

ADELAIDEAN

Vol 7 No 16

NEWS FROM THE UNIVERSITY OF ADELAIDE

SEPTEMBER 14, 1998

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CRC coal research offers cleaner power future

AFTER JUST five years of operation a Cooperative Research Centre involving the University of Adelaide, Optima Energy and several other partners in Victoria has developed new technology to convert low-rank coal into electricity with dramatically increased efficiency and far less pollution. It is also cost-competitive with gas.

"The improvement we are talking about with our new technology is a new concept of how to burn coal," says Professor John Agnew, Head of the University of Adelaide's Division of Engineering and Mathematical Sciences and Dean of Engineering.

"You don't build power stations every day, so when you do there must be a substantial improvement. The improvement we are making here is like going from a 1950s Holden to a modern BMW."

Under current methods, burning low rank coal is less than 30% efficient. The CRC's technology is about 44% efficient, which means far less carbon dioxide is released into the atmosphere.

The CRC looks secure in continuing its work after its recent fifth year international review. The preliminary report is glowing in its appraisal of the CRC's achievements and the vital

role their research has to the country's present and future needs and economic vitality. The report also commends the high quality of work and impressive sense of purpose found in the students.

"We have a pilot plant for a related technology running at Osborne," Professor Agnew says. "We're now in the process of refining the technology and working towards raising the capital to build a bigger and more improved pilot plant."

Thirty per cent of Australia's power is generated from low-rank coal, mostly in Victoria. The CRC for New Technologies for Power Generation from Low Rank Coal is the only group researching technology to better use this low grade energy source—which is good news for South Australia.

The State does not have high-rank or black coal but an abundance of low-rank or brown coal. This coal contains high levels of sulphur, sodium, chlorine and ash as well as having a very high moisture content, which makes it difficult to use with existing technology.

"We're interested in being able to use South Australian coal because we believe the State should not rely totally on gas as its one source of energy," Professor Agnew says. "It's

fine to use gas now but it is limited in its supply.

"But we have an enormous amount of low-rank coal lying around in South Australia. We want to develop the technology that can take that coal, which is right at our doorstep and is owned by the State Government, and provide clean, cheap power for the State for the next 100 years.

"While coal is more difficult to handle, and it is going to cost more to build a plant, the actual cost of the energy in the coal is much cheaper than gas. When you add the two together, electricity from coal ends up costing about the same as from gas."

The CRC has established links with a number of nations which have large deposits of low-rank coal, including in South-East Asia, Indonesia, Thailand and China.

The CRC's technology, which would be invaluable to these countries in providing cheap power with low environmental impact, is expected to be commercialised within 10 years.

The CRC's new technology is called Advanced Pressurised Fluid Bed Combustion. Unlike conventional pulverised coal fired power stations, the new technology is very clean.

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Osborne Circulating Fluid Bed Combustion Pilot Plant. Photo courtesy of Professor John Agnew.



The laying of the Elder Hall Foundation Stone 100 years ago.

Centenary week almost here

A MAGNIFICENT week of music, entertainment and education from 25 September to 3 October will be the culmination of celebrations for the Centenary of the Elder Conservatorium.

Festivities begin with the Celebration of Foundation Day on Friday 25 September on the

Goodman Crescent Lawns from 2.15pm to 5pm. The event, which will include the slicing of the 100th birthday cake by MC Keith Conlon, honours Sir Thomas Elder, whose bequest led to the foundation of the Elder Conservatorium.

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Tantric arts and Tibetan history

BONYTHON HALL will soon be transformed into a Tibetan Buddhist gonpa for a ten-day display of tantric arts by the monks of Gyuto Monastery and a unique exhibition of Tibetan architecture and cultural history.

The Vice-Chancellor, Professor Mary O'Kane, will open the Tibetan architecture exhibition, 'Constructions of Impermanence', on the evening of Thursday, 17 September, following a traditional blessing ceremony at 6pm at which the first coloured sands of a sand mandala will be poured.

