

Embarrassing health problems a silent epidemic

PELVIC floor disorders may be much more common than previously thought.

Adelaide University researchers, in the first comprehensive study of its kind in the world, have found a remarkably high prevalence of pelvic floor disorders in the general population.

These disorders can be a serious cause of discomfort and even disease, especially among women. The disorders may prompt incontinence, vaginal or uterine prolapse, and haemorrhoids. Bowel and bladder problems can add to a marked reduction in the quality of life.

Pelvic floor problems have traditionally been associated with pregnancy, the bearing of large numbers of children and with having them delivered by instrument. Delivery by caesarean

section has been supposed to lessen the chances of resulting pelvic floor disorders, but the researchers discovered that birth by caesarean section reduces those risks only slightly. Most of these complaints were still common among women who had never had a vaginal birth.

"It seems that caesarean section, contrary to popular belief, cannot avoid permanent connective tissue changes that seem to happen during pregnancy," said Associate Professor Alastair MacLennan of the University's Department of Obstetrics & Gynaecology (Women's & Children's Hospital).

"Pelvic floor exercises and surgery can help, but unless mothers avoid giving birth, by means such as surrogacy or adoption, future pelvic

floor problems after pregnancy are very likely," he said.

The cross-sectional population survey involved more than 3000 South Australians.

Urinary incontinence was found in 4% of men, but in 35% of women aged from 15 to 95, increasing to 50% among older women.

More than 14% of women were found to suffer from rectal incontinence of flatus or faeces, while fewer than 10% of men suffered from the same conditions.

Other health factors associated with pelvic floor disorders were found to be weight, coughing, osteoporosis, arthritis, and reduced quality of life.

Symptoms of haemorrhoids also increased with age, appearing in 20% of men and more than

30% of women.

"The survey highlights the high prevalence and major social impact of pelvic floor prolapse and incontinence in our society," said Professor MacLennan.

"It is a silent epidemic, as those with the problem are often embarrassed to talk about it."

The results of the study are being published this month in the *British Journal of Obstetrics and Gynaecology*.

The research will also feature in the December issue of *Climacteric*, the journal of the International Menopause Society, which will devote its editorial to a discussion of the problem and a plea that it should receive greater medical attention.

—Rob Morrison

Art history courses open gallery to students

ADELAIDE University and the Art Gallery of South Australia have joined forces to provide new postgraduate courses in art history in 2001.

The new courses are the first of their kind in Australia, drawing on existing teaching strengths in the University's Faculty of Humanities & Social Sciences, and making use of the Gallery's extensive collections and curatorial expertise.

There are four new courses: a Professional Certificate, Graduate Certificate in Art History, Graduate Diploma in Art History, and a Master of Arts (Studies in Art History).

Each combines formal University lectures with sessions working with collection curators at the Art Gallery. In addition to developing an understanding of the study of the history of art, and the goals and methods of connoisseurship, students will have the opportunity to view and study masterpieces not available for current viewing.

"This is an exciting and intensive program, which we have developed in close collaboration with the Gallery's Director, Mr Ron Radford. We shall be offering a choice of early-evening courses to provide maximum flexibility for those studying either for their personal or their professional interests," said the Executive Dean of the Faculty of Humanities & Social Sciences, Professor Malcolm Gillies.

"The program has been designed to encourage students to consider fundamental questions and problems in the history and historiography of art as it relates to their own direct experience of original works.

"By exercising the eye as keenly as the mind, students will be able to exploit the incredibly rich collections of the Art Gallery of South Australia," he said.

This is the first time that a collaborative program in art history has been offered jointly by the premier university and art museum of any Australian State, with academic and curatorial staff of the University and the Gallery providing the teaching.

Core subjects will be in European, Australian and Asian Arts, with elective subjects in areas such as contemporary art, Australian colonial and indigenous art, European paintings connoisseurship, Japanese and Southeast Asian art, prints, drawings and photographs.

The Graduate Diploma and Masters programs will also offer opportunities for internship or curatorial placement at the Art Gallery.

Students who enrol in an internship will not only experience work in the curatorial department, but also have exposure to other areas of the Gallery's administration, such as public programs, marketing and public relations, and sponsorship and registration.

"Collaboration with other institutions always provides unique opportunities for staff and students. This will be an excellent example of such profitable working together," Professor Gillies said.

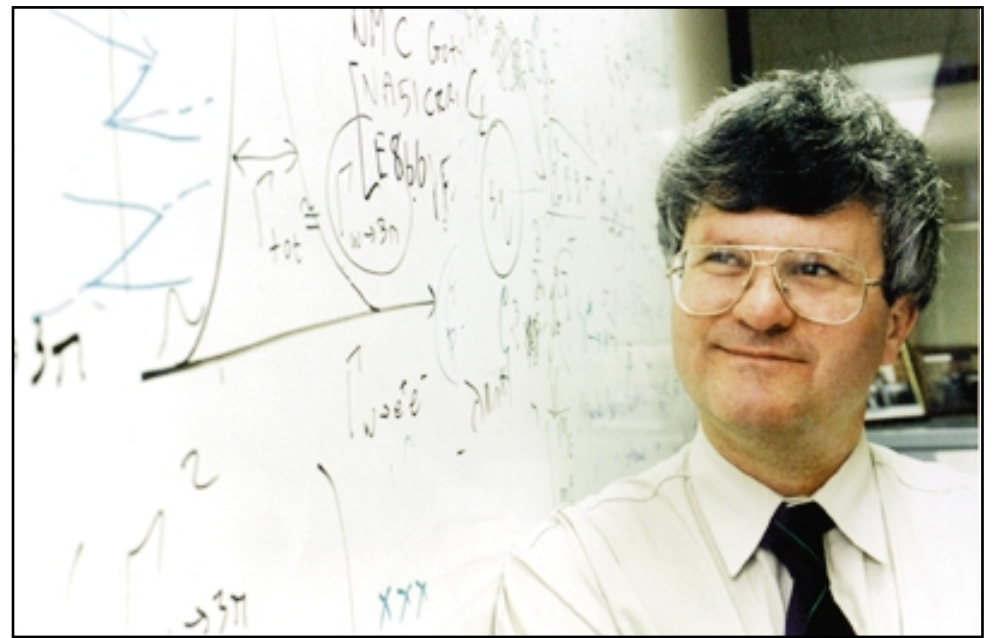
"The Faculty is extremely pleased to be able to offer these academic programs in conjunction with the Art Gallery, and we expect them to be in demand both locally and nationally."

—David Ellis



The Art Gallery of South Australia. Photo: David Ellis.

British medal for physicist



Professor Tony Thomas. Photo: Brenton Edwards.

THEORETICAL physicist Professor Tony Thomas has been awarded the Harrie Massey Medal from the UK Institute of Physics.

Professor Thomas will be presented with the medal during the 14th National Congress of the Australian Institute of Physics, to be held at Adelaide University from 10-15 December.

The medal, awarded biennially, acknowledges outstanding contributions made to physics in Australia, or by an Australian physicist working anywhere.

The citation describes Professor Thomas, Director of Adelaide University's Special Research Centre for the Subatomic Structure of Matter (CSSM), as "one of Australia's most outstanding theoretical physicists, who has made internationally recognised contributions to a tremendous number of problems in nuclear and particle physics".

One example of his research cited is the "cloudy bag model" invented by Professor Thomas and his co-researchers. It led to three papers now classified as famous by the SPIRES database at Stanford Linear Accelerator.

"Wherever possible," continues the citation,

"abstract ideas have been developed to the point where they can be tested experimentally... Professor Thomas's work has had, and continues to have, a major international impact."

"It is a great honour to have one's work recognised in this way," said Professor Thomas, "however I must also acknowledge a tremendous debt to my colleagues at the CSSM and around the world. My own work has benefited greatly from the personal exchanges which are essential to good science."

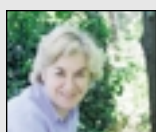
The President of the Institute of Physics, Professor Sir Gareth Roberts FRS, will present the medal to Professor Thomas.

The award will be made during a special plenary session of the Australian Institute of Physics Congress in Bonython Hall on 11 December at 5.45pm. After the presentation, Professor Thomas will deliver the Harrie Massey lecture, entitled "Probing the heart of matter". The lecture is open to the public and free of charge.

—Rob Morrison

See also our feature article on subatomic physics, page 5.

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STEPHEN COLE PRIZES

EXCELLENCE IN TEACHING

DECEMBER is the month of graduations at Adelaide University, a time to highlight students' achievements, their years of hard work, and the realisation of their goals.

But the graduation ceremonies also highlight the achievements of academic staff who play an instrumental role in teaching those students.

This year, during the graduations in Bonython Hall from 18-21 December, the Stephen Cole the Elder Prizes for Excellence in Teaching will be awarded to four staff members who have made unique contributions to teaching at Adelaide University.

For Department of Chemistry senior lecturer **Dr Mark Buntine**, teaching is as much about "hands-on" learning as it is anything else. Dr Buntine prides himself on making his teaching as accessible, and easy to understand, as possible.

"I've always been heavily into research but I also really enjoy my teaching, so receiving the award is a very pleasant bonus," he says.

Dr Buntine specialises in the area of physical chemistry, which can be very costly to teach due to the expensive nature of the equipment needed for experiments.

"While the experiments can be expensive, they are also the best way to learn. Physical chemistry has a reputation of being a 'boring' subject, but I think that with the right combination of course material and experiments, students can really become motivated towards it," he says.

"I'm not a big fan of the modern trend towards flexible delivery, and computer-based learning, and the other buzzwords of today's education. In chemistry, and in physical chemistry in particular, the best way to learn is by rolling up your sleeves, getting in a laboratory and doing things for yourselves."

Dr Buntine ranks one of his biggest teaching achievements during his time at Adelaide as being one of the founders of the Australian Physical Chemistry Enhanced Learning Project (or APCELL), which involves 35 Australian universities pooling their physical chemistry resources in order to further enhance student learning.

The diversity of students' backgrounds is one of the prime attractions of teaching at Adelaide University, according to Department of Physiology lecturer **Dr Nicky Hudson**.

Dr Hudson joined the Department of Physiology in 1995, after a career in paramedical research and teaching around the world in such places as Canada, England and Fiji.

Working in some many different places has led to a greater appreciation of different cultures, an appreciation which has followed on to her teachings in Australia.

"Because Physiology is studied by medical students as well as science students, I deal with students from many backgrounds and cultures, which is something that I really enjoy about my teaching," she says.

"I have a particular interest in indigenous health, and also enjoy meeting and helping international, as well as Australian students, with their studies."

Dr Hudson's philosophy on teaching is simple: "I try to show enthusiasm, concern and respect for all students and their learning," she says.

"I aim to integrate educational practice and scholarship by advancing or transforming knowledge in a creative, disciplined and informed manner."

In an added bonus, Dr Hudson will receive her Stephen Cole prize at the same December graduation ceremony as her daughter, Dr Sarah Hudson, will receive her PhD in Obstetrics & Gynaecology.

Making teaching as practical and as hands-on as possible is also **Dr Gerald Schneider's** secret to teaching.

A lecturer in the Department of Mechanical Engineering, Dr Schneider has played a key role in establishing aerospace engineering at Adelaide University. He has supervised a number of students in this field, and the students have been so keen to learn more about aerospace engineering they have, under Dr Schneider's guidance, established a Student Branch of the American Institute of Aeronautics and Astronautics.

"I feel very privileged and honoured to be awarded such a prestigious prize for teaching at Adelaide University," Dr Schneider says.

"I would like to thank the people who have nominated me for this prize, with special thanks to The Sir Ross and Sir Keith Smith Fund for supporting my position as Lecturer in the Department."

Dr Schneider believes his job as a teacher is becoming easier thanks to new sources of information and versatile teaching aids, such as the internet, video, and powerpoint presentations. He says he gets enormous satisfaction from teaching.

"I can remember one particular case when the parents of a fourth year student came up to me during our project exhibition and thanked me for teaching their son how to learn. They said they have not seen him studying a subject (Aerospace Engineering) so enthusiastically before and that I had made a real difference."

