

Adelaide is hub for 'virtual physics library'

Up to the minute world physics research can be accessed faster and cheaper as a result of a recently established mirror server at the University of Adelaide of an innovative Internet site in Los Alamos, New Mexico.

Considering the World Wide Web was invented by a group of high-energy physicists at CERN (the European Laboratory for Particle Physics), it is not surprising that the discipline should be maximising its usage.

The site contains most research

conducted in physics since 1991, and is up-dated daily.

Dr Tony Williams, Deputy Director of the University's Special Research Centre for the Subatomic Structure of Matter, describes the site as a "virtual library for all physics research" which has proved to be a "fantastic, wonderful tool". He estimates that 80% of all current physics research conducted in the world goes on the site.

The site was originally set up in 1991 by physicist Paul Ginsparg of the Los Alamos National Laboratory. The idea generated both interest and fund-

ing and quickly expanded to become an official service with full-time staff in 1995.

Physicists over the world electronically send their latest findings to the Los Alamos site where they are processed and broadcast each night to remote sites in Brazil, China, France, Germany, Israel, Italy, Japan, Russia, South Korea, Spain, Taiwan, the UK, the US and now Australia.

The next day, these 'pre-prints' may be accessed by other physicists, researchers and students from their closest web site, which for those in

Australia and south east Asia, is now at the University of Adelaide.

Professor Tony Thomas—Director of the University's National Institute for Theoretical Physics and the Special Research Centre for the Subatomic Structure of Matter—posted a research paper on the archive on a Wednesday and caught a plane to Japan. He arrived on Friday to be greeted by a physicist from South America and another from North America, both with his paper in hand and ready to argue.

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Economists propose coal market reform to solve greenhouse gas problem

Nations around the world could get on with the job of seriously tackling greenhouse gas emissions if they acted on a new solution being put forward by economists at the University of Adelaide and ANU.

Professor Kym Anderson, from Adelaide's Centre for International Economic Studies (CIES), and Professor Warwick McKibbin, from ANU, said much of the disagreement about approaches to greenhouse gas emissions stemmed from the economic cost to the nations involved.

Their alternative approach—which they suggest would not only reduce carbon and methane emissions but would also generate national and global economic benefits—is to cut subsidies and

trade barriers on coal.

"Subsidies and trade barriers have encouraged the excessive production of coal in Europe and excessive consumption of coal in developing countries," said Professor Anderson, who is the director of the CIES in the University of Adelaide's School of Economics.

"What's really needed is a reversal of those policies, which will allow us to overcome the environmental damage associated with coal mining and burning.

"If these policies were reformed, the resulting gains in economic efficiency and reductions in carbon dioxide emissions would be substantial."

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West Committee Secretary to join University in key role

A senior Commonwealth education executive manager, Ian Creagh, is to join the University of Adelaide in the top level management role of Director, Student and Staff Services.

Mr Creagh is Secretary and chief policy adviser to the Higher Education Review Committee (West Review).

In his 11 year career with the Department of Employment, Education, Training and Youth Affairs, Mr Creagh has had executive management responsibilities in system-level higher education planning and policy development and implementa-

tion, including senior management roles in the Higher Education Research Branch, Development Branch and Student Assistance Operations Branch.

He holds a Master of Arts degree from University College, London, a Graduate Diploma in Education and a Bachelor of Arts (both University of New South Wales).

At the University of Adelaide, Mr Creagh will be a member of the Vice-Chancellor's Committee with responsibility for student services, student administration and human resources.



Aboriginal Masters student makes history

The first Aboriginal student to be awarded a Masters degree in Psychology graduated in Bonython Hall on Monday 13 October.

She is Yvonne Clark, who began her studies at the University of Adelaide in 1988 as a part-time student in the Bachelor of Arts degree.

Ms Clark initially studied part-time in order to care for her newborn baby, and then proceeded to full-time study through her Honours and Masters degrees.

She completed her Masters thesis on Issues of the Stolen Generation under the supervision of Dr Martha Augoustinos.

Currently, she is employed as a psychologist with the Department of Family and Community Services at Woodville.

Ms Clark said she hoped to be able to blend the mainstream skills she had acquired through her studies with the particular insights that came from her Aboriginal experience, bringing an Aboriginal focus to the issues she dealt with in her work.

She said the best advice she could offer other Aboriginal students was to keep at it and "hang in there".

Before her graduation ceremony, Yvonne Clark was honoured at a luncheon hosted by the staff of Wilto Yerlo—Aboriginal and Torres Strait Islander Programs—at the University of Adelaide, attended by members of her family, senior Department of Psychology staff, and members of the wider University community.

Wilto Yerlo was also celebrating the graduation of Jared Thomas, who was awarded a Bachelor of Arts degree at the same ceremony.

Mr Thomas praised the example of Yvonne Clark in gaining her Masters degree, and commented on the sense of greater confidence he now felt among Aboriginal students at the University because of the support systems that have been put in place.

The number of Aboriginal students at the University of Adelaide has grown to 130 this year—a significant development since the first intake of 10 students entered through the Aboriginal Access Scheme in 1989.

—John Edge

Above: Yvonne Clark (second left) with family members at Wilto Yerlo. Photo: John Edge



The roar of the tiger

It was a great pleasure to welcome Professor Syed Jalaludin, Vice-Chancellor of Universiti Putra Malaysia, to the University of Adelaide as the speaker at our ninth commemoration ceremony. Below are excerpts from his speech—I couldn't have said it better myself!

MO'K

Education should no longer be considered as an end in itself but a key to achieving sustainable human development. It is a platform which provides and facilitates knowledge creation and transfer. The education which the university provides is the means to empower people to become agents of change. It plays an important role in the economic and social development of the country. It also plays a pivotal role in the training and emergence of future leaders and social and economic entrepreneurs.

Education today must be "learning without frontiers", unrestricted by barriers of age, time, space, poverty or cultural differences. It should be a global, all-round, life-long education. Education must be a continuous process of improving one's knowledge and skills, of cultivating one's creative potential, of bringing about personal development and building relationship among individuals, groups and nations. An ideal education system should result in the creation of a knowledge-based society where people are more creative, innovative, productive and most of all socially responsible. ...

The information highway has profoundly affected higher education. Successful universities are those which can develop systems for rapid access and transfer of information. ... Extensive use of information technology will usher in a whole new era of teaching and learning at universities. It enables universities to become borderless campuses and to develop new education delivery systems, which are not only cost-effective but also easily accessed. ...

The traditional role of universities as an educational centre is no longer appropriate. Universities have over the years evolved to become centres for technology innovations by undertaking market-driven research which contributes to wealth creation. However, only a very special kind of university with a specific set of linkages to industrial and commercial development can assume the role. It is already acknowledged that the industries of the future will be highly dependent upon knowledge and information. The link between the university and industry is not only a source for new ideas but it also represents the most dynamic business concept which will enable nations and regions to take the quantum leap to become dynamic growth centres. The university-industry link will lead to synergy and provide an innovative milieu whereby the scientific achievements and new ideas emanating from the universities' laboratories can be rapidly utilised and commercialised by the industry. ...