During their visit the Gyuto monks, who last appeared at Bonython Hall in 1995, will create the sand mandala of the tantric deity Yamantaka and conduct various classes, including by the recognised reincarnation of a Buddhist master, and a chanting performance.

The exhibition, curated by Lucy Kennedy, a postgraduate student in the University's Centre for Asian and Middle Eastern Architecture, features nearly 200 historical photographs of Tibet and Tibetan culture and architecture, as well as architectural sketches and drawings.

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Sketch of a buddhist temple: courtesy of Lucy Kennedy.



Good tales in hard times

One of the wonderful aspects of my job as Vice-Chancellor of a university such as Adelaide is that despite the difficult times there are still good stories to tell. In fact, I am constantly amazed at this University's good news—about student achievements, new discoveries, inventions by staff, or new examples of the University working with its community in some innovative way.

One such story concerns DEETYA's recent publication of a study by Paul Bourke and Linda Butler of research performance measures for all Australian universities. These statistics are presented in terms of absolute performance, and their release attracted significant media attention. As one would expect, the University of Adelaide "scored" in the top eight in all categories and achieved a higher ranking in some categories.

But as we all know, Australian universities are different sizes. Our research statistician, Rod Jewell from the Research Branch, has analysed the Bourke and Butler statistics and adjusted them for size, i.e. divided the "raw" data by the number of staff at Lecturer B and above. When we look at these new figures we discover Adelaide is at the top of the list in all categories (Australian Postgraduate Awards [APAs], weighted Research Quantum [RQ] funding data, weighted RQ publications data, publications in journals indexed by the Institute for Scientific Information [ISI], citations in ISI-indexed journals) except for 1995 research expenditure, in which we are "pipped" by the University of Melbourne. What is most interesting—and pleasing—is that Adelaide's results are particularly good in the measures of research quality and also of research impact, in particular the number of ISI publications and ISI citations.

It is always heartening to see one's friends doing well and so it was also pleasing to note that our sister University, Flinders, did well in the size-adjusted ratings. Flinders ranks 7th in ISI publications and 6th in ISI citations, well up amongst the Group of Eight.

Of course these results are very good news but not really a great surprise. What we must do now is ensure that the right people hear the good news and understand that the University of Adelaide and other high performers are very good value for money. It is important that those who are looking to invest in research and development and looking for excellent research training provision know how good we are. So one of the challenges for me and for the whole University is to make sure we tell these tales as effectively as possible and turn our good news stories into funding streams for the University. In these tough times it is not enough that we have a good story to tell, we must use it in the struggle to secure our funding base and our future.

MARY O'KANE

Reflections on a visit to Canada

During the week of 17 August I had the privilege, together with the Vice-Chancellor, of attending the Commonwealth Universities Conference in Ottawa. The Vice-Chancellor has already reported (*Adelaidean*, 31 August) on her significant contribution to the session on Technology and Leadership. The University community may well be wondering why, at a time of constraints on funding, it was appropriate for their Chancellor to also attend.

As it turned out, it gave me the opportunity to attend and participate in an historic meeting of Australian Chancellors, of whom there were some nineteen attending the Conference. It was historic in the sense that it was the first time ever that there had been a national

meeting of Chancellors. The meeting addressed a number of issues of common interest, including University governance and the responsibility and role of Council Members. Time constraints meant that many issues remained to be discussed. It was unanimously agreed that we should all meet again in Australia and that such meetings should henceforth be on a regular basis. I found the contacts made to be particularly useful, and it was interesting to discover how many issues were of concern to all of us.

One of the more interesting Conference Sessions discussed University Management. There was general agreement that in these times of great change affecting Universities throughout the Commonwealth, the matter of Senior Management selection demands particular attention. The complexities of current University operations mean that excellence in academic achievement and success

in particular faculties is no longer necessarily sufficient background for senior management and that much more attention needs to be given to the training and mentoring of potential managers.