Associate Professor Rob Woodbury from the School of Architecture, Landscape Architecture & Urban Design believes he is just one of several staff in his School who could have won the prize.

"Being surrounded by excellent teachers makes teaching well yourself a lot easier. It helps too



Dr Nicky Hudson, one of the recipients of the Stephen Cole the Elder Prize for Excellence in Teaching for 2000. Photo: Ben Osborne.

to have good students, and the School has these in droves," he said.

"For me, teaching is a wonderful frustration. It is wonderful because I get to see the 'lights turn on' for students on a regular basis. It is frustrating because when I look back at a term's teaching it is just so obvious what I could have done better."

Dr Woodbury knits together what the School calls 'creative action' with 'critical thought': "I'm constantly requiring students to both propose designs and take various critical stances on their own work and the work of their peers. This worked especially well this year in my first year composition class. The quality of work and level of debate in the year's final presentations was quite amazing."

Among other things, Dr Woodbury teaches computing in design, especially how computers are transforming the practice of architecture. He has also helped pioneer the use of the internet as a teaching tool.

"If my efforts here have had a focus it has been on encouraging students to become diverse in their skills and robust in learning new things about computers. It is marvelous to see that a growing number of our graduates are both capable and fearless in using and adapting this relatively new medium," he says.

The eight ceremonies for the December graduations are as follows:

- Monday, 18 December - 10am
Faculty of Humanities & Social Sciences
- Monday, 18 December - 3pm
Faculty of Humanities & Social Sciences
- Tuesday, 19 December - 10am
School of Commerce
School of Economics
Graduate School of Management
- Tuesday 19 December - 3pm
School of Architecture, Landscape
Architecture & Urban Design
Elder Conservatorium - School of Performing
Arts (including AMEB)
- Wednesday, 20 December - 10am
Dental School
Medical School
- Wednesday, 20 December - 3pm
Faculty of Science
- Thursday, 21 December - 10am
School of Engineering
School of Mathematical & Computer Sciences
- Thursday, 21 December - 3pm
Faculty of Agricultural & Natural Resource
Sciences
School of Law

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Michelle is our supervisor of the year

DR MICHELLE Barnes from the School of Economics was named Adelaide University's Supervisor of the Year at the Postgraduate Students Association awards.

At the time the awards were announced in October, Dr Barnes was out of the State. The *Adelaidean* was keen to catch up with her when she returned.

Dr Barnes has supervised numerous PhD, Masters and Honours students since taking up an academic position-her first-at Adelaide in 1998.

Born in the United States, she completed both her PhD and Masters in Economics at John Hopkins University in Maryland after obtaining her Bachelor of Quantitative Economics and Decision Sciences from the University of California, San Diego. Dr Barnes has been involved in the development of the Finance curriculum at Adelaide, and is presently Honours Coordinator for the Bachelor of Finance, as well as the Adviser for the School of Economics on issues pertaining to the Bachelor of Finance. Next semester she will be on study leave as a Visiting Scholar at UC Berkeley.

The Postgraduate Students Association presents annual awards to academic and general staff for their valuable contribution to postgraduate study. Dr Barnes described her award as a "real thrill". "The relationship between a postgraduate student and the supervisor is quite a powerful one," she said. "I really enjoy helping people, so I'm quite pleased that my students were happy enough to nominate me."

—Ben Osborne *Dr Michelle Barnes. Photo: Ben Osborne*



Head start for gifted students

GIFTED secondary school students in Adelaide's metropolitan area now have the chance to get a head start at uni.

Adelaide University has launched a new Headstart Scholarship Program for 2001, an accelerated entry scheme for academically gifted secondary students.

Designed in consultation with schools, the new program is aimed at meeting the needs of gifted and exceptionally motivated students who require a challenge beyond the Year 12 curriculum.

The program targets students who have already successfully completed subjects at SACE Stage 2 or International Baccalaureate Diploma level.

During the course of Year 12, those students chosen for the scholarship can study up to 12 units (or the equivalent of a half-year's workload) of first-year study at Adelaide University.

They will attend classes and sit examinations on the same basis as other students. Grades will be recorded and can be used for status once the students are admitted into an academic program at the University, allowing them to fast-track their study or take a wider range of courses than usual.

Headstart students will also receive mentorship and guidance as they make the



transition from high school to university.

Because the program is a scholarship, it provides funds to cover the students' HECS and other fees for that year.

"This is the first time Adelaide University has offered such a scheme, and it is an exciting venture both for us and for secondary students," said the Director of the Prospective Students Office, Mrs Elizabeth Geddes.

"Although similar schemes exist in other States, Adelaide's Headstart Program does not incur a cost to students."

The number of places offered to the Headstart Scholarship Program is limited, and each application will be assessed on its merits.

For more information contact Paula Ritchie, phone 8303 4379 or email: <paula.ritchie@adelaide.edu.au>.

—David Ellis

Industry sponsors scholarship

WASTE management company Collex Pty Ltd has committed \$100,000 to Adelaide University over the next five years to support postgraduate research into the environment.

Collex will provide \$20,000 per annum for the next five years, establishing the Collex Finders-Baudin Adelaide Scholarships.

As the name suggests, the scholarships are to help commemorate the 200th anniversary of the meeting between England's Captain Matthew Flinders and France's Captain Nicolas Baudin, who in the course of their independent naval expeditions met at Encounter Bay in April 1802. Both around South Australia expeditions made significant progress in scientific exploration.

The scholarships are for students undertaking postgraduate doctoral research degree in academic areas related to environmental or sustainable environmental issues.

"We're delighted that Collex has agreed to support us and our postgraduate research students in this generous and innovative way," said the University's Pro Vice-Chancellor (Development), Dr Norman Ashton.

"The company's commitment of \$100,000 over the five-year period is another real indication of the increasing collaborative links being established between major business enterprises and Adelaide University," he said.



The signing of the agreement between Collex Pty Ltd and the University at the head office of Collex in Sydney. The deal will provide \$100,000 over five years. From left: Dr Norman Ashton, Pro Vice-Chancellor (Development), Adelaide University and Mr Tony Morrissey, General Manager Human Resources, Collex.

SA Youth Awards Showcase

NOMINATIONS for the SA Youth Awards Showcase close on 28 February 2001.

There are nine awards in total, sponsored by industry, the State Government and Adelaide University.

An initiative of Paradise Community Services, the awards aim to identify young South Australians between the ages of five and 25 who have already demonstrated their achievements by becoming a finalist in one of the many other awards available to young people in the State.

The SA Youth Awards Showcase takes into account young people who have been

nominated as finalists in awards up until December 31, 2001.

In selecting a winner for each category, the judges are not bound to select entrants who have previously won another award. All young people who have reached the finals of another award are equally eligible.

The categories are:

- Adelaide University Leadership Award
- Caddle Crash Sports Award
- Coles Achievement Award
- ETSA Utilities Community & Service Award
- Mitsubishi Initiative Award

- Motorola Science & Technology Award
- Rys Pty Ltd/A & J Electrical Inspirational Award
- Toro Australia Natural Resources & Environment Award
- SA Government South Australian Young Person of the Year

For each category the winner receives a \$2500 cash prize. The overall winner will receive a further \$2500 cash prize and an overseas travel package for two sponsored by Qantas and Novotel.

For nomination forms or other enquiries, call Paradise Community Services on (08) 8336 0066, or email: <pcs@pcs.org.au>.



A time to celebrate

One of the most popular events in our 125th anniversary celebrations last year was the end-of-year "town-and-gown" party on the Goodman Crescent Lawns. Many staff remarked how much they enjoyed mixing with colleagues, alumni and friends of the University in a festive and informal setting.

I hope as many staff as possible will come along to this year's town and gown party at Goodman Crescent on Friday 8 December (4.30pm-7pm). Like last year, it will provide an opportunity for hundreds of members of the University community to get together with friends from the public and private sectors in a shared celebration of the University's achievements. There's no shortage of reasons to celebrate: it's our 126th year, it's the festive season and it's the end of the academic year.

As a University, we can take pride in what we've achieved over the past 12 months. In a difficult external environment—continuing funding pressures and ever-increasing international competition—we have made good progress in several key areas of research and education. I want to take this opportunity to thank all staff members for their contribution and to record my appreciation of your efforts. Our greatest strength as a University is the quality and commitment of our staff.

One of the most encouraging developments of the past year has been the growing realisation across the University of the changes we need to make—and why we need to make them. There's a better understanding of the realities we face as a University and a willingness to take a good hard look at the way we work.

I'm pleased also with the way the University has lifted its national and international profile. This is one of the key challenges identified in our Strategic Plan as a prerequisite to being recognised as a great world university. We have generated widespread interest for innovative academic programs such as the Masters Degree in Science and Technology Commercialisation and the Masters Degree in Gastronomy, both of which are being offered in conjunction with world-renowned institutions (the University of Texas in Austin and the French cooking school Le Cordon Bleu, respectively). Our involvement in the Olympic torch and cauldron project has also focused attention on the excellence of our engineering research.

The past year has also seen us build solidly on our strengths—another key strategic goal. The opening in October of the \$18 million Molecular Life Sciences Building ensures that the University will continue to be an international bioscience leader in the 21st century. The new building represents one aspect of a range of research taking place across the biological sciences, including work in wine, food, nutrition, medicine and the environment. (One of the other pleasing developments of the past year has been the increased international recognition of our strength in research themes, particularly in food, wine and nutrition.)

Our links with industry have been strengthened and extended on several different fronts. The most significant was the signing of an official agreement to establish the Santos School of Petroleum Engineering and Management funded by \$25 million sponsorships from Santos over the next 10 years.

On a sadder note, we mourned the loss of our Chancellor, Bruce Webb, and former Chancellor Dame Roma Mitchell, both of whom made valuable contributions to the development of Adelaide University. Our new Chancellor, Robert Champion de Crespigny, has already demonstrated his strong commitment to the University and I believe he will be a major asset.

The advances of the past year represent further stepping stones on the path to our future. They keep us on track to meet the challenges we have set ourselves and I believe they provide solid foundations for continued growth.

I extend season's greetings and best wishes for the new year to all staff members, alumni and friends of the University. See you at the town and gown party!

MARY O'KANE

Visitor from Texas



ADELAIDE University could become the destination of choice for students wishing to study abroad, following the recent visit of a Rice University administrator.

Ms Shannon Cates (right) is the Associate Director of International Training at Rice University, which is located in Houston, Texas. Her main role is to promote and assist undergraduate students at Rice to study abroad on a variety of approved programs.

Her primary interest in Adelaide as a destination for students is in the fields of science and engineering, and she met with several representatives in these disciplines, as well as touring the Waite campus.

She is pictured with the Director of the Prospective Students Office, Mrs Liz Geddes.

Ethical initiatives a matter of course

THE December edition of *Australian Innovation Magazine* will carry a cover story on stem cell research in Australia.

Adelaide and Monash universities, the pioneers of this research in Australia, will feature in this issue of the quarterly. As the federal government's own publication, the magazine carries news of the country's best science and technology to a wide international audience.

But stem cell research is about more than technology. The same can be said of genetic engineering, human reproductive medicine and other issues now at the forefront of science. Most have significant ethical implications.

The Faculty of Health Sciences will offer two new subjects in Bioethics next year. Called Ethical Issues in the Biomedical Sciences (II & III), they will cover issues such as research practice, death and dying, reproductive technologies and ethical decision making.

"The increasing investment in research for commercial or political gain poses questions that affect those involved and the community at large," said Dr Jeff Trahair, one of the three coordinators of the subjects.

"There is no shortage of dilemmas facing us all in the present and future. They present a creative opportunity for answering the question 'what do we want to become?'"

Adelaide University is poised to be an ethical 'hot seat' because of its relationships with industry in areas of ethical concern, and students will increasingly be involved in research programs with significant ethical implications.

The subjects have been designed initially for Science and Health Science Students, but the three coordinators are drawn from the University's departments of Anatomical Sciences, Philosophy and Public Health. Despite the problems of mounting such a program across different departments and even different faculties, they cite many rewards, particularly the synergies of working with colleagues who have different perspectives.