The present globalisation will inevitably lead to networking and strategic alliances among universities, institutions and centres. Obviously, there is a need to build strong links between Malaysian universities and their counterparts in Australia, Asia and the Pacific Rim with a view to contributing more to bilateral relationships. Regional networking can be a catalyst for designing transnational education systems which will produce internationally knowledgeable graduates; foster mutual respect and understanding of other cultures; increase the level of interaction between foreign faculties and students; secure international recognition for the universities; democratise education; and derive economic benefits from teaching and research.

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GUEST COMMENTARY

University Sport - past, present and future

Sport and recreation at the University of Adelaide have been provided historically by various elements within the University. In 1896, the Boat Club, Lawn Tennis Club and Lacrosse Club

by
Dr John Setchell
President, Sports Association

formed the Sports Association of the University of Adelaide. The aims of this Association were to further the interests of amateur sport and recreation at the University and to ensure appropriate management of the member clubs. The Association has grown to 40 clubs and an active membership of 3500. The University took on responsibility for maintenance of the playing fields in North Adelaide and at Waite and, more recently, at Roseworthy. The Centre for Physical Health (CPH) was established in 1978 and developed out of the former Physical Education department. A major dilemma posed by this system has been a lack of coordination and planning.

Over the last ten years there have been several investigations of how sport and recreation should be managed—these include the LRM report of 1989 and the Jacobs report of 1995, both of which suggested an "arms-length" body to manage a consolidated sport and recreation function on campus. Subsequent discussions between key stakeholders identified difficulties in achieving this consolidated approach with a major difficulty being that these discussions were held in a "planning vacuum" with no University policy on sport available for direction. The Jacobs report acknowledged the role that sport and recreation play in enhancing the quality of University life, and as part of the ongoing review process the Sports Association decided to research the provision of sport and recreation in the major Australian universities and in the British university system. It was considered important to understand the role that sport plays in existing "great" universities so that advice could be provided to the University of Adelaide community as it develops its plans to be a great world university over the next 25 years.

My study tour of UK universities was co-ordinated by Dr Tom Hudson from the University of Surrey and visits were made to the University of Surrey, the University of Bath, the University of Exeter, the University of Wales Institute Cardiff and to the United Kingdom Sports Council in London. Staff from academic Sports and Exercise physiology departments, elite athlete programs, recreation centres and University Sports Associations were interviewed, amongst whom were Olympic gold medal athletes, current European champions and national directors of sports programs.

In the area of sport, English universities can be divided into two main groups:

1) The 80 traditional and "red-brick" universities: and 2) the 70 polytechnic colleges recently granted university status. The first group has, at least, good facilities, with some having outstanding facilities. On most campuses there is a range of sports fields (hockey, soccer, rugby), indoor facilities (gymnasium, climbing walls, swimming pools, tennis courts) and sporting activities ranging from aerobic classes for the beginner, to the activities of their associated sporting clubs and on to academic programs for world class elite athletes. Sport is an integral part of the structure of university life, with Wednesday afternoons being set aside as lecture-free time for the ongoing program of inter-University sport competitions! Funding is derived from university sources, student contributions through "sport fees", some funds from National Governing bodies of certain sports and money from the National Lottery through the UK Sports Council.

The second group of universities has a sporting culture that is less developed than the first group and ranges from non-existent, to involvement with local community activities, and on to a few universities with facilities comparable to the traditional group. The facilities currently provided by the University of Adelaide would compare more closely with one of the better Polytechnic Universities rather than with members of the traditional group.

The structure of our Sports Association is similar to that of the traditional group of universities. However, we

have a greater degree of student management and control than in the UK, where the sporting clubs are sometimes the poor cousins of "university"-run activities. This is probably a result of many

universities having a Director of Sport or Sports Development Officer to coordinate the use of university-owned facilities and to manage their gymnasium/sports hall services (to maximise external use and revenue raising). An organisation called the British Universities Sports Association (BUSA) coordinates inter-University sporting competitions and the involvement of particular teams/athletes in the World Student Games. The BUSA is comparable with the Australian Universities Sports Federation (AUSF). A separate organisation, the British Universities and Colleges Physical Education Association (BUCPEA) is involved in the development of physical education within universities and has a key role in the development of sports policies.

Sport and recreation are closely linked with core university activities in UK universities, with programs such as elite athlete academic scholarships, sports bursaries, development of sports and exercise science teaching and research, integration of faculty and sport and development of sports programs in conjunction with National Governing bodies existing at many universities.

The British Government is involved in the development of policy relating to sport and sport promotion and in areas where those policies apply directly to the tertiary education sector. In July 1995, a report was written by the Bannister Committee for the Department of National Heritage titled "Sport Raising the game". In the introduction, John Major wrote: "My ambition is simply stated...to re-establish sport as one of the great pillars of education alongside the academic, the vocational and the moral."

The report documents policy statements relating to schools, sporting clubs, the Further and Higher Education sector and to the development of the British Academy of Sport, and includes policy recommendations in relation to universities. This report acknowledges the large number of UK sports team members who were, or had been university students, with an estimate that 50% of the UK team for the 2000 Olympic games in Sydney will have university backgrounds.

It has been stated that some of the key determinants of a great world university are that they have a strong belief in themselves, a true sense of identity and a desire of their students to belong to the university community. Many of the great universities are residential campuses with a large proportion of students living on campus with access to excellent on-campus community facilities, social settings and, most importantly, sports and recreation facilities, all of which their students value highly. Within the Group of Eight Australian Universities, all but the University of Adelaide have student residences on campus and excellent sports facilities on campus.

It is my view that, if the University of Adelaide is to achieve its vision for 2022, plans for determining the future of sport and recreation need to be developed by the University to demonstrate commitment to the importance of sport and recreation in University life. The main elements of any such plan would include the following:

1. A University policy statement on sport and recreation, incorporating key features of the strategic plans of the Sports Association, CPH and Parks and Grounds section.
2. A decision to move away from the "arms-length" consolidated model of sport management as this approach distances the responsibility for the provision of sport from the University community and senior management.
3. Agreements with the University and the Student Union to provide guaranteed funding for a 3-5 year period with agreed mechanisms to negotiate extensions. Key issues relating to resources will include maintenance of playing fields, negotiations of leases, the future of the CPH and agreements on insurance liabilities. In addition, consideration could be given to discussing the establishment of a "sport fee".

