

ADELAIDEAN

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NEWS FROM THE UNIVERSITY OF ADELAIDE

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Telstra contract offers cutting-edge challenge

TELSTRA has awarded a major research contract to the University of Adelaide's Teletraffic Research Centre (TRC) through Luminis Pty Ltd.

The two-year, \$500,000 contract—to carry out ground-breaking research and development work—continues a 13-year partnership between the TRC and Telstra, which has resulted in significant gains for Australia's telecommunications services.

As part of this latest contract the TRC's mathematical modelling will enable Telstra to design more efficient and effective data services.

Data services are emerging as the most important of all Telstra's telecommunications services—even more so than standard phonecalls. Because it is a rapidly expanding field, there is a real need to research the systems involved to help maintain and even improve quality of service.

At a signing ceremony to formalise the contract, the Co-Director of the Teletraffic Research Centre, Dr Peter Taylor, said the contract would have direct and indirect benefits for students.

"This contract provides TRC staff with real challenges that in turn will lead to

practical, cutting-edge experience for students," Dr Taylor said.

"The Information Technology industry is crying out for university graduates who have practical IT skills. The TRC, and other areas within the Faculty of Engineering, Computer & Mathematical Sciences, aim to do just that—provide students with knowledge that goes beyond the theoretical and which can be applied in the real world."

He said an important area of skills shortage, Internet Protocol expertise, was already being addressed at the TRC.

Also attending the signing ceremony at the University of Adelaide was Dr Hugh Bradlow, Telstra's Director of Technology Strategy & Research. He said the contract was a win for both the University and Telstra.

"Telstra is delighted to award this important work to the University of Adelaide. The Teletraffic Research Centre has a world-renowned reputation in the highly complex area of mathematical modelling of telecommunications systems. Their work has greatly assisted Telstra in engineering its networks and products for superior performance," Dr Bradlow said.

—David Ellis



Deputy Vice-Chancellor (Research) and Luminis Board member, Professor Ross Milbourne and Dr Hugh Bradlow from Telstra, watched by the TRC's Dr Peter Taylor. Photo: David Ellis.



V-C welcomes scholarship winners

Some of the University's new scholarships winners with the Vice-Chancellor, Professor Mary O'Kane (centre front) in the Mitchell Building recently. Professor O'Kane hosted a morning tea reception to celebrate the achievements of the scholarship winners and welcome them to the University. Among those present were the winners of the Premier's Scholarships.

Radiocarbon dating to shed light on wine

WINE may well bring out the truth but it may soon be forced to yield a few secrets of its own, with Australian scientists planning to use the tools of archaeology to authenticate wines and detect additives.

The research, by scientists at the University of Adelaide and the Australian Nuclear Science and Technology Organisation (ANSTO), at Lucas Heights, Sydney, centres on carbon-14, the naturally-occurring radioactive isotope best known for its use in the dating of ancient organic material.

Led by Dr Graham Jones, a Senior Lecturer in Oenology in the Department of Horticulture, Viticulture & Oenology at the University of Adelaide, and Dr Claudio Tuniz, Director of ANSTO's Physics Division, the work is expected to benefit Australian wine makers seeking entry into foreign markets.

The team's method is based on the increase in carbon-14 in the environment during the Cold War, and its decrease over the past 40 years.

The team will use ANSTO's Antares tandem accelerator—a giant mass spectrometer—to measure the levels of carbon isotopes in red wine. Antares, which is capable of detecting concentrations as low as one atom in a thousand million, will reveal the age of individual wine components with a precision of less than a year. Antares

will be able to detect additives, including alcohol, not formed during the initial grape fermentation.

"By having a technique to accurately determine the age of the various components of a wine we have a method for validating wine vintage even if some components such as top-up wine are added later," says Dr Jones, an expert in wine chemistry.

He says the work could facilitate the entry of Australian wines into overseas markets by providing objective proof of the production methods used.

"We want to have the tools in place to prove that our wine is authentic should this proof be required," he says.

Dr Tuniz, meanwhile, says the research could also find applications in forensic studies using radiocarbon levels to determine the time of death of people in the past 50 years.

"ANSTO and the University of Sydney recently determined the atmospheric radiocarbon levels in the last 50 years by reading records of the isotope in trees," he says.

"Wine also is a reservoir of environmental data which will complement the results from trees."

The scientists plan to extract that data from vintage wine series supplied by some of Australia's leading producers.

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THE UNIVERSITY OF ADELAIDE

1874-1999

Celebrating **125** years

COMMENTARY

AFGHANISTAN: ECONOMICS MAY HOLD KEY TO CRISIS

After the Soviet troops withdrew from Afghanistan in 1989, the bloody situation in that war-torn country disappeared from the headlines in the world's press. The 'civil war' is considered unimportant to distant countries. The fanatical Taliban can be looked down on as intolerant fundamentalists, who close girls' schools and kill their religious opponents. A rich Arab can be demonised as masterminding world terrorism from his Afghan lair.

The images are dramatic, but reflect little serious analysis of Afghan or Central Asian issues.

In truth, since the USSR left and the USA lost interest, Afghanistan has continued to be a battleground for outside powers fighting by proxy. The Taliban's origins lie in the refugee camps of north-west Pakistan, and the movement is sustained diplomatically by Pakistan and is funded by drug money with Pakistani links. The opposition in the west has the support of its co-religionists in Iran. The opposition in the north is backed by Uzbekistan, and in the north-west the struggle is closely linked to the civil war in Tajikistan. All of the neighbouring countries' links to the warring factions have a strong ethnic dimension.

Further away, the competing forces in Afghanistan have drawn support along religious lines. Saudi Arabia helps to finance the Taliban as an Islamic movement. Russia leads the opposition within the Commonwealth of Independent States to Islamic fundamentalism, which if unchecked could infect the former Soviet Central Asian republics.

Economic interests provide a final piece

in this complex jigsaw. The economic stakes have been raised by attempts to realise the energy export potential of Central Asia. Turkmenistan has rich oil and gas reserves and Kazakstan major oil projects, but both are frustrated by the difficulties of exporting via the Russian pipeline network.

US oil giant, Chevron, for example, initiated what is still the largest foreign investment project in the former Soviet Union in the early 1990s with a \$6 billion venture to develop the Tengiz oilfield in western Kazakstan, but so far has reaped poor returns.

The least expensive route to the Indian Ocean lies through Iran, but Chevron's efforts to direct Tengiz oil through Iran are resisted by the US government. American companies such as Unocal have turned instead to negotiating with the Taliban for a pipeline route across Afghanistan to Pakistani ports.

The situation has created strange bedfellows among outside participants in the Afghan 'civil war'. Iran and Russia—centuries-old enemies in Central Asia—have been drawn together against their common enemy, the Taliban forces.

The USA has appeared to be drawn in with its two key regional allies—Saudi Arabia and Pakistan—on the other side, especially after the 1997 Unocal-Taliban negotiations. That in turn may have goaded Iran and Russia to greater support for the anti-Taliban forces. The USA would be on a sticky wicket trying to rally domestic support for action on behalf of Taliban, and few countries would take more pleasure in US discomfiture than Iran and Russia.

by
Professor Richard Pomfret
Head, School of Economics

A popular image of the actions of foreign powers in Central Asia is to see it as a revival of the Great Game played out in the region by Britain and Russia in the last century. However, the original Game (the term coined by Kipling in *Kim*) never turned into open war between Russia and Britain, in part because Britain created an Afghan buffer state between its Indian empire and Russia's empire.

In 1999 Central Asia is on the verge of a major war.

Taliban's victories in northern Afghanistan, culminating in the fall of Mazar-i-Sharif last year, brought the last major areas of resistance under its control. Taliban's opponents feel a need for vigorous response, or the game will be lost. The killing of Iranian 'diplomats' in Mazar-i-Sharif provides a classical excuse for war, and Iranian military manoeuvres on its border with Afghanistan at the end of September were intended to raise the tension level.

On the surface, Iran's large and battle-experienced army should be more than a match for the Taliban, but as the Russians and the British before them discovered, standard military calculations may not apply under Afghan conditions.

If Iran did invade Afghanistan, both Pakistan and Russia might be encouraged to also respond militarily, in part to distract their people from domestic troubles.

In this tinderbox situation any spark could ignite a conflict whose consequences are difficult to predict.

How can a wider conflict be avoided?

The key players are the USA and Iran. If they could normalise relations, a diplomatic solution would be feasible. Even without full normalisation, agreeing to cooperate under United Nations aegis could be sufficient. Iranian leaders are well aware of the dangers of becoming involved in Afghan wars and the US too, although currently conducting joint military exercises in Uzbekistan, has no wish to become militarily involved in Central Asia.

In early 1999 the race is between how long it takes for common sense to triumph over past grievances in US-Iranian relations and how soon an irreversible escalation of outside intervention in Afghanistan occurs.

Quarantining the Afghan conflict so that it does not spread into a regional or wider war is desirable, but as ever the losers will be the Afghan people ruled by a fanatical government with no concern for individual rights or tolerance for its opponents. Whether that government gains or loses support among the local population and in the neighbouring countries will depend in large part on economic progress in the region.

If the poor in countries whose names end in -stan are driven deeper into poverty or become incensed by increasing inequality and the conspicuous consumption of the elite, then the region will become a fertile ground for the obnoxious ideas of the Taliban. Thus, the longer term recipe for peace in this volatile region is recovery from the deep decline in living standards which followed the dissolution of the USSR and creation of new independent states.

Continued Page 6

Celebrating
125
years

FROM NEAR AND FAR

This is the first in a series of "125th anniversary" articles to appear throughout 1999, in which Alumni talk about their time at University, or comment on their perceptions of the University as it heads into the 21st century. Science graduate Dr Barbara Hardy, Chair of the Investigator Science and Technology Centre, contributes the opening article.

The three years that I spent Adelaide University from 1944 as a student in the Science Faculty were some of the most enjoyable in my life.

I had wanted to do Agricultural Science, but in those days the second year of the Ag Science course required boarding in Roseworthy Agricultural College, and, perhaps predictably, females were not allowed to do that in the 1940s. Therefore I chose Science instead, in particular Chemistry.

The University was quite small at that time, because it was war time, and so many of the dedicated young men and women of the Australian community had joined the armed forces, and were fighting for Australia and freedom for us all.

Whereas that was very concerning, it did mean that students right across the Faculties knew each other quite well, and there was very healthy comradeship and to a certain extent, competition within the student body.

It was especially good when social events were held like the Science Ball and sporting events.

The relationship between staff/lecturers and students was totally different from nowadays. We were terrified of our lecturers in many cases, and rarely asked questions at lectures etc—as far as I was concerned they were "God", especially Professor Macbeth (Chemistry).

In Science, first year students were always 'inducted' by all sorts of weird processes, which was a scary business, but had to be endured. Practical chemistry sessions were excellent, and as there were only about 40 students in third year, there was great opportunity to get things done and to try out lots of 'real' experiments.

I remember well being a 'demonstrator', as a third year student, at many practical sessions of the first year students. This was in 1946, and quite a few of those 'first years' were mature ex-servicemen who had returned to study, after fighting for their country. They took great joy in 'playing practical jokes' on this little blonde 18 year old. As a young girl with no brothers, or even boy cousins, that took a bit of coping with!

The young man who was later to become my husband, Tom Hardy, was



Dr Barbara Hardy

an engineering student, and for some reason spent a lot of time in the Chemistry building. His mother, Eileen Hardy (of wine fame) believed that young people should be educated in the correct procedures of drinking wine ie moderately, on social occasions and always with food.

She organised with AUScA (Adelaide University Science Association) to take the 'first years' (and others, including staff) down to Hardy's Tintara Winery at McLaren Vale for the first of their 'excursions' in March/April (vintage time).

Continued Page 6

Scholarships boost knowledge industry

THREE "knowledge-intensive" industries—all potentially important to South Australia's future—are being given a boost by lucrative new scholarships at the University of Adelaide.

The inaugural undergraduate Premier's Scholarships—supported by the State Government—have been awarded to outstanding applicants in the biosciences, information technology and biotechnology.

These areas are strengths at the University of Adelaide, and are considered by the Government to be potential boom industries for the State. The Government has provided \$900,000 to support new scholarships at the University.