They hope that the subjects will attract students from across the University, and eventually develop into a full academic stream with a community placement program.

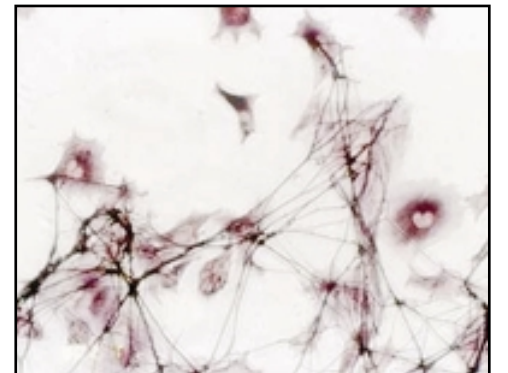
"We hope this course will become well known within the University community and that it will increase the standing of the University in the wider community and among peer institutions," said Dr Annette Braunack-Mayer.

Dr Denise Gamble agreed: "We hope to develop our graduates' capacities for responsible practices both professionally and personally," she said.

—Rob Morrison



Matilda, Australia's first cloned sheep.



Nerve cells derived from mouse embryonic stem cells.

The science of human "spare parts"

FREE PUBLIC LECTURE: "Dr Frankenstein's creation will always remain science fiction" by Dr Helena Ward, Cooperative Research Centre for Tissue Growth and Repair.

MEDICINE has been transformed by recent developments in biology.

The Human Genome project, advances in stem cell research and the cloning of Dolly have opened a new and exciting era in treatments of disease, injury and the effects of ageing. The demand for replacement organs has become insatiable, whether it is the result of disease or accident.

Paradoxically, the major source of replacement organs—motor vehicle and other accidents—is shrinking due to advances in motor vehicle and workplace safety. Demand for replacement organs far outstrips supply. So how will we rebuild the broken bodies of the 21st century, and what are the limits to artificial body parts or

organs transplanted from other animals or people?

Medical researchers are now exploring the possibilities of using single cells to grow spare parts for humans or even to transplant organs or tissues from other species. In the final talk of the Alumni Association Science Chapter 2000 Evening Talk Series, Dr Helena Ward from the Cooperative Research Centre for Tissue Growth and Repair will speak about the scientific background of these latest developments in medicine, the recent discoveries and their implications for the future, and will cover some of the ethical and regulatory issues which arise from this controversial new area of scientific endeavour.

The talk's title, "Dr Frankenstein's creation will always remain science fiction", refers to headlines in sections of the British tabloid media which labelled the first baby conceived by in vitro fertilisation a "frankenstein creation"—a

headline which now often greets announcements of advances in gene technology or xenotransplantation. Would these new technologies be more acceptable if Mary Shelley had not written her famous book? Is the public concern really founded on the possibility that modern science could enable the creation of Shelley's hero to become reality?

Dr Helena Ward is a prominent science communicator and is superbly qualified to address these matters, with a career spanning research in Australia and Britain.

Rennie Lecture Theatre, Johnson Building East, Adelaide University (North Terrace campus), 7.30pm Wednesday, 13 December. Further information can be obtained from ANZAAS on 8303 4965, or Adelaide University's Alumni and Community Relations office on 8303 3196.

—Rob Perrin

Uni-Zoo links to strengthen



DR ROB MORRISON has been elected as the new President of the Royal Zoological Society of South Australia, which runs Adelaide Zoo and Monarto Zoological Park.

Dr Morrison, the science journalist in Adelaide University's Media Unit, is also attached to Flinders University as Associate Professor of Environmental Studies. He replaces the outgoing President, Associate Professor Mike Tyler from Adelaide University's Department of Environmental Biology.

"I am looking forward to developing stronger research links with the University," said Dr Morrison, who chairs the Society Research and Conservation Committee. "The Society has just appointed its first Research Coordinator, and he is already actively pursuing links with various University Departments."

The Zoological Society and Adelaide University have a long and close association. The late Dr Frank Dalziel from the Department of Psychology supervised hundreds of student research projects at the Zoo, and his bequest will see the zoo's Education Service put its first outreach vehicle on the road.

Both organisations are involved in WMC's Arid Zone Recovery Project, which is returning threatened plants and animals to a central Australian site. Carla Litchfield, who has just completed her PhD on behavioural studies of the zoo's animals, serves on the Society's Research Committee, and is the current 'Unsung Hero of Australian Science' for her work with Africa's great apes.

"Other university staff are involved in diverse projects, from feeding botanic garden specimens to tree-kangaroos and examining their droppings, to behavioural studies of rare rock-wallabies to assist in surrogate breeding programs," said Dr Morrison.

"The close proximity of the Zoo to Adelaide University, the Museum and the Botanic Gardens is quite unique, and I expect some important joint research programs to come from it," he said.

Grape and wine industry gets a taste of research expertise at Adelaide

ADELAIDE University has briefed the grape and wine industry on its world-class research, as part of its ongoing plan to effectively collaborate and communicate with the sector.

A recent Grape and Wine Industry Outreach Seminar, the second of its kind, was hosted by the Department of Horticulture, Viticulture and Oenology (HVO) at the University's Waite campus. The seminar gave staff and special guests the opportunity to tell industry players about their latest research projects and findings.

"We believe we are effective in conducting research that is relevant to the wine and grape sector and we achieve this by keeping in constant contact with industry people and observing trends," said Professor Margaret Sedgley, Head of the Department of HVO.

The one-day seminar was attended by wine makers, viticulturists, technicians, researchers, marketers and administration staff. Topics covered included phylloxera research, wine yeast bacterial studies, olive oil production, wine consumer behaviour, and e-commerce strategies for small and medium-sized vineyards.



Professor Sedgley said it was important for industry to be aware of the department's activities and said seminar attendees were "often surprised by the extent of research and the quality of the facilities".

"This department has excellent teaching and research facilities, including the Wine Science

Laboratory, and since we receive financial contributions from industry we want to show them how much we appreciate this help and how we are utilising the facilities," Professor Sedgley said.

The day also commemorated the naming of the Coombe Vineyard and the launch of the Coombe Vineyard Fund. Based at the Waite campus, the vineyard is extensively used by students and researchers and has been named after distinguished Adelaide University teacher and researcher Bryan Coombe. He started teaching at Waite when it offered the only horticulture course in Australia, and his contribution to viticultural teaching and research is well documented.

The Coombe Vineyard Fund will raise money to purchase additional machinery and equipment. The fund provides the opportunity for companies to assist in producing world-class graduates with the skills to lead the Australian wine industry into an exciting future.

To find out more about the Coombe Vineyard Fund, please call 8303 7242.

—Sally Raphael

For more information about food and wine-related research, see the *Adelaidean's* special colour supplement in this issue.

FEATURE

SUBATOMIC PHYSICS: WHERE LESS IS MORE

IT USED to seem so simple.

Atoms were the smallest particles of matter. An atom was indivisible; and then they divided it. Splitting the atom unleashed much more than an atomic explosion. It rewrote Newton's fundamental laws of physics, and changed the very ways in which we look at matter and energy.

Physics was once the science of tangible, visible matter and how it behaves, but a whole new branch of physics now examines matter at the subatomic level, and the process of dissecting subatomic particles seems to the novice a never-ending one.

Take an atom apart, and negative electrons are found surrounding a nucleus of positive protons and neutral neutrons. But these nuclear particles can be broken down further, into quarks and gluons.

Such particles are hard to visualise. Conventionally they are drawn as a small solar system, with electrons whirling like tiny planets around a central sun-like nucleus. As you struggle with this model, however, it becomes less satisfactory the further you go, for electrons can behave like particles but also like waves. Tiny objects may not have precise positions, and they can tunnel through walls. Empty space is not empty, and some events do not have a cause.

These are some of the postulates of quantum theory, and they seem constantly at variance with the reliable laws that govern the macroworld that we know. In fact, dealing with the subatomic world requires a bit of radical rethinking.

All observable physical phenomena are now thought to be understandable in terms of four fundamental forces; strong, weak, electromagnetic and gravitational. Strong interactions bind atomic nuclei, provide the fuel for stars, giving us the nuclei of chemical elements and ultimately living things.

"Clap your hands together," says Professor Tony Thomas, from Adelaide University's Special Research Centre for the Subatomic Structure of

Matter. "They don't pass through each other because of the electromagnetic interactions, without which life could not exist. Yet atoms also need nuclei, and it is the strong interaction which binds different combinations of protons and neutrons into the stable nuclei of the different elements," he explains.

"Stars, including our sun, burn small nuclei to produce bigger nuclei. The mass that is lost in the process becomes the energy that is released."

The electromagnetic interaction gives us light, radio and microwaves among others, while the weak interaction is responsible for radioactive decay. It is also responsible for the means by which supernovae give off their energy as neutrinos, their cores collapsing into neutron stars and black holes.

"In some ways, the weak interaction is the most enigmatic of the forces," says Professor Thomas. "It is responsible for many forms of radioactive decay of unstable nuclei. It lets one kind of nucleus turn into another, and plays a crucial role in the stellar cycle."

"When all the nuclei in a star eventually combine to form the biggest nucleus, iron, the star's fuel is exhausted. Gravity plays a role here, for without it, stars would blow apart and cease to burn," he says. "Gravitational interaction also determines the motion of tangible objects, planets, solar systems and the universe itself."

Ideally, all of the four forces would arise from a single 'theory of everything'. As yet, there is no such candidate. The organising principle for almost all our understanding of modern physics is the Standard Model. In one elegant framework it combines the first three of these four fundamental physical interactions.

All three can be analysed by the sophisticated mathematics of quantum field theory, especially gauge field theories, but there remain tantalising holes in the understanding of this physical realm.

There is, for example, no generally accepted gauge field theory for gravity, and while the

“Physicists have a vital role to play... because of their capacity for solving problems from first principles.”

theoretical understanding of weak couplings is profound, it is incomplete when it comes to the strong couplings. It is this area that is of special interest to the Special Research Centre.

The Centre's researchers are leading an attack on some of these problems through a multi-pronged approach, from mathematical modelling and cooperation with experimenters at the world's major particle accelerators, to the use of advanced supercomputers.

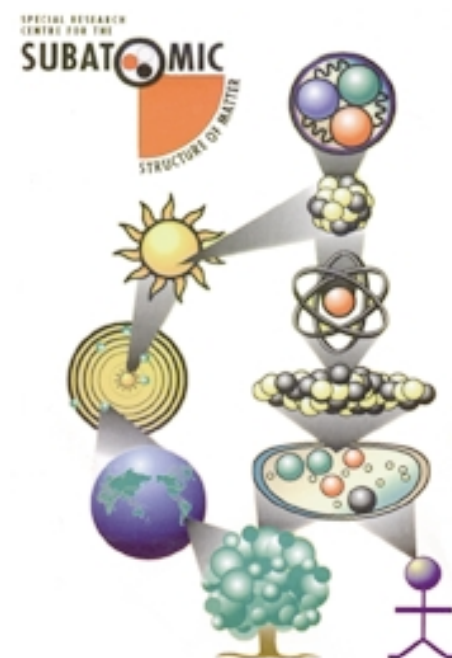
The latter involves a technique known as Lattice Gauge Theory. Space-time is represented by a four-dimensional lattice. The computer extrapolates to infinitesimal lattice spacings and infinite lattice volumes, allowing the extraction of quantities of physical interest. These extrapolations require calculations involving ever-increasing numbers of lattice points; prompting the need for a powerful computer.

Adelaide University is now home to the National Computing Facility for Lattice Gauge Theory, with the Orion supercomputer capable of 110 billion calculations per second. All current lattice gauge theory groups in the country are represented in the Centre, which competes in the forefront of international research.

Professor Thomas says that just as the simple planetary model of an atom has become complicated by the requirements of quantum theory, so the once simple realm of physics has required some reappraisal.

"Physics is an all-enveloping discipline which attempts to explain all observable phenomena in terms of the fewest fundamental constants and with the simplest mathematical framework," he says Professor Thomas.