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Annual Bach Festival under way



The Elder Conservatorium Wind Ensemble will officially open the 1997 Bach Festival on Tuesday 21 October with two magnificent arrangements of *My Heart is Filled with Longing* and *Passacaglia* and *Fugue in C Major*. Outstanding young violinist Sally Cooper will complete the program with a performance of Bach's *Sonata in C Major*.

The annual Bach Festival has been one of the Conservatorium's most popular events for almost twenty years since its founding in the late 1970s by the distinguished violinist, Associate Professor Beryl Kimber.

Originally designed to give her students the opportunity to perform some of Bach's violin masterpieces, it has since expanded to include performances by Conservatorium staff and visiting artists on

a wide range of instruments.

Highlights this year include performances by Clemens Leske Snr (piano), Louise Dellit (flute), Semyon Kobets (violin), Rosalind Martin and Keith Hempton (voice), the Pro Canto Singers, harpsichordists Lesley Lewis and Glenys March with the Elder Baroque Ensemble, and the Adelaide Youth Chamber Orchestra—as well as performances on violin, cello and piano by some of the Conservatorium's most talented students.

- The lunch hour concerts will be held each weekday in Elder Hall from Tuesday 21 to Friday 31 October at 1.10pm. Admission is \$2 (\$1 for students), and tickets are available at the door. Detailed programs are available from the Conservatorium or by contacting the concert office on 8303 5925.

Search on for Adelaide's new Chancellor

A Chancellorial Search Committee is working to develop a list of up to three candidates for appointment to the position of Chancellor.

The present Chancellor, Mr Bill Scammell, has announced his retirement with effect from the end of the November meeting of Council.

On Friday 10 October, Council endorsed a list of qualities, attributes and skills required of a Chancellor, which was developed by a Committee chaired by the Senior Deputy-Chancellor, Mr Jim Bettison, after submissions from and consultation with members of the University community and others.

Among the qualities, attributes and skills identified by the committee were the following:

- understanding of and support for the purpose and function of universities, particularly and preferably the University of Adelaide;
- high community standing, including credibility and a level of interpersonal skills that promotes

networking and facilitates relationships of the University to the rest of the world, and between elements of the University itself;

- an ability to appreciate the complexities and differentiation inherent in the management, policy and administration of the University and to assist in the resolution of domestic disputations and causes;
- the ability to back and support the Vice-Chancellor without perceived partisanship;
- availability for often time-consuming "at call" consultation and preparedness to travel locally and overseas;
- the ability to chair and conduct meetings, to elicit a response to challenge from the University at large, to be a good sounding board and in turn challenge other University leaders.

It is hoped that a new Chancellor could be appointed at the November meeting of Council. However, it is seen as being more important to "get it right" than to hasten to an appointment.

The Search Committee invites the participation of the University community in identifying a suitable appointee. Any member of the University community is welcome to propose the names of people who they believe meet the criteria to any member of the committee.

The committee comprises Mr Jim Bettison, Deputy Chancellor Ms Janine Haines, Academic Board Deputy Convener Professor Robert Saint, and Council members Mr John Keeler (Law), Ms Jill Thorpe (PGSA) and Ms Kate Spargo.

Suggestions should be made in the first instance to any member of the Search Committee, who will be able to assist in exploring and assisting in development of the proposal, and transmitting it to the Committee.

This procedure will greatly assist the Committee in its work, and will ensure that the possibility of misinformation and embarrassment is minimised.

—Mr Jim Bettison
Senior Deputy Chancellor

Universities should lead the way to 'borderless world'

Universities could and should lead society in learning to live in a borderless world, according to the Vice-Chancellor of Universiti Putra Malaysia, Professor Dato' Dr Syed Jalaludin Syed Salim.

"Universities should be at the forefront of human civilisation—if universities can't cooperate across national boundaries, who can?" he said.

Professor Jalaludin said further collaboration between universities in the Asia-Pacific region would open up new possibilities of doing more and larger research programs.

He also foreshadowed greater collaboration in teaching, where regional linkages could be used to offer transnational programs and encourage greater student mobility.

Professor Jalaludin was in Adelaide to address graduates and their families at the University of Adelaide's ninth Commemoration ceremony for 1997.



Professor Mary O'Kane and Professor Syed Jalaludin outside Bonython Hall. Photo: Pat Cree

During his three day visit to Adelaide, Professor Jalaludin visited the Waite and Thebarton campuses and met with Heads of Division.

A Memorandum of Understanding on collaboration between Universiti Putra Malaysia and the University of Adelaide was signed by Professor Jalaludin and Adelaide Vice-Chancellor Mary O'Kane.

After the signing, Professor O'Kane said the University of Adelaide had a great deal in common with UPM, in particular its focus on teaching and research in the biological sciences.

"We also share similar philosophies about the future of higher education and of our institutions," she said.

The tenth Commemoration ceremony was addressed by incoming Deputy Vice-Chancellor (Research), Professor Ross Milbourne.

The ceremonies, both on Monday, 13 October, were among the last official duties for Chancellor Bill Scammell, who retires as Chancellor in mid-November.

—Pat Cree

The News IN BRIEF

5UV WINS TWO HEALTH AWARDS

University Radio 5UV 531 AM maintained its excellent record in programming quality when it won two awards at the seventh annual State MBF Health and Well Being Awards presentation recently.

The award for Best Documentary or Special in print, TV or radio was won by the program *Keep Yourself Alive* produced by Tony Ryan and Dr Graham Martin. The program was part of a multimedia series on youth suicide prevention.

The award for Best Series on print, TV or radio was won by Ray Thomas and the Carers Association which, in conjunction with 5UV, had produced a series highlighting the achievements of carers in this state, *The Carers Program*.

Keep Yourself Alive had previously won the Archbishop's Award and was a finalist in the Peter Grieve Award for Medical Journalism.

DOWNER TO SPEAK ON WHITE PAPER

The Minister for Foreign Affairs, Mr Alexander Downer, will address the SA Branch of the Australian Institute of International Affairs (AIIA) in the Council Room of the University of Adelaide on Friday 24 October at 1.00pm.

Mr Downer will speak on the topic of the recently published White Paper entitled "In the National Interest: Australia's Foreign and Trade Policy".

AIIA welcomes new members and any interested person is invited to attend Mr Downer's talk. Because of limited seating, bookings should be made to AIIA president Mary Maxwell on 8379 1735 or fax 8379 3401.

The White Paper is available on the Internet at <<http://www.dfat.gov.au/ini/wp.html>>.

HUMAN ANATOMY COURSE

A new Graduate Certificate in Human Anatomy is to be offered by the University of Adelaide next year, enabling students to develop professional expertise in human anatomy.

The full fee-paying course is aimed at postgraduate students who are interested in pursuing careers in medical or health-related professions, or as anatomy lecturers at university level.

Offered through the Department of Anatomical Sciences, the one-year graduate certificate course is believed to be the first of its kind in Australia. For more information phone the department on (08) 8303 5998.