The Premier's Scholarships at the undergraduate level are worth \$10,000 a year plus full fee remittance.

The inaugural winners recently joined the Vice-Chancellor, Professor Mary O'Kane, and other undergraduate scholarship winners at a reception in the Mitchell Building to celebrate their achievements.

The winners were:

PREMIER'S SCHOLARSHIP IN BIOSCIENCES

Ms Ni Hung Lin: To undertake the degree of Bachelor of Health Sciences with a reserve place in Law. Ni Hung attended Adelaide High School.

PREMIER'S SCHOLARSHIP IN INFORMATION TECHNOLOGY

Mr Kyle Dorian: To undertake the degree of Bachelor of Engineering (Computer Systems). Kyle attended Eynesbury College.

PREMIER'S SCHOLARSHIP IN BIOTECHNOLOGY

Mr Erik Procko: To undertake the



L to R: Premier's Scholarship winners Kyle Dorian, Erik Procko and Ni Hung Lin. Photo: David Ellis.

degree of Bachelor of Science with a particular interest in the biological sciences. At this stage Eric intends to major in Microbiology and Immunology and/or Biochemistry. He attended Marryatville High School.

Erik's twin brother Carl has been awarded an Adelaide Undergraduate Scholarship to undertake a Bachelor of Science with a reserve place in Law.

The Adelaide Undergraduate Scholarships, awarded for the first time this year, are among the most valuable scholarships available. The scheme has attracted some of South Australia's best school leavers.

The winners of the Adelaide Undergraduate Scholarships were:

Mr Chun Ming (Mark) Cheung
Science

Mr Justin Ghan
Mechatronic Engineering (The Andrew Thomas Scholarship)

Mr Dennis Lim
Law/Commerce

Ms Yik Ling Lim
Engineering (Computer Systems)

Ms Maura Paterson
Science (Mathematical & Computer Sciences)

Mr Carl Procko
Law/Science

Ms Hannah Tonkin
Law/Science

Ms Therese Quinn
Law/Science

Mr Philip Lock
Health Sciences.

New Deputy Vice-Chancellor (Education)

PROFESSOR PENNY BOUMELHA has been appointed Deputy Vice-Chancellor (Education) of the University of Adelaide.

Professor Boumelha, who holds the Jury Chair of English Language & Literature, has been Executive Dean of the Faculty of Humanities and Social Sciences.

As Deputy Vice-Chancellor (Education) she will be the senior manager with prime responsibility to the Vice-Chancellor for the University's education program.

She took up the position last week for a five-year period.

Professor Boumelha has served on many of the University's major policy decision-making committees since her appointment to the Jury Chair in 1990. She has been credited with effecting a significant

transformation in the Faculty of Humanities & Social Sciences since becoming Dean in 1996.

"The University's approach to education has been changing, with an increasing focus on student-centred learning," said the Vice-Chancellor, Professor Mary O'Kane.

"Professor Boumelha has a very good understanding of issues affecting teaching and learning.

"Her creative and strong leadership will be welcome as the University continues to develop internationally relevant and competitive education programs."

Professor Andrew Watson will be acting Executive Dean of the Faculty of Humanities & Social Sciences until July, when he goes to the Ford Foundation in Beijing.



Professor Penny Boumelha



The Long Bow

As our 125th anniversary celebration year is an important one for the University, the Bonython lions were given designer bows for Orientation Week (Adelaide Fashion Week and all that!). After a couple of O Week late nights it seems to me they're having a bit of trouble maintaining the air of solemn festivity imparted by the wearing of the special long bows. It was indeed a hectic week with brilliant weather and an action-packed program of activities which seems to have worked better than ever. Congratulations to all involved with the organisation of a great program.

Certainly the Scholarship winners who met for morning tea at the end of the week assured me that the orientation program had helped them to understand the University, meet new people and had allowed them to sample the clubs and services offered. I hope all our new students go on to enjoy their time at university as much as they seemed to have enjoyed this last week.

We'll have a new and special group of students on our campuses, particularly our Roseworthy Campus, following the launch by Minister Buckby on 25 February of the new Diploma in Rural Enterprise Management. This is a TAFE Diploma which has been instituted in order to meet the demand for education in farm management identified by the Roseworthy task force which we set up last year. The new Bachelor of Economics (International and Agricultural Economics) is another new course which has attracted good students. This course was also introduced recently to meet the needs of the agricultural industries. At Roseworthy I was particularly pleased to meet our new students who will study predominantly on that Campus and also to attend the Diploma launching and Playford TAFE South Australian Scholarships award ceremony. The Playford Trust has been important to the University in awarding postgraduate scholarships in horticulture and agriculture, and it's good to see the Trust extending its scholarships to those who succeed in those areas in TAFE courses.

It has also been a busy time for receiving visitors; we've had several High Commissioners and Ambassadors through. It's always a great pleasure to show off the achievements of the University, particularly to representatives of other countries, in the light of the University's emphasis on internationalisation. In order to brief with the new German Ambassador, Dr Horst Bächman, I was interested to review the development of our various collaborative links with Germany. In recent times we've seen an increase in student exchanges and considerable research collaboration in fields as diverse as theoretical physics, linguistics, and agricultural science. As a result we're looking forward to new, more formal arrangements with various German entities.

Also on the international front, I enjoyed meeting the new overseas students who have arrived in Adelaide, some bringing with them members of their families for a taste of the delights of Adelaide. We have an excellent induction program called "Settling in Successfully". Congratulations to everyone in International Programs for a successful and highly enjoyable program.

I can see why the Bonython lions look a bit exhausted—it's certainly been a busy time for them to keep watch over, but they have a great deal to be proud of.

MARY O'KANE



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Wine project uncorks student skills

A WINE PROJECT is not considered your normal introduction to an undergraduate academic year at the University of Adelaide.

But for three international students the two-week project had little to do with cracking open a bottle and more to do with preparing for a hard year's work.

From 8-19 February, Yoshie Furusawa, Lok-Ping Katherine Quan and Nutthapong Phaisub completed their project, "Entering the Japanese Wine Market", as part of the Undergraduate Bridging Program conducted by the University of Adelaide's Advisory Centre for University Education.

Over the two weeks, 25 undergraduate students were placed in small groups to work on projects related to their upcoming courses, presenting them in oral presentations on the final day.

Ms Furusawa, 36, of Japan, said the project was a valuable experience as it gave her the confidence to find information and identify the most important materials for her research.

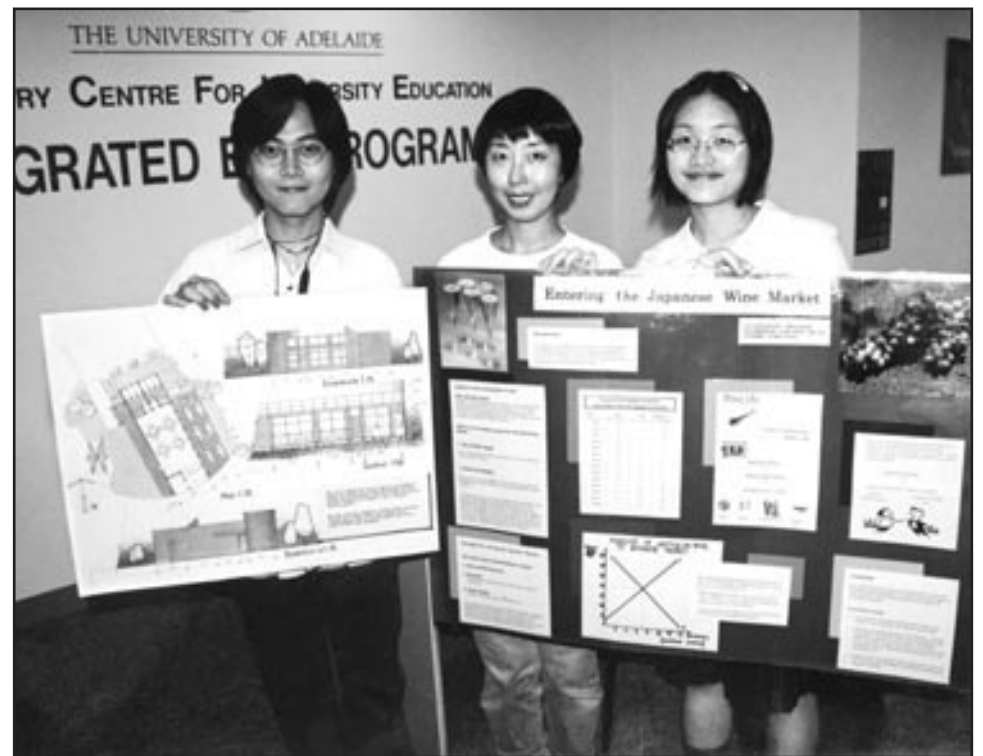
"I also learnt how to do a presentation and use a database—I am not afraid of these things now," she said.

She said the two weeks were an ideal preparation for her first semester in a wine marketing course at the University of Adelaide.

Ms Quan, 20, of Hong Kong, said completing the graphs, tables and illustrations for the wine project helped her understand many of the difficult problems and concepts she will encounter in her first year finance course.

Mr Phaisub, 22, of Thailand, said creating the architectural drawings for a wine tasting auditorium in just two weeks was both difficult and rewarding.

The project could perhaps have been more useful for his design studies course if the group had completed it over an even longer



Nutthapong Phaisub, 22, Thailand, Design Studies, Yoshie Furusawa, 36, Japan, diploma in wine marketing and Lok-Ping Katherine Quan, 20, Hong Kong, first year finance

period of time, he said.

The Coordinator of the Integrated ESL (English as a Second Language) Programs, Kate Cadman, said the projects, as well as other activities during the two weeks, were very successful in helping the students develop the research, negotiation and presentation skills required for their courses.

"It was quite moving to see how far the students went with their projects over the two weeks," she said.

She said the projects, also involving more than 60 postgraduate international students, were part of the "intensive phase" of the bridging program where students had the opportunity to work together on a group assignment that was relevant to their first semester studies.

The projects also helped to provide incoming international students with a

friendly peer-group environment early in their stay in Adelaide, she said.

The Undergraduate Bridging Program (UBP) was introduced this year following the success of the Integrated Bridging Program, started for postgraduate international students in 1995.

The UBP is designed to help international students understand the linguistic, academic and cultural expectations for their study at the University of Adelaide. It is divided into three parts—the two weeks of intensive classes, weekly workshops during the semester and individual appointments with lecturers.

The posters used by international students for their oral presentations will soon be displayed in the Barr Smith Library.

—James Gruber

National Algal Workshop a success

ALGAE and their use in water monitoring was the focus of discussion at a recent national workshop at the University of Adelaide.

The Inaugural Australian National Algal Workshop, convened by Dr Peter Gell from the Department of Geographical & Environmental Studies, was hailed a success by the 70 participants and presenters who attended.

Algae are an excellent indicator of water quality and health. The workshop took a closer look at the various algal groups—what they are, how they can be classified, what influences their growth, and what they can tell us about the surrounding environment.

More than half of those attending the workshop were water industry workers who for the first time were provided with a unique opportunity to learn more about algae and their role as environmental indicators.

Dr Gell, a specialist in single-celled algae called diatoms, said he was pleasantly surprised by the large number of registrants.

"We've had a great response to the workshop from industry. For a long time the water industry has focused on aquatic invertebrates to monitor our waterways. Hopefully this

reflects a shift towards including algae as indicators of water quality and stream health. After all, they are one of the main building blocks of aquatic ecosystems," Dr Gell said.

"Water industry workers have been looking for assistance in classifying the algal forms they see and interpreting their counts in terms of water quality and the threat of toxicity. While most industry biologists can identify different algal groups, there's a wealth of information which becomes available once you are trained to identify them to species," he said.

The course opened with an overview of the systematics, morphology, physiology and ecology of all the algae by Professor Peter

Tyler of Deakin University.

Ms Larelle Fabbro of Central Queensland University then presented a guide (co-authored by Peter Baker of AWQC Bolivar) to the common blue-green algae of Australian waters, identifying particularly the toxic forms and those capable of forming blooms.

On the third day of the workshop Dr Gell and Dr Michael Reid of Monash University presented a guide to common Australian diatom genera.

The guides, published in the Murray-Darling Freshwater Research Centre Identification Guide Series, are available for purchase from PO Box 921, Albury 2640 or ph (02) 6058 2300.

