teresa 8332 8233 or 8332 6906 (ah).

GLEN OSMOND: 3 br house, fully furn, no pets, lawns mowed, close to transport & walking to Waite. \$200 pw + bond. Ph 8379 4869.

GLENSIDE: 3 br house, lots of storage, air cond, garage and carport, walking to Burnside Village. \$175 pw. Ph 8407 9684 or 8223 1431 (ah).

GRANGE: 2 br unit opposite beach with carport, close to transport & shops. Avail 23 Feb. \$120 pw. Ph 8303 5278 or 8344 5566 (ah).

HOUSESITTER: Avail to care for your home. Academic, tidy & reliable. Ph 8303 5748.

LOIRE VALLEY: Self contained flat in small market town of Ligueil, suitable for 2-4 people. Lge bed-sitting rm, bathroom with shower &

toilet, kitchen/dine with balcony. Opt extra twin-bedded rm and bathroom. Ph/fax Mrs Vera Taylor 0011 33 2 4759 9833 or John Edge 8303 4030.

MODBURY: Non-smoker wanted to share 3 br house situated in quiet area, walk to shops & transport. Refs required. \$75 pw + exp. Ph 8265 3854 (after 6pm).

NORTH ADELAIDE: Fully furn, spac apartment with air cond, lift, caretaker, security, parking in quiet area. \$295 pw. Ph 8333 2518 or email: <ifnf@acslink.aone.net.au>.

NORTH ADELAIDE: 2 br cottage avail 3 mths Apr - June 98. Restored & renovated, fully furn, dishwasher, gas heating, parking. \$250 pw + utilities. Ph 8267 2350.

NORTH ADELAIDE: Federation style 2-storey townhouse, one of a pair, 3 br (b-ins), main with w.i.r., lge 2-way bath, 2 wcs, ducted air, balcony, l/u garage. Avail late Feb/early Mar - length/rent neg. Ph/fax 8265 3485.

PROSPECT: 1 room in house with lounge, cellar, Foxtel, fireplaces, semi-furn. \$80pw. Ph Peter Healy 8342 0707.

ROBE: "Outrigger Surf" - 3 br, well appointed cottage with stunning coastal views, sleeps 8, linen service, convenient location. Bookings 8251 5223 or 0417 848 986.

ADELAIDEAN CLASSIFIED

SECOND VALLEY: Holiday house, new/modern, comfortable, great views and close to beach, well located. Ph 8379 6510.

VISTA: House with 3 br, 2 bathroom, 3 wc, study on .5 acre block, country surroundings, only 20 mins to city. Ideal for entertaining. \$200 pw. Ph Jodie 8204 7064 or 8396 9096 (h).

WANTED: Visiting US academic with wife & 2 small children require furn accomm from mid July 98 - mid July 99. Ph Dr Kautsky 8201 2360 or 8271 4277 or email: <jarka@ist.flinders.edu.au>.

FOR SALE

BIKES: New cond girls 12.5", \$85. Child's 16", \$95. Mountain bike, 20", 5 spd, alloy wheels, \$165. Collapsible 3 spd bike, \$225. Child seat & carrier, \$95. Helmets, childrens, \$25. Ph 8358 6569.

CAMIRA: SL JE 87 sedan, silver, 5 spd, EI, air, towbar, ex cond in/outside, reg til 30 June 98. VNB 070. \$4,950. Ph 8266 5570 (after 7pm).

COMPUTER: Intel pentium 100MHz, 14" monitor, Cirrus Logic 1 Mb video card, 1 Gig HD, 8 spin CDROM, 16 Mb

RAM, 3.5" & 5.25" floppy drives. \$950. Ph Alan Pollnitz 8303 6616 or 8278 6654 (h) or email: <dwarf@senet.com.au>.

FORD FALCON: XE 1984, dual fuel, auto, air, 126,000km, exc cond. UBS 753. \$3,999 ono. Ph Nathan 8356 1122 or 8251 4062 (h).

MAZDA: 626, 1981, silver, 5 spd, very clean, no rust, good engine, new brakes & tyres, exc cond. VJK 540. \$2,000. Ph 8297 1848 (after 8pm).

MISC: Baseball Bat - 26" Easton, suit 8-11 yo. Double-sided A frame blackboard, 3-8 yo. Boy's bike, 7-10 yo. Ph Dianne 8379 6510.

MISC: Wardrobe, 2 door, solid wood, \$55 ono. Food processor, small, \$30 ono. Pedestal fan, new, \$45. Lowboy, 4 drawers, \$40 ono. Kenwood cordless kettle, \$45. Plus more. Ph 8266 5570.

MISC: Bicycle, girls, 10 spd, standard size, good cond, \$90 ono. Student desk, adjustable height/slope, white finish, \$90 ono. Ph 8364 1610.

MISC: Wardrobe, painted, sliding louvre doors, approx 1075 x 1960 x 600mm, \$60. Heater, pentagon oil-filled column with 24 hr timer, \$70.

Floor fan, \$20. Ph Ellen 8303 7310 or 8297 8464 (ah).

MOVING SALE: Panasonic VCR, as new. TV, 14" Samsung. Single & double beds, baby gear and more. Ph 8303 4117 or 8332 4300 (ah).

PANASONIC: UF-S1 fax with phone, answering machine & photocopier (4 in 1). \$376 with one year manufacture warranty. Ph 8371 4192.

TELEVISION: AWA, colour, 24", push button, VHF/UHF, very good cond. \$115. Ph 8371 4192.

TOYOTA CAMRY: CS 1990, auto, sedan, power steer, air, immobiliser, low kms, new tyres, immac. UZO 688. \$12,000 ono. Ph Jodie 8204 7064 or 8396 9096 (h).

TOYOTA COROLLA: 1984, 5 spd manual, very good cond. \$300.

DEPARTMENTAL

TENDER: Holden Commodore VS utility, white, auto, air, towbar, approx 40,000km, VVO 657. Inspection by appointment, ph David Mathew 8303 7868. Tenders in a sealed envelope marked Tender No AFS98/1 to the Manager, Agronomy & Farming Systems, Roseworthy Campus, Roseworthy SA 5371 by 5pm Wed 18 Feb 98.

TENDER: Toyota Hilux Dualcab, 4 WD, diesel, white,

manual, air, bull bar, winch, driving light, VWI 753, approx 42,000km. Inspection 24 Feb, 9am - 2pm, rear Williams Bldg, Roseworthy Campus, ph Keith Cowley 8303 7814. Tenders in a sealed envelope marked Tender VWI 753 Rep to Laboratory Manager, ES&M, Roseworthy Campus, Roseworthy SA 5371 by 4pm Fri 27 Feb 98.

WANTED

IBM: Compat, at least 486 DX4, VGA. Ph 8303 4117 or 8332 4300 (h).

WOODEN CHAIRS: With arms & lift-out seats for seminar rm. Prepared to buy or swap for modern, armless chairs. Ph 8303 5247.

MISCELLANEOUS

BABYSITTING: Reliable, responsible, references, own transport. Ph Bec 8262 5134.

GERMAN SHEPHERD: Beautiful adult male seeks loving home. Mostly well behaved, suit family/person with doggy experience. Ph 8337 9079.

WORD PROCESSING: \$3.50 per page @ 250 words per page, 2000 words = \$28. Thesis formatting of WP on disk. After hours service; city location. For guide to costs and other services ph Anne Every 8212 6869 or 8415 7866.