BIOLOGY PRESIDENT

Professor Ian Falconer from the Department of Clinical and Experimental Pharmacology has been elected President of The Australian Institute of Biology.

The Institute represents the biology profession in Australia, providing communication between biologists, speaking on behalf of professional biologists to other organisations and to government, and conferring on its Fellows, Members and Associate Members a status similar to that of members of other professional institutes.

Professor Falconer's research is in the field of toxic cyanobacteria and their effects on human and animal health. He is a project leader in the CRC for Water Quality and Treatment.

New wine course meets growing market need

The University of Adelaide has launched a new Graduate Diploma in Wine Business—the first program of its type in Australia.

The program has been designed to meet a growing need for highly skilled business professionals in wine and associated industries to maintain Australia's competitive advantage in the global environment.

"This is the first postgraduate course in Australia directly applied to business management in the wine industry and covering the unique features of the industry and global wine trade," said the University's Dr Larry Lockshin, who is Director of the Australian Centre for Wine Business Management.

"The University of Adelaide has an international reputation for programs in oenology and viticulture and this new postgraduate qualification in wine business will complement those programs by focusing on the business side of wine management," he said.

The Graduate Diploma in Wine Business was launched by the Vice-Chancellor, Professor Mary O'Kane in the foyer of Elder Hall on Tuesday 14 October.

Professor O'Kane said the introduction of the new course signalled the University's commitment to wine business as an area of expertise.

"The graduate diploma effectively brings together two of South Australia's great economic strengths—education and wine," she said.

"These two industries underpin the State's economy and culture: the new diploma is an indication and a recogni-



Leading winemaker Mr Brian Croser. Photo: John Edge

tion of the interrelationship between these industries."

The Vice-Chancellor said the Graduate Diploma in Wine Business would not only educate managers for one of the State's key industries, but also pave the way for the establishment of a postgraduate research program in wine business.

"This will enhance the University's position as a leading research organisation in all aspects of the wine industry," Professor O'Kane said.

"There is a national market for this course and we believe there is an international market to be tapped."

Special guest at the launch of the Graduate Diploma was leading winemaker Mr Brian Croser, Executive Chairman of Petaluma Limited, and President of the Winemakers' Federation of Australia.

Mr Croser said the world now confronting Australia's winemakers required very different skills to those which had been needed when he first trained in growing grapes and making wine.

"Languages, the rules of international commerce, foreign exchange management, global sourcing, branding and marketing strategies; these are some of the knowledge and skill demands of the new era of successful wine companies based in Australia," Mr Croser said.

He said the competitive advantage of the business management and marketing skills resources of Australian wine company headquarters had to be maintained and improved or we risked control of our wine businesses drifting off-shore to the detriment of the Australian economy.

"In this new era, to successfully maintain a highly branded, highly profitable Australian wine industry, both government and industry needs to support and fund education and research in wine business," he said.

"The government has an obligation in this area because of the huge 'public good' that accrues for the tourism industry and to the image of Australia through the 120 million bottles of wine branded Australian, consumed over-

seas each year."

Mr Croser said it was highly appropriate for the University to have taken the decision to create the Graduate Diploma in Wine Business to service the needs of the national wine industry.

"Equally important is the leadership role the University of Adelaide is playing in the South Australian community by enhancing the economic effect of the one industry in which South Australia has a natural and sustainable dominance," he said.

The Graduate Diploma in Wine Business can be completed in one year full-time or on a part-time basis.

It is suitable for both grape and wine science graduates who are seeking knowledge on the management side of the business, and commerce and economics graduates wanting to acquire skills in wine business management.

"The program is not only available by conventional delivery at the Waite campus, but most of it can be taken by external study through flexible learning materials," Dr Larry Lockshin said.

"This makes it attractive to students in rural areas and other States."

The new course is one of a group of postgraduate programs in Wine Business Management now available at the University of Adelaide.

• For further information, contact Alister Richards on 8303 7360, fax 83037104, email: <arichards@waite.adelaide.edu.au>.

Advertisement

Adelaide is hub for 'virtual physics library'

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This, says Professor Thomas, is what cutting-edge competitive science is all about—a totally international activity.

Pre-prints (now sometimes known as E-prints) are not to be confused with published papers in scientific journals which have passed the tests of peer review—a highly regarded process used in scientific research since the time of Isaac Newton.

Peer review involves submission of new research findings to specialist journals whose editors send the pre-prints to two or more experts in the field to advise on the work's fitness for publication.

It can be a painful scrutiny, but one that Dr Williams says is the "life blood of the academic world".

Dr Williams predicts that the next 5 to 10 years may see the introduction of a refereeing process as part of the web site. This may well lead to the redundancy of expensive specialist journals—revolutionising the accessibility of peer reviewed research.

Keenly aware of the problems caused by its yearly culling of journal subscriptions, the University's Barr Smith Library views the physics web site as a step towards finding other cost effective ways to provide information.

The Library met half the cost of the required equipment—a Pentium Pro PC with 9 Gigabytes of hard drive costing around \$6,000.

Mr Steve Thomas, Senior Systems



The Library's Mr Steve Thomas (seated left) points out the new web site features to the Vice-Chancellor, Professor Mary O'Kane, Professor Tony Thomas, and Dr Tony Williams (seated right). Photo: John Edge

Analyst at the University's Barr Smith Library was instrumental in negotiations with the Los Alamos National Laboratory to set up the mirror site.

"The Barr Smith Library has closely followed trends in providing information for many years.

"We are always looking for alternatives to paper and the Internet is heading in the direction of revolutionising the way academic information is

accessed," Mr Thomas said.

Mr Thomas is not aware of any similar system in other disciplines. However, he describes the concept as an "elegantly simple idea" which the library is keen to explore with others.

In the meantime, if you are interested in perusing the latest in front line physics research—the address is <<http://xxx.adelaide.edu.au>>.

—Rebekah Washington

'Global conscience' to shape research into major health problems

Cholera, salmonella, herpes, whooping cough, measles and Hepatitis B—they might not be as 'newsworthy' in Australia as Ebola virus or the so-called 'flesh-eating' streptococcus, but worldwide these infections afflict many more millions of people each year than their highly publicised counterparts, often with fatal results.

It's for this reason that the University of Adelaide's Department of Microbiology & Immunology spends much of its time and resources researching health problems such as these, rather than tackling what the media might dramatise as possible threats to public health.

In 1995 staff in the department who work in collaboration with the Infectious Diseases Laboratories, IMVS, decided against conducting research into the latest hepatitis virus to be discovered, Hepatitis G virus—a move that was initially questioned by journalists until they discovered that Hepatitis G poses no currently known risk to people's health.

So how are decisions made about what to research and what not to?

"One of the issues, but certainly not the overriding one, is global disease burden caused by a particular infection," said the head of Microbiology & Immunology, Professor Chris Burrell.