Don Dunstan Foundation

In the last Adelaidean, we listed the URL for the Don Dunstan Foundation. This has since changed to <http://www.adelaide.edu.au/dunstan_foundation/>.



While there is some historical comment, the emphasis is on *today* and what development might be considered as Adelaide moves into the 21st century.

"Adelaide Speaking" will be broadcast on Sundays at 3.30pm, with the first program—on Adelaide's parklands—starting on 11 April. 531 on the AM dial.

For more information about Radio 5UV call (08) 8303 5000.

"Adelaide Speaking" is a provocative new series of 13 half-hour discussion pieces concerning several key city features.

Adelaide advice to support China

CHINA has looked to the University of Adelaide for advice in addressing agricultural management and infrastructure problems.

The Faculty of Agricultural and Natural Resources Sciences recently hosted three delegations from China studying agricultural management systems in Australia.

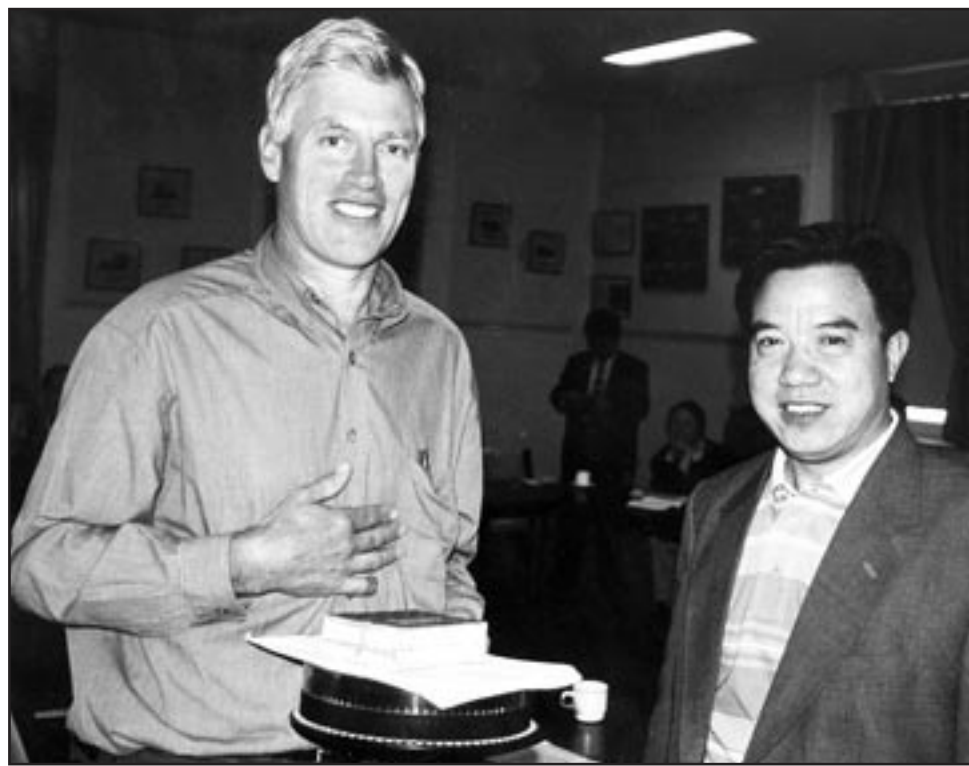
The first group, from six provinces and the Central Ministry of Agriculture, spent three days at the Roseworthy Campus and toured the Barossa Valley and Riverland as part of a Faculty-organised program. Areas covered included industrialisation of agriculture in Australia, technology transfer, rural cooperatives and finance.

A second group of nine officials from the China International Centre for Economic and Technical Exchanges were based at the Waite Campus, studying cooperatives and rural finance.

A third delegation, including Professor Shi Zeliang, Jishou University, and Professor Wu Jisheng, from the Xiangxi Agricultural Research Institute, last month met with Faculty staff, the SA Farmers' Federation and SARDI, and toured the Plant Research Centre.

During a four-day stay, the delegation also visited the Lenswood and Nuriootpa Horticultural Service Centres and the Beerenberg Farm, Hahndorf.

Mr Hugh McLelland, Manager, Agri-business Development for the Faculty,



Professor David Coventry, University of Adelaide and Mr Liu Denggao, Deputy Director of General Station for Management of Rural Cooperative Economy, Ministry of Agriculture. Photo courtesy of Hugh McLelland

said China was the world's largest producer of grains and was achieving "astonishing efficiencies" in other areas of agricultural production.

"Nevertheless, China has fundamental management and infrastructure problems and has recognised Australia as a major source of advice for necessary production and marketing reforms," he said.

"With a quarter of the world's population, China is a massive potential market for exports, technology, investment and educational services."

Arrangements for the two delegations from the China International Centre for Economic and Technical Exchanges were made in conjunction with the University's Chinese Economies Research Centre.

Nobel Prize winner on BresaGen board

AUSTRALIAN Nobel Prize winner and 1997 Australian of the Year Professor Peter Doherty has been appointed to the scientific advisory board of Adelaide biotechnology company BresaGen Ltd.

Professor Doherty, who shared the 1996 Nobel Prize for Medicine with Professor Rolf Zinkernagel of Switzerland for his work on the immune defences of cells, will participate in the regular overview of the scientific work carried out by BresaGen.

BresaGen, based at the University of Adelaide's Thebarton Campus, is a world leader in transgenic animal research and is involved in the development and production of new pharmaceuticals to combat such illnesses as cancer.

BresaGen's scientific advisory board, which meets in July and December each year, provides an independent "external audit" of the company's work.

The Chair of the advisory board and Professor of Biochemistry at the University of Adelaide, Professor Peter Rathjen, welcomed the appointment, saying Professor Doherty's expertise and achievements would have a major impact.

Dr John Smeaton, BresaGen's managing director, said the appointment was a boost for the company and a recognition of the importance of its work, particularly in new drug development.

Philosophers and lawyers to get together

LAW AND PHILOSOPHY come together in a unique seminar series being held at the University of Adelaide's Law School from today (Monday, 8 March).

The series, called "Intention in Law & Philosophy", will run through to the end of October.

All 14 lectures will deal with a critical concept in both law and philosophy: the concept of "intention".

Intention is fundamental to many areas of academic inquiry, but crucial to lawyers. For example, the intention of those who wrote the constitution becomes a key legal issue when debating constitutional law. Intention is also central to criminal responsibility.

To foster discussion and debate on the issues of intention, the University of Adelaide's Law School has invited philosophers and lawyers from Australia and New Zealand to take part in this lecture series.

The first lecture, to be given by Professor Frank Jackson, will be held at 1.00pm today in Room 216 of the Law School (Ligertwood Building). Professor Jackson, who is the Director of ANU's Institute of Advanced Studies, is one of the world's top philosophers. He will discuss "How decision theory illuminates assignments of responsibility".

Other key speakers throughout the series include philosopher Professor Philip Pettit (ANU), Professor of Bioethics Grant Gillet (Otago), discrimination lawyer Professor

Margaret Thornton (La Trobe), and feminist lawyer Professor Sandra Berns (Griffith).

"This seminar series is an important one because it brings together two groups—lawyers and philosophers—who have traditionally spoken together but never in a unified way," said the convener of the seminar series, University of Adelaide Reader in Law Dr Ngaire Naffine.

"Intention is one of those classic issues which both groups have been working on for many years, and yet there's been insufficient public debate about it. The seminar series gives us the opportunity to tackle this important concept and to collaborate with other disciplines and other universities."

"We hope there's some cross-over," said Adelaide law lecturer Dr John Williams, who is also one of the speakers for the series.

"We hope to learn a lot from the philosophers and in turn to give them our perspective. That's critical to the idea behind this series, and we're very grateful for the support we've received from the Law School, our colleagues and the philosophers at ANU, which has made this series possible."

All seminars will be held at 1.00pm in the Adelaide Law School, primarily on Mondays. For full details of the seminar program turn to page 1 of the *Adelaidean* Bulletin Board. The seminar series might also be published later in the year.

—David Ellis

Oz icons on parade

DRAG QUEENS, diggers, footy, weddings and festivals—they're all Aussie icons which are about to go under the microscope in a new public film and lecture series at the University of Adelaide.

The "Icons of Oz" mini-fest offers Adelaide a free film and speech each day of the week from Monday to Friday, 22-26 March. The films will be screened at 12.30pm in the Union Theatre, followed by the lectures at 6.30pm in Napier Lecture Theatre 102.

Organised by the Adelaide Research Centre for the Humanities & Social Sciences (ARCHSS), the event promises to be entertaining and thought-provoking.

The first of the Aussie icons being looked at is *The Digger*—the quintessential Australian soldier. Peter Weir's classic Australian film *Gallipoli* will be followed that evening by a lecture from Emeritus Professor Ken Inglis (Historical Studies, ANU). Professor Inglis will discuss the origins of the digger and common perceptions of the icon—actual and mythical—over a century of war and peace.

Next is *The Drag Queen*, represented in the Australian film *The Adventures of Priscilla: Queen of the Desert*, the road-movie-with-attitude which caused a near riot at the Cannes Film Festival. The evening lecture, on the nature of masculinity and the sexual identities of Australian men, will be given by Dr David Murray (Anthropology, University of Adelaide).

The third icon is *The Game*—in this case, Australian Rules Football. One

of the most extraordinary of Australian cultural phenomena, football combines balletic beauty with raw violence. The widely respected documentary *The Year of the Dogs* will be shown during the day, with the lecture being given by Dr Margaret Lindley (English, University of Tasmania). Her talk will explore the relationship between the "great Australian game" and the Australian community.

Muriel's Wedding, another Australian film to achieve enormous success both locally and overseas, will be screened as part of the discussion surrounding *The Wedding*, the fourth Aussie icon. Dr Catherine Driscoll (English, University of Adelaide) will look at bridal culture and Australianness in her talk and asks the question, amid global media representations and the increasing diversity of cultural traditions in Australia, can there be an "Australian bride"?

The final day of the week-long series examines *The Festival*. Ms Robyn Archer, Artistic Director of the Adelaide Festival for 1998 and 2000, will discuss the charter of the Festival and its contribution to the creative and artistic culture of South Australia and the nation, and its place in the world scene. A documentary on the 1998 Telstra Adelaide Festival will be screened, introduced by Associate Professor Kay Schaffer (Social Inquiry, University of Adelaide).

Entry is free and all are welcome. For more information about "Icons of Oz" contact Greta Larsen on (08) 8303 4817.

—David Ellis

FROM NEAR AND FAR

From page 2

The first trip happened in 1944. Early on a Sunday afternoon students piled on to a train at Adelaide station, and the Hardys, and their helpers, got on at the Seacliff station. The train wended its way down to McLaren Vale and stopped at the main road where we all got off with the big trays of sausage rolls, cream puffs, devilled almonds, etc which Mrs Hardy had prepared.

The Hardy boys, Tom and his brother David, plus the Manager of the Winery, Bob Hagley, gave the students a scientifically based tour. Then they set about demolishing the excellent food plus the occasional glass of wine. Great fun was had by all, including the staff who were present, and there were many memorable incidents.

For the trip back to Adelaide, the returning train (from Willunga) again stopped at the main road, put down the steps, and we all climbed aboard.

This excursion became a ritual each year from then on. Professor Geoffrey Badger, Vice-Chancellor for a number of years, went 15 times, including the 25th occasion when he presented a plaque to Thomas Hardy & Sons for their hospitality. Dr Harold Rodda went 23 times and Professor Harry Medlin was a frequent participant. It is quite often that eminent scientists remind me that the first time I met them was at an AUSCA Hardy's Winery Tour.

It is often that I realise how valuable it has been for me to have attended Adelaide University and studied science. I believed that everybody should know a little about science. Then they would far better understand the economy (all products are based upon a fundamental scientific principle) and the environment/ecology (problems such as global warming, pollution, the finiteness of fossil fuels, etc). That is the reason I have been so involved in helping to establish the 'hands-on' Investigator Science and Technology Centre, so that people will have the opportunity to find out that science is enjoyable, and children can see that science could be a satisfying and valuable career.

