

Las Vegas breakthrough for Optimatics

A company established by University of Adelaide engineers to commercialise their groundbreaking work on the design of water distribution networks has won a contract to optimise the design of a system being implemented in Las Vegas, USA.

Dr Angus Simpson and Associate Professor Graeme Dandy, from the Department of Civil & Environmental Engineering, registered a business venture called Optimatics through Luminis Pty Ltd last year.

In July this year the company of Optimatics Pty Ltd was incorporated, setting up offices in Parkside, and the Las Vegas contract is a major boost.

The basis of the technology behind Optimatics Pty Ltd is a structured computer search procedure called a genetic algorithm, which works by analogy to genetics, simulating the mechanisms of natural selection by which populations

evolve and adapt to their environment.

It can identify a range of low-cost designs for new pipe networks, as well as for rehabilitation or expansion of existing networks, optimising the assessment of factors influencing the pipe system layout, sizing of components, cleaning and refurbishing of pipes, and the operation of pumps.

The genetic algorithm technique has consistently proven more effective than other methods in identifying lower-cost design options for pipe networks, and has now been published in a number of technical papers in the United States.

"It has a well-defined track record of saving money," said civil engineer John Gransbury, who has joined Optimatics as a commercial partner and managing director. Also working for the newly incorporated company is Laurie Murphy, who was supervised by Dr Simpson and Dr

Dandy for his PhD.

A specialist in irrigation systems, John Gransbury says his role is to support the Parkside office, and develop the company's marketing efforts.

"I have slaved over thousands of designs by hand, so I know what a breakthrough the genetic algorithm technique is," Mr Gransbury said.

"I've also developed reasonable contacts in the water industry. I believe I can provide a constant presence for the company, while Angus and Graeme continue their research and teaching."

Mr Gransbury explained that the Las Vegas contract was for a network in the south-western corner of that city, which has seen a major population increase in recent years, from 400,000 to around 1.5 million.

The capital value of pipes in the previous design is \$10 million, but based on the track record of

Optimatics to date, savings of at least 10% could be expected.

"The expansion of the pipe system in Las Vegas is already being partially implemented, and we are racing against the clock to find a more cost-effective solution," Mr Gransbury said. "We expect to be completed by mid-October."

The Las Vegas contract resulted from the work of the group's North American marketing agent, the Chicago-based Jeff Frey of Frey Water Engineering, a colleague of Dr Simpson from his university days in the United States.

"Optimatics is exactly the sort of business that the State Government would like to promote internationally," John Gransbury said. "It has a lot to offer the world, and is another excellent example of the benefits that can arise from collaboration between industry and universities."

—John Edge

New Finance Degree responds to demands of the marketplace

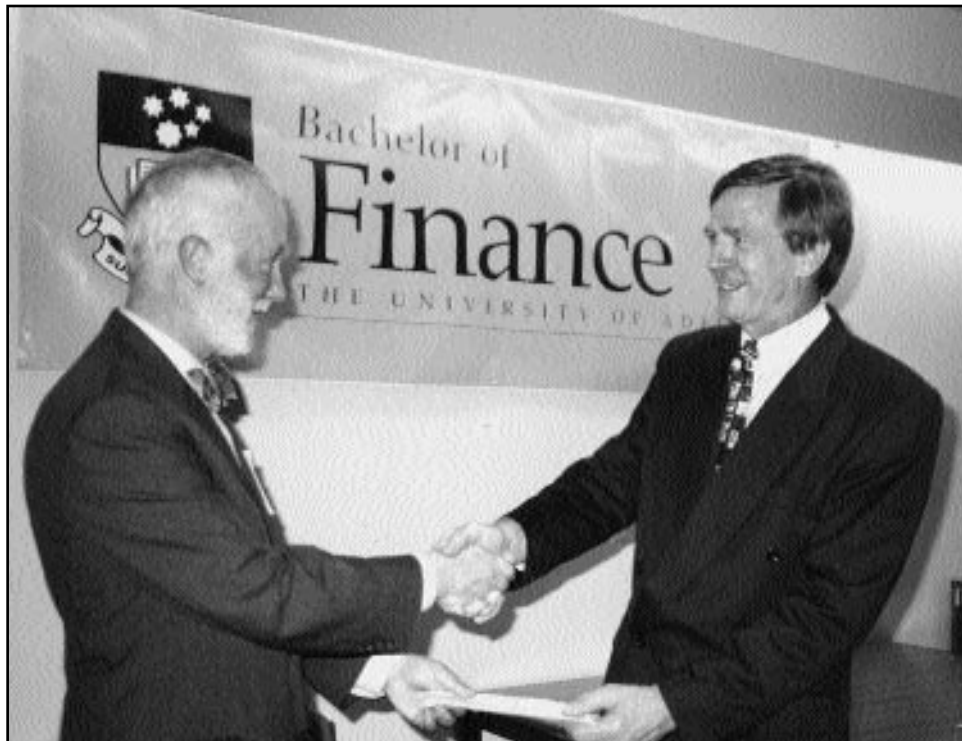
A new undergraduate degree — the Bachelor of Finance — will be offered by the University of Adelaide to students looking for future employment in the finance, trade and merchant banking industries.

This attractive new course is a joint offering of the faculties of Economics & Commerce and Mathematical & Computer Sciences. The core subjects to be undertaken by students are drawn from the strengths within each of these faculties.

Graduates of the Bachelor of Finance are likely to gain employment with trading and merchant banks, investment firms, consulting specialists and private and public corporations, including government regulatory authorities.

Openings for graduates are in treasury and risk management, stock broking, fund and portfolio management, international trade and derivatives trading and pricing, many of which are covered by professional bodies.

The new Finance Degree was launched by the Treasurer and Acting Premier of South Australia, Mr Stephen Baker, on Tuesday, 10 September. In his address Mr Baker highlighted the developing role of Adelaide as a centre for the electronic-based finance industry, and the need to provide suitably qualified staff locally.



Professor Jonathan Pincus, Head, Department of Economics, and Dr Chris Caton, Executive Vice-President, Bankers Trust Australia. Photo by Vivian Piovesan.

"The faculties involved are combining their expertise and, in responding to the demands of the marketplace, are offering students a degree program which provides relevant skills," Mr Baker said.

A high level of industry interest in the new Finance Degree was also

demonstrated at the launch. The Executive Vice-President of Bankers Trust Australia, Dr Chris Caton, announced that the best graduating Finance student would receive a \$2000 cash prize from Bankers Trust.

Continued Page 5

Acting UP

Reclaim the day!

In a witty recent article in the *Financial Review* Alex Millmow, an economics lecturer at Charles Sturt University, bemoans the fate of the modern academic.

After pointing out how relatively poorly paid modern Australian academics are, he goes on to say that while academic income has traditionally been low, this has been offset by high psychic income such as tenured, stress-free employment with stimulating work and plenty of time in which to do it.