"I suppose we take a global perspective or responsibility—we're quite prepared to research a disease which might not be terribly prevalent in Australia, but worldwide it might be of major significance. It also depends on how well explored a particular area of research is, what the opportunities are for making significant gains, and the particular expertise of the researchers involved."

Professor Burrell said with this 'global conscience' in mind, researchers at the University of Adelaide are tackling some of the world's biggest health problems.

"About 300 million people worldwide are carriers of Hepatitis B. A quarter of those with a life expectancy of 20 years or more, will most likely die from the effects of this infection. So that's a strong motivation for researching a disease like that, and we do a lot of work on Hep B."

"Another large research group here, led by Professor Paul Manning, is working with cholera, salmonella, and other food-borne bacteria. Again what they're looking at is not just whether or not this impacts on the person in suburban Adelaide, but the global impact of disease and deaths due to cholera, salmonella and various other intestinal infections."

Other areas of research include: herpes virus infections (because most people have some form of latent herpes virus in their bodies), whooping cough (which causes about 40 million cases each year), and measles.

"These are major problems throughout the world, resulting in a great deal of suffering for hundreds of millions of people. Some of these diseases and infections also cause, or have the potential to cause, serious problems in Australia," Professor Burrell said.

The decision to research one disease over another is related to decisions about which particular infections should have priority for public health and preventive measures.

Again, Hepatitis G is a good example. Although at this stage it is believed not to pose a threat to human health, Professor Burrell said only time will tell if the decision not to work on Hep G was a good one.

"It's always possible that 10 years from now Hepatitis G could turn out to be a very rare cause of, for example, multiple sclerosis. If that happened we'd have many people, especially lawyers, saying: 'You guys in 1997 could have developed ways to stop spreading this virus and you did nothing about it!'"

"We would then say: 'Well, there was no evidence at the time.' And the counter-argument would be: 'Surely with any infection there's always a possibility, however remote, that it may be doing harm in some way we don't know, so why didn't you do something about it?'"

"But in the end all we have to go on is the evidence we have at the time, and right now there's no evidence to suggest that Hep G will cause anyone any harm."

Professor Burrell said one of the



Professor Chris Burrell. Photo: David Ellis.

main problems is the lack of agreement about who or what authority should determine which areas of disease prevention should take priority over others.

"Who should decide all this? Should it be the medical scientists? Should it be the politicians? Should it be the law courts? Should it be the media or community debate? Immediately you can see difficulties with any one of those. It's a real problem that we don't have the proper mechanism for making these decisions."

"If you talk to people in Australia

about measles, normally they'll say: 'Who cares? What's measles?'"

"But then you look at the figures [42 million reported cases and one million deaths in 1995], and that's happening despite the fact that we have a good vaccine against measles."

"At this stage, given the choice, I would much prefer to put funding into eradicating measles than into preventing Hepatitis G. I might be wrong, but that's a chance I'm willing to take," he said.

—David Ellis

New Council Standing Committee

University Council has established a new standing committee to enable it to carry out the review and monitoring aspect of its corporate governance role.

The Audit and Compliance Committee will report annually to Council and at other times at its discretion to Council and/or the Vice-Chancellor.

Its role is to undertake a broad review, monitor compliance and make recommendations in respect of the University's risk assessment and management, financial affairs, and environmental, legal and safety obligations.

The establishment of the Committee follows through on the University's commitment in its 1994-2000 plan to consolidate and extend its quality assurance processes.

The Committee will comprise at least four people with appropriate expertise and experience—including two external members of Council appointed by the Chancellor, an academic staff member nominated by the Vice-Chancellor on the advice of the Head of the Division of PALACE, and a member of Finance Committee nominated by the Convener of Finance Committee.

Current members of the new Audit and Compliance Committee are Council members Ms Jane Jose (Convener) and Ms Dawn Garrett, Mr Barry Burgan (Commerce) and Mr Peter Buttery (Finance Committee).

Administrative support for the new Committee will be provided by the Secretariat (8303 5668).

Advertisement

Advertisement

Going to a conference this year?

If you will be attending a national or international conference this year, then consider volunteering to host it in Adelaide.

The Adelaide Convention and Tourism Authority (ACTA) is working with the University of Adelaide to bring more conferences to Adelaide. We are here to help you and provide complimentary support from the earliest bidding process to the final realisation of the conference.

We provide an impartial 'one stop shop' and can help you with all of your conference needs.

So if you will be attending a conference in 1997, why not take a package of information on Adelaide, including a complimentary promotional video.

For details of support provided, and to obtain your Adelaide package, contact Ms Anne-Marie Quinn on 8212 4794 or the Vice-Chancellor's Office on ext 33011. Email: <aquinn@registry.adelaide.



Coal market reform to solve greenhouse gas problem

Continued from Page 1

Professors Anderson and McKibbin said their studies showed that even if only Western Europe were to gradually remove its coal production subsidies and import restrictions by the year 2005, emissions of carbon dioxide in OECD nations would drop by 13% and global carbon dioxide emissions would drop by 5%.

"Environmental gains from coal market reform can be achieved with gains in economic efficiency rather than economic costs. That's a positive outcome for both the economy and the environment, which is in direct contrast to many of the costly proposals currently being advocated to reduce greenhouse gases."

Professor Anderson said these gains could be even greater if Western European countries raised their low coal consumer tax rates, and if the current low domestic price of coal in China, India and Russia were raised to international levels.

He also said countries should impose taxes (instead of subsidies) on domestic coal production to ensure that coal mining companies would compensate society for the methane emissions and other pollution they cause.

Professor Anderson said it was important that industrial and developing nations alike considered these options in the lead-up to the international Framework Convention on Climate Change in Kyoto, Japan later this year.

—David Ellis

Books in My Life

The next meeting in the Friends of the State Library's "Wednesdays at One" series features librarian Gerrit Stafford, who was responsible for reader services at the Flinders University Library from 1969 until his retirement in 1995.

Mr Stafford was an examiner for the Library Association of Australia for 28 years, a founding committee member of the Historical Society of South Australia and a member of the Bibliographical Society of Australia and New Zealand. He has a particular interest in miniature books.

• Old Armoury Building, Wednesday 5 November at 1.00. Admission \$5 (concession and Friends \$3).

Festival brings science to life

Science will spring to life for South Australian school children at a new festival being hosted by the University of Adelaide next month.

Called Science Alive, the two-day festival aims to celebrate science and learning among school students, and showcase the many exciting achievements in science that are happening right here in South Australia.

Science Alive will be held at the University of Adelaide and surrounding North Terrace institutions on Wednesday and Thursday, 12 & 13 November. The festival is free to all school children in Years 5-10, with bookings being made by South Australian schools.