Adelaide University is a wonderful institution, of immeasurable value to South Australians—and indeed Australians. It must be supported by the community, by industry, and by governments. In fact, it is up to all of us to lobby both the State and Federal Governments for much more support, and to emphasise to them how much the prosperity of this country depends upon the education of its people.

Profile: In search of good vibrations

COLIN HANSEN, appointed Professor of Mechanical Engineering at the University of Adelaide in November 1998, once found himself making use of his knowledge of acoustics and vibrations to foil Soviet espionage.

He completed his undergraduate studies in Mechanical Engineering at the University of Adelaide in 1973, and in 1979 he moved to Los Angeles in the United States to work as a consulting engineer with Bolt, Beranek & Newman Inc., being awarded his PhD by the University of Adelaide the following year.

One of the problems he was given involved centrifuge vibrations in a uranium enrichment processing plant. His task was to find ways of damping these vibrations to eliminate the possibility that any Soviet agents with listening devices positioned nearby could gather vital information about the rotational speed of the centrifuges. As far as he knows, his efforts to protect the secrecy of the process were successful.

While in the US he worked on noise reduction in a range of other settings including the interiors of armoured personnel carriers, the environs of oil drilling operations, inside naval shipyards, and even the production line of a Ratsack factory.

Returning to Adelaide in 1983 at the behest of local consulting firm CJ Abell & Co. he worked on a number of projects, including torsional vibration analyses of ship propulsion systems, and devices for damping vibrations in power lines to avoid metal fatigue.

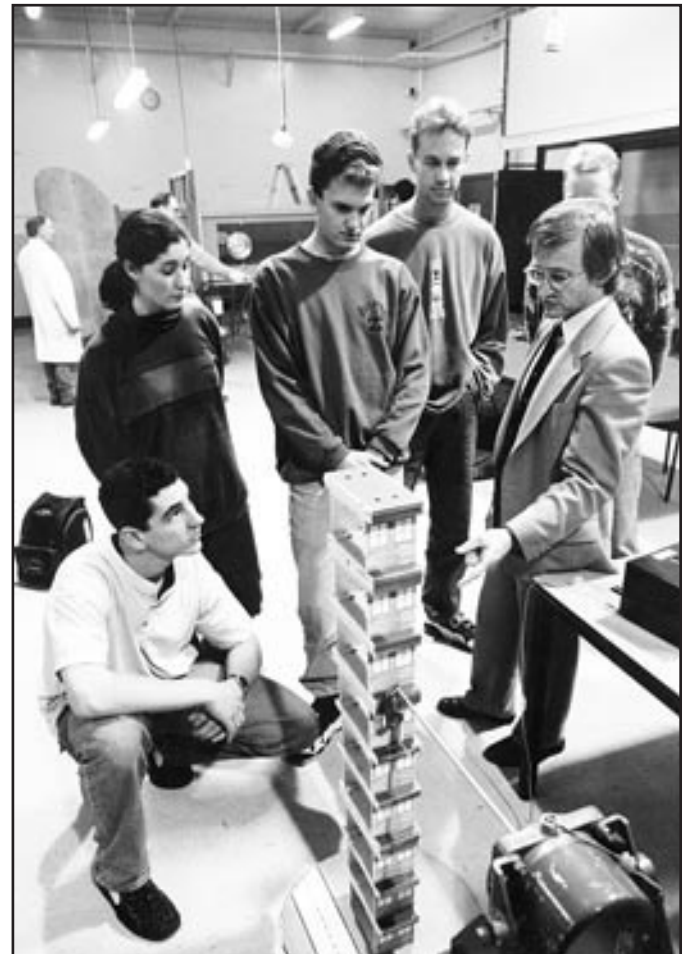
In 1986, he took up a post at the University of Adelaide's Department of Mechanical Engineering, bringing with him a wealth of research knowledge as well as practical experience with deadlines, budgets and personnel.

His recent research has focused on the use of newly developed noise and vibration cancellation technology to minimise various kinds of noise: aircraft noise for airline passengers; the annoying hum given off by electrical transformers; and engine noise radiated by submarines.

This work involves the seemingly magical process of beaming sound waves via microphones and loudspeakers at a source of noise at pressures exactly opposite to those of the noise in order to negate it.

Professor Hansen's department has long had an enviable reputation for the quality of its graduates. One of its best known "high fliers"—literally—is astronaut Dr Andy Thomas who completed his PhD at the same time Professor Hansen completed his. For many years, their fellow graduates have been keenly sought after by industry, mining, defence and academic organisations throughout the world, and Professor Hansen aims to keep it that way.

Although competition for the limited places on offer is fierce, one aspect of recruiting that he finds somewhat puzzling is the low rate of female enrolments—for while those women that do enter mechanical engineering go on to become some of the best in the field, more women are choosing other branches of engineering. He suspects that



Colin Hansen (right) with Engineering students. File photo by Brenton Edwards.

not enough information about the ample rewards on offer is reaching female school leavers.

One interesting exception, perhaps the outcome of leading by example, is the enrolment of Professor Hansen's own daughter in his department which, he notes, promises to make for some interesting discussions when their paths eventually cross in class.

Professor Hansen's main recreation is hang-gliding, which, he hastens to point out, is much safer than it once was. Over the past 20 years, he has experienced the challenges of soaring 194 kilometres from Lochiel to beyond Taillem Bend, and he has flown to the life-threatening heights of 17,000 feet above the Sierras in the US, assisted by bottled oxygen and a skiing suit for thermal protection.

As a director of the International Institute of Acoustics and Vibration and an internationally recognised expert on the active cancellation of noise and vibrations, he often spends many hours in the air each year in more conventional forms of aircraft travelling abroad to speak at conferences.

—Tony Cox

Advertisement



Put yourself in the spotlight
HOST A CONFERENCE

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

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- Full colour brochures that can be overprinted with conference details
- Brochures for delegate satchels
- Advice on conference facilities, venues and catering

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



COMMENTARY cont...

AFGHANISTAN: ECONOMICS MAY HOLD KEY TO CRISIS

From Page 2

In none of the economies in transition from Soviet-style planning to a market economy during the 1990s has progress been smooth. In the Central Asian countries this transition has occurred in the context of nation-building, in countries with no history as modern nation states, and of the breakdown of tightly-knit supply chains after the hyperinflation and collapse of the Soviet ruble.

The policy makers in the new states have no experience of running a market economy and little basis on which to assess competing recommendations from internal and external advisers. The world community has provided little help. Despite the activity of the United Nations and the international economic institutions, national aid agencies and non-governmental organisations, the region is not a high priority to the global community.

Australia has considered the Central Asian countries too developed to qualify for aid and not significant enough as potential commercial partners. The only cautious step has been to open an embassy in Kazakhstan, the richest of these countries and with its rich mineral endowment and pastoral agriculture having many economic similarities to Australia. The most populous, Uzbekistan, is dealt with by the Australian embassy in Moscow—which would be equivalent to Uzbekistan dealing with Australia through its London embassy.

Given the potential for contagious war in the region, Australia together with other civilised nations should try to contribute to economic progress and international peace.

Professor Richard Pomfret, Head of the School of Economics at the University of Adelaide, advises the United Nations on the economies of Central Asia.

Alumni Association announces 1999 events

ANNUAL ALUMNI EVENTS:

Early Graduates' Afternoon Tea: Saturday 24 April, 3:00 - 4:30pm; Equinox Cafe, Union House. A particular invitation is extended to alumni who graduated more than fifty years ago. A small charge is made for afternoon tea.

Annual General Meeting: Thursday 24 June, 8:00pm; Napier Lecture Theatre 102. All members are encouraged to attend.

Golden Jubilee Commemoration: Thursday 21 October, 6:00pm, in the Bonython Hall, followed by dinner in Union House. Graduates of 1949, together with their families and friends, are invited to join in this celebration.

Free tours of North Terrace Campus: Every Tuesday morning, 10:30am. Tours last one hour and are led by trained volunteer guides from the Alumni Association. Special tours may be arranged at other times for clubs and community organisations. Phone 8303 3196.

ACTIVITIES PROGRAM 1999

The Science & Mathematical Sciences Chapter presents: WHAT INFLUENCES OUR CLIMATE? (El Niño and La Niña: cause and effects).

There is a periodic extension along the Peruvian coast of the warm equatorial ocean current, replacing the cold Humboldt Current. Sea surface temperatures rise. As a climatic consequence of this, heavy rains then fall in the desert areas of Peru but droughts occur in Australia. Can anything be done to mitigate this effect for Australia? Speaker: Professor Peter Schwerdtfeger, Foundation Professor of Meteorology at Flinders University. Mawson Lecture Theatre. Bookings not necessary. Monday 22 March, 7:30pm.

The Cornell Chapter presents: HILARY AND JACKIE - A NIGHT AT THE MOVIES: Join the Cornell Chapter at Palace Eastend Cinema for a fund-raising screening of *Hilary and Jackie*, a film based on the acclaimed cellist Jacqueline Du Pre and her relationship with her sister Hilary and conductor Daniel Barenboim. Please book at the Alumni Office; \$10. Proceeds to the Cornell Chapter. All welcome. Thursday 8 April, film starts at 7:15pm.

AN ARCHIVES WORKSHOP: How to store, document and generally care for your treasured personal records, including photographs, letters, scrapbooks, newspaper clippings and other memorabilia. Participants are encouraged to bring along items of particular interest or concern.

Conducted by University Archivist Kylie Percival. Numbers limited; bookings essential. Wednesday 12 May, 10:00am-12:00noon.

CONCRETE COSMOLOGIES: Exploring the fabric of Australian racism on North Terrace. How our public institutions shape our perceptions; how our perceptions shape our beliefs. An illustrated lecture by Dr Deane Fergie, Department of Anthropology. Tuesday 22 June, 7:00pm.

ACTIVE NOISE CANCELLATION: "ANTI-NOISE": Is it possible to neutralise noise by generating an "anti-noise"? A presentation by Professor Colin Hansen and the Department of Mechanical Engineering. Lecture and demonstrations. Tuesday 27 July, 7:00pm-9:00pm.

VISIT TO THE DEPARTMENT OF APPLIED AND MOLECULAR ECOLOGY: The Department of Applied and Molecular Ecology (formerly Crop Protection) is involved in the science and management of organisms in natural and agricultural ecosystems. The new Department covers four major teaching disciplines in the areas of entomology, plant pathology, weed sciences and applied ecology. Presented by Professor Otto Schmidt and his team. Wednesday 4 August, 7:00pm-9:00pm.

INDONESIA: AUSTRALIA'S NORTHERN NEIGHBOUR: The Department of Politics presents observations and analyses of political and social developments in Indonesia by a panel of academics and post-graduate students. September; date to be confirmed.

LOGIC AND ITS CRITICS: Logic, as a branch of philosophy, has its origins in Ancient Greece, and modern applications in computer science, artificial intelligence, engineering, mathematics and philosophy. An illustrated lecture by Professor Chris Mortensen, Department of Philosophy. Wednesday 6 October, 7:00pm.

A WALK IN THE WAITE CONSERVATION RESERVE: Dr Jennifer Gardner will lead a walk through the Waite Conservation Reserve in the hills face area behind Waite Campus. This Reserve is dedicated to the protection of nature and the furtherance of scientific knowledge. Some strenuous sections; please wear appropriate footwear and clothing. October; to be confirmed.

For bookings and information tel 8303 4275. Details of venues and meeting places are available from the Alumni Office, and are published in the *Adelaidean* close to the scheduled date for each event. Any changes will be notified in the *Adelaidean*.

Eric Aroha Rudd: an oil search pioneer

ERIC AROHA RUDD, AC, Emeritus Professor of Economic Geology at the University of Adelaide, died on 31 December, 1998 at age 88 after a long battle with cancer.

Professor Rudd was widely known for his significant contributions to geological education and mineral exploration in Australia. He was a pioneer in oil search in the Roma, Gippsland and Northwest Shelf areas of Australia; he carried out the first geological surveys and ore reserve estimates for the Middleback Ranges Iron Ores of South Australia; he undertook meticulous mapping of the Sydney Basin coalfields; and he was principal geological consultant on the Snowy Mountains Hydroelectric Scheme. But he is probably best known for his work as an educator, having been appointed to the first Chair in Economic Geology in the country in 1949, and having been the driving force behind the establishment of the Australian Mineral Foundation in Adelaide in 1972.