He then points out that the psychic income is now low because of what he calls the "scourge of managerialism" following the need to deal with the massive expansion of the higher education system through the eighties, with its increased pressure for efficiency, effectiveness, public accountability and quality. He ends his article by suggesting that a rethink of the higher education system is badly overdue.

Millmow is quite right — and in fact the Minister has just announced such a review in the Budget.

An external review is fine but I think we also need to examine the higher education system from "the inside". We've allowed these changes to happen to us and have never developed the tools with which we might turn them to our own advantage.

In another way we, as academics, have made the situation worse by not working together to prioritise what is most valuable in higher education and then abandoning those activities that we can no longer afford. We've tended to retain everything, take on the new demands and produce truly horrendous workloads which are often close to humanly impossible and which have led to enormous stress within the work place.

A concrete example is the enormous number of subjects we offer. I question whether we can any longer afford such a wide choice of topics for students. We should face the fact that while we can still offer a range of quality subjects the numbers in some of those subjects will be quite high. It's certainly possible to teach large numbers well.

Often too, we apply for a range of small research grants instead of thinking strategically and putting our efforts into attracting a Commonwealth Research Centre with guaranteed funding for many years.

It's up to us individually and collectively to start managing our working lives so that we do have time to execute our core activities of teaching and research at a high standard without risking killing ourselves. We must work out how we are going to do it ourselves and not merely react to increasing demands from outside. In other words, we need to reclaim control of our own time. We must reclaim the day.

MARY O'KANE

Planning Suggestions



In his Guest Commentary (*Adelaidean*, 9 September) the Registrar states that the cost of administration at The University of Adelaide is only 10% of the budget. These comments are misleading because they do not consider the administrative costs carried in the Academic Divisions. Many of these costs used to be calculated with those of the central administration but have now been devolved to the divisions.

The Registrar requests creative comments to assist the University's financial planning, and he suggests the possibility of contracting out some of the "routine teaching". Since teaching is the core activity of any university, the contracting out of even "routine teaching" would be a retrograde step in my opinion. Teaching staff are already a minority at this University; only 41% of the University's staff are engaged in teaching. In contrast the figure at Flinders University is 53%.

I believe that the University should consider contracting out other functions that are not core

activities. Why not contract out the Registrar's division, including Personnel, Finance, Information Technology, Management Information and Property Services? The private sector would certainly have the expertise to achieve considerable savings in these areas.

A Lynn Martin
Department of History

The Registrar responds:

I thank Dr Martin for the suggestions about the University's financial planning. Certainly all possibilities are under consideration, although I would suggest that it is less important to concentrate on who does the work, and more on the quality and efficiency of our services. I have no dispute that a decline in teaching standards would be most disadvantageous for this University which has such a strong reputation for excellence in research and teaching. However I do not resile from my view that there are many excellent subject packages available in Distance Education modes which might profitably be integrated into our courses especially at first year

level and for service courses.

The difference in teaching staff percentages between the University of Adelaide and Flinders University is at least partially the result of different course distributions at the two Universities. Proportionally Flinders has a greater concentration in the Arts, particularly Social Sciences; Adelaide concentrates more on Science and Technology with consequential greater general staff support.

For the past five years the University has constantly tested opportunities for outsourcing central services where these are not mission critical and where both the quality and efficiency of service can be sustained for reduced costs.

I am currently researching expenditure trends for different University activities over the last 15 years and the effect that devolution of greater management responsibility to Divisions has had on these costs. I am also benchmarking these costs against those of other Universities in the GO8.

FJ O'Neill
Registrar

GUEST COMMENTARY

Producing and Delivering the new doctor

One of the important issues, that has not been highlighted in the discussion about the claimed "oversupply of doctors" in Australia, is the minimum of 10 years interval between selection of the new matriculant and delivery of the medical practitioner into the health care system. This partly explains why it is so important for the Medical Deans to delay decisions about intake cuts until reliable data on numbers are available, as the present political decision makers will be lost from memory by the time the impact of their decisions affects the standard of health care delivery. Although politicians may overlook this time factor, medical school curriculum committees have to deal with it on a daily basis. Every decision we make has to include an element of prediction about the characteristics of medical practice, and the needs of our medical graduates, a decade and more ahead. We have continually to ask what sort of doctor should we be aiming to produce and how shall we do it? I welcome this opportunity to share some personal reflections on these and related matters, which are likely to have relevance for other Faculties.

Let us begin by acknowledging that the New Doctor will need to be many of the things the Old Doctor was/is.

In addition, the New Doctor will need to:

- be more flexible in attitude and able to adjust to increasingly rapid change
- be able to keep up with an ever more rapidly changing and widening knowledge base
- be better equipped and motivated to engage effectively in continuing medical education (CME) and be able to attain and sustain levels of knowledge and competence sufficient to pass Clinical Competence renewal evaluations, which must be taken periodically in order to be able to continue to practise
- be more self sufficient and be able to handle increasing stress
- be able to make more effective use of computers for learning, for practising, for records, for accounting, for communicating, for smart cards, for.....
- be able to access "best practice" guidelines and determine when they are immediately applicable and when they need to be modified to meet the needs of a particular patient, and be able to justify

by
Ted Cleary
Convener

Curriculum Committee
Faculty of Medicine

any deviation from these guidelines when she is the subject of litigation for so doing

- be able to practise Evidence Based Medicine, including managing literature databases, critically reading and evaluating random clinical trial data

and conclusions

- be better able to judge critically the value of information from drug companies
- be more informed about cost benefit analysis of treatments, investigations and management strategies
- be able to deal with patients who are able to access information about their illnesses and the guidelines from the WWW or its successor
- be better able to manage public relations, especially in regard to the image of practitioners as "paternalistic" and insufficiently aware of patients' rights
- be involved significantly in teaching undergraduate medical students
- be better at working in teams, whose members share responsibility for promoting "health" and delivering "care"
- be able to make, and be willing to explain, decisions with a major ethical component e.g. deciding who shall have which treatment and who not(!)
- have some tertiary educational experiences beyond medicine
- have an expectation of being paid at a reduced hourly rate.

What do we need to do, that we are not yet doing effectively?

I would like us to be able (more effectively than now) to:

- provide help for staff, to recognize the outcome of research in education and the need to adapt their style of teaching to take account of these data
- convince staff that they can no longer (if they ever could) teach it all, and that they should help their students to concentrate on principles and on helping students to find ways to link these principles to logical groupings of data relevant to the principles

Continued Page 6



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Regional network set to bring SA researchers together

A high speed microwave and fibre optic network designed to link Adelaide's major research zones will be officially launched at the University of Adelaide this week.

SAARDNet is a collaborative venture between the three South Australian universities, CSIRO and the Defence Science Technology Organisation (DSTO) at Salisbury. It was set up with the help of the Australian Vice-Chancellors' Committee to replace AARNet, at a regional level, following that network's sale to Telstra.

Chair of SAARDNet's Board of Management — which operates under the auspices of the South Australian Vice-Chancellors' Conference — is Mr Peter Nissen, Director of the University of Adelaide's Information Technology Division.