"All sciences are subsets of some of these phenomena. Physicists still have a vital role to play in these related fields, as well as in



engineering, because of their capacity for solving problems from first principles."

As the subatomic aspect of physics moves more deeply into the realm of mathematics, it relies increasingly on the interplay between physical insight and the brute force of modern supercomputers. "It is the need to use ever-larger grids in order to better approximate the real universe that drives our unquenchable thirst for larger and larger supercomputers!" says Professor Thomas.

The challenging area of subatomic physics will be among several areas of physics to be debated in December, when Adelaide University hosts the 14th National Congress of the Australian Institute of Physics. The program runs from 10-15 December.

During the Congress, the prestigious Harrie Massey Medal will be presented to Professor Thomas for his outstanding research contributions [see article on Page 1].

—Rob Morrison

3D images go to the root of plant research

AN Adelaide University scientist will travel to Britain early next year to learn more about using medical technology to study plant roots.

Dr Annie McNeill from the Department of Agronomy and Farming Systems hopes the trip will assist in starting a similar research program at the University's Roseworthy campus, and has already begun preliminary investigations into the technology.

Medical CAT scan equipment from Dr Jones and Partners at St Andrews Hospital in Adelaide is being used to scan plant roots while they are still in the soil, providing 3D images that give a true indication of root morphology, distribution and dynamics.

The technology will allow scientists to take sequential shots of the plants to measure exact rates of root growth, without causing any disturbance to the roots.

According to Dr McNeill, the ability to see how the root system responds to adverse conditions such as salinity, compaction, low levels of moisture and high levels of disease or toxic elements, will be of particular importance to dryland farming areas of Australia.

"As far as I'm aware, the only other root research program in Australia currently using medical imaging equipment is based in Canberra," Dr McNeill said.

"It would be of huge benefit to have a project based in South Australia that was researching the function of plant roots in our



Medical imaging also has uses in agriculture, as shown here by a look at plant roots under the surface.

unique conditions."

Dr McNeill funded in needed to buy the special computer equipment and software needed to process the scans. And although the project is still in its early stages, Dr McNeill can see an exciting future.

"Having a CAT scan machine dedicated to plant research would be the ultimate aim of the project and would give South Australia the opportunity to become a research leader in this field," she said.

—Sally Raphael

Has life from Mars already landed on Earth?

FREE PUBLIC SEMINAR: "Novel Nano-Organisms (Nanobes): Living Analogues for Martian Nanobacteria?" by Dr Philippa Uwins, Centre for Microscopy and Microanalysis, University of Queensland.

With an introduction by Professor Paul Davies, Visiting Professor, Imperial College, London.

On 7 August 1996, NASA made the historic announcement that a Martian Meteorite (ALH84001) could contain evidence for past life on Mars.

Central to the thesis, and perhaps the most controversial aspect of the findings, were the fossil remnants of sub-bacteria sized "cells" called nanobacteria.

While the results were of great scientific interest they fuelled a fierce and highly contentious debate, not only concerning the existence of Martian microbes, but a controversy surrounding the minimum possible size of life on earth.

It has remained unresolved to this day whether these mineralised nanobacteria were fossilised remnants of independent life-forms, artefacts of sample preparation or unusual mineral deposits.

However, more recently, the existence of novel nano-organisms (nanobes) was reported growing on Triassic and Jurassic sandstones collected from petroleum exploration boreholes offshore Western Australia.

These filamentous and yeast-like cells provide further evidence for nano-scopic life in the same size range as the controversial Martian nanobacteria.

Organised by Adelaide University's Centre for Biomedical Engineering, this seminar promises to be a stimulating and provocative discussion.

If nanobes are novel life forms as claimed, it forces us to reconsider several eternally fascinating questions. What is life? How did it evolve? Is there life outside the Earth?

Dr Philippa Uwins is a Senior Research Fellow at UQ. She has a degree in Geology from the University of Edinburgh and a PhD in Palynology (the study of organic microfossils) from the University of Aberdeen.

She has also worked at Robertson Research International's head office in North Wales as a palynologist, focusing on Tertiary biostratigraphy of North Sea petroleum reservoirs. Dr Uwins has been at the University of Queensland, Centre for Microscopy and Microanalysis since 1989.

SG15 Hone Lecture Theatre, Ground Floor, Medical Building South, Frome Rd. 5.30pm, Wednesday 6 December.

For more information contact the Secretary of the Centre for Biomedical Engineering, Mr Andrew Allison: 8303 5283 or email <aallison@eleceng.adelaide.edu.au>.

Libraries strike national deal over e-journals

STAFF and students at Adelaide University now have online access to more than 720 journals from the major publisher in science, technology and medicine.

The service is the result of an Adelaide-led consortium of five of Australia's leading research universities—Adelaide, ANU, Melbourne, Monash and UWA—in agreement with publisher Elsevier Science. Access to the journals has been made possible via the company's online publishing platform, ScienceDirect.

The agreement with Elsevier Science ensures that the full text of the journals subscribed to in common will be accessible to the University community.

Some of the features of the service include the ability to browse and search across all the journals in the collection, the provision of automatic e-mail alerts for titles and subjects that match personal research interest profiles, the ability to create personalised home pages and journal lists, and the ability to bookmark specific titles or articles for later reference.

Online links to the journals from the Barr Smith Library Catalogue have already been created, as have links to articles from journal-index

databases such as Medline, Compendex and Web of Science. Both from work and from home, University staff and students will be able to search and browse the database, view the full text of articles, and download and print them in html or PDF format.

The moves to create a national consortium have been led by Adelaide University's Librarian, Mr Ray Choate, and the Electronic Resources Librarian, Mr Stephen Cramond.

"The rapid increase in the price of journals has forced cancellations to many Elsevier journals since 1992," Mr Cramond said.

"By agreeing to move from print to an exclusively online delivery for most of these titles, and to refrain from cancelling any further Elsevier titles for the life of the agreement [which ends in Dec 2002], Adelaide will maintain access to the 260 titles to which it currently subscribes, regain access to around 240 titles cancelled since 1992, and provide access for the first time to 220 new titles—a total of 460 additional titles. In most cases the electronic versions are available back to 1995," he said.

"The Library will maintain a limited number of print subscriptions. There are, for example, some journals where the quality of electronic reproduction of high-definition images is



inadequate, and until this is improved print copies will continue to be available."

ScienceDirect, and all the journals available in it, can be accessed from the Library catalogue, from the Library's Electronic Resource

Collection, or direct from <www.library.adelaide.edu.au/cgi-bin/director?id=SD>.

Contact your Research or Branch Librarian for further information about the ScienceDirect service.

In memoriam: David Ian Gravestock

Born in Chelmsford, England on 17 October 1947, David's academic brilliance was apparent at an early age.

After high achievement at Elizabeth High School, David did not settle immediately into Adelaide University life. Out of necessity he worked full-time (researching holography and infra-red detection). Part-time study at University (BSc) took third place to friends, camping, fishing, boat-building, photography and pool.

In 1975, David was awarded First Class Honours in Geology, an Esso Scholarship and the Tate Medal. From 1976-80 David studied full-time under the tenure of a Commonwealth Postgraduate Research Award. (Sons Peter and Stuart were born while he was working on his PhD thesis.) David's Honours and PhD research topics focused on Archaeocyaths, and he became a world-class geoscientist forging close links with Russian, French, Italian and Canadian geologists. "David knows more about Australian Cambrian than anyone" (Professor Noel James, Canada).



In 1980, David joined Delhi Petroleum and later the SA Department of Mines and Energy (now PIRSA) where he was Principal Petroleum Geologist at the time of his death. He played a significant role in promoting the State's petroleum exploration activity.

David had an encyclopaedic knowledge of geoscience, innovative thinking and rigorous research skills. He authored and co-authored many high-standard books, papers and reports, and also reviewed and edited research papers

with sharp eyes and mind.

He was also fluent in French and Russian, and had knowledge of German, Spanish and Pitjantjatjara. David's profound respect and admiration for Aboriginal knowledge and ways of being led to him negotiating land access for petroleum exploration.

He was a key contact person between Government agencies, petroleum and mining industry and the university community. A member of the Faculty of Science Advisory Board, Visiting Research Fellow and a member of the Research and Education Committee at the NCPGG, David also tirelessly supervised numerous honours and postgraduate students. Distinguished Membership of the Petroleum Exploration Society of Australia (PESA) was awarded to him posthumously.

David died of cancer on 15 December 1999. More than 600 people attended his funeral, and tributes flowed in from around the world. David was always a good man, a scholar and a gentleman, and we miss him.

—Valerie Gravestock

John Bray Oration 2000



Pictured at the highly successful John Bray Oration 2000 are The Hon Justice Tom Gray (President of the John Bray Law Chapter), The Hon Justice Ian Callinan (Justice of the High Court of Australia), Master Peter Norman (Secretary, John Bray Law Chapter) and The Hon Greg Crafra (Chair, Alumni Association). Around 120 law students and academics from both Adelaide and Flinders universities, members of the John Bray Law Chapter and legal profession, and members of the general public thoroughly enjoyed Justice Callinan's presentation on "Legal and Other Literature". The Oration, held in the Ballroom of beautiful Urrbrae House, Waite Campus, was followed by a reception in the Drawing Room organised by the John Bray Law Chapter Committee.

Advertisement

Royal awards showcase science achievements

TWO ADELAIDE University scientists received awards at the Royal Society of South Australia's recent Annual General Meeting.

Emeritus Professor Tom White, an Honorary Research Fellow at the Department of Applied and Molecular Ecology, received the prestigious Verco Medal for his outstanding contribution to animal ecology.

Mr Ben Smith, a PhD candidate in the Department of Environmental Biology, received the Society's inaugural Postgraduate Presentation Award for the finest student presentation at the Society's meetings in 2000.

Both men received their awards from the Society's patron, the Governor of South Australia, Sir Eric Neal.

The two recipients represent the Royal Society of South Australia's proud tradition in the dissemination of scientific information and its role in the development of younger scientists.

The Society welcomes any persons interested in



Adelaide University scientists, Mr Ben Smith (centre) and Dr Tom White (right) with Royal Society of South Australia patron Sir Eric Neal at the Society's recent Annual General Meeting. Photo by Robyn Cane.

anthropology, the earth sciences or biological sciences to participate in next year's program, commencing March 2001.

—Ben Osborne

SEASON'S GREETINGS

ON behalf of the staff of the Alumni and Community Relations office I extend our warmest wishes to all Alumni Association members during this festive season.

I would also like to take this opportunity to thank all of our alumni and friends for their support and commitment to the Alumni Association and Adelaide University during the past year.

2000 has been a year of much change and growth in the Alumni Association and I thank you for your patience, your words of encouragement, and active support during this dynamic period.

In addition to our membership steadily increasing over the past few months, we have also enjoyed a renewed interest by longstanding members in the activities of the Association.

We look forward to continuing this trend in 2001 by reaching out to even more of our alumni.

Rachael Oliphant
Director, Alumni and Community Relations

International students graduation

A Graduation Dinner Dance for international graduands was held on 21 November in the Ballroom of the Stamford Grand, Glenelg.

The event was hosted by the Vice-Chancellor and organised by a committee representing the Vice-Chancellor's office, Overseas Students Association, International Students Centre, Graduations office, and the Alumni and Community Relations office.

International students enjoyed the opportunity to celebrate their upcoming graduation with family and friends, and staff of Adelaide University.

In his welcoming remarks the Hon Greg Crafter, Chair of the Alumni Association and Master of Ceremonies for the evening, spoke of the benefits to both students and the University in maintaining contact following graduation. One way in which this can be achieved is through the Alumni Association's Chapters (three international and twelve Australian).

Professor Edwina Cornish, Deputy Vice-Chancellor (Research) provided the opening address on behalf of the Vice-Chancellor congratulating all graduands and highlighting the significant contribution of international



Leaders of the future: international students from Adelaide University.

students to all aspects of Adelaide University life.

Mr Mark Lee, President of the Overseas Students Association, spoke of the prestige

attached to being a graduate of Adelaide University and wished all graduands much success in their future careers and studies.