Eric Rudd graduated BSc, majoring in physics and geology, from Adelaide University in 1930. He was a student of Sir Douglas Mawson and Sir Kerr Grant. He had intended to become a school teacher but opted for a life as a scientist and geological explorer after having participated in one of Dr Cecil Madigan's expeditions to the Simpson Desert. He joined Oil Search Ltd in 1930 and worked as a field geologist for the next four years, often for extended periods in very remote locations. A desire for greater knowledge prompted him to undertake further study. He went to Harvard University in the USA, which was then the leading geoscience school in the world, where he obtained his MA in 1935. He returned to Australia in 1936 to join BHP. Apart from a period of war service from 1941-1945, Rudd remained with BHP until 1949. He

rose through the ranks to become Chief Geologist in 1946.

The University of Adelaide appointed Eric Rudd to the Chair of Economic Geology in 1949. He was given his own department (Economic Geology), which was co-located with Mawson's Department of Geology and Mineralogy. For much of the time until his retirement in 1970, Rudd was the sole academic member of this department. Single-handedly, he taught the principles of economic geology to hundreds of students, and trained many specialist exploration geologists for the growing resources industry. Professor Rudd was highly regarded by his students for the excellent courses he developed and taught. He was also admired by the students for the interest he showed in them, both at university and in helping them establish their careers. Over 15 MSc and 76 Honours theses were carried out under his direction, plus three PhDs. A number of Professor Rudd's students went on to assume prominent positions in industry, academia and government.

During Professor Rudd's occupancy of the Chair in Economic Geology, he viewed one of his major roles as building links between the University and the mining and petroleum industries. His efforts were responsible for establishing Adelaide's reputation as a leading centre in the training of geologists and geophysicists for industry employment. He secured industry funds to establish a professorship in exploration geophysics at Adelaide University in 1969, the first such Chair in Australia. He remained as a consultant and geological advisor to the Department of Mines, South Australia, the Australian Oil and Gas Corporation Ltd, and the Snowy Mountains Hydro-Electric Authority. Furthermore, he was keenly aware of the necessity for

exploration companies to be kept informed of trends in technology and new concepts. He achieved this by establishing close personal contacts with overseas institutions and by organising visiting lecturers from those institutions to come to Adelaide. It was the success of this approach that eventually led to the establishment, after his retirement from the University, of the Australian Mineral Foundation for the continuing education of professionals in the mining and petroleum industry.

Eric Rudd served on the Advisory Committee of CSIRO for six years. In retirement, he joined the Boards of a number of resource companies like Santos Ltd, Western Collieries, Australian Oil and Gas Corporation Ltd, Kathleen Investments and Poseidon. He became Chairman of Poseidon in 1972 and rescued the company from receivership back into profitable business. This was one of his most proud achievements.

Professor Rudd maintained an extremely high profile in the profession. He was President of the Australasian Institute of Mining and Metallurgy, President of the Australian Diamond Drilling Association, on the Editorial Board of the American Association of Petroleum Geologists, and Council Member of the Australian Mineral Foundation. He was invited to give a number of Distinguished lectures: CR Kent Lecture, Gartrell Memorial Lecture, Sir George Fisher Lecture, Essington Lewis Memorial Lecture, Julius Kruttschnitt Memorial Lecture—to name a few. During 1978 he was Hearst Visiting Professor at the University of California at Berkeley.

In recognition of his outstanding contributions to education and the profession, Eric Rudd was honoured in 1984 with a Companion of the Order of Australia. Among his other notable



honours and awards were the Kent Medal of the Institute of Fuel (1966), The Institute Medal of The Australasian Institute of Mining and Metallurgy (1968), The Matson Award of the American Association of Petroleum Geologists (1984), the Lewis Weeks Memorial Gold Medal of the Australian Petroleum Exploration Association (1984), Life Membership of the Australian Mineral Foundation (1985), Honorary Fellowship of The Australasian Institute of Mining and Metallurgy (1988), Distinguished Achievement Award of the American Association of Petroleum Geologists (1992) and Honorary Membership of The Geological Society of Australia (1994).

Eric Rudd was a sincere, enthusiastic man of high principles and integrity who had a profound impact on all who came to know him. The geology profession has lost one of its best educators and explorers.

Emeritus Professor Rudd is survived by his wife, Margaret, sons Douglas and Richard, daughters Miranda and Melissa, eight grandchildren and two great grandchildren.

—Stewart Greenhalgh
Mawson Professor

Advertisement

Fabulous years at the Conservatorium

CLEMENS LESKE, AM and Beryl Kimber, OBE, FRAM recently ended their ties with the University of Adelaide's Elder Conservatorium, having held principal teaching positions there for 49 and 34 years respectively.

During Clemens Leske's five decades of tenure at the Elder Conservatorium, he rose to the positions of Associate Professor, Dean of the Faculty, and Director, and he also served as Chairman of the Australian Music Examinations Board. Beryl Kimber was an Associate Professor, solo performer and leading teacher of violin at the Conservatorium, and still gives master classes in various parts of Australia for promising young violinists.

In addition to working in the same organisation and often performing together, they became husband and wife. Both have had long and distinguished performing careers—he as pianist, she as violinist.

Growing up in the small Victorian Mallee town of Rainbow, Clemens Leske took the first step of a life-long musical journey by attending the Melbourne Conservatory. Then army service during World War II put his career on hold for 4 years. In 1948, he travelled to Europe to study at the Paris Conservatoire for two years, after which he chose to make Adelaide his home. Subsequent journeys have included numerous tours of Europe, Asia and the USA with a repertoire which included more than 30 piano concertos. He has also recorded many works for ABC Recordings, and has played at almost every Adelaide Festival since 1960.

Beryl Kimber spent her childhood years in Tasmania where, aged 17, she won a scholarship to study at the Royal Academy of Music in London. Faced with the disappointment of not being able to study under the mentor of her choice, her father insisted that she would forego the scholarship rather than study with anyone else, and so the authorities relented. After further studies at the Paris and Moscow Conservatoires, she made appearances as soloist with every major British orchestra and also performed many times in Russia. She arrived in Adelaide to teach at the Conservatorium in 1964. Since then,



Clemens Leske and Beryl Kimber—fabulous years. Photo: David Ellis.

she has undertaken four concert tours of Australia for the ABC along with tours to Europe, Asia and the US.

In 1977 Beryl Kimber and Clemens Leske were jointly awarded the Australian National Critics Award for outstanding contributions to music.

Both look back fondly to the 50s and early 60s as a "golden age" presided over by John Bishop, the then Director of the Elder Conservatorium: the same man who, in his spare time, organised the first Adelaide Festivals. It was his charisma that not only drew European artists to these first festivals "down-under", but also convinced others like Clemens Leske and Beryl Kimber to come to Adelaide and teach, a success which was mirrored in the high standard of graduates at the time.

They are pleased that the school continues to produce many first-rate musicians who are well prepared for the stages, recording studios, rehearsal rooms and academies of the world. Foremost among their

proteges are Peter Waters, David Stanhope, Renate Turrini, Sally Cooper, Adele Anthony and Carolyn Lamb, to name but a few.

Their only regret is that the nomenclature Elder Conservatorium has been changed. They fear that the school's distinguished century-old reputation will be forgotten along with the name. "Being civilised means being aware of our history," says Beryl Kimber, citing the words of an unlikely oracle, football legend Malcolm Blight.

Clemens Leske and Beryl Kimber consider that their years at "the Con" have been richly rewarding. They offer thanks to the University of Adelaide for allowing them to work with so many talented students and at the same time to continue with their performance careers. They are now considering a move to Sydney to live where Beryl Kimber Kimber has teaching commitments at the Sydney Conservatorium of Music.

—Tony Cox

Norman Davies returns

PROFESSOR NORMAN DAVIES, the author of the controversial and best-selling book, *Europe: A History*, will present a public lecture during his visit to the University of Adelaide's History Department this month.

Professor Davies's lecture, entitled "Priests, Patriots, Poteens in Ireland and Poland in European History", will be in lecture theatre LG29, the lower level of the Napier Building, at 6.30pm on Tuesday, 16 March.

Professor Davies, Professor Emeritus of Polish History, School of Slavonic and East European Studies, University of London, was a guest at Writers' Week during last year's Adelaide Festival of Arts where his monumental history of Europe was the focus.

The public interest in this work should not mask his outstanding career as a historian of Poland. His most famous book on Polish history is the two-volume *God's Playground: A History of Poland*.

ACCOMMODATION

ASCOT PARK: Share house - use of kitchen, own room, close to transport. \$65 pw + phone calls. Ph 8276 1746.

AVAILABLE: 2 br and a walk-through rm (can be 3rd br), air cond, low maintenance garden, carport & shed, close to transport, very close to Nth Adelaide Aquatic Centre. \$145 pw. Ph Martin 0417 861 103.

CUMBERLAND PARK: 3 br house with sunny north-facing family rm, 2 modern bathrooms, cottage garden, close to transport, shops & schools. Avail now. Ph Teresa Sava 8239 0909.

GRANGE: Fully furn, 2 br unit, close to beach, shops & transport, ducted r/c air cond, carport. Avail from Easter for 6 mths or until Xmas. \$130 pw. Ph Tony 8303 5278 or 8344 5566 (ah) or email: <awinefield@psychology.adelaide.edu.au>.

HOLIDAY HOUSE: Second Valley - Peaceful setting, views to sea and hills, architectural design, modern, comfortable. Avail for rent, minimum 2 nights. Ph Dianne 8379 6510.

NORTH ADELAIDE: Furn, historic cottage avail from Apr 99. Suit visiting academic. 2 br, new kitchen, bathroom & laundry, lounge/dine & private garden. Ph 0419 804 440.

WANTED: House or apartment for visiting academic couple from early Apr - end Sept, prefer furn, close to Waite or city. Ph Mike 8303 8433 or email: <Mike.McLaughlin@adl.clw.csiro.au>.

WANTED: 2-3 br house for 1-2 years from Apr 99, inner Eastern, Southern or Northern suburbs pref. Ph 8204 7266 or email: <rcouper@medicine.adelaide.edu.au>.

WEST BEACH: Fully furn, 2

ADELAIDEAN CLASSIFIED

br + study house, close to beach & transport, suit visiting academics. No pets. Ph 8356 9582 or 8201 2377.

FOR SALE

BOOKS: Chemistry, maths & psychology books. From \$15 - \$35. Ph Vicki 8303 3410 or call into the Clubs Association Office.

CAMIRA: 1984, auto, towbar, very clean & reliable, regularly serviced, exc cond throughout. UXR 009. \$1,800. Ph Bujun 8303 7426.

COMPAQ NOTEBOOK: 486 Contura Aero 4/33C, colour, 8 MB RAM, 850 MB HDD, modem, Win 95, Microsoft Office, case. \$580. Ph 8297 1848.

FORD LASER: Ghia hatch 1981, white, 1.5 ltr, new air cond, exc cond. VTU 508.

\$3,000 ono. Ph 8224 0686.

GENERIC COMPUTER MONITOR: 2nd hand, good cond. \$300 ono. Ph 8331 1068 email: <ua978614@student.adelaide.edu.au>.

HOUSE: Clapham - 2-storey house, 7 yrs old, lge study on 1st flr, sliding doors to balcony. 3 br, main with en-suite & spa, evap air cond throughout, open plan living, dble carport, outdoor entertaining, bus to city at door, near shops & schools. \$198,000. Ph Jenny Abbey 0412 492 876 or email: <jabbey@northnet.com.au>.

HOUSE: Stirling - Courtyard, 3 br, 2 bathrms, 4 season garden, craftsman-built, energy efficient, in quiet, secure location, close to transport, schools, shops, amenities. \$189,500. Ph 8339 1809.

MAZDA: 626, 1982, 5 spd, very clean, good cond. UWA 320. \$1,700 ono. Ph 8303 3501 or 8336 9012 (h).

MISC: Cane hanging chair with chain, \$60. Kitchen table, grey, 120cm diameter with 4 matching chairs, \$200. Singer treadle sewing machine and marble-top wash stand with drawer & cupboard, \$250 ea or \$400 the pair. Queen size bed, new mattress & base, wooden legs, \$250. Edwardian chaise longue with Sanderson linen covering (pale green, cream & ochre colours), \$500. Cedar cheval mirror with drawer, \$300. Ph 8227 0557.