The University is also the network's Facility Manager, with all the central equipment located and maintained here by ITD staff.

There are four key and expanding zones of research concentration and industry collaboration in Adelaide,

located in the north, central, south and southeast of the city.

The city zone includes the University of Adelaide, UniSA, CSIRO's Division of Human Nutrition, the IMVS, the RAH and the Women's & Children's Hospital, as well as the Thebarton Commerce & Research Precinct. The northern zone encompasses UniSA's Levels Campus, Technology Park Adelaide, and DSTO.

To the south are Flinders University, the Flinders/CSIRO Joint Research Centre, Science Park Adelaide and the Flinders Medical Centre, while in the southeast can be found the cluster of organisations based at the Waite precinct, including the Waite Agricultural Research Institute, several CSIRO Divisions, Primary Industries SA, the South Australian Research & Development Institute (SARDI) and the Australian Wine Research Institute.

By any assessment, it is a significant grouping of research organisations whose work can only be enhanced by the new network, according to Peter Nissen.

"For example, they'll now have very fast access to shared resources such as high performance computing facilities and expensive laboratory equipment like the Confocal Microscope at the Waite Campus.

"The technology also supports the transmission of large amounts of voice, data and video information over the same link," he said.

Mr Nissen said the network's state-of-the-art infrastructure would provide support for South Australia's thrust in Information Technology teaching, research and development, as well as the emerging Interactive Multimedia industry here.

"The member organisations also benefit from cost sharing," he said.

The Parliamentary Secretary for Information Technology, the Hon. Robert Lawson MLC, will officiate at the launch of SAARDNET, which takes place on Monday 23 September at 5.00pm in the Information Technology Division.

—John Edge

Forgotten work to be revived

The Elder Baroque Ensemble is presenting the modern première of Bononcini's "lost" cantata *Il lamento d'Olimpia* on Friday 4 October at 1.10pm in Elder Hall.

The première is the result of a collaborative research project between the Elder Conservatorium's Visiting Research Fellow, Dr Margaret Bakker and Mrs Lesley Lewis, Lecturer in Early Music.

Dr Bakker discovered the "lost" solo cantata in the manuscript stronghold of the Huntingdon Library in 1977, while completing her PhD on the Italian Cantata at Stanford University.

The cantata is a work for one or more voices with instrumental accompaniment, and is possibly the most important form of vocal music of the Baroque period. Giovanni Bononcini (1670-1747) — one of Handel's colleagues and rivals in the Italian operatic scene in early eighteenth century London — was a prolific composer of the popular cantata.

Soprano Tessa Miller, Adelaide's leading exponent of Baroque singing style, will perform *Il lamento d'Olimpia*, supported by the Elder Baroque Ensemble using instruments especially designed for performance of music from this period.

Lesley Lewis, a Churchill Fellowship winner in 1994, spent time in Holland the following year researching the art of Continuo Accompaniment, and some of the revolutionary principles she discovered have been applied to *Il Lamento d'Olimpia*.

"This brings the modern performance of this work closer to an accurate reproduction of the way the piece would have been heard nearly 300 years ago," she said.

The performance is part of the Elder Conservatorium's Lunch Hour Concert Series and is a free event.

Leading journal in move to Adelaide



Left to right, front row: Dr Lenore Coltheart, Ms Kate Taransky Howes, Professor Ernie Tuck. Middle row: Mr Greg Lewis, Dr Robert Catley. Back row: Mr David Standingford, Mr David Scullen. Photo: David Ellis

Two lecturers in the University of Adelaide's Department of Politics are the new publishers of the 50-year-old journal, *Current Affairs Bulletin*.

Dr Lenore Coltheart and Dr Bob Catley decided to take over the CAB when the publishers, WEA, moved to change the system of publication.

The journal had been based in Sydney since World War II, when it was established as an educational journal for officers in the armed forces.

Since then, it has established a solid and loyal readership among people in the education sector and business, by making University research findings more accessible to the general public.

Dr Coltheart and Dr Catley have formed a company through Luminis

to publish the journal. The University's scientific publishing group, TexAdel, has been contracted for the editorial, typesetting and production of the *Current Affairs Bulletin*. By bringing the CAB to Adelaide, they have been able to reduce costs, freeing up more funds to promote and develop the journal.

Dr Coltheart said the new publishers wanted to increase the CAB's focus on Asian and other regional issues. The journal would maintain an independent, non-partisan stance, promoting balanced debate and discussion on current issues.

The first edition produced entirely by the new team will be published on 25 September. The major focus will be on China's labour force and foreign relations.

—David Washington

The News IN BRIEF

ALGAL TOXIN PROJECT

The increasing risk of problems to health of toxic blue-green algae in water supplies in Australia is being investigated by Professor Ian Falconer (Deputy Vice-Chancellor, Academic) in a major research project about to begin in Adelaide.

The Cooperative Research Centre for Water Quality and Treatment has funded a \$360,000 research project on the tumourigenic effects of cyanobacterial toxins in drinking water. This follows from Professor Falconer's earlier experimental work on tumour growth and blue-green algae in drinking water.

The work is to be done in the Department of Clinical & Experimental Pharmacology of the Medical School, where work is already in progress on the effects of blue-green algal toxins on liver cells.

Professor Falconer said a key part of the research is the interaction between cancer-initiating agents which are present in the environment (including diet), and cancer growth responses to blue-green algal toxins in drinking water.

ASCILITE CONFERENCE

Plans are well advanced for the 1996 Conference of ASCILITE (The Australian Society for Computers in Learning in Tertiary Education), which will be held this year in Adelaide at the University of South Australia's City East Campus from 2-4 December.

The three South Australian universities and TAFE have provided the members of the organising committee, with the Conference Secretariat based at the University of Adelaide's Department of Applied Mathematics (tel 8303 5422).

International keynote speakers include Dr Frank Voon, a medical doctor with a strong interest in computing and education who in 1992 was a consultant to the National Computer Board Policy and Planning Division responsible for the IT2000 plan for Singapore. Also presenting keynote addresses will be American academic and Editor of the *Journal of Computing in Higher Education*, Dr Carol MacKnight, the Head of IT at DeMontford University in the UK, Professor Stephen Brown, and the University of Central Queensland's Dr Lynn Zelmer.

The ASCILITE96 web site can be found at: <http://www.netspot.unisa.edu.au/ascilite96/>

CELEBRATING STRINGS

Elder Hall is alive this week to the sound of strings as the Australian National Academy of Music's String Program gets into full swing.

The Elder Conservatorium is hosting the eleven-day program from 19 to 29 September, which has gathered thirty talented young string players in Adelaide to work with acclaimed teachers and performers from Australia and abroad.

The young musicians, who range in age from 15 to 25, will undertake individual schedules which include private lessons and sessions with accompanists, as well as performances in masterclasses and concerts.

The program has been coordinated by William Hennessy, leader of the Australian String Quartet, which will also present a subscription concert in Elder Hall on Thursday 26 September to coincide with the Program.