—Kim McBride

Hong Kong graduates ball



The Hon Greg Crafter, Chair of the Alumni Association, Mrs Rae Crafter and the Director, Alumni and Community Relations, Rachael Oliphant are pictured having dinner with Pei Kwun Yap, President of the University of Adelaide Alumni Association Hong Kong Inc., and other members of the Chapter. During the trip to Hong Kong Mr and Mrs Crafter and Ms Oliphant also attended the Graduates Ball 2000 of the Federation of Australian Alumni Associations in Hong Kong. Hong Kong alumni from Adelaide University attended the Ball with alumni from 18 other Australian universities.

Campus tours: Summer schedule 2000- 2001

Learn about the history and heritage of South Australia's oldest University. See the University's historic buildings and beautiful grounds. **Individuals, families and groups are all welcome.**

Tours are conducted by trained guides from the University's Alumni Association. Tours last one hour. There are some strenuous sections, including stairs; your guide can advise of alternative outdoor routes. Regular tours are offered each Tuesday morning at 10:30 am and are free of charge. Groups may make arrangements for tours at other times by calling the Alumni and Community Relations office on (08) 8303 3196.

Please meet at University Gate 20 next to the Art Gallery of South Australia on North Terrace. The last tour for 2000 will be held on 12 December. Tours for 2001 will resume on 6 February.

Cornell Chapter Annual Dinner 2000

THE Cornell Chapter Annual Dinner 2000 was held on 9 November, following the Annual General Meeting, in the elegant ambience of the Senior Common Room of St Mark's College. All present thoroughly enjoyed the presentation by Mr Greg Mackie, Councillor, City of Adelaide, Co-proprietor of Imprints Bookshop, and Founding Chair of the Adelaide Festival of Ideas. Mr Mackie spoke of the pleasure and excitement of growing up in Adelaide in the sixties and seventies, and how that developed his interests and attitudes and his belief that open and informed public debate is essential for the wellbeing of the community. He was introduced by Brian Coghlan and thanked by Tim Mares (both former Chairs of the Cornell Chapter) and was warmly received by a gathering of Cornell Chapter members and distinguished guests including the Hon John Bannon, Master of St Marks, the Hon Justice and Mrs Legoe, the Hon Justice and Mrs Perry, and Professor Malcolm Gillies, Executive Dean of Humanities and Social Sciences and President of the Australian Academy of the Humanities. The musical interlude was provided by the Accelerando Cello Quartet, a group of Conservatorium students with a growing reputation. "Their choice of a contemporary and a mid-twentieth century piece showed their courage and intelligence as musicians and was justified in the reception of their performance," said Tim Mares, Cornell chapter Committee member.

Adelaide University Alumni Association REGISTRATION FORM

Open to graduates, students, staff, former staff and friends of the University.

Your details:

Title (Prof, Dr, Mr, Ms, Mrs, etc)

Former Family Name (if applicable)

Family Name

Given Names

Address

State..... Postcode Country

Country of Birth

Phone Home () Phone Work ()

Gender M F (circle) Date of Birth

Email

Adelaide University Degree(s) or Qualification(s):

Qualification	Course	Year of Graduation
.....
.....

I would be interested in receiving information and details about events from the following Chapters:

- Agricultural and Natural Resource Sciences Chapter
- Chapman Association (Engineering)
- Sir Joseph Verco Dental Chapter
- Cornell Chapter (Arts/Performing Arts)
- Florey Medical Chapter
- Science and Mathematical Sciences Chapter
- MBA Alumni Association
- Roseworthy Old Collegians Association (ROCA)
- Economics/ Commerce Chapter
- Leonardo da Vinci Chapter (Italian-Australian alumni)
- John Bray Law Chapter
- The University of Adelaide Chapter of Australian Alumni Singapore
- Architectural Alumni Chapter
- The University of Adelaide Alumni Association Hong Kong Inc.
- Adelaide Uni Alumni Malaysia Bhd

Please send this form REPLY PAID TO:

Alumni & Community Relations Office
The University of Adelaide
Reply Paid 498
Adelaide SA 5001
AUSTRALIA

CONTACT DETAILS:

Fax: +618 8303 5808 Tel: +618 8303 5800 Email: alumni@adelaide.edu.au

All information provided on this form will be added to the University's Alumni and Community Relations databases for University and University related purposes only and will not be passed on to any third party not affiliated with the University.

Advertisement

Summer's here – time for school

THINKING of doing something different this summer? Adelaide University's Summer School might have what you're looking for.

The Summer School is run through the University's Centre for Professional and Continuing Education from January to March, and gives people of all ages more than 60 courses to choose from.

For the first time, the Summer School is offering award courses normally taught at the University during the academic year. Subjects include Anthropology, Clinical Legal Education, Chemistry, Advanced English Language Development and Mathematics.

"The offering of award courses follows in the tradition of other great universities, such as Oxford, Edinburgh and UCLA, all of whom offer large and well-established Summer Schools through their various Continuing Education departments," said the Director of Professional & Continuing Education, Ms Liz Pryzibilla.

"Many award courses offered through our Summer School are also available as Community Interest Courses and can be taken on a non-award basis," she said.

The program for 2001 provides a strong mix of professional development and community interest.

One of the biggest drawcards for the Summer School is the variety of language courses on offer. Whether getting ready to travel for work or pleasure, wanting to learn a language or simply improve your current language skills, the Summer School has something for every level of learning. Intensive, 10-week courses will teach beginners everything they need to know, while for those who want to maintain or develop their language skills there are intermediate and advanced Conversation Courses (which means no homework!).

There are also short courses in Business



Language and Language for Travel, which not only teach language skills but also provide other cultural tips for "surviving" overseas. Business English as a Second Language will help those from a non-English speaking background who are looking for employment or currently employed, while those who want to delve into the artistry of language may be interested in Japanese and Chinese Calligraphy.

A range of other courses on offer as part of the Summer School provide both professional and personal development.

A three-day course on Mediation teaches the skills of constructive communication, problem-solving and negotiating a solution. Technology Commercialisation introduces the ideas of intellectual property and commercialisation, how to assess and manage risk, prepare business plans, get involved in marketing and legal aspects of the business.

The Business Essentials Program covers everything from strategic thinking and planning, to budgeting and managing special projects. Other courses deal with business writing for writing reports and correspondence, managing stress, speaking with confidence, and time management.

Writing History is a new course aimed at teaching the techniques of historical research and presentation. Summer School participants can learn from practising historians how to write and edit their work, produce exhibitions, and publish their work both conventionally and on the internet.

A copy of the full Summer School program can be received from Professional & Continuing Education. Call 8303 4777 or visit the Adelaide University website: <www.adelaide.edu.au>.

—David Ellis

Adelaidean in 2001

We hope you enjoy this, our last issue of the *Adelaidean* for 2000.

The first issue next year will be published on 5 February 2001 with the deadline for bulletin board material, classifieds and coming events closing 5.00pm 25 January 2001.

Merry Christmas from the whole editorial team.

Mutual Community travel grants and awards

THESE postgraduate travel grants are awarded bi-annually to assist postgraduate students enrolled at Adelaide University to travel to a conference or another institution to present their work or learn a particular method essential to their research.

The recipients of the September 2000 round of the Mutual Community Postgraduate Travel Grants; AUGU/RC Hedde Awards were Ms Rebecca Bilton (Molecular Biosciences), Mr Raphael Afolayan (Animal Science), and Mr Brad Ferguson (Electrical and Electronic Engineering).

The next round of the awards will be held in April 2001.

Rebecca Bilton (pictured) will use the travel funds to attend the "8th International Symposium on Insulin Receptors and Insulin Action" to be held in Geneva, Switzerland in 2001. Attending this conference will allow Rebecca to gain valuable knowledge in the field of Diabetes.



ACCOMMODATION

GARDEN EAST COMPLEX: 1 br unit to rent or sell (btwn Rundle East & Grenfell Sts). Walking dist to CBD, Uni's, cultural institutions and restaurants. 1 lge db br, open lounge & kitchen, lge bathroom with second wc, air cond. Ph 8227 0557.

HOUSE SITTER AVAIL: Female for house sitting, pref 3-6 months. Mature, responsible & reliable. Experienced & good with animals, garden and house care. Good character references available. Ph 0403 010 779.

HOUSE SITTER WANTED: Mt Barker 23 Dec - 13-14 Jan. Beautiful small cottage in centre of town with easy care garden, and cat. Suit responsible, quiet single person or couple. Rent free. Ph 8391 6895, or email <amanda71_sa@hotmail.com>.

KENSINGTON PARK: Tudor house to let, 3br with robes, sep lounge & dining, mod kitch, 2 bathrooms, heating. No pets. \$270 pw. Ph 8332 2503 or 0402 023 937.

NORTH ADELAIDE: 2 br fully furn, serviced exec apartment. 10 min walk to CBD, Uni's, & RAH. Avail mid December. \$365 pw. Ph Deanne 8370 1666.

NORWOOD: To share, room in spacious mod 3 br townhouse; avail mid December. \$95 pw + exps. Ph Andreas 8303 4441 or 8363 7697.

GLEN OSMOND: 3 br unfurn house (some built-ins), r/c air cond, 2 toilets. Close to transport and good schools, walking distance to Waite. No pets, lawns mown. Avail now. \$240 pw + bond. Ph 8379 4869.

SWITZERLAND: Furn flat 4 km from Interlaken, on lake

Adelaidean CLASSIFIEDS

with view of Alps. 2 br, large lounge, can sleep up to 6. Avail for 1 week or more. Ph Liliane 8362 4243.

WANTED: Academic couple looking for house to rent in Adelaide 22 December - 16 January. Maintain gardens, feed pets. Ph (026) 254 9027 or (026) 268 8866 or email <r.prior@adfa.edu.au>.

WANTED: Academic family require accomm from January 21 to 21 April 01, prefer 3 br, close to transport and within cycling distance to city. Ph Tim 8303 5108 or email <timothy.miles@adelaide.edu.au>.

WANTED: Academic family looking to rent furn house/apart, 2 br, pref near Henley Beach, around \$190

p/w. From 11 Feb 00 - 1st week Mar 01. Ph 8353 0263 (till 12/12/00) or email <lardinoit@essec.fr>

FOR SALE

BABY GOODS: Pegperogo pram & bassinette \$180. Cot & Mattress \$170. Changetable & bath \$60. Ph 8374 0890.

BARINA: 1994, 46,000 kms, 5 speed manual, 3 door hatch, blue, 6 speaker stereo, immac condition. VRU 513. \$7500. Ph 8240 7631(w) or 8379 1055 (ah).

COMMODORE: Berlina wagon 1986, excellent car: many features, roof rack, air cond, power steering, cloth trim, almost new tyres. VBZ

730. \$6250 ono. Ph 8363 9198 (ah) or <jraftery@camtech.net.au>

COMPUTER: PII 266/4.3G/32MRAM/32xSound & Video Card/Network Card, 56K modem & lots of PC software, including W98 original. \$600. Email <sweseng@hotmail.com> for details.

DESKS: L shaped - will be available progressively from end Nov- until early next year. Ph 8303 5747.

FURNITURE: King size single bed, \$250. Pillows, sheets and quilt available. Wardrobe (2.00mx120cmx 60cm), \$200. Lamp \$20. Table (60cmx60cm), \$20. Ph 8303 5037 or email <mosterme@physics.adelaide.edu.au>.

HOUSE: Vale Park: Open plan house, high ceilings, formal lounge - dining. 3 br, 2 bathroom, main en suite, study, exc kitchen, large

games room. Exc location, adj Linear Park. Ph 8269 5113.

MG: 1963 Midget Tourer, SEJ 444. Owned for 17 years. \$7,750. Ph 8272 8958.

MITSUBISHI: Pajero 1984, 4 wheel drive, short wheel base, 2.3 litre turbo-diesel, excellent cond, long-range fuel tanks, bull bar, towbar and alloy wide rims. UVY 570. \$6,500 ono. Ph 8272 1253 (ah).