PIANO: Grand Kawai KG C1 5', walnut, stool, exc cond \$7,999. Ph Barb 8362 4383.

POOL TABLE: Slate top, ball return, 6.5 ft x 3.5 ft. All accessories incl. \$400. Ph 8204 7452.

RANGEHOOD: With fan & light, exc cond, \$55 ono. Ph Diane 8371 3447.

TENDER

PC: 2 x 486 PCs, AcerView 56L monitors, 466dp drives. Offers in writing by Fri 12 March to J Sando, Human Resources. Ph 8303 5747 or email: <jsando@registry.adelaide.edu.au>.

WANTED

ACADEMIC GOWN: Adelaide Masters gown. Ph Greg Taylor 8303 4448 or email: <gtaylor@law.adelaide.edu.au>.

MISCELLANEOUS

HOUSING PROJECT: The School of Architecture, Landscape Architecture & Urban Design is looking for volunteer clients for the design of an energy-efficient house, a student project in the BArch degree. For further details contact Deborah White 8303 5742 or email: <dwhite@arch.adelaide.edu.au>.

Bulletin Board

MARCH 8, 1999

THE UNIVERSITY OF ADELAIDE

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Cultural Inventions

An Interdepartmental and Interdisciplinary Seminar Series

Cultural Inventions is a new seminar series run by postgraduate students at the University of Adelaide. Its main objective is to provide a forum to discuss the new concepts of culture that have arisen in tandem with the growing interdisciplinary effort across the humanities and social sciences. It seeks to bring together staff and students who are interested in such areas as critical theory, cultural studies, feminism, LGBT studies, postcolonialism and postmodernism.

Seminars will be held at 3.00pm in the Margaret Murray Room of the Union Building on almost every Friday of the semester.

For more information about the series and schedule visit our website at: <<http://www.cultural-interventions.nu>> or contact Leong Yew on 8303 3205 or email: <info@cultural-interventions.nu>.

ADELAIDE LAW SCHOOL - SEMINAR SERIES 1999

Intention in Law & Philosophy

The purpose of the intention seminar series is to foster a dialogue between leading theorists of intention from law and philosophy. All seminars are at 1.00pm in Room 216 of the Adelaide Law School (Ligertwood Building) on Mondays, unless otherwise stated. Enquiries to <nnaffine@law.adelaide.edu.au> or <jwilliams@law.adelaide.edu.au>.

8 March: How decision theory illuminates assignments of responsibility by Prof Frank Jackson (ANU).

24 May: Good legislative intentions by Prof Tom Campbell (ANU)

31 May: Collective responsibility: some thoughts by Prof Philip Pettit (ANU)

7 June: Intention and agency by Prof Grant Gillett (Otago)

9 August: Constitutional intentions: shaking hands with a living force by Dr John Williams (Adelaide)

16 August: Negotiating intentions in criminal law by Mr Ian Leader-Elliott (Adelaide)

23 August: Intentional torts by Prof Peter Cane (ANU)

30 August: Bad faith and bad

intentions by Prof Suzanne Corcoran (Flinders)

6 September: Intention versus reactive fault by Prof John Braithwaite (ANU)

14 September (Tues): Making the best of it: words and intentions by Prof Greg Currie (Flinders)

5 October (Tues): Intention and self-control by Prof Michael Smith (ANU)

11 October: Discrimination, law, intention and the other by Prof Margaret Thornton (La Trobe)

18 October: Tales of intention: storytelling, intention and the rhetoricity of judgement by Prof Sandra Berns (Griffith)

25 October: Public intention by Prof Michael Detmold (Adelaide)

Public Lecture

Professor Raoul Bott (Harvard University) will give a public lecture entitled: *Shape in Mathematics and Physics* at 12.05pm on Thursday 22 April 1999 in the Kerr Grant Lecture Theatre. All welcome.

Further details of this lecture are available at the website: <<http://www.maths.adelaide.edu.au/Pure/vmathai/bott.html>>. Enquiries concerning Professor Bott's visit to Adelaide may be directed to <vmathai@spam.maths.adelaide.edu.au>.

SA Division of the ASMR Workshop

Dendritic Cells: Basic Science Moving into the Clinic? by Professor Derek Hart (Mater Medical Research Institute, University of Queensland). Wednesday 31 March 1999, Verco Theatre, IMVS.

5.00pm Professor Hart
6.00pm Supper and Wine
6.30pm ASMR Political Update

All Welcome

Enquiries: Michael Adams or Lisa Edwards, tel 8303 4568.

MONDAY 8 MARCH

1.00pm Microbiology & Immunology Seminar: Phase variation of virulence factor expression in pathogenic *Neisseria* by Dr Michael Jennings (Microbiology, University of Queensland). Departmental Library, 5th Floor, Medical School South.

1.00pm Law School: Intention in Law & Philosophy Seminar Series - How decision theory illuminates assignments of responsibility by Professor Frank Jackson (ANU). Adelaide Law School, Ligertwood Building.

1.00pm Clinical & Experimental Pharmacology Seminar: Craving for Cocaine by Dr Don Cameron (Centre for Neuroscience, Flinders University). Seminar Room, 6th Floor, Medical School, North Wing.

1.10pm Student Workshop: Developing a lifestyle that reduces stress and worry by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

6.00pm Centre for Intercultural Studies & Multicultural Education Seminar: One perspective of the place of multiculturalism in modelling a national identity by Hon Mark Brindal MP (Minister for Local Government, Employment, Youth / Minister Assisting for Environment and Heritage). Council Room, 7th Floor, Hughes.

WEDNESDAY 10 MARCH

10.10am Electrical & Electronic Engineering Seminar: Equalization and Estimation of Frequency-Selective Fast-Fading Channels by Ms Linda Davis. Room S112, Engineering South.

1.10pm Geology & Geophysics Seminar: Geochemical and Nd Isotope Constraints on Sources of Neoproterozoic Sedimentary R Central-Southern Australia by Dr Karin Barovich. Mawson Lecture Theatre.

COMING EVENTS

March 8th — 19th March

4.00pm Physiology Seminar: Co-transmission and cardiovascular control: rewriting the rules by Associate Professor Judy Morris (Centre for Neuroscience, Flinders University). Room N416-417, Medical School, North Wing. Refreshments served afterwards.

5.30pm Anatomical Sciences Seminar: Health science and public policy by Professor John Last (Emeritus Professor of Epidemiology, University of Ottawa, Canada). Florey Lecture Theatre, Medical School.

THURSDAY 11 MARCH

1.00pm Chemical Pathology Seminar: Eat Well SA: A project promoting healthy eating in South Australia by Ms Trish Carter (SA Food Project Director, WCH). Seminar Room 1, 4th Floor, Rieger Building, WCH.

7.45pm Field Geology Club Lecture: Geology of Yorke Peninsula by Bob Major. Mawson Lecture Theatre, Mawson Laboratories.

FRIDAY 12 MARCH

1.10pm Elder Conservatorium Lunch Hour Concert: David Lockett - piano. Works by Beethoven, Chopin & Margaret Sutherland. Elder Hall. Admission \$2.

3.00pm Cultural Inventions Seminar: Where and what has difference got us? by Professor Chilla Bulbeck (Social Inquiry). Margaret Murray Room, Union Building.

3.30pm Agronomy & Farming Systems Seminar: Agroforestry in Aboriginal land management by Dr

Jocelyn Davies (ESM, Roseworthy). Seminar Room, AFS, Roseworthy.

MONDAY 15 MARCH

1.00pm Microbiology & Immunology Seminar: Genetics of feed efficiency in mice and cattle by Dr Wayne Pitchford (Animal Science). Library, 5th Floor, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: Pharmacodynamic Effects of Laam and Methadone by Mr David Newcombe (PhD student). Seminar Room, 6th Floor, Medical School, North Wing.

1.10pm Student Workshop: Learn deep relaxation by Mark O'Donoghue. Counselling Centre, Ground Floor, Horace Lamb Building.

1.10pm History Seminar: Non-Academic Approaches to British History by Professor Norman Davies (Emeritus Professor of Polish History, School of Slavonic and East European Studies, University of London). Seminar Room 420, 4th Floor, Napier.

4.00pm Applied and Molecular Ecology PhD Seminar: Virtual Ecology by Drew Tyre (Postgrad student). McLeod Lecture Theatre, Waite.

TUESDAY 16 MARCH

12noon Child Health Research Institute Seminar: Transgenic Expression of CD40 Ligand Enhances Th1 Immune Response to Respiratory Syncytial Virus in the Balb/C Mouse by Dr M Brown (Medical Oncology, RAH). Seminar Rm, 7th Flr, Rieger Bldg, WCH.

1.10pm Student Workshop: Overcoming sleep difficulties by Susan

Howard. Counselling Centre, Ground Floor, Horace Lamb Building.

WEDNESDAY 17 MARCH

1.10pm Geology & Geophysics Seminar: Life and Death of Trilobites by Dr Chris Nedin (Geology & Geophysics). Mawson Lecture Theatre.

4.00pm Physiology Seminar: Limb immobilisation modifies neuromuscular performance by Dr John Semmler (Dept of Kinesiology & Applied Physiology, University of Colorado). Room N416-417, Medical School North. Refreshments afterwards.

THURSDAY 18 MARCH

1.00pm Chemical Pathology Seminar: Novel strategies for clinical diagnosis and therapy using engineered antibodies by Professor Peter Hudson (CSIRO Division of Molecular Science, Vic). Seminar Room 1, 4th Floor, Rieger Building, WCH.

FRIDAY 19 MARCH

1.00pm Biochemistry Seminar: Axon Guidance in the *Drosophila* Embryo - from Molecule to Morphology by Associate Professor Paul Whittington (Molecular & Cellular Biology, School of Biological Sciences, University of New England, Armidale). Seminar Room 209, 2nd Floor, Darling Building.

1.10pm Elder Conservatorium Concert: Musica da Camera. Tessa Miller - soprano, Lynton Rivers - recorder, Lesley Lewis - harpsichord. Works by Scarlatti, Telemann & Handel. Elder Hall. Admission \$2

3.30pm Agronomy & Farming Systems Seminar: Analysis of wind-break experimental data by Dr Ari Verbyla (Biometrics SA). Seminar Rm, AFS Roseworthy.

SITUATIONS VACANT

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

PERSONAL ASSISTANT TO EXECUTIVE DEAN (Ref: 2079)

Faculty of Humanities and Social Sciences

Salary: HEO5 \$34,610 - \$38,619

The Personal Assistant to the Executive Dean will provide high level administrative support to the Dean and Faculty Registrar, including coordinating diaries and work programmes, and providing assistance in prioritisation; preparing agendas, non-standard correspondence and reports and taking minutes of ad-hoc meetings; and administering and monitoring Faculty Office finances. The appointee will also provide assistance with the administration of human resource matters.

You should have:

- excellent interpersonal skills and the ability to communicate effectively with staff and students
- high level administrative, clerical and organisational skills
- demonstrated proficiency in the use of desktop computers, and an appropriate range of software applications, including Microsoft Word and Excel
- a sound understanding of the University's administrative policies and procedures
- demonstrated experience in the maintenance of office records
- ability to use initiative in problem solving, and to work without close supervision when required
- ability to work under pressure, to maintain attention to detail, and to consistently meet deadlines
- demonstrated capacity to work as part of a team.

This continuing position is available immediately. Further

information concerning the position including the duty statement and selection criteria may be obtained from the Acting Executive Dean, Professor Andrew Watson, tel: 8303 5186.

***APPLICATIONS** to the Acting Executive Dean, Faculty of Humanities and Social Sciences, University of Adelaide, Australia 5005 by 15 March 1999.

****** 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.

LECTURER A IN ENGLISH AND CREATIVE WRITING (Ref:3943) (Tenurable)

Department of English

Salary: \$33,905 - \$46,013*

The Department currently offers undergraduate subjects in American Literature, Australian Literature, Cultural Studies, English for Professional Purposes, New Literatures in English, Literary Theory, Women's Writing, British and Irish Fiction, Drama and Poetry.

You should have:

- a higher degree in English or a related subject
- the ability to contribute to the teaching of undergraduate subjects and the Graduate coursework program in Creative Writing
- a record of publication including creative writing.