The daily masterclasses and concerts are open to the public, and further information can be obtained from the Elder Conservatorium Concert Manager, Anne-Marie Peard, on 8303 5925.

Advertisement

Interactive CD-ROM teaches SA school kids to like Science

A new CD-ROM is encouraging young South Australians to discover exciting career possibilities in science. Called *likeScience*, the CD-ROM gives school students a multimedia voyage through the wide range of careers and study opportunities available to them.

High-quality colour digital images and video clips are a feature of this interactive guide, helping to explain the courses available in the University of Adelaide's Faculty of Science and the careers to which those courses can lead.

Almost 1000 copies of the *likeScience* CD-ROM and promotional posters will be distributed free to all secondary schools in the State.

"If South Australia is to sustain its international competitiveness, we must encourage young people to take up studies and careers in the sciences," said Professor of Natural Philosophy Paul Davies, who officially launched the CD-ROM on Friday, 6 September.

"*likeScience* does precisely that, by making information about science courses and careers accessible and fun. The CD-ROM represents Adelaide Science's commitment to fostering South Australia's scientific expertise," he said.

Professor Davies said the use of CD-ROM technology to spread the word of science was vitally important, as many young people were well acquainted with computers and CD-ROMs either in the home or at school.

likeScience works on both



First-year science student Aidan Brooks demonstrates the new *likeScience* CD-ROM. Photo: David Ellis

Macintosh and IBM compatible/MS Windows computers and is simple to use and easy to install.

The project to develop the CD-ROM was headed by the Science Faculty's Associate Dean (Teaching and Learning) Dr Pat James, with Mr Ian Roberts from the Science Learning and Teaching Excellence program responsi-

ble for the authoring and navigation design. Music was especially composed for the CD-ROM by the University's Department of Music Studies.

For more information about *likeScience* phone Dr Pat James, Faculty of Science: (08) 8303 5673.

—David Ellis

CORRECTION

The last *Adelaidean* (9 September, News in Brief, p.3, "Thailand Grant") spoke of a UMAP grant awarded to the Department of Economics to support student exchanges with Thammasat University in Thailand.

It should be clarified that the grant was in fact awarded to the Faculty of Economics and Commerce, and is intended to support both BEc and BCom students for exchanges with Thammasat University and Universiti Sains Malaysia.

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Kudos for Lumen

The University of Adelaide's twice-yearly magazine *Lumen* has won the Tertiary Magazine Award at the recent conference of the Association of Development and Alumni Professionals in Education (ADAPE) at Bond University.

ADAPE presents Publication, Fundraising and Special awards every two years to recognise outstanding achievement among Australasian development and alumni professionals. This was the second presentation of the national award.

Lumen is aimed at the University's external stakeholders. Its 10,000 distribution includes Alumni Association members, representatives of business and industry, government departments and agencies, public office holders, and international educational and research associates.

Lumen is produced in the Public Relations and Marketing Office, and edited by Pamela Lyon. The magazine is designed by Cathryn Charnock Corporate Publications.



Pamela Lyon with the most recent *Lumen*. Photo: David Ellis.

AIB symposium to be a forum for public debate

The Australian Institute of Biology is tackling a controversial issue in this year's Annual Public Symposium. The theme of the symposium at the University of Adelaide on 27-28 September is "Exploiting our Native Fauna: Culling, Harvesting, Farming?"

Attentive readers will note the question mark at the end of the title. The symposium is designed to foster debate among the public and relevant interest groups, following recent contentious issues such as koala culling and the extent of tuna farming in South Australia.

Expert speakers from South Australia and interstate will discuss issues of exploitation, culling, harvesting and farming native animals, followed by panel debates and general discussion. Topics include sustainable wildlife, kangaroos, crocodiles, emus, yabbies, abalone and other candidates for aquaculture.

The public symposium is organised by the Australian Institute of Biology (AIB) in a bid to help fulfil its aims — to advance the science and practice of biology, to improve communication between biologists, and to promote

education and research in biology. Each year the AIB's annual symposiums are used as a forum for broad public debate on a "biological" topic of current relevance. The current executive of the AIB is based in Adelaide.

The symposium will be held in Lower Napier Lecture Theatre LG29. Members of the public are welcome to participate. The fee is \$70, including lunches and refreshments.

Further details: AIB Secretary, Dr Margaret Davies, Department of Zoology, on (08) 8303 5851.

—David Ellis

Shedding light on post traumatic stress

University of Adelaide Professor of Psychiatry Sandy McFarlane is one of the co-editors and co-authors of a new international book which summarises the current state of world research into Post Traumatic Stress Disorder.

The book, *Traumatic Stress: the Effects of Overwhelming Experience on Mind, Body and Society*, was launched in May this year in New York. It looks at the background and history of post traumatic stress disorder, the kinds of acute reactions people suffer because of trauma such as war and car accidents, the treatment of traumatic stress, and the social and cultural issues that surround this disorder.

Sandy McFarlane (based at The Queen Elizabeth Hospital) is one of three editors of the book, joining Dr Bessell van der Kolk from Harvard Medical School and Professor Lars Weisaeth from the University of Oslo. Their collaboration represents years of study and research at the highest level into traumatic stress.

"Post traumatic stress disorder is not a new condition, but it's had a very chequered history in psychiatry for a variety of reasons, including the way in which society has been willing to deal with war veterans and victims in general," Professor

McFarlane said.

"It was only in 1980 that formal systems of diagnosis accepted post traumatic stress disorder as a specific disorder, and that was really out of the work done with veterans from the Vietnam War and also through the advocacy of the women's movement, dealing with victims of child sexual abuse and the victims of rape.

"This book is an attempt to summarise the knowledge and information that's been gained in the first 15 years of research, not only to highlight the understanding that we've developed but also to identify many of the problems and the issues that surround the field," he said.

Professor McFarlane first studied post traumatic stress disorder following South Australia's 1983 Ash Wednesday bushfires. That study focused on a group of firefighters and school children who had been traumatised by their experiences.

Like many of his colleagues Professor McFarlane said he was initially sceptical about post traumatic stress disorder. But since that first study he has conducted dozens more into victims of accidents, disasters, torture and war. He is now secretary and a board member of the International Society of Traumatic Stress Studies, and was asked by the United

Nations Security Council and the World Health Organisation to write a report on the traumatic effects of the Iraqi occupation in Kuwait.

He has also made a significant contribution to this new book, having authored or co-authored almost half of the papers. Other senior academics from around the world have also contributed, although Professor McFarlane said the book was not just for academics.

"Traumatic stress is an area that has relevance to many fields, not only psychiatry but psychology, social work, law — it's a very important area to understand in terms of social policy. So the book has a broader appeal to professionals whose areas of work deal with these kinds of issues," he said.

"We believe it's also an ideal resource for health professionals, researchers and students. While summarising the past 15 years of research into post traumatic stress disorder, the book also discusses the future directions of this work and lays the foundations for further research and clinical work."