More than 2000 students, their teachers and parents will attend the event, having the chance to see and hear a wide range of exciting features, such as:

- a NASA astronaut talking about training, space travel and living in space

- the science of rocketry
- solar car demonstrations
- forensic science: how it can help solve a crime
- endangered animals and plants
- rocks and minerals: how to tell the difference
- the link between Art and Science
- interactive computer displays and the Internet
- hands-on science experiments.

"Science Alive will provide an exciting showcase for school students, teachers, the University and other stakeholders in science and technology in this State," said Science Community Relations Officer, Mr Donald Bramwell.

"One of the main ideas behind Science Alive is to show students the close relationship between all areas of science and between science and most aspects of our daily lives.

"Various school groups will also get the chance to demonstrate to other students the variety of science

projects they've been undertaking as part of the DECS Focus Schools program.

"This event will not only utilise the wide range of facilities and expertise here at the University of Adelaide, it will also encompass nearby institutions like the SA Museum, the Adelaide Zoo, Botanic Gardens and the Art Gallery, and involve some of the State's premier science and technology institutions," he said.

Science Alive is sponsored by the Commonwealth DIST Science & Technology Awareness Program, the South Australian Department for Education and Children's Services, the University of South Australia, the University of Adelaide and the Investigator Science & Technology Centre.

• For more information about Science Alive phone the Festival Coordinator on 8272 8233 or Donald Bramwell on 8303 3619.

—David Ellis

Scholarship to promote science communication

A new scholarship aimed at promoting science communication has been launched at the University of Adelaide.

Called the Mason Family Scholarship in the Communication of Science, the scholarship is being offered to postgraduate students in the Graduate Diploma in Education, or a postgraduate degree or diploma in the field of Science Communication, or any other postgraduate qualification in Science or Agricultural & Natural Resource Sciences undertaken by a qualified teacher of science seeking improved qualifications.

The successful candidate will receive an annual stipend of \$6000.

Endowed by descendants of Mary Jane and Thomas Mason, the Mason Family Scholarship in the Commu-

ication of Science is named in honour of their contribution to education in England and Australia.

The inaugural scholarship was launched on Thursday, 2 October as part of the 66th ANZAAS Congress. Ms Ann Prescott—a founding member of the Australian Science Communicators and grandchild of Mary Jane and Thomas Mason—presented a cheque to the University's Dean of Graduate Studies, Dr David Liljegen. The launch was also attended by other descendants of the Mason family—John, James and Katherine Prescott.

Applications should be made to the Scholarship Officer, University of Adelaide, SA 5005. For more details phone (08) 8303 3044. The closing date for applications is Friday, 14 November, 1997.

THE UNIVERSITY OF ADELAIDE
The Alumni Association of the University of Adelaide presents

MARS meteorites

& the meaning of life

with Professor Paul Davies,
Dr Vic Gostin and Dr Chris Mortensen

Adelaide Convention Centre
Wednesday, 12 November, 7.30-9.30pm
Bookings at BASS: \$9 adults, \$6 concession

A Physicist, a Geologist and a Philosopher discuss the most recent discoveries about the planet Mars and their implications for us all. The Science & Mathematical Science Chapter of the University of Adelaide Alumni Association is presenting this event in conjunction with the Science Alive festival and is assisted by Adelaide Science and The Investigator Science and Technology Centre.

INVESTIGATOR
SCIENCE AND TECHNOLOGY CENTRE

GUEST COMMENTARY CONTINUED

4. Retention of existing Sports Association and Club management structures as a mechanism to maintain student involvement in, and management of, these organisations.

5. A process to discuss with the University the development of an on-campus sports hall facility to house the Sports Association offices, facilities for aerobics and weights and indoor sports such as judo, basketball and volleyball. Several radical proposals have been discussed in the full report of my study tour.

6. Development of programs within our academic structure to promote sport and recreation.

7. Alteration of the structure of

the Board of Management of the Sports Association to include a mechanism for communication with the highest level of Senior Management and with the academic community.

I will close with a relevant quote from the Jacobs report. "Sports and recreation are vital components of the University's social and cultural profile and the maintenance and improvement of fitness and health, through the provision of sports and recreation facilities, is a high priority, enhancing the quality of life of the University community and therefore contributing to the University's academic activities."

—John Setchell



Universities should be more receptive to conducting multinational courses and to promoting regional and international linkages. The first step to achieve this aim is for us to form a consortium offering transnational programs and to encourage greater student mobility. Operating a network through a consortium will enable participating institutions to pool resources, enhance the quality of the programs, achieve greater cost-effectiveness and, more importantly, promote international understanding and cooperation.

UPM would like to strengthen the relationship it already has with the University of Adelaide. The form of cooperation can range from teaching, research, exchange of students and staff, consultancy and last but not least, in promoting our two universities as global centres for technology innovations. I am confident that by working together our two universities will emerge as the university of the 21st century.

CONTINUED from PAGE 2

The university as one of the world's most lasting institutions will stand the test of time even though now it has to assume many new roles which some of us have yet to come to terms with. Academicians and students should acknowledge that the triumph of science and the demand for mass education account for the university's success in the 20th century. However, these alone cannot sustain the emerging Information Age.

Besides being a creator of knowledge, a trainer of minds and a transmitter of culture, the university is also a major agent of economic growth. The university has to accommodate all these demands, however complex they may be.

The full text of Professor Jalaludin's address is available on the WWW through the Public Relations & Marketing Office, at <http://www.adelaide.edu.au/PR/jala.html>.

The News IN BRIEF

Cornell Chapter Annual Dinner

The Cornell Chapter (Arts and Performing Arts Alumni) will hold their Annual Dinner at St Mark's College on Thursday 20 November next.

The guest speaker will be Professor Thomas Shapcott, Foundation Professor of Creative Writing. Professor Shapcott was appointed to the University of Adelaide earlier this year.

Music will be performed by the Australian String Quartet.

Early bookings are welcome; please call the Alumni Office on 8303 4275. \$35 per person, BYO drinks.

The Dinner will be preceded by the Cornell Chapter's Annual General Meeting, at which reports of the year's activities will be presented and elections held for the Committee for the following year.

Roseworthy Campus Visit

Alumni are invited to join in a guided tour of the farm, piggery, poultry and dairy facilities at Roseworthy Campus on Sunday 2 November from 2:00pm. Mr Jeremy Challacombe, Head of Rural Services, will lead the tour.

Roseworthy Campus is on the cutting edge of initiatives between rural industry and the University. This is an opportunity for an in-depth look at Roseworthy Campus at work. Bring the whole family.

Cost: \$8.00 per person (no concessions). This contribution goes direct to Rural Services.

Please call the Alumni Office for bookings or more information. Phone 8303 4275.

Vignerons' Luncheon

The Florey Medical Chapter will again this year hold a Medical Vignerons' Luncheon at the Lirra Lirra Restaurant at the Waite Campus on Sunday 26 October.