A visitor to Canada can not help but be aware of the interest and pride that Canadians feel regarding their indigenous Indian culture and of the proud and lively bearing of Canadians of Indian descent. The formal Conference Dinner was held in the spectacular Great Hall of the impressive Museum of Civilisation in Ottawa. The exciting entertainment was provided by traditional Indian dancers and drummers. Perhaps the planned Australian Aboriginal Cultures Gallery, forming part of the present major reconstruction of the South Australian Museum, will one day be a suitable venue for such an international gathering.

Bruce Webb AM
Chancellor

COMMENTARY

THE HUMANE SCIENCES IN THE UNIVERSITY

The arts disciplines are humane disciplines, concerned with the place of humans in the world. They are also sciences, defined as the rigorous development of knowledge in their fields. I mean knowledge (scientia) as opposed to ignorance, prejudice, illusion, theology, etc. For this pair of facts, and for the further fact that humans are nothing outside a social context, I think there is not much to be said for the distinction between the humanities and the social sciences, and in this paper call them all humane sciences.

Their focus being on humans in the world (knowledge is always of the world), these sciences now try to connect themselves to human practice in two ways. First, issues do not present now as purely theoretical; so, for example, moral philosophy thinks not so much about the good and the right abstractly conceived but of the moral solution of actual practical problems. And second, these disciplines now strive for vocational relevance.

The vocational disciplines in the University of Adelaide which I deal with below are all also humane sciences in both aspects of the concept. To take one of my examples, commerce; being concerned with a fundamental human activity, it is of no less humane conception than any of the others; and is also a science, concerned with the rigorous development of knowledge (as opposed to ignorance, prejudice, etc.).

The University of Adelaide squibbed the problem of the reorganisation of the humane sciences in 1995 when on the creation of the divisional structure it failed fundamentally to rethink the Arts division (apart from a name-change, and a couple of odd movements here and there). The first four divisions had entirely obvious places in the new scheme of things at Adelaide—it was always going to be the fifth that needed an imaginative solution. To squib that problem (as we did) was bad enough for the fifth division—we failed to deal with what is overwhelmingly the major problem of University education at this time, a problem I can express by asking, what will our world be like when there is literally no-one alive who can read Plato?—but for the sixth division it was worse, for there was nothing left for it to be but a collection of leftovers (and an acronym—not even a slightly honourable name-change, as Arts got).

There are many who think that the sixth division must be reconsidered. I would like to suggest that this makes no sense except in conjunction with a

by
Michael Detmold
Dean of Law

reconsideration of the fifth; and I offer, for consideration in the University, the following scheme of amalgamation of the divisions.

On the humane side at the University of Adelaide there should be six or seven double degrees which take five years (this might be varied a little; and of course single degree graduates would be fitted in a little differently, as they are now in Law):

- (1) Architecture (BA, B Arch)
- (2) Commerce (BA, BC)
- (3) Creative Arts (BA, BCA, or BM if music is the specialty)
- (4) Government (BA, BG)
- (5) International Practice (BA, BInt P)
- (6) Law (BA, LLB).

I add two comments to this list. There should be a seventh vocational degree, Education, regarded as first in importance; but I say nothing more about the state of Education as a discipline in this country. Second, the vocational discipline International Practice is one we shall have to invent sooner or later. It could perhaps be combined in some way with Government, which it should eventually replace.

There would be a common first year in which students took four subjects: (a) Economics; (b) History and Geography; (c) Language, Languages and Literature (including media); (d) Philosophy. There would be no choice about these but a certain amount of choice within them (eg, which language to pursue in (c)). Students would after this first year have two choices to make; first, which vocational degree to move into, and, second, which of the first year subjects they wished to major in. Beyond the common first-year, they would spend about 3.2 years on their vocational degree and about .8 on their chosen major (these proportions could vary somewhat—my model is the law/arts degree; further, I say nothing about honours, which would be in the major or the vocational discipline, and perhaps both, and would add a year). For those students who want two vocational qualifications (eg law and commerce) it should be possible to do both in seven years.