Traumatic Stress: the Effects of Overwhelming Experience on Mind, Body and Society is available from Guilford Publications at a recommended retail price of \$78.00.

—David Ellis



Sandy McFarlane. Photo courtesy of TQEH.

Advertisement

Study of stress disorder

A new treatment program which could help people overcome post traumatic stress disorder is to be trialled by University of Adelaide researchers at The Queen Elizabeth Hospital.

Rape, road accidents, disaster or even witnessing severe injury can trigger post traumatic stress disorder, which is estimated to affect three people in 100. In some groups, such as those who have been sexually assaulted, up to 40% of victims can be affected.

Symptoms of post traumatic stress disorder include intrusive and highly distressing memories of the event, sleeplessness, avoiding reminders of the trauma, anxiety, and emotional numbing which may persist for months, even years, after the traumatic incident. About 20% of people directly involved in a traumatic incident will still have the disorder seven years after the event.

This new study, being carried out in conjunction with researchers at the University of Queensland, will investigate the effectiveness of an anti-depressant treatment combined with a cognitive behaviour therapy treatment. (Cognitive behaviour and drug therapy programs are commonly used together in clinical practice, but their interaction has not been systematically examined.) Evidence from other anxiety disorders suggests this may have an additive effect.

People who suffer post traumatic stress disorder are needed for the study. For the purposes of the study these people must have been traumatised within the community, rather than through military service. The program will run for 26 weeks with each person initially receiving weekly therapy. There are no costs involved for people enrolling in the program.

For more information phone Professor Sandy McFarlane on (08) 8222 6515.

New Finance Degree responds to demands of the marketplace

From Page 1

The first intake into the Bachelor of Finance program will be in March 1997 with about 40 places available to school leavers. Additional places will be made available for current tertiary students who wish to transfer into the program.

"There has been immense and continuing interest from potential students at Year-12 level since the Finance Degree was announced provisionally in this year's SATAC guide," said Administrative Course Adviser Mrs Liz Geddes.

"Students already enrolled at the University of

Adelaide have also shown great enthusiasm for the new course. They can undertake the double degree program in either Economics, Commerce or Maths & Computing Science.

"Under new provisions these double degrees can be completed in four years. It's also possible to combine the Bachelor of Finance with Law, making it even more attractive to some students," she said.

For more information about the Bachelor of Finance contact Mrs Liz Geddes on (08) 8303 4499.

—David Ellis

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Dolone Chakravarti and Anna Baillie with their winners' shield. Photo: David Ellis

Advertisement

A 'mooting' of minds in Vancouver contest

Two University of Adelaide law students and a graduate have won the prestigious Commonwealth Student Mooting Competition in Vancouver, Canada.

Final-year law students Ms Anna Baillie and Ms Dolone Chakravarti and graduate Mr David Crocker last month defeated the best teams from eight Commonwealth nations to win the competition.

Mooting is the term used for arguing a hypothetical legal appeal case. For this competition the case involved two alleged international drug traffickers who were also alleged to be war criminals. Teams from different nations compete against each other, arguing either the case for the drug traffickers or against.

The teams are then judged on the quality of their legal arguments based on their understanding of international law and their presentation style.

Ms Baillie, Ms Chakravarti and Mr Crocker are the only Adelaide team and the second Australian team to win the event. Their

draw included competition with India, the United Kingdom and then South Africa in the grand final.

"We couldn't say that we were very confident, because we were competing against the best mooters from all of these countries. Some have many more tedious and onerous mootings to get through within their own countries, and so their level of competition is very high," said Ms Chakravarti.

"We felt confident we could do well," said Ms Baillie, "but we did get the feeling that it was going to be a very high standard. You can only do your best, really. It was a tough competition and it was a great feeling to win."

The Adelaide team was formed last year following a mootings competition at the University in which the three best mooters were chosen. They went on to win the Australasian Law Students Association championship in Hobart, qualifying them for the Commonwealth competition in Vancouver.

"It's a different story in India, where they have 11 national compe-

titions. Canada has about five or six of them, and their team also has a coach," said Ms Baillie.

"We don't have anything like that. We had a few tips from judges on presentation, but most of our experience came from learning as we went."

"We do have excellent resources here at the University," said Ms Chakravarti. "We have a fairly up-to-date international law collection, and there's a lot of legal research involved in preparing for the competition, so that was very helpful. In some countries the students have to travel from city to city to look up the relevant material, so we were lucky in that regard."

Apart from the shield in which their names are engraved, the achievement of winning the Commonwealth mootings competition is certain to add to the students' credentials.

"It was definitely a good experience for us in terms of learning how to argue a case in a formal setting and also researching that case," Ms Baillie said.

—David Ellis

GUEST COMMENTARY CONTINUED

Producing and Delivering the new doctor

- shift away from hospital based teaching towards community based education
- shift from training in diagnostic and curative medicine towards prevention and health promotion
- promote a change in the academic culture so that teaching is regarded as an academic discipline of equal stature with research, for the purposes of promotion and fund allocation
- develop effective outcome measures concerning our medical graduates, and put in place procedures for monitoring and responding to them
- experiment with the selection process to see if we can identify candidates who will be best suited to the future circumstances and new requirements.
- staff resistance to having to change "tried and tested" methods of teaching
- staff anxiety about experimenting with and adopting new teaching methods
- student pressure that we not "change the rules", by moving away from rote learning masses of facts - whereby they gained entry into the Faculty
- the perceived need to maintain a strong departmental structure, in the interests of the staff and departments - especially for research and cohesion
- a reluctance of academics in the Faculty to accept that the objectives of the medical course must increasingly emphasize vocational training
- resistance to change in the hospitals from clinical teachers, who feel the changes will undervalue their contributions and undermine the status they have achieved over many years of endeavour and community service
- financial pressures from governments whose major interests appear to be in immediately balanced budgets and probably necessary reduction in the rate of increase of expenditure on health. This appears to me to be promoted without apparent concern for a longer view or for a more informed and carefully targeted reduction program, less directed to sectoral interests
- innate conservatism of members of the educational and medical professions
- inability to get Universities to address seriously issues of determining what is "good teaching" and rewarding it as an equity issue, rather than simply asking students to identify "good teachers", with

all the potential for mutual seduction and self deception this brings

- insufficient hours in the day and
- the apparently ever increasing burden of form filling and bureaucracy to "ensure that we are efficient and accountable".

It is alarming to think that we have to do all these new things in addition to those we have been doing, and that we must do them:

- on a reducing budget,
- with less staff and
- with access to patients, who less and less represent the age groups or the major illnesses within the community and who are available to students for less and less time.

We are told we will have to become ever "more efficient" and "work smarter" and clearly, so we shall. But none of our advisers appears to be addressing the issue as to how this is to come about, in the little time left to us. I have entered into the spirit of the game by meditating on whether I would be better served by viewing all this as "a stunning opportunity" or as "a marvellous challenge"?