Four medical winemakers will have their wines available for pre-luncheon wine tasting. Guests will then be able to select from these to enjoy with their luncheon.

The winemakers will be available to discuss their products.

During the luncheon a very brief AGM of the Chapter will be conducted. This will include a report on the plans for the Florey Centenary Celebrations in 1998.

The time of the luncheon is 12noon for 12.30pm. Tickets, at \$35 per person, are available at Alumni House, tel 8303 5800, fax 8303 5808.

Further information may be obtained from David Game, tel 8362 1933, or Allen Gale, tel 8340 1566 or 8370 9081 (ah).

John Bray Law Chapter Dinner

The John Bray Law Chapter invites members and friends to a dinner at the Rococo Café, 46 Exchange Place (off Pirie Street), Adelaide, on Friday 31 October at 7.30pm.

Please call the Alumni Office, 8303 4275 to make your booking. \$25 per person for a two course meal, coffee and petit fours. Diners are invited to purchase their own drinks.

Interstate alumni functions draw an enthusiastic response

More than 70 alumni of the University of Adelaide and the University of South Australia attended a combined alumni dinner in Melbourne on Tuesday 30 September. This was the second Adelaide alumni function in Melbourne in 1997 and the first combined alumni event held by the two universities.

Guest speaker was Adelaide medical alumnus Dr John Colebatch (MBBS 33), who spoke about the life and work of Sir Edward "Weary" Dunlop. The connection between Dr Colebatch and Edward Dunlop stretches back to 1938 when they first met in Melbourne, and later in London during their respective post-graduate training.

A late afternoon reception for Adelaide, Flinders and University of South Australia alumni was held on Saturday 3 October 1997 in Hobart, with some 80 alumni in attendance. Mr JG Symons (BE 36) was the oldest of the Adelaide alumni present and it emerged that Adelaide is well represented in the wine industry in Tasmania, with four winemakers.

Special guests at this occasion were University of Tasmania Vice-Chancellor Professor Don McNicol (BA 64) and his wife Cath (BSc 62). Apart from some obvious comments about the previous weekend's football result, Professor McNicol spoke of the need for alumni to support their alma maters when asked to do so.

The energy and fellowship at both functions was high and there was keen interest in having more such events.

Other interstate alumni functions will be held in Sydney and Brisbane later this year—details will appear in the *Adelaidean*.

—Geoff Sauer



L to R: Dr Margaret Horan (nee Cleland) MBBS 32, Dr John Colebatch MBBS 33 and Geoff Sauer in Melbourne



L to R: Graham Sorell BSc 67, Don McNicol BA 64, and Paul Lan BArch 71 at the Hobart function. Photos courtesy of Geoff Sauer and Sheryl Chandler (Flinders University).

Civil Engineering Fellowship winner

Civil Engineering graduate Ms Sarah Murphy has won the inaugural Brian Macmahon Fellowship established by South Australian-based mining, quarrying and civil engineering group, Macmahon Holdings Ltd, to honour its founder, Mr Brian Macmahon.

The Fellowship was established in conjunction with the University of Adelaide and supports a Civil Engineering student completing postgraduate studies in an area relevant to the operations of Macmahon.

Ms Murphy is currently studying for her Master of Engineering Science after completing a Bachelor of Engineering (Civil and Environmental) with First Class Honours.

Macmahon Chief Executive, Mr Graham Beissel said the establishment of the Fellowship was both a fitting tribute to Brian Macmahon as well as a valuable way of encouraging up and coming members of the industry.

"The Fellowship acknowledges the achievements and vision of Brian Macmahon when he established this company some 33 years ago," Mr Beissel said.

"He oversaw and steered the development of the fledgling company into the leading Australian contract mining, quarrying and civil engineering business that it is today."

Mr Beissel said it was very rewarding for the company to be able to encourage excellence within the next generation of Australian civil engineers through awarding the Fellowship.

"Sarah Murphy has already shown that she is an outstanding student with a bright future and we are pleased that the Macmahon Fellowship will assist her in pursuing her studies," he said.



Macmahon Holdings Ltd founder, Mr Brian Macmahon with Sarah Murphy at the presentation of the Brian Macmahon Fellowship award.

Physics students on Woomera field trip

A series of illustrated research talks for Physics students at the University of Adelaide has culminated in a field trip to Woomera.

The students visited the site of a 3.8 metre gamma ray telescope, which is used in research by the CANGAROO (Collaboration of Australia and Nippon (Japan) for a GAMMA Ray Observatory in the Outback) Project.

Located in the desert 12 km north of Woomera, the telescope has been successfully used over the past six years to monitor gamma ray emissions from pulsars and supernova remnants.

During the overnight excursion the students were able to view some of the beautiful sights of the southern sky through Celestron telescopes, which are used by the Department of Physics & Mathematical Physics for teaching astronomy.

PhD student Mr Paddy McGee also demonstrated a 15-inch optical reflector and CCD computer imager which he uses as part of his PhD research project.

Dr John Patterson, the convener of the talks and organiser of the trip, said the Woomera field trip was a fitting finale to the two-month series of talks.

"Each Friday lunchtime in August and September these special talks were held in the Physics Department, enabling students and staff to hear first hand about the exciting research in progress at the University and elsewhere," Dr Patterson said.

"Those who attended did not hear text-book platitudes, but well illustrated talks by top physicists, including Professors Tony Thomas and Jesper Munch, Dr Tim van Doorn, Chief Physicist at Royal Adelaide Hospital, and other staff, on their special interests. Topics ranged from quarks to optics for gravitational wave detectors and dating Aboriginal sites.

"The feedback from the students and staff involved has been very positive, and based on the success of this year's program we're hoping to run a similar series of talks next year," he said.



L to R: Daniel Badger, Zaiwuddin Kirban, Rebecca Patrick, Ashley Sewell, David Swaby, Gary Morriso, Stewart Wright, Matthias Kretchmann and Martin Debes in front of the 3.8 m CANGAROO telescope at Woomera. Photo courtesy of Dr John Patterson.

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The University of Adelaide
Theatre Guild presents

RICHARD III



by William Shakespeare
directed by Michael Hill

**UNION HALL November 1, 4-8,
11-15 at 8pm; also Sat 8 & 15
November at 5pm**

TICKETS: \$18/\$12. Members \$7



Bookings: 8303 5999
or BASS 131246

ASQ off to China

The Australian String Quartet will tour to China in December, as part of the celebrations marking 25 years of diplomatic relations between Australia and China.

The tour will include performances in major concert halls in Beijing, Shanghai and Guangzhou, with works by Shostakovich, Brahms and Malcolm Williamson.

"The China tour brings to a close a watershed year for the ensemble," said Quartet leader Peter Tanfield.

"After our membership changes during the year we now have a group of four musicians completely committed to a future together and our plans go from strength to strength."