MOVING SALE: Fridge, washing machine, oil heater, book shelf, all kind of furniture, TV, lamp, all items very good condition or as new. Ph 8374 0890.

REX RABBITS: Pure bred, coloured black, grey and brown. \$10 each. Ph 8331 0308.

TOYOTA: Tercel 4 WD, 1984, low km engine, VHZ 105, \$2800, o.n.o. Ph Gerhard 8374 0890.

SENATE REPORT

MEETING 22 NOVEMBER 2000

The annual meeting of the Senate of Adelaide University was held on 22 November 2000, attended by 140 members.

Addresses

The members were addressed by Professor Robert Saint, Professor of Genetics, Department of Molecular Biosciences, Adelaide University, who spoke on the topic "Genomes: why all the fuss?". Professor Saint's talk was both humorous and very informative, and was warmly received by the Senate.

The Vice-Chancellor then addressed the Senate, giving brief details of the highlights of the University's activities in the past year.

Legislative business

For the first time in at least 30 years, the Council did not refer any items of legislative business for the Senate's consideration.

Motions of which notice had been given

Mr David Hester had given notice of the following motion:

"That the Senate recommend to the University Council that the Council reconsider its decision of 31/07/00, by which it delegated all its powers and responsibilities under the University Act to the Chancellor, and established a Chancellor's Committee to advise the Chancellor on the exercise of such delegation."

Before introducing the Motion, speaking from a prepared statement, Mr Hester informed the Senate of his recent exchange of correspondence and meeting with the Chancellor and of the Chancellor's intention to ask the Council to appoint an independent person to review the operation of the Chancellor's Committee.

After a number of eloquent and passionate speeches, the motion was carried overwhelmingly.

Not only Mr Hester but a number of speakers during the course of the debate

foreshadowed the need for there to be a consequential motion concerning the proposed independent review of the Chancellor's Committee.

After numerous amendments (including some to accommodate a point which the Vice-Chancellor put to the Senate), the consequential motion finally passed was:

The Senate recognises the good intentions of the University Council in seeking to improve the governance of the University by setting up the Chancellor's Committee, and welcomes the Chancellor's initiative in recommending to Council the setting up of an independent review of the Chancellor's Committee.

The Senate appointed a subcommittee comprised of the following:

- Mr David Hester (senior lecturer, Classics, as Convenor)
- Mr John Keeler (Reader, Law)
- Dr Baden Teague (Graduate)
- Dr Warren Rogers (Warden of Senate)
- Ms Gail Higginbottom (postgraduate student)
- Mr Zane Young (postgraduate student)

to make submissions to the independent reviewer when appointed.

Other business

The Senate approved the Minutes of the Senate Meeting held on 24 November 1999 and noted the Report on Annual Elections to the Senate Standing Committee and the Report of the Standing Committee of the Senate on Matters other than Legislative Business from the Council, all of which were published in the Notice Paper. It also noted the Select Committee's call for submissions, which is published elsewhere in this Adelaidean. The Senate carried a motion of appreciation for the service of Dr John Patterson, Mr Peter Balan and Mr Murray Stock, who have all given long service to the Standing Committee and who had not sought re-election.

SUSAN GRAEBNER
Clerk of the Senate

SELECT COMMITTEE OF THE SENATE

Call for submissions

A Select Committee of the Senate was established at the 1999 Senate meeting. It has met three times and discussed a number of options relating to its terms of reference, which derive from a motion passed at the 1999 Senate meeting, as follows:

That the subject matter of Professor Pincus's motion together with the relationship of the Senate and the Alumni Association be referred to a Select Committee...*

*Professor Pincus's motion (which was not pagged) was as follows: *Given the changed role of Council, following the 1996 amendments to the University of Adelaide Act; given that Council has confirmed Academic Board as its major non-managerial source of academic advice, and has other specialist standing committees for advice; and given the existence of the Alumni Association, the Senate can no longer usefully serve the functions set out in Section 18(5) of the University Act.*

The Select Committee has agreed to call for submissions so that it can hear from as many interested persons, especially members of the Senate and the Alumni Association, as possible.

Whilst it is certain there are other options which ought to be considered, the Select Committee asks any person who wishes to make a submission to address one or more of all of the following options:

Option One: Retain the Senate but with (formal) closer working relationship with the Alumni Association.

[Any such (formal) closer working relationship would need clearly to delineate the functions of the Senate and those of the Alumni Association.]

Option Two: Formally merge the Senate and the Alumni Association.

[The Senate would be discontinued and the constitution and activities of the Alumni Association would be so re-arranged to allow the Alumni Association to undertake the functions previously undertaken by the Senate.]

Option Three: (Without any change to the University of Adelaide Act) have the Senate

conduct itself as if it had only the same or similar functions to those of the Convocations (of graduates) of the Universities of Sydney and Melbourne. [The Convocations (of graduates) of the Universities of Sydney and Melbourne have no legislative function nor are either in a position to veto or delay any decision of their equivalent of the Council nor any decision of the senior management of the University; each has a Standing Committee of approximately 40 members - and a predetermined number of members must come from each of the faculties so that the Standing Committee should provide a fair cross-section of graduates); each Standing Committee considers matters referred to it by the Council-equivalent and may refer matters of concern about the affairs of the University to the Council-equivalent or senior management for consideration; and each Standing committee reports its activities to an annual meeting of graduates.]

Option Four: Have the University Act amended to replace the existing provisions relating to the Senate with provisions analogous to the provisions relating to Convocation in the Sydney and Melbourne University Acts.

Option Five: Have the University Act amended to abolish the Senate - simply leaving graduates with the right to elect three members of Council.

Option Six: Invite the Council and senior management to reconsider the present policy on University legislation so as to involve the graduate body through the Senate once again in major legislative decisions.

(The Select Committee wishes to make it clear that no significance should be drawn from the order in which the foregoing options are listed.)

The Select Committee asks that any submission be in the hands of the Clerk of the Senate, c/- Office of the Vice-Chancellor, by 28 February 2001.

WM ROGERS
Warden of the Senate

Security Awareness

WORKING AFTER HOURS

Note the following points:

- Ring your campus Security number and advise them you are in your work area.
- Building and room number.
- Approx time you will be leaving.
- Security is available to escort you to your car or transport service.

SECURITY ESCORTS

The University Security Section is available 24 hours a day, 365 days a year to escort you by vehicle or foot to your vehicle or transport service. Remember if catching public transport advise Security in advance as offers may be committed to other tasks.

SECURITY NUMBERS

North Terrace
General 35990 Emergency 35444

Waite
General 35990 Emergency 35444

Thebarton
General 35990 Emergency 35444

Roseworthy
General 37999 Emergency 35444

Security awareness presentations can be arranged for your area.

TUESDAY 5 DECEMBER

4.15pm **History Staff / Postgraduate Seminar:** Spearheading the Governor, by Philip Jones (SA Museum). Seminar Room, Ground Floor, Napier Building.

5.00pm **Physiology Seminar:** Motor cortex in human motor control, by Professor John Rothwell (MRC Human Movement and Balance Group, Institute of Neurology, London). Hone Lecture Theatre, Ground Floor, Medical School South Wing.

WEDNESDAY 6 DECEMBER

10.10am **Electrical & Electronic Engineering Research Seminar:** An introduction to Quantum computation: A nanoscopic solution to a big problem, by Joseph Ng (Electrical & Electronic Engineering). Room EM212, New Engineering and Mathematics Building.

1.10pm **Genetics Seminar:** To be advised, by Dr Andreas Houben. Seminar Room, Ground Floor, Fisher Building.

5.30pm **Biomedical Engineering:** Novel nano-organisms (Nanobes): living analogues for Martian nanobacteria? by Dr Philippa Uwins, introduction by Professor PCW Davies. SG15 Hone Lecture Theatre, Ground Floor, Medical School South.

COMING EVENTS

5th December —
20th December

THURSDAY 7 DECEMBER

12noon **HCCR Seminar:** Cold shock domain proteins, by Peter Diamond (Division of Human Immunology). Verco Theatre, IMVS.

4.00pm **British Studies AGM/Talk:** News from Lilliput: Reading the Scribblers now, by Dr R Phiddian. Seminar Room, Ground Floor, Napier Undercroft.

FRIDAY 8 DECEMBER

10.10am **Electrical & Electronic Engineering Seminar:** Peculiar effects in Nanoparticle WO₃ & Gold Films; (with technical applications) by Prof Laszlo B Kiss (Uppsala University). Room EM212, New Engineering & Maths Building.

3.00pm **Science/ACUE Seminar:** Integrating Education and Research by Professor Dean Zollman (Kansas State University). Seminar Room, Level 2 Schulz,

WEDNESDAY 13 DECEMBER

1.10pm **Genetics Seminar:** To be advised by Professor Rob Saint. Seminar Room, Ground Floor, Fisher Building.

7.30pm **Free Public Lecture:** Dr Frankenstein's creation will always remain science fiction by Dr Helena Ward (CRC for Tissue Growth & Repair). Rennie Lecture Theatre, Johnson Building. Further details 8303 4965 or 8303 3196.

THURSDAY 14 DECEMBER

12noon **HCCR Seminar:** Cancer: the emergence of the big picture by Dr B Coventry. Robson Theatre, RAH.

FRIDAY 15 DECEMBER

1.00pm **Environmental Biology Seminar:** Biologically active alkaloids of amphibian skin: Arthropod and other sources by JW Daly (National Institutes of Health, USA). Mawson Lecture Theatre.

FRIDAY 20 DECEMBER

1.10pm **Genetics Seminar:** To be advised, by Dr Chunyan Huang. Seminar Room, Ground Floor, Fisher Building.

SITUATIONS VACANT

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

Please note that applications, in duplicate, addressing the selection criteria and quoting the relevant reference number should include names and full addresses of three referees. The address for applications is C/- the Department or Officer named in the advertisement.

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

RESOURCES MANAGER
(Ref: 10668) (Continuing)
Dept of Environmental Biology
Salary: HEO8 \$48,913-\$55,028

MANAGER
(Ref: 10661) (Continuing)
International Student Centre
Salary: HEO8 \$48,913-\$55,028

LOANS SUPERVISOR
(ACTING)
(Ref: 10669) (Fixed-Term)
Barr Smith Library
Salary HEO4 \$31,252-\$34,376

* includes only those persons who hold current written contracts of appointment with the University.

Applications for the following vacancies are not restricted to members of the University.

ASSOCIATE PROFESSOR IN CORPORATE FINANCE
(Ref: 10662) (Tenurable)
School of Commerce
Salary: Lecturer Level D \$72,642-\$80,028

SENIOR LECTURER IN PSYCHOLOGY
(Ref: 10665) (Fixed-Term)
Department of Psychology
Salary: Senior Lecturer Level C \$60,329-\$69,564

LECTURER/SENIOR LECTURER IN PSYCHOLOGY
(Ref: 1298) (Tenurable)
Department of Psychology
Salary: Lecturer Level B \$49,249-\$58,484/Senior Lecturer Level C \$60,329-\$69,564*

LECTURER IN PSYCHOLOGY
(Ref: 1308) (Tenurable)
Department of Psychology
Salary: Lecturer Level B \$49,249-\$58,484

LECTURER LEVEL B/SENIOR LECTURER LEVEL C IN MARKETING
(Ref: 4220) (Tenurable)
Horticulture, Viticulture and Oenology, Waite Campus
Salary: Lecturer Level B \$49,249-\$58,484/ Senior Lecturer Level C \$60,329-\$69,564*

LECTURER LEVEL B IN PHYSICS
(Ref: 10658) (Fixed-Term)
Department of Physics and Mathematical Physics
Salary: \$49,249-\$58,484

LECTURER LEVEL B, INTEGRATED FARMING SYSTEMS
(Ref: 3787) (Tenurable)
Agronomy and Farming Systems, Roseworthy Campus
Salary: \$49,248-\$58,484

LECTURER LEVEL B IN GASTRONOMY
(Ref: 10667) (Fixed-Term)
Department of History
Salary: \$49,249-\$58,484

LECTURER LEVEL A IN GERMAN STUDIES
(Ref: 10655) (Fixed-Term)
Centre for European Studies and General Linguistics
Salary: \$34,475-\$46,786

JEAN B REID MEDICAL RESEARCH ASSOCIATESHIP
(Ref: 4056)
HILDA FARMER MEDICAL RESEARCH ASSOCIATESHIP
(Ref: 4993)
FTT FRICKER MEDICAL RESEARCH ASSOCIATESHIP
(Ref: 4058)
Salary: \$43,584-\$46,786

DIVISIONAL FINANCE OFFICER
(Ref: 10666) (Continuing)
Office of the Deputy Vice-Chancellor (Education)
Salary: HEO8 \$48,913-\$55,028

WEB GRAPHIC DESIGNER
(Ref: 10654) (Fixed-Term)
Media, Marketing & Publications
Salary: HEO7 \$43,478-\$48,779

COMPUTER PROGRAMMING OFFICER
(Ref: 10664) (Fixed-Term)
Department of Psychology
Salary: HEO7 \$43,478-\$48,779

ADMINISTRATIVE SUPPORT OFFICER
(Ref: 10653) (Fixed-Term)
Information Technology Services
Salary: HEO3 \$27,17-\$30,979

ADMINISTRATIVE OFFICER
(Ref: 10670) (Fixed-Term)
Paediatrics and Obstetrics and Gynaecology (WCH)
Salary: HEO3 \$27,174-\$30,979

Recruitment advertising

While the *Adelaidean* is in its summer recess, the Human Resources website <<http://www.adelaide.edu.au/HR/newpos/advpos.htm>> will be the major source of information about job vacancies for Dec 2000 and Jan 2001.