Meanwhile, I derive both inspiration and solace from embracing the slogan: "Life is too short to drink bad wine!". Think about it! It will improve both your quality of life and its quantity (provided you are "moderate", at least in this). Here is an endeavour in which we can truthfully say: this is indeed "the lucky country" and this "the lucky state".

Ted Cleary
Convener Curriculum Committee
Faculty of Medicine

What else should we be doing?

I would like to see us:

- educating teaching staff so that they are able to accept, or even opt for, change
- keep what we have that is good; ruthlessly eliminate what obstructs our progress
- reviewing our organizational structure with a view to determining whether the present departmental structure is appropriate for the Medical School of the future and, if it is not, implement appropriate changes
- able to provide/allow a more diverse experience as preparation for a medical career

What stops us?

The things that I see as being major factors in slowing change are:

Alumni IN BRIEF

Gothic Revival Architecture talk

On Wednesday 16 October, the Alumni Activities Program offers an illustrated talk by 1996 Churchill Fellow Mr Brian Andrews about Gothic Revival architecture in South Australia.

The Gothic Revival style was very popular in Britain and more distant parts of the British Empire in the nineteenth century. The Mitchell Building is a fine example of this style.

Mr Andrews' talk will explore the features of Gothic Revival architecture, its sources and influences, and the question of why the industrial age saw a revival of interest in this medieval architectural style.

This talk (in the Benham Lecture Theatre at 7.00pm) is FREE, but to assist with planning please call 8303 4275 to indicate that you are coming. Individual and group bookings welcome.

Celebrating History

The Cornell Chapter hosted a celebration on 12 September to mark the publication in 1996 of no less than ten books by members of the Department of History.

The Dean of Arts, Mr Paul Nursey-Bray, spoke briefly to welcome the guests who attended. Professor Brian Coghlan, Chair of the Cornell Chapter, moved a vote of thanks.

The gathering was an informal one and guests had the opportunity to examine the books and speak with the authors.

Golden Jubilee/SRC 50th

The search for past members of the Student Representative Council is bearing fruit, and around one hundred have been issued invitations for the Golden Jubilee Commemoration, at which the fiftieth anniversary of the foundation of the SRC will be marked.

The Golden Jubilee will be held on 24 October, beginning with a commemoration ceremony in Bonython Hall at 6.00pm.

The Graduates of 1946 will return to the University to celebrate their half-century as graduates of The University of Adelaide. The Golden Jubilee Address will be given this year by Dr Jim Bonnin, a former Head of the Institute for Medical and Veterinary Science.

The ceremony will be followed by a Reunion Dinner in the Upper Refectory, Adelaide University Union Building. Further information is available from the Alumni Office.

Visit to Buckland Park Field Station

Buckland Park Field Station, the University's field station for research into Atmospheric Physics and High Energy Astrophysics, will open its doors to alumni on Sunday 27 October.

The field station is about 40km north of Adelaide near Two Wells, and was acquired by the University in the early 1960s when a large property was broken up.

The Department of Physics and Mathematical Physics established an antenna array covering one square kilometre for a radar system used to measure winds in the upper atmosphere. Since then other radars have been developed and a large array of particle detectors has been installed to study elementary particle air-showers initiated by cosmic ray particles.

The Department and the Alumni Association join in inviting all alumni to come to Buckland Park for a barbecue and a tour of the research facilities. Why not make it a family day out? Further details will be published in the next edition of the *Adelaidean*.

Don't you dare write me a dull Obituary!

Mary Hope St Clair Crampton
18 May 1901 - 8 August 1996

Hope Crampton was Senior Lecturer in French Language and Literature at the University of Adelaide from 1930 to 1960. She was born in Renmark, South Australia, the only child of John Crampton (from North England) and Amy, née St Clair (from Scotland). She attended Girton Girls' School and then the University of Adelaide where she obtained her degree in Classics. After some years in Europe she returned with a Diploma from the Institut de Phonétique, Paris, and joined the staff of Adelaide University, where her father was Lecturer in French. Students of the 40s may remember her swinging into the University grounds at 30mph on "Phut-Phut", her trusty autocycle. Classes were smaller in those days, and colourful characters were prized.

I can hear Hope saying: "Don't you dare write me a dull Obituary!" Dull she never was, with her witty, whimsical sayings and her departures from the academic stereotype.

As a teacher she was infectiously enthusiastic in her presentation of writers she liked, and devastatingly dismissive of those she did not. She had a passion for the well-turned phrase and a distaste for the pedantic. A badly-written essay would earn, "You have indeed shown us what French prose can be", with a glare from her famous lorgnette.

Her favourite French novelist was Balzac: she published a study of an aristocratic bibliophile who had inspired one of Balzac's characters; but better-known among the chosen few was her parody of literary criticism, "The Wen on Grandet's Nose". Her MA thesis, somewhat surprisingly, was on Shelley compared to the "Parnassian" poet Leconte de Lisle. "Publish or perish" was not yet the order of the day, and Hope will be remembered rather as raconteuse and scribbler of humorous verses than for any "orthodox" scholarship.

She planted seeds, however: many of her students became teachers of

French at both secondary and tertiary level; at least one is a "Balzacian" in her own right, and another even married a Frenchman! She encouraged us to practise French conversation at the "French Club", where we acted scenes from Molière and played childish games. In 1935 she wrote *Gaudissart: A Guide to Better French Pronunciation and Brighter French Conversation* (Melbourne, OUP) which became a textbook in Adelaide schools. She also taught some of us Spanish, promising the delights of one day reading *Don Quixote* in the original. She left an unfinished translation of a modern Spanish novel, *La Frontera de Dios*, whose hero is a wonder-worker who disconcerts the village by restoring a dead canary to life; just the thing to appeal to Hope! (The author: a priest, JL Martin Descalzo).

She retired on her 60th birthday and set out on her travels. Before revisiting Europe and exploring Russia and Turkey, she spent a year with a religious community in New Guinea teaching English to Ordinands for Anglican Ministry. She read them Homer!

She finally settled in her "Humpy" in the Adelaide Hills and took up watercolours; her teacher was the painter Ruth Tuck. She had one exhibition, the "Theodosia Series": Theodosia was a china cat "Looking at herself in a Mirror", "Admonishing the Barbarians", with other poses. She also wrote an illustrated Autobiography of her cat Troilus; all her cats had Shakespearean names, except poor Petunia, who was betrothed to the neighbour's Tom until it was revealed that the fiancé was "not quite ... er ... all there ..." One day the new Vicar (who knew not Hope) was startled when she explained that the bowl of rose-petals beside her easel was not her "subject", but her lunch.

Some people were unnerved by her quizzical gaze and her maddening refusal to "talk seriously" (she could be downright rude: "Miss Crampton, do you think more in French than in English?" — "Oh, I resolve that dilemma by endeavouring not to think at all.") but she had a shrewd understanding of what happens in the world as well as in



A Ruth Tuck sketch of Hope Crampton which hangs in the French Department. Photo: David Ellis

books, and could express anger at "shabby behaviour" as readily as impatience with ponderous talk. She never mentioned her personal feelings except in mock-heroic tones, but she was sympathetic and perceptive about the feelings of those she loved, and befriended many a person in distress. She liked to play the role of bluestocking-cum-eccentric English gentlewoman (flavour Edwardian) and one had to crack the code to discover the tender heart, the adventurous spirit, and an old-fashioned "innocence without ignorance".