*A minimum of \$42,864 per annum is payable to the holder of a PhD.

The position is available from 1 July 1999. Further information including the selection criteria may be obtained from Dr Philip Butters, Head of Department, tel: 8303 5130, fax: 8303 4341 or email: <pbutters@arts.adelaide.edu.au>.

***APPLICATIONS** to the Acting General Manager, Human Resources, University of Adelaide, Australia 5005, by 24 March 1999.

RESEARCH ASSISTANT (NHMRC)

(Ref: 3955)

Department of Physiology

Salary: \$33,905

To provide research assistance for studies on the cellular and molecular development of the adrenal cortex.

You should have:

- a Bachelor of Science Degree with major in Biological Sciences or equivalent
- laboratory experience in molecular biology techniques
- prior experience or willingness to work with large animals for the collection and preparation of tissue specimens.

The position is available immediately until 31 December 1999 in the first instance.

Further information concerning the position including the selection criteria may be obtained from Dr Catherine Coulter tel: 8303 5342, fax: 8303 3356, or email: <ccoulter@physiol.adelaide.edu.au>.

***APPLICATIONS** to Dr Catherine Coulter, Department of Physiology, University of Adelaide, Australia 5005, by 22 March 1999.

JOURNALIST

(Ref: 3962)

Salary HEO6: \$38,751 - \$41,959

The University of Adelaide requires an experienced journalist to work as part of its media and publications team in the Public Relations and Marketing Office at the North Terrace campus.

Duties of the position include writing for the University's newspaper, the *Adelaidean*, and other University publications, researching and writing media releases, researching and writing other promotional materials, liaising with the media, and providing public relations and media support for special events.

You should have:

- tertiary qualifications and some experience in journalism; or substantial experience in journalism

- demonstrated ability to research and write media stories and to meet deadlines
- experience and demonstrated skills in media liaison
- ability to liaise effectively with university academic and general staff
- excellent organisational and interpersonal skills
- good computer skills and ability to work in both a Macintosh and PC environment.

This continuing position is available immediately.

Further information concerning the position including the selection criteria and duty statement may be obtained from Mr John Edge, Acting Manager, Media and Publications, tel: 8303 4030.

***APPLICATIONS** to Mr J Edge, Public Relations and Marketing, University of Adelaide, Australia 5005, by 15 March 1999.

PROJECT OFFICER

HEIP PROJECT

(Ref: 3991)

Faculty of PALACE

Salary HEO6: \$38,751 - \$41,959

The Faculty seeks an experienced person to provide research leadership and administrative support across a wide range of functions in relation to the Higher Education Innovation Programme (HEIP) Project titled "A Critical Analysis of Alternative Selection Processes in Three Professional Courses in the University of Adelaide: Medicine, Law and Architecture".

Duties include research and administrative support across a wide range of functions, conducting surveys, interviews and statistical analyses and the preparation of reports.

You should have:

- a degree, preferably a higher degree in education or a social science discipline appropriate to the research project
- experience in administering a research project or similar activity
- experience in the supervision of staff
- experience in the preparation and monitoring of budgets
- high level verbal and written communication skills.

This position is available immediately for a period of twelve months. Further details about the position are available from Professor Judith Brine, Executive Dean, Faculty of PALACE, tel: 8303 3986 or email: <jbrine@economics.adelaide.edu.au>. Potential applicants should obtain a project outline, selection criteria and duty statement from Beverley Aikman, tel: 8303 3986.

***APPLICATIONS** should include names and addresses of two referees to the Executive Dean, Faculty of PALACE,

University of Adelaide, Australia 5005, by 22 March 1999.

OFFICE MANAGER

(Ref: 8920)

School of Economics

Salary HEO4: \$30,736 - \$33,808

The School is seeking a dynamic, enthusiastic and well organised person to manage the operations of its "front office". The primary duties involve supervising the staff of the School Office and providing high quality services to students and staff.

You should have excellent interpersonal, oral and written communication skills, demonstrated high-level computer literacy in a PC environment with skills in Word and Excel, excellent organisational and clerical skills and ability to supervise staff and work in a team environment.

This continuing position is available immediately. For further information, including the selection criteria and duty statement please contact Elizabeth Geddes, tel: 8303 4499 or fax: 8223 1460.

***APPLICATIONS** to Mrs E Geddes, School Manager, School of Economics, University of Adelaide, Australia 5005 by 21 March 1999.

ADMINISTRATIVE ASSISTANT

(Ref: 3324)

Centre for European Studies and General Linguistics

Full-time Salary HEO2: \$25,388 - \$26,992**

To provide reception support by responding to, or redirecting enquiries from staff, students and the public as required; and assisting the Departmental Secretary by providing support with general office duties such as typing, photocopying, filing and maintaining stationery supplies.

You should have excellent clerical and administrative skills, excellent interpersonal and written and oral communication skills, ability to work under pressure while maintaining attention to detail, and sound knowledge of desktop computers with an appropriate range of software applications including Microsoft Word and Excel.

******Junior rates apply to those persons 20 years of age and under.

This continuing position is available immediately on a 36 hours per fortnight basis. For further information about the position including the duty statement and selection criteria please tel: Mr David Hester on 8303 5299 or the Departmental Office on 8303 5638.

***APPLICATIONS** to Mr D Hester, Head, Centre for European Studies and General Linguistics, University of Adelaide, Australia 5005, by 15 March 1999.

EMPLOYMENT INFORMATION

***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. Selection criteria and applicable duty statement may be obtained from the contact officer named in the advertisement.

NOTICE TO APPLICANTS: Applicants for all positions should retain the relevant reference number and watch the "Notice to Applicants" column in the *Adelaidean* for advice about the filling of the position.

NOTICE TO APPLICANTS: The University notifies applicants that the following vacancies for Higher Education Officers (HEO) with the

reference numbers as stated have been filled and thanks them for their interest: 9112 HEO5, School of Commerce; 6931 HEO4, and 3736 HEO5/6, Plant Science; 3783 HEO3, Health Sciences; 3843 HEO3, English; 2475 HEO2, School of Law; 2936 HEO3, Clinical Nursing.

HUMAN RESOURCES DEADLINES FOR ADELAIDEAN

For the *Adelaidean* of 5 April, advertising paper work must be to Human Resources by 19 March.

For the *Adelaidean* of 19 April, advertising paper work must be to Human Resources by 1 April.

GENERAL NOTICES

Special Studies Program

Special Studies commencing in the period January - June 2000.

Applications are now invited for Special Studies commencing in the first half of 2000. Application forms may be obtained from Human Resources (ext 35666 or 35177) or via our Human Resources Web Page and should be returned through the Head of the Department not later than 31 March 1999. The supporting statement on page 4 of the application must be completed by the Head of the Department and Heads are reminded that in accordance with Paragraph 2.1.6 of the Special Studies Program Policy they are asked to comment specifically on both the academic justification for the programme and itinerary, and the implications in terms of the teaching, examining and administrative needs of the Department. All applications should be considered by the Departmental Committee before submission.

Under the terms of Paragraph 2.1 of the Policy all applicants will be required to justify the period of Special Studies sought, irrespective of the length of the period involved. Staff members are invited to discuss any questions they have about their eligibility for leave or the operation of Special Studies with Julie Raeck, tel 35177, of Human Resources.

SUE TURNER
Acting General Manager,
Human Resources

Professional & Continuing Education Courses

Courses below are offered through Professional and Continuing Education. Please call 8303 4777 or email <conted@oce.adelaide.edu.au>.

BUSINESS DEVELOPMENT

Strategic Thinking and Planning: Tuesday 23 March (9am - 4.30pm). Cost: \$165

Financial Planning and Budgeting: Tuesday 30 March (9am - 4.30pm). Cost: \$165

LEADERSHIP & MANAGEMENT

Leadership in a Changing Environment: Tuesday 23 February (9am - 4.30pm). Cost: \$165

Effective Leadership Skills for Women: Thursday 11 March (9am - 4.30pm). Cost: \$165

The Manager as Group Leader: Friday 19 March (9am - 4.30pm). Cost: \$165

COMPUTER SKILLS

Microsoft Word - Intermediate: Wednesday 17 March (9am - 4pm). Cost: \$165

Creating and Administering a Small Web Site: Tuesday 30 March (9am - 12.30pm). Cost: \$165

Excel - Advanced: Thursday 25 March (9am - 4pm). Cost: \$165

PROFESSIONAL COMMUNICATION

Dealing with Difficult People: Monday 15 March (9am - 4.30pm). Cost: \$165

Negotiating Effectively - Getting to Yes: Thursday 25 March (9am - 4.30pm). Cost: \$165

PROFESSIONAL AND PERSONAL DEVELOPMENT

Preparing and Presenting Yourself for a Job Interview: Thursday 18 March (9am - 4.30pm). Cost: \$165

Making Professional Presentations: Wednesday 24 & Wednesday 31 March (9am - 12.30pm) (both days). Cost: \$165

Managing Stress: Wednesday 17 March (9am - 4.30pm). Cost: \$165

SUPERVISORY DEVELOPMENT AND ADMINISTRATION

Understanding Finance: Wednesday 10 March (9am - 4.30pm). Cost: \$165

The Effective Administrator: Friday 26 March (9am - 4.30pm). Cost: \$165

New Motor Vehicle Policies

The Purchasing Manager's Office wishes to advise you that new Motor Vehicle Policies and Procedures have been established. A copy of the revised policies can be obtained from the web under Supply Unit/Vehicles on <www.isb.adelaide.edu.au/finance/> .

Departmental vehicles for sale by tender will no longer be advertised in the *Adelaidean*. Details will now be published on The Bulletin Board on cc:Mail. For further information please contact Helli Meinecke ext 36583.

Choir Scholarship

Applications are invited from singing students for the Doris A Davey Scholarship worth \$850 per annum for three years. The successful applicant would be required to become a member of the Choir at Wesley Uniting Church, Kent Town and to attend Sunday morning services between February and December and choir practice on Wednesday evenings. Applications should be forwarded to the: Organist, Wesley Uniting Church, 27 Grenfell Street, Kent Town SA 5067.

For further information phone Mark Symons 8331 9816.

4WD Practical Sessions

Improve your knowledge about our 4WD vehicles and make your field trips safer, more efficient and enjoyable.

Proposed session dates are on Thurs 11 and Fri 12 March 1999. The familiarisation session runs from 8:45am to 1:00pm. A second component to the 4WD practical sessions is available to drivers who require hands on driving experience in a variety of 4WD conditions. The driving starts at 1:30pm and returns to the Adelaide campus around 6:00pm.

The familiarisation session will take place NE of

the Benham building adjacent gate 8, Victoria Drive. Topics covered include, field trip safety, field trip planning, 4WD techniques, vehicle recovery, jump starting, tyres and wheel changing, comparison between vehicles, communications and equipment demonstration. Summary notes and morning refreshments are provided along with the session.

To book a place telephone David Ladd on 8303 4558, or email: <dladd@botany.adelaide.edu.au>. Additional information is available on: <http://www.science.adelaide.edu.au/botany>.

"Fresh Science"

ScienceNOW! is seeking nominations for: "Fresh science 99" to be delivered daily at ScienceNOW! Nominations close on 25 March 1999.

We want to identify the most exciting, unpublicised research for presentation as "Fresh Science" at ScienceNOW! - the national science forum.

Now in its second year, ScienceNOW! is a series of lectures, workshops and other events held in National Science Week to bring together scientists, the media, and the public. It is designed to:

- enhance reporting of Australian science;
- highlight and encourage debate on the role of science in Australian society;
- provide role models for the next generation of Australian scientists.

ScienceNOW! 99 will be held at the Melbourne Exhibition Centre with the Great Australian Science Show (GASS) between 6 and 9 May. It is sponsored by the Victorian and Federal governments and backed by Australia's leading science organisations.

"Fresh Science" forms the core of ScienceNOW!

Sixteen young researchers present their work to the public.

In 1998 our "Fresh Scientists" attracted national and international interest which resulted in more than 150 media stories including several appearances on ABC and commercial TV news.

Details of the 1998 winners, their press releases, and their media coverage are available on the ScienceNOW! website.

The closing date for this year's nominations is 25 March 1999.