For departments wishing to advertise vacant positions during the summer period, publication dates and deadlines for advertising material to reach HR are as follows:

Publication	HR Deadline
18 December	8 December
8 January	22 December
22 January	12 January

Departments that wish to advertise in the external press (eg *Advertiser*) during Dec/Jan, we advise the following deadlines:

Publication	HR Deadline
16 December	8 December
13 January	5 January
20 January	12 January
27 January	19 January

COUNCIL IN BRIEF

A meeting of the Adelaide University Council was held on Monday 27 November in the Molecular Life Sciences Building.

1. Chancellor's report

The Chancellor, Mr Robert Champion de Crespigny, gave his regular oral report to Council, during which he spoke of:

- his recent visits to Oxford and Harvard Universities, the Massachusetts Institute of Technology and the University of California in Los Angeles;
- his recent meetings with Chancellors of other universities, including Melbourne, Flinders and the University of SA and his hopes that the role of university councils and the nature of governance might be the subject of greater public discussion;
- his desire for more open communication between himself and the wider University community.

2. 2001 provisional budget

The Council approved a provisional budget for 2001. It has been based on the following key principles (most of which are not new):

1. The University's budget will set out to spend, in cash terms, no more than it will receive during the course of the year. For the purposes of this principle, cash excludes donations and bequest income, and proceeds of sale of assets. The University's Operating Result and cash position will be reviewed quarterly and adjustments will be made to the Capital and Operating Plans in the event of any deterioration in the cash position.
2. Faculties and divisions' discretionary spending will be required to be break even or be on a small surplus basis each financial year. A shortfall will only be accepted in respect of "tied" funds in certain circumstances.
3. There will be no increase in borrowings, be they direct or off balance sheet arrangements.
4. All proceeds on sale of assets will be brought to account in Corporate and applied to debt reduction or enhancing the University's cash savings. They will not be available for funding operating costs.
5. The financing of major capital expenditure will be assessed on a case-by-case basis having regard to the net quantifiable benefit to the University.
6. Each Executive Dean/Executive Director shall be personally responsible and accountable to the Vice-Chancellor for ensuring their respective areas of responsibility are within budget.
7. Once the budget is set, there will be no change to that budget during the course of the year, other than allowing for movement of operational responsibilities between faculties/divisions.
8. The Budget principles will be reviewed annually.

A final budget will be brought to the first meeting of Council next year.

[This part of the meeting was held in confidential session, but the 2001 budget document itself will be released to the University community soon. There has been separate communication from the Vice-Chancellor to all staff about the 2001 budget.]

3. Chancellor's Committee and delegations

This part of the meeting was held in confidential session, but the decisions can be reported on, as follows:

As previously reported in the *Adelaidean*, when Council established the Chancellor's Committee it also agreed to delegate all the Council's powers to the Chancellor, though the delegation could only be exercised on the recommendation of the Chancellor's Committee and decisions made were subject to ratification by the Council.

At this meeting, on a motion from the Hon. Justice John Perry, Council unanimously resolved:

that the Chancellor's Committee define the specific situations in which it believes it appropriate that the Chancellor, on advice of the Chancellor's Committee, should have delegated authority; and that the Chancellor's Committee report to the next meeting of Council.

Also at the time that Council established the Chancellor's Committee, Council agreed that there should be an annual review of the committee. At this Council meeting, Council considered a proposal that the review be brought forward, but resolved, after considerable debate, not to do this. The prevailing view of the meeting was that it was too early in the life of the Chancellor's Committee to make an

effective assessment of its performance and role.

A preliminary report from the Warden of the Senate, reporting on the resolutions from the annual Senate meeting, was tabled at the meeting. (These resolutions are included in the report from the Clerk of the Senate in this *Adelaidean*). Council resolved to note the report, thank the Senate for its contribution, and look forward to receiving the full report at the first Council meeting next year.

4. Council election results

Council noted the outcomes of the recent elections by members of the Senate, academic staff and general staff of members of the Council. The new members will take up office on 6 March 2001. Full details of the Council election results can be viewed on the web at: <<http://www.adelaide.edu.au/secretariat/council/2000/2000election.pdf>>.

5. Council elections review

The Council noted that the Council Secretary has been asked by the Chancellor to prepare a position paper on issues associated with elections to the Council. Council members have been invited to forward comments and submissions to the Council Secretary. University members also are welcome to do so.

6. New Council committees

The Council had a preliminary discussion of a paper from the Chancellor proposing the establishment of two new Council committees and the re-vamping of two others. The two new committees proposed are an Education and Research Development Committee and a Benefactors and Friends Committee. The need to be sure that the Education and Research Development Committee complemented, and did not overlap, the role of Academic Board was emphasised. The terms of reference are still being determined, and Council members were invited to submit comments and suggestions to the Chancellor.

7. Report from Vice-Chancellor

The Vice-Chancellor presented her regular written report to Council, which summarises for the benefit of Council members some of the major activities or items of note in the University since the previous meeting. These included our success in ARC grants, the December graduations, the opening of the Roseworthy Information Centre, the forthcoming Town and Gown Christmas Party, and the appointment of Professor Guy Ludbrook to the Chair of Anaesthesia - most of which have been reported in other editions of the *Adelaidean*. An early draft of the 2000 Annual Report was also included with the Vice-Chancellor's Report.

8. Presentation from Deputy Vice-Chancellor (Education)

In keeping with the Council's role of setting strategic directions for the University, the Deputy Vice-Chancellor (Education), Professor Penny Boumelha, gave a presentation on Education at Adelaide University. Council members received a paper which covered the University's present position, reporting on matters such as student demand, our student profile, and some selected indicators. Professor Boumelha's presentation reviewed our education goals, our current status, the local and policy contexts, the strengths and weaknesses of our internal environment, some strategic policy shifts, examples of increasing collaboration and of education activities that increase income, and of priorities for action and performance indicators to enable regular review. Professor Boumelha finished with her vision for education at Adelaide as follows:

- Make our small size and strong research base a starting point for better teaching and learning
- Design our courses to provide better integration of double degrees and give every student a balance of transferable and professional/vocational skills
- Tailor individual student learning experiences
- Improve student support and integrate student services into the learning experience
- Foster strong personal attachment to Adelaide University.

The presentation was well received and extensively discussed, and the establishment of benchmarks was well supported.

9. Other reports

Council also noted other reports from the Senior Managers (see <http://www.adelaide.edu.au/secretariat/council/2000/meeting00.htm>), as well as reports from the Convenors of other Council committees.

SUSAN GRAEBNER
Council Secretary

Explore Your Future!

First workshop Monday 4 December

Who are you? Why are you here? What do you want? What will you become?

Create your Future*

Your Future Edge is a training and development company at the Thebarton Commerce and Research Precinct of Adelaide University. We help people to explore, discover and create positive futures. Run by trained and accredited psychologists and consultants, Your Future Edge conducts a series of four 3-hour workshops over two weeks.

The Explore Your Future! workshops systematically guide participants through a program of well-established and innovative exercises and techniques that are the tools to Create Your Future.

Workshops 1 & 2 provide people with a clear sense of identity and self-confidence. Workshops 3 & 4 develops action plans to achieve real results, to reduce self-sabotage and empower positive, lasting changes.

For school and university leavers, Your Future Edge assists students to face the hardest career decisions they may ever face. For those already established in lives and careers, Your Future Edge empowers people to make changes toward more meaning and fulfilment.

Your Future Edge has had amazing success helping students from Marrayatville High School, Adelaide University, and UniSA.

Workshops are held throughout December at "The Joinery," Adelaide University, Commerce and Research Precinct, 35-37 Stirling St, Thebarton. Bookings, phone Bruce Riley on 8410 4900.

GENERAL NOTICES

Perimeter gates to close on Xmas Day

From midnight on 24 December 2000 to midnight on 25 December 2000, all perimeter vehicle and pedestrian access to the Campus will be closed.

University staff needing entry to the Campus on Christmas Day should contact the Security Office, tel 8303 5990.

JOHN LARWOOD
Manager, Projects & Facilities

Site works

There will be a deal of sitework on the terrace campus over the Christmas long vacation period with one of the more noticeable activities being an upgrade to the steps and stairs in the many courtyards. Legislative requirements dictate certain improvements such as new handrails and stair tread markings. All work is planned to be completed before O week 2001.

ROD PAGE
Property Services

Campus maps

Coloured campus maps are due for their annual update. Please check your department's listing on the relevant North Terrace, Waite, Roseworthy or Thebarton Campus map.

If corrections/alterations need to be made please provide a photocopy of the appropriate portion of the map and index, and clearly highlight the proposed correction/alteration.

Please forward this information to **Brenton Kalz, Property Services Branch by Friday 15 December 2000.**

Course Information Evening

A Course Information Evening will be held at Adelaide University from 5- 8pm on 3 January 2001. The evening is for SATAC applicants wishing to discuss their study options. Sessions will run at 5pm, 6pm and 7pm, and course advice will be available in Bonython Hall. Parents/guardians and friends are welcome. Bookings are essential and can be made via the Student Centre on 8303 5208. SA country and interstate callers can contact the Freecall Hotline: 1800 061 459.

Farewell

The friends and colleagues of **Professor F Andrew Smith** and **Professor Joe Wiskich** are invited to attend a combined farewell function to be held on Tuesday 19 December from 4.30pm - 6.30pm in the University of Adelaide Club.

Nibbles will be served. Cash bar available. RSVP: Marilyn Saxon, tel 8303 4458.

Future Directions and Highlights of Research

The Australian Institute of Nuclear Science and Engineering invites you to presentations on **Future Directions and Highlights of Research on Thurs 7 December, 11am - 6pm, at McLaren's on the Lake, McLaren Vale. Information online at: <<http://www.ansto.gov.au/ainse/council.html>>.**

South Australian Centre for Rural and Remote Health

Research Associate or Research Fellow

WHYALLA

FIXED TERM CONTRACT UNTIL 28 JUNE 2002 - 1.0 Time RESEARCH ASSOCIATE \$43,282 to \$46,459 pa, or RESEARCH FELLOW \$48,905 to \$58,075 pa + Excellent employment conditions

The SACRRH is one of seven University Depts of Rural Health located in rural and remote areas in States and Territory around Australia. The SACRRH is a joint venture between the Adelaide University, the University of South Australia and the Commonwealth Department of Health and Aged Care. The SACRRH is located at the Whyalla campus of the University of South Australia and has a support base with staff in the Adelaide University.