My last visit to Hope was at the Hahndorf Nursing Home, where her sparkle was still undimmed, and where the staff appreciated her personality. She referred playfully to the Matron as "She who must be obeyed". In her bookshelf were: a Greek Grammar, the Book of Common Prayer (Cranmer's prose; she would have no truck with modernised versions) and the Poems of Robert Browning. She had no wish to "live an unconscionably long time", not even despite her reverence for the Monarchy, to receive the Queen's Telegram on her 100th birthday.

I once heard her quote some lines from Browning's "Abt Vogler"; I think she would have liked them for an epitaph.

"... my resting-place is here,

The C Major of this life; and now I will try to sleep."

—Margaret Denat (née Johnson)

Singapore seminar on higher education

The University of Adelaide Chapter of Australian Alumni Singapore is hosting a dinner and seminar for alumni of The University of Adelaide, the Flinders University of South Australia and University of South Australia and members of Australian Alumni Singapore.

The theme of the seminar is "The future of higher education in South Australia: implications for international students" and the speakers will be Dr Harry Medlin, Senior Deputy Chancellor, Chair Alumni Association, The University of Adelaide; Professor Ian Chubb, Vice Chancellor, The Flinders University of South Australia; and Mr Bob

Koehne, Manager, International Projects Unit, University of South Australia

Themes to be addressed include the implications of the recently announced federal funding cuts for Adelaide as a University City and particularly how the changes might impact on students wishing to come to Adelaide to study at one of the three universities. Strategies by both the higher education sector and government for coping with change and for encouraging international students to come to Adelaide will be canvassed.

A cross-institutional perspective will be given on a most important

issue followed by questions and answers.

The venue is the Medical Alumni Centre at Singapore General Hospital, corner College Road and Outram Road, Singapore.

The event will commence at 6.30pm on Wednesday 16 October 1996 and the Seminar follows a buffet dinner at 8.00pm.

Registration: S\$20 includes a buffet dinner and soft drinks. Cash bar available.

Bookings: Dr Richard Hin Yung, Tow Yung Clinic, Tanglin Shopping Centre, 19 Tanglin Road #05-01, SINGAPORE 247909.

Engineering draws crowds at Show ...

If you missed the University of Adelaide's engineering display at this year's Royal Show, you must have been one of the very few.

The Faculty of Engineering put on a lively exhibit in the Jubilee Pavilion (Wayville Showgrounds) to show the public how engineering research and knowledge can be put to practical use.

Displays from each of the faculty's four departments included:

- a model of the Penrice Soda Ash plant and a computer simulation of an industrial process (Chemical Engineering)

- a wave tank with a model

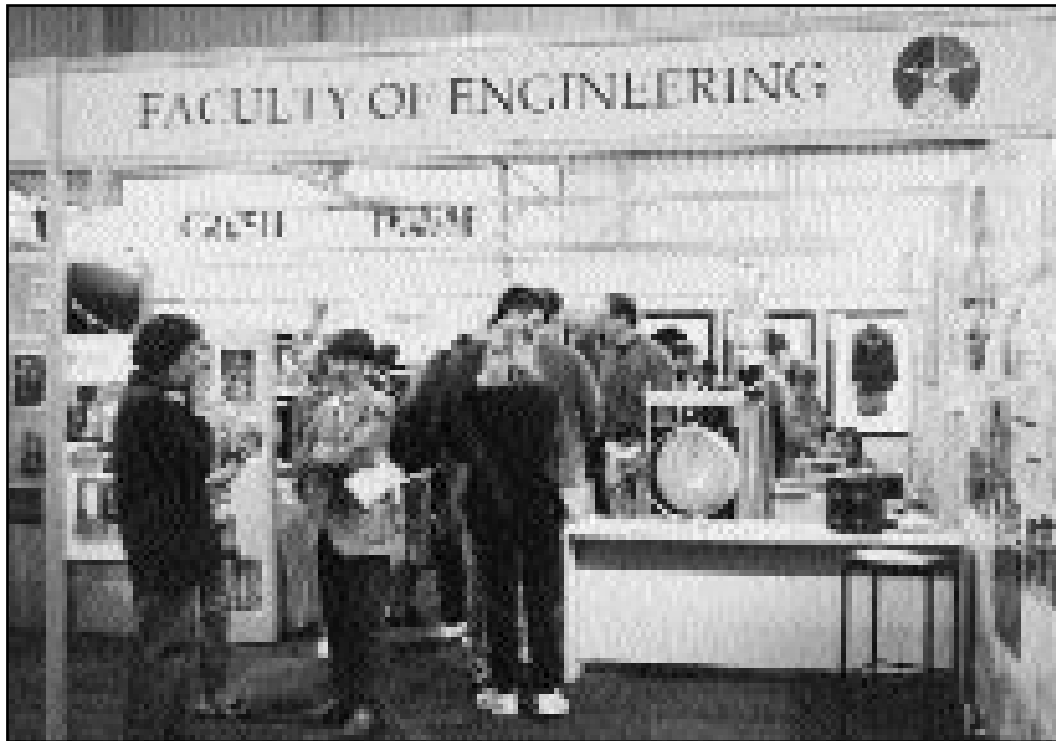
marina and a computer to display waveforms, and a model of a pre-stressed concrete bridge (Civil & Environmental Engineering)

- a Lego model of a production line using a programmable control unit (Electrical & Electronic Engineering)

- a Polariscope and an active noise control unit (Mechanical Engineering)

Tens of thousands of people are estimated to have seen these displays over the two weeks of the Show, helping to increase the profile of engineering in the wider community.

—David Ellis



Engineering display draws the crowds. Photo courtesy of the Faculty of Engineering.

.. and 'Connection' creates stir in Sydney

Advertisement

University of Adelaide jazz choir The Adelaide Connection was a star attraction at the 4th World Symposium on Choral Music in Sydney last month. The group was one of 27 choirs from 23 countries invited to participate, and the only jazz choir to perform in what is generally recognised as a traditional choral festival.

During its trip, the group appeared at the Sydney Opera House as part of the opening night concert, at the Sydney Conservatorium, in the Sydney Town Hall, and at The Basement, one of the most popular jazz clubs in Australia. Its Town Hall performance was as part of a workshop on jazz choir rehearsal and performance techniques given by the group's Director, Elder Conservatorium lecturer in

voice, Ms Connaitre Miller.

"The workshop was extremely well attended (at least 900 people), including many delegates from other countries as well as about 300 high school and primary school students," Ms Miller said. "The children were very excited by it and many declared themselves ready to try that 'scat' thing."

Connaitre Miller said the group's presence at the symposium had aroused considerable interest, with many other choir directors keen to get information on its music, rehearsal techniques and performance practice.