Full details including selection criteria and nomination forms are on our website at <http://www.asnevents.net.au/sciencenow> and mirrored at <http://www.byc.com.au/sciencenow>.

Details: Niall Byrne on 03 5253 1391, fax (02) 9475 0754, email: <niall@byc.com.au> or Tim Thwaites (03) 9383 2695, email: <timt@werple.net.au>.

Business Enterprise Program 1999

Focusing on new enterprise creation and management, entrepreneurship and innovation.

Programs designed at professional and graduate level

Our Business Enterprise Seminars commence mid-March. Suitable for the new business starter and for anyone with an interest in learning more about issues relevant to managing a business. Students, graduates and staff most welcome. First seminar 17 March.

Topics will include financial & legal issues, setting up systems, business planning. A workshop about being self-employed will be held on 20 May. Concession fees available.

Contact Clare, tel: 8303 3098, fax: 8303 4844, email: <ccoster@il.adelaide.edu.au> for details/registration. The University of Adelaide Enterprise Education Group, Thebarton Campus, 35-37 Stirling Street, Thebarton SA 5031.

In the business of Innovating Futures

LUMINIS NEWS

The Value of Patent Protection

Had Stanford University and the University of California not patented the gene-splicing work of Cohen and Boyer, royalties of US\$232 million over a sixteen year period would never have flowed back to the universities. While this is an outstanding example of the value of patents, and undoubtedly resulted from a ground breaking invention, it still remains that the industrial firms look to universities to access basic, speculative research. As such it is the university's and researcher's interests to protect the intellectual property generated. There has certainly been a thrust by universities across the United States of America, where Federal funding for research is on the decline, to protect the intellectual property generated from within the universities. The University of California Office of Technology Transfer's top five royalty generating inventions, generated more than US\$49 million in 1997. Although ground breaking inventions are rare, companies are often in a position to spend money to develop an invention or to incorporate it into existing technologies. However, before companies are willing to invest the money required to commercialise basic research, they require assurances that their competitors won't have access to their invention. Patent protection provides those assurances.

There is little chance of gaining valid patent rights if the results of research have first been published. Merely delaying submission of a journal article by as little as a week can provide time for a patent application to be filed in Australia. The work can then be published at any time after the patent filing date. Further, the Australian patent system allows for a Provisional Patent application to be filed which provides a relatively low cost interim patent protection which effectively sets a filing date but allows up to one year in which further development of the invention can take place. A provisional patent application can then be used as a springboard for Patent applications in as many as 130 countries.

The Rights held by the owner of a granted patent include the right to prevent other parties from making or using the invention and the patentee also has the right to licence or assign the patent. For this reason it is clear that industrial companies will be more attracted to research that has patent protection. The University's commercial arm, Luminis, plays a central role in working with researchers, identifying potential commercial partners and putting in place the steps required to protect and commercialise an invention.

PAUL WYK
APT Patent and Trademark Attorneys

Australian Research Council / DETYA

Research Infrastructure (Equipment and Facilities) Program - 2000 Grants: The main objective of this program is to fund relatively large scale initiatives (in excess of \$100,000) to develop research infrastructure on a cooperative basis across groups of institutions or the higher education system as a whole, or with organisations outside the system. Approximately \$19.6 million will be available through the program in 2000. Funding is for one year only.

The application form and guidelines, and a report on the allocation of grants for 1998, are available from the Research Branch web site at: <<http://www.adelaide.edu.au/RB/formlist.html>>.

It is expected that final applications will be due in the Research Branch by Friday, 28 May 1999.

If you are considering submitting an application please notify Vada Osborn in the Research Branch of your interest as soon as possible (ext 35137).

ARE YOU REGISTERED?

- to automatically receive regular updates about research funding opportunities in your areas of interest
- so that details of your interests and expertise are available to potential sponsors, collaborators or industry partners

If not, contact Rod Jewell in the Research Branch on ext 33340 for information about how you can register on the SMARTS/GENIUS system, or access the web site at: <http://australia.infoed.org/wConnect/wc.dll?Office~officemenu_h>.

Research Branch: Update

New Web Site

The Research Branch now has a new, more comprehensive Web Site which contains a wide variety of information on research funding opportunities, policies, references and support services and numerous links to other helpful internal and external sites. You are invited to tour the site on: <http://www.adelaide.edu.au/RB/>.

Australian Research Council (ARC) grants for 2000

International Researcher Exchange (IREX)

Scheme: The objectives of this scheme are to build strong ongoing collaborations between research groupings or centres of excellence in Australia and overseas, involving exchange of researchers at both senior and junior levels; to strengthen international research experience for junior researchers at both postdoctoral and postgraduate levels; and to enhance existing, and develop new, collaborations among senior researchers.

Applications for funding in 2000 will close with the Research Branch on Wednesday 7 April. Applications and guidelines are

available from the Research Branch web site. An Information Session to be conducted by Professor Russell Baudinette (a member of the ARC committee responsible for the scheme) will be held in mid-March. Details of date/time and venue will be advertised in the *Adelaidean* and in the "What's New" page on the Research Branch web site.

Strategic Partnerships with Industry-Research and Training (SPIRT) Scheme:

This scheme is designed to encourage and develop long-term strategic alliances between higher education institutions and industry, to provide industry-oriented research training for postgraduate research students and to foster opportunities for postdoctoral researchers to pursue internationally competitive research in collaboration with industry. University of Adelaide applicants have had considerable success in securing grants through this scheme in recent years.

Application forms and guidelines for funding in 2000 are now available from the Research Branch web site. Applications are expected to close with the Research Branch on Tuesday 27 April. Further information is available from Vada Osborn (ext 33387).

RESEARCH AND SCHOLARSHIPS AND OTHER FUNDING SCHEMES

Research Grants & Fellowships

The following is a list of grant, fellowship and other research funding schemes currently available for application. A detailed electronic version of this listing (Update: Research), together with guidelines and application forms for some of the major schemes, are available at: <<http://www.adelaide.edu.au/RB/>>. Hard copy application forms and guidelines for any of the funding schemes listed below, contact the Research Branch, ext 35137; email <research@registry.adelaide.edu.au> or cmail RESEARCH, Branch.

Sponsored Programs Information Network (SPIN): SPIN Australia - A database containing current and comprehensive information on over 2,600 government and private funding opportunities. SPIN web site: <http://australia.infoed.org/spin_start.html>. Select 'Access Spin WWW' and then select 'Spin Australia'.

Industry, Science & Resources; Dept of (DISR) - Technology Diffusion Program (TDP): This Program has three integrated components: Technology Alliances; Technology Transfer; and Online Business. Further information about the TDP is available from the AusIndustry web site: <<http://www.ausindustry.gov.au/tdp>>. U19/98

Australian Army - Army History Research Grants Scheme 1999-2000: Internal closing date: 12 March 1999. U3/99

Department of Industry, Science & Resources: Industrial Research Alliance Program (IRAP) within the Technology Diffusion Program (TDP): Internal closing date: 12 March 1999. U3/99. Web site: <<http://www.ausindustry.gov.au/tdp>>.

Forest Hill Early Childhood Foundation: Grants for Innovative Programs in the Field of Early Childhood Development: Internal closing date: 12 March 1999. U4/99

Perpetual Trustees - Grants: Internal closing dates: 17 March and 16 September 1999. Applications will be accepted at any time within these periods. U20/98

Health & Aged Care; Comm. Dept. of - General Practice Evaluation Program Research Grants: Request for Applications for 1999 (Project Grants & Seeding Grants): Internal closing date: 19 March 1999. U3/99

AIDS Trust of Australia - 1999 Grants: Internal closing date: 24 March 1999. U4/99

Grains Research & Development Corporation - Travel/Conference Attendance 1999-2000: Internal closing dates: 24 March 1999 (for the 6 months July 1999 to December 1999); and 23 September 1999 (for the 6 months January 2000 to June 2000). U13/98. Web site: <<http://www.grdc.com.au>>.

Dairy Research & Development Corp: General Training and Development (Study tours, attendance at conferences, seminars, workshops, short courses). Internal closing date: 24 March 1999. U18/98. Web site: <www.drdc.com.au>.

Grains Research & Development Corporation - Conference Support 1999-2000: Internal closing dates: 24 March and 23 September 1999. U3/99. Web site: <<http://www.grdc.com.au/info-paper/grinfo.htm>>.

AW Howard Memorial Trust Inc. - Travel Grants 1999-2000: Internal closing date: 24 March 1999. U3/99

National Facility Steering Committee - Oceanographic Research Vessel Franklin: Call Expressions of Interest for use of Franklin in 2001 & beyond: Internal closing date: 24 March 1999 U18/98. Web site: <<http://www.marine.csiro.au/Franklin/>>.

Prostate Cancer Foundation of Australia - Travel Grants: Internal closing date: On or before 25 March 1999 (for travel between 1 July and 31 December 1999). U13/98

Sea World Research and Rescue Foundation - Research Projects in Marine Biology: Internal closing date: 25 March 1999. U3/99

Australian Biological Resources Study (ABRS) - Participatory Program Research Grant Scheme for 2000:

Internal closing date: 1 April 1999. U4/99

University of California at Berkeley - Beatrice M. Bain Research Group on Gender: Affiliated Scholars Program - Call for Applications 1999-2000:

Internal closing date: 1 April 1999. U2/99

Australian Research Council - International Researcher Exchange (IREX) Scheme for 2000: Internal closing date: 7 April 1999. U4/99

Sylvia & Charles Viertel Charitable Foundation - 1999-2000 Senior Medical Research Fellowships and Establishment Grants for Viertel Clinical Investigations: Internal closing date: Friday, 23 April 1999

Ian Potter Foundation and Ian Potter Cultural Trust - Grants: Internal closing dates: 26 April, 26 July & 25 October 1999. U2/99

Australian Research Council - Strategic Partnerships with Industry-Research and Training (SPIRT) Scheme: Internal closing date: 27 April 1999. U4/99

Scholarships

Unless otherwise stated, further information and application forms for the following scholarships are available from the Registrar, Scholarships, or the Scholarships Officer, Graduate Studies and Scholarships Branch, Level 7, Wills Building, ext 35697/33044. Please lodge all applications with the Scholarships Office unless otherwise stated.

Cambridge Australia Trust: An information sheet regarding Packer and Poynton Scholarships for study at Cambridge in 1999, is currently available. Admission and scholarship forms available from The Secretary, Board of Graduate Studies, 4 Mill Lane, Cambridge, CB2 1RZ. Closing: Scholarship: 30 April (Cambridge)

Greek Government Scholarships: Tenable for up to 6 or 12 months to conduct research or studies in the Fine Arts in Greece. Closing: 1 April (Canberra)

Italian Government Scholarships 99/2000: Available for single subject courses (8 months), Postgraduate advanced studies in any area (excluding medicine) (12 months), Research (excluding medicine), Courses of Italian language and culture (2-8 months). The award provides a monthly living allowance plus other allowances, does not include airfare. Details from the Italian Embassy, 12 Grey Street, Deakin ACT 2600, tel: (02) 6273 3333, fax: (02) 6273 4223. Closing: 1 April

Multiple Sclerosis Australia - Postgraduate Research and Summer Vacation Scholarships: Postgraduate scholarships open to registered medical graduates or appropriately qualified science graduates or health professionals. Vacation scholarships intended for currently enrolled undergraduates completing three or four years of a full-time course leading to an honours degree in medicine, health science or science. Applications for vacation scholarships may be sent directly to the funding body by 31 August 1999. Closing: 23 August- Postgraduate Scholarships (Scholarships)

Ranson Mortlock Scholarship: Open to full-time Adelaide University honours students undertaking a research project relevant to soil erosion and regeneration of pastures and pastoral lands. Value: \$3,500. Details from Alister Richards, Faculty Registrar, ANRS, ext 37360 or Anne Witt, Undergraduate Scholarships Officer ext 35271. Closing: 12 March (Scholarships)

RSPCA - Alan White Scholarship for Animal Welfare: Value: \$2,500. Students of all subjects are eligible, but it is likely to be of most interests to students in subject areas such as: agriculture & agricultural science, animal husbandry, animal production, animal science, behavioural science, biology and biological sciences, ecology, environmental science, environmental studies, farm management, farm production, psychology, veterinary science, zoology. Closing: 31 March 1999 (ACT)