The SACRRH is seeking a research associate or research fellow with epidemiological or other quantitative skills to provide support for research activities undertaken by the centre. The current research foci are on Injury Prevention, Mental Health and Aboriginal Health.

Essential criteria for this position include:

- A relevant Honours Degree, Masters Degree or equivalent experience.
- Experience in quantitative research processes and methods.
- Skills in conducting reviews of literature.

The position is available from January 2001. Further information from Mr Jeff Fuller, Director, Public Health, SACRRH, tel (08) 8647 6021, mobile: 0419 821 830, fax (08) 8647 6164 or email <jeffery.fuller@unisa.edu.au>.

Applicants must obtain a position description and lodgement details from Julie Atkinson, Administrative Assistant, tel (08) 8647 6174, fax (08) 8647 6164, email: <julie.atkinson@unisa.edu.au> or from the website: <<http://www.unisa.edu.au/hrm/jobs/>>. Closing Date for applications is 5pm, Monday 11 December, 2000.

The Adelaide University and the University of South Australia are Equal Opportunity Employers. The Universities have a policy of no-smoking in the work environment and will require the appointee to observe this. The South Australian Centre for Rural and Remote Health reserves the right to appoint or not appoint at the stated level.

University of South Australia

Student Service Adviser, Central Campus

2 Positions - 1 x Continuing, 1 x Contract to 29 June 2001
Division of Health Sciences
HEO Level 4OB - Both 1.0 time \$31,031 to \$35,079 pa
+ 10% Enterprise Bargaining pay increase over approx. 2.5 years
+ Attractive superannuation benefits

Campus Central, University of South Australia, is responsible for providing a broad range of student administration services to students, prospective students, and staff of the University, and prides itself on its customer focused service approach in the delivery of these services. We are currently seeking to appoint two enthusiastic and motivated individuals to the position of Student Service Adviser, to be located at the City East Campus.

Student Service Advisers are the first point of contact for all student enquiries to the Campus, and therefore provide a crucial role in ensuring service objectives are met. The range of queries are extensive, and a comprehensive and accurate knowledge of courses and the University's policies and procedures must be maintained.

Student Service Advisers work under general direction and are able to resolve customer issues within the scope of established policies, procedures and practices. The position of Student Service Adviser provides an outstanding opportunity to develop a career in educational administration. If you have a strong commitment to client service, outstanding communication and time management skills, have an eye for detail and enjoy working in a busy office environment, you are encouraged to respond to this advertisement.

The standard opening hours for Campus Central are 8.30am - 6.00pm, and staff are rostered over these hours.

Applicants must obtain a position description and lodgement details from Linda Bowen, Division of Health Sciences, tel 8302 2259, fax 8302 1116 or email <linda.bowen@unisa.edu.au>, or alternatively at <<http://www.unisa.edu.au/hrm/jobs/>>. Closing date: 27 November 2000

THE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER

University parking permits

Parking permit holders are reminded to re-apply for their 2001 permits.

New fees are advertised (right).

Visit the Property Services web site: <<http://www.psb.adelaide.edu.au/carpark/renewal.html>>. Enter all information as required. Your permit will then be distributed in early December.

Please note that part time permit holders will be required to pay the fee up front. Salary deduction is no longer an option.

Duplicate permit holders can have the entire cost deducted from their salary avoiding separate payment for the second permit. Choose this option if preferred.

If you have chosen money order/cheque as the payment method, please await our GST invoice. Once your invoice is received please visit 230 North Terrace, Level 4, Finance Cashier to make payment and collect your permit

Further assistance: Property Services, 8303 3107 or Chubb Traffic Services, 8400 6690.

ELIZABETH HARDMAN
Parking Coordinator

Permit Type	2001 Fee incl. GST	F/T Deductions
Yellow (YOC)	\$400.40	\$15.40
Double Yellow (YOCD)	\$416.00	\$16.00
Blue (BOC)	\$400.40	\$15.40
Double Blue (BOCD)	\$416.00	\$16.00
Frome St (YFS)	\$400.40	\$15.40
251 North Terrace (Y251NT)	\$400.40	\$15.40
University Vehicle (UV)	\$364.00	n/a
Departmental (D)	\$364.00	n/a
Part Time (PTSOC)	\$250.00	n/a
Commercial (COM)	\$400.40	n/a
Temporary permits (ticket machine)	\$ 5.00	n/a
After hours full year (AHFY)		
- Staff	\$120.00	n/a
- Student	\$ 60.00	n/a
After hours semester permits (AHS1 or AHS2)		
- Staff	\$ 60.00	n/a
- Student	\$ 30.00	n/a

Part Time Permit Holders

Salary deductions are no longer available.

Direct Payments: A tax invoice, payable by cheque/money order only, will be provided opting for direct payment. Permits will be issued once payment has been received.

Call for papers

Australasian Association for Engineering Education 12th Annual Conference AaeE2001, *Towards Excellence in Engineering Education*, 26-28 September 2001, Queensland University of Technology, Australia.

Website: <<http://www.icms.com.au/aaee2001/>> or email: <aaee2001@icms.com.au>.

Important dates: Expressions of interest, 31 January 2001; Paper submission (full paper), 30 March 2001; Acceptance Notification, 31 May 2001; Final submission (camera ready), 13 July 2001.

Research Branch: special notices

NHMRC PROGRAM GRANT APPLICATIONS FOR 2002

The final policy statement for the new NHMRC Program Grants Scheme is now available on the NHMRC website at: <www.health.gov.au/nhmrc/research/contents.htm>.

The deadline for notifying the Office of the NHMRC of Intent to Apply is 31 December 2000 while the internal deadline for final applications will be 30 January 2001. The Intent to Apply is not mandatory or binding but will assist the Office of the NHMRC to arrange peer review in a timely manner.

ARC CLOSING DATES, 2001

Formal advice has been received from the Australian Research Council (ARC) of the closing dates in 2001 for applications for funding in 2002. They are:

16 March 2001: Discovery - Projects [formerly Large Grants and Fellowships] Internal close: 22 February

30 March 2001: Linkage - International Fellowships [formerly IREX Fellowships] Internal close: 15 March

12 April 2001: Linkage - Projects [formerly SPIRT] Internal close: 22 March

4 May 2001: Linkage - Projects

(APA(I) only) [formerly SPIRT APA(I)] Internal close: 12 April

1 June 2001: Linkage - Infrastructure [formerly RIEF] Internal close: 19 April (draft); 24 May (final)

21 June 2001: Discovery - Indigenous Researchers Development Internal close: 4 June

Continuous: Linkage - International Awards Internal close: continuous

ARC INFORMATION SESSIONS

An Information Session at which the guidelines and application procedures for all of these schemes for 2002 and feedback on the 2001 application round will be discussed has been scheduled for Tuesday 12 December, from 10.30 am to 1 pm in the Council Room, Wills Building. Details are available on the "What's New" page of the Research Branch website. Further sessions for those unable to attend in December, including one specifically devoted to completing the new application forms, will be held in the week commencing 22 January 2001. Further details will be available from the Research Branch in due course.

Pending the release of the 2002 guidelines and application forms, intending applicants are encouraged to commence drafting the

"Additional Text" component of their applications as soon as possible, on the basis of the 2001 guidelines, for review by their colleagues.

FORUM FOR EUROPEAN-AUSTRALIAN SCIENCE AND TECHNOLOGY COOPERATION OR "FEAST"

The diplomatic missions representing the Member States of the European Union and the European Commission in Australia, in association with major Australian S&T Organisations, have embarked on a common action to highlight and improve this cooperation. This initiative is known as the Forum for European-Australian Science and Technology cooperation or "FEAST. FEAST is a practical initiative with two components: an ongoing electronic forum delivering relevant and useful services, and regular working meetings.

FEAST is seeking the participation of European researchers working in Australian and Australian researchers with strong European links through:

- registering details with FEAST via the internet;
- assisting in determining what services you would like FEAST to provide the research community; and

- assisting in determining the format of the first FEAST event "Enhancing Research through Collaboration and Linkages

You can do all these quickly and easily by visiting the FEAST website

ARC GRANTS RECENTLY AWARDED FOR FUNDING FROM 2001 AND THE GST

The recently awarded ARC RIEF, SPIRT and Large Grants 'Conditions of Award' have now been distributed to Chief Investigators. Under Clause 5 Grant Funds, you will note that the funding is paid to the institution exclusive of GST. This means that the full amount awarded will be deposited to your Research Grant Account without a deduction for a GST component.

The GST component on any purchases you may make for your research project will be met from the University GST Holding Account. Your Department Finance Officer, when coding any invoices for payment relating to your research project must show the cost of the purchase to your Grant Research Account Code and the GST component to the GST Holding Account Code.

www.adelaide.edu.au/RB/

Adelaidean Schedule 2001

The publication dates and deadlines for Bulletin Board entries, Job Advertisements, Classifieds and booking of advertising space are listed below:

Publication Date (Monday)	Bulletin Board Deadline (Thursday 5.00pm)	Human Resources Deadline (Friday 5.00pm)
5 February	25 January	19 January
19 February	8 February	2 February
5 March	22 February	16 February
19 March	8 March	2 March
2 April	22 March	16 March
16 April	5 April	30 March
30 April	19 April	12 April
14 May	3 May	27 April
28 May	17 May	11 May
11 June	31 May	25 May
25 June	14 June	8 June
9 July	28 June	22 June
23 July	12 July	6 July
6 August	26 July	20 July
20 August	9 August	3 August
3 September	23 August	17 August
17 September	6 September	31 August
1 October	20 September	14 September
15 October	4 October	28 September
29 October	18 October	12 October
12 November	1 November	26 October
26 November	15 November	9 November
10 December	29 November	23 November

Research Branch

REMINDER

AUSTRALIAN RESEARCH COUNCIL INFORMATION SESSION: Tuesday 12 December 2000, 10.30am - 1.00pm, Council Room, Level 7, Wills Building, North Terrace Campus.

RESEARCH FUNDING SUPPORT FOR 2002

Mrs Janet Dibb-Smith, Professor Doug McEachern, Professor Russ Baudinette, Dr Gus Nathan together with Research Branch and Scholarships Branch staff will provide information to assist you with applications for ARC Grant Schemes for 2002 funding

Topics to be covered will include:

- changes to the schemes and/or guidelines for 2002
- comment and feedback on the 2001 application round
- plus a question time to assist researchers in preparing successful applications

ALL INTENDING APPLICANTS ARE INVITED TO ATTEND

RSVP and any enquiries to Research Branch, tel 8303 5137.

NOTE: NEW GUIDELINES, APPLICATION FORMS AND INSTRUCTIONS TO APPLICANTS ARE NOW AVAILABLE ON THE RESEARCH BRANCH WEBSITE <<http://www.adelaide.edu.au/RB/electronic.html>>.

Fitness offer for women staff



Are you feeling stressed or lethargic? Do you want to improve your general health and fitness?

The Women's Professional Development Network (WPDN) has negotiated an attractive membership package with Fernwood Fitness Centre in Rundle Mall.

The offer is available to all Adelaide University women staff (general and academic staff) and includes a significant discount on the normal membership fee.

For details visit the WPDN web site at: <www.adelaide.edu.au/wpdn>.

In the Business of Innovating Futures

Graduate Programs in Business Enterprise

Designed for Graduates and Professionals of all Disciplines

An intensive 3-day on-campus course for would-be entrepreneurs and people thinking of starting their own business will be held from Monday 29 January - Wednesday 31 January 2001. Contact us for details.

Phone (08) 8303 3094, or email <shane.cheek@adelaide.edu.au> for details.

Enterprise Education Group: <www.eeg.adelaide.edu.au>.

Feeling hungry?

Mara Danese in the Vice-Chancellor's Office has negotiated a deal with Executive Sandwiches, in the basement of David Jones (food area) off North Terrace.

Adelaide University staff can purchase rolls from Executive Sandwiches at the discount price of \$4.50, with one meat and up to four salad combinations. You will need to show your staff card when ordering.

Orders can also be placed via phone (8227 0149) or fax (8227 0148).