"Perhaps the most exciting thing to happen all week was the reception of numerous invitations to tour other countries. We were asked to go to South Africa, Argentina, Austria,

France, Canada and Japan, and it will be interesting to see if anything comes of this.

"It was very satisfying to know that people were so moved by our music that they wanted to have us come to their countries," Ms Miller said. "I think the University of Adelaide would have been extremely proud of its representation by The Adelaide Connection during this world class festival."

The Adelaide Connection has made three recordings, which are available at all good record stores: Makin' Whoopee, with Don Burrows; Nice'N'Easy, which was nominated for the Best Australian Jazz Record at the Australian Recording Industry Awards in 1988; and Gotcha.

ACCOMMODATION

BEAUMONT: 3br, fully furn incl linen and cutlery. Heated pool. Close to buses. Ring Mary 8431 5202.

DAW PARK: Lge spotless 1br unit, lounge/dine, kitchen, bathroom/laundry. Neat rear yard. Close to shops and transport. \$80 pw. Ph 8272 0666.

NAILS WORTH (PROSPECT): Looking for 2 women to share beautiful, vegetarian, non-smoking house. Lge rooms, open fireplaces, polished wooden floors, loads of character and imminent herb and vegie garden. Close to uni, city, transport & shops. \$60 pw + expenses. Ph 8342 0486.

NORTON SUMMIT: Lge 4br villa. Avail for 12 mths from Jan '97. 20 min from city. Garden, old orchards, bush, dam in tranquil setting. Furnished if required. \$200 pw. Ph 8390 1829 (ah).

NORWOOD: 2 br, blue-stone cottage. Furn, including w/mach & crockery, etc. Includes living rm & dining area, small garden, off-street parking, close to bus & shops. Suit couple.

\$190 pw. Ph 8302 2047 (w) or 8332 1413 (h).

PARA HILLS: Non smoker to share 3br house with 31 year old professional male. Cost \$60 pw plus expenses. Ring Steven 8303 5783 (wk) or 8263 7545 (hm).

ST PETERS: Person (vegetarian, non-smoker, 28 plus) to share house with 2 women and cat. \$62.50 pw + exp + bond. Ph 8362 1360.

TUSCANY (ITALY): Beautiful historic farmhouse between Florence & Siena. Fully restored and owned by Melbourne architect. Avail for rental from Nov '96. Accommodates up to 6 adults in superb location with wonderful views. For coloured brochure and booking details ph (03) 9818 8859 or fax (03) 9428 6897.

UNLEY: 2br unit. Air con, sep dining and lounge areas. B-in robes, 1st storey, in group of 30 units. \$120pw + bond. Carport & garden area. 2kms from Victoria Sq. Bus & tram very close. Onsite laundry, coin op. Ph 8271 4925.

WANTED: Person, 27-38, non smoker pref, to share house in the Croydon to Dulwich areas. Rent approx

Adelaidean

CLASSIFIED

\$60 pw. Ph 8371 7686.

WANTED: 2-3 br house close to Uni for IT Manager. Required 4-6 mth lease. Ph 019 979 162.

WANTED: Single professional, refs, seeks long term house-sitting, 6 - 8 months. Ring Margaret 8278 5365.

FOR SALE

BARINA: 1987. Electric blue, auto, air, central lock, alarm, stereo. Good condition. VHD 967. \$6,350 ono. Ph 8268 4512 (ah).

DATSUN 240K: 1976. Has been cheap and reliable but will need work. Owner going overseas. SBX 991. \$750 ono. Ph 8342 0450.

EQUIPMENT: Mettler 0-16 kg Electronic balance: 0.1g accuracy, electronic interface. \$600. Incubator: 170 Ltr, electronic temp control, stainless steel. As new. \$400. Variable pipettors: 1ml, 5ml, 10ml. \$40 the lot. Ph Alex 8303 5899 or 8356 3925.

FOAM MATTRESS: Double bed, wood box

base. \$75. Ph 8271 3386.

GENUINE PERSIAN CARPETS: Flowery, top quality, tabrizi pattern: 1 @ 1m x 1.5 m. \$1,500 ono; 1 @ 1.3m x 1.8m. \$2,200 ono. Ph 8379 0828.

HOLDEN CAMIRA: 1986 SL/X wagon, 1.9 EFI, air con, stereo rad/cass, tinted windows, tow bar, 10 mths reg, good cond. VNB 044. \$4,600 ono. Ph Sam 8303 5832 or 8271 1182 (ah) or email: sakkach@arch.adelaide.edu.au

LAND: 30m x 15m level block, fenced on two sides, soil report. Ocean/hills views. Southern area. \$25,500. Ph 8326 5026 (after 6 pm).

LJ TORANA: 1973. RYM 980. \$500 ono. Ring George 8352 6064.

MITSUBISHI SIGMA: S/wagon, 1981, exc cond, 5 speed, air cond, T-bar, roof rack, stereo, 7 months rego, good tyres, new battery. SPF 102. \$2,800 ono. Ph 8332 3386.

TOYOTA CAMRY: S/wagon, 1991, 5 speed,

power steering, air cond, white duco, grey trim, exc cond, only 88,000 kms. VEJ 320. \$13,500 ono. Ph 8373 2256 (bus) or 8274 1849 (ah).

DEPARTMENTAL

MITSUBISHI MAGNA: S/wagon, 1994, white, 16,334 kms, manual, air cond, car immobiliser, mudflaps. VOU 703. To arrange inspection ph Stephen Guest ext 35467. Tenders in a sealed envelope marked Tender No W180, to the Purchasing Manager, Waite Campus, by Fri 27 Sep, '96.

MISCELLANEOUS

GIVE AWAY: Ladies 2 wheeler bike. Old, no gears. Call Vicki 8303 5406 or go to Students' Assoc Office, George Murray Bldg.

HELP: Males 18 years or older to participate in a study for a master of psychology thesis connected with prostatic and testicular (male) cancers. Participants will be required to complete a questionnaire. Ph Peter Queale 8303 5693 or 8338 2386

WORD PROCESSING:

\$2.50 p/p @ 250 words p/p; Thesis, formatting/proof reading of your data entry; accurate spelling; city location; 7 day service; fax; 24 hour pager. Ph Anne Every 8415 7866.

WANTED

BOYS' BOARDING HOUSE ASSISTANT: An opportunity exists in Campbell House, Pembroke School for a Boarding House Assistant. The position offers full board and lodgings for the duration of the School year. In return, the successful applicant is expected to do duties of 15-18hrs pw contact time which includes supervising, tutoring and the pastoral care of boys from Years 7 to 12. Applications in writing, including the names and addresses of two referees, to: The Deputy Principal, Pembroke School, 342 The Parade, Kensington Park, SA 5068.

SOPRANOS/ALTOS/TENORS/BASSES: To sing a broad range of predominantly christian music in a small group. Repertoire includes afro-american music, classic music, modern music, ethnic music and madrigals. Contact Helen 8370 3615.