The Quartet's final Adelaide subscription concert for this year is on Saturday 1 November in Elder Hall.

The concert features Schubert's Quartettsatz in C minor D 703 and his String Quartet No 8 in B flat major, D112. Brahms' vast and rarely-performed String Quartet No 1 in C minor, op 51, no 1, will occupy the second half of the program.

"It will be a wonderful evening of music," Peter Tanfield said.

Intellectual Property in Asia: 1997 Fisher Lecture

Intellectual Property in Asia will be the focus of the 1997 Joseph Fisher Lecture to be delivered by leading international economist Professor Keith Maskus on 19 November.

Keith Maskus is Professor of Economics at the University of Colorado and is particularly recognised as an expert on the economics of protecting intellectual property with patents, trademarks and copyrights. He has written extensively on the implications of the Uruguay Round's TRIPS agreement on such rights, negotiated through the GATT/World Trade Organisation.

In his lecture he will examine the significant strengthening of Intellectual Property regulation currently under way in Asia's economies and its implication for Australia's international trade and investment.

• "Strengthening Intellectual Property Rights in Asia: Implications for Australia", on Wednesday 19 November 1997 at 5.30pm in Lecture Room 102, Napier Building. Enquiries 8303 5528.

ACCOMMODATION

ERINDALE: Fully furn, 3 br house in leafy eastern suburb, 10 mins to Uni. Walk to shops & bus. Avail 5 Dec 97 - 3 Feb 98. Rent neg. Ph 8361 2879.

FULLARTON: 2 br, sep lounge, sep dining, carport, close to transport, city & Waite, no pets. \$180 pw + bond. Avail now. Ph (08) 8536 2083.

HACKNEY: 2 or 3 br unique cottage, 2 storey, 2 bathrooms, open plan living, courtyard, carport. \$240 pw. Ph Kay Browning 8272 6900.

HOUSESITTER AVAIL: Academic, reliable & tidy, any suburb, any period of time considered. Ph 8339 2986.

HOUSESITTER OR RENT: 2 or 3 br house or unit required for 6 mths from end of October in north/north eastern suburbs. Husband & wife (non smokers) with well behaved pet. Ph Darryl 8287 4843.

PANORAMA: Quiet loca-

tion, unfurn house, 4 br, b-ins, 2 bathrms, lge kitchen/family, lounge, air cond, alarm, s/c bed-sitter, bbq/pergola, landscaped garden. Bond, no pets, avail now. Ph 8276 1061.

PROSPECT: Modern 2 storey spac townhouse, 3 br (all with b-ins), main with w-i-r, 2 wcs, secure parking, easy care private garden, fully fenced, mins to Nth Adelaide & city. Avail 17 November, length & rent neg. Ph/fax 8265 3485.

SHARE HOUSE: Person wanted to share furn house, 6kms to city, 4kms to Waite, close to bus & train. Ph 8303 5872.

WANTED: Music lecturer seeks house share from mid-Nov. A house with a piano would be ideal. Ph 8339 3392.

WANTED: Visiting academic, wife & 2 young children require accomm from 5 Jan - 12 Mar 98. Near seaside, but close to city & transport acceptable. Ph Ann 8303 5079 or email: aross@maths.adelaide.edu.au

Adelaidean

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FOR SALE

CHAMPAGNE: Fundraising \$4/\$48dz unlabelled Manager's Blend Classic Aust Brut/Cuvee made under contract to Skye Cellars by Seaview. Closing date for orders 17 Nov; collection date 20 Nov from Fisher Bldg. Ph Anne Richards 8303 3999 or email: arichards@zoology.adelaide.edu.au

EXERCISE ROWING MACHINE: Hydraulic, adjustable tension, good condition, strong unit. \$60. Ph Steve 8303 3055.

HOUSE: Myrtle Bank - Substantial 1920s era bungalow. 3 br, sitting rm, dining rm, family rm, new kitchen, upstairs study/br, air cond. Lg block, quiet street, off-street parking. Walking distance to Waite, schools, shops & transport. Ideal family home. Ph Steve

or Wendy Powles 8379 6082 or email: spowles@waite.adelaide.edu.au

MACINTOSH MODEM: Global Village Teleport Platinum 28.8K, 1 yr old, \$100 ono. Ph 8431 1594 (after 8pm) or email: pkee@camtech.net.au

MISC: Desk chairs, single mattress, various mirrors & pictures, Dimplex heated towel rail, cane chaise lounge, lge low table in pine & yellow laminex (suit kids playroom), glass display cabinets, bicycles, birdcage. Ph 8373 3089 (ah) or email: pbouwekne@physics.adelaide.edu.au

PRINTER: NEC P5300 dot matrix, exc cond, hardly used. \$150 ono. Ph Hetty 8222 6782.

TOYOTA CROWN: Manual sedan, 1973, air cond, reconditioned engine, good cond. RZE 674. \$3,000. Ph 8276 7857.

TELEVISION: Colour, 34cm, UHF/VHF, push button, exc cond. \$120 ono. Ph 8272 5429.

WATCH: Collector's item, ladies 18 carat gold fob watch, C 1880s, mint cond, \$1,500 ono. Ph 8265 4028.

DEPARTMENTAL

TENDER - HOLDEN COMMODORE: VS station wagon, 1995, auto, VTI 112, 42,000km, silver, air cond, mudflaps, tow pack. Inspection Wed 22 October, 10-11am, ph Gary Taylor, 8303 7264. Tenders in a sealed envelope marked Tender No W249 to the Purchasing Manager, Waite by Mon 27 October 1997.

TENDER - MACINTOSH POWERBOOK: 540c, 20/500 fax modem, active matrix colour screen. Tenders in a sealed envelope to Lachlan Tailby, Plant Science, Waite Campus, ph 8303 6746.

TENDER - TOYOTA DUAL CAB: 1995 Hilux utility, VSY 987, 2WD, petrol, manual,

air cond, tow bar, white, approx 32,000km. Inspection Tues 21 October, ph David Mathew 8303 7876. Tenders in a sealed envelope marked Tender No AFS 97/5 to the Manager, Agronomy & Farming Systems, Roseworthy Campus, Roseworthy SA 5371, by Fri 24 October 1997.

TENDER - TOYOTA TROOPCARRIER: VUH 919, 11 seater, 2/96, white, diesel, 5 spd, air cond, bullbar, towbar. Inspection Wed 5 November, 9.30-12noon, ph Keith Cowley 8303 7814. Tenders in a sealed envelope marked Tender VUH 919 to the Laboratory Manager, ES&M Dept, Roseworthy by 5.00pm, Mon 10 November 1997.

MISCELLANEOUS

WORD PROCESSING: \$2.75 per page, after hours service, professional formatting, city location. Phone Anne Every 8212 6869 or message 8415 7866.