My scheme is, as I say, modelled somewhat on the law double degree. A popular combination there is the five year law and commerce degree. My scheme precludes this as lacking a humane foundation.

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ADELAIDEAN

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The newspaper of The University of Adelaide

Adelaide Science Online blasts off

THE FACULTY OF SCIENCE at the University of Adelaide has launched a major online teaching resource for staff and students.

Known as Adelaide Science Online (ASO), the system allows university researchers and lecturers to make use of the World Wide Web to enhance teaching and learning.

Thanks to the technology behind the online resource, staff are able to produce electronic teaching aids which students can access either at university or from their home computers.

ASO utilises IBM/Lotus Notes software. The good news for staff is that they do not need to understand the complex language of the internet, html, to create online teaching resources. ASO does all the hard work for them.

Members of the public interested in learning more about Science at the University of Adelaide can also access the site.

Features of ASO include:

- online lectures, tutorials, teaching aids and other course information
- a database of important notices for staff and students
- career information and enrolment advice for prospective students
- a database of research output by Faculty of Science staff.

"It's more than just another World Wide Web site, it's a major step forward for teaching and learning," said the manager of ASO, Mr Ian Roberts.

"ASO gives students and staff access to resources at any time of the day or night and from anywhere in the world. Students no longer risk getting lost in the virtual anarchy of the World Wide Web," he said.



Adelaide Science Online Manager Ian Roberts addresses guests at the launching on 28 August. Photo: David Ellis.

At the recent launch of ASO, Dean of Science Dr Alastair Blake acknowledged the hard work and planning that had gone into the resource, which was begun under the former Dean of Science, Professor Caroline McMillen.

"The launch of Adelaide Science Online marks the culmination of a long planning phase and the start of a period when the World Wide Web will truly serve the needs of our students, teachers and researchers," Dr Blake said.

Also launched with ASO was Mycology Online, a major resource on the internet for information about human fungal infections.

Mycology Online contains descriptions of all known diseases and causative organisms, ranging from tinea, thrush and dandruff to more life-threatening infections such as cryptococcal meningitis.

The site is the result of a joint project between the Mycology Unit at Adelaide's Women's & Children's Hospital, the Department of Microbiology & Immunology at the University of Adelaide and ASO.

Adelaide Science Online can be found at: <<http://sciweb.science.adelaide.edu.au>>.

Mycology Online is at: <<http://www.mycology.adelaide.edu.au>>.

Tantric arts

From Page 1

The photographs, taken from 1904 to 1936, were collected from the Library of Tibetan Works and Archives in Dharamsala, India, the Pitt Rivers Museum at Oxford University, the British Library in London and the Royal Geographic Society in London.

Photo taken in contemporary times will show how Tibet has changed since the Chinese occupation, which began in 1949.

"The opportunity to view these images alongside the unfolding process of constructing the sand mandala is a wonderful example of the continuity of tradition," said Ms Kennedy, a 1995 graduate of the University's Architectural program, who spent the past two years doing research and documentation work in Dharamsala.

"'Culture' is not an isolated, objectified or static thing but the result of people's interactions and motivations. Photographs on their own can be beautiful, informative and interesting, but side by side with the monks' tour, they can be viewed as part of a much greater whole."

The exhibition, which will travel to the Victorian Art Centre in Melbourne in October after its Adelaide debut, is sponsored by the Overseas Service Bureau, the Department of Architecture and CAMEA.

— Pamela Lyon



CAMTECH CEO Bruce Linn (above left) presents the Vice-Chancellor, Professor Mary O'Kane, with a cheque for \$1 million dollars, watched by Mr Peter Walker, Chairman of Camtech, and Professor Chris Barter.

The money was repayment of a loan made by the University to Camtech in 1996 to set it on course to become a commercial success in the IT industry.

The loan was repaid four years early—a measure of Camtech's success. This year it sold its Internet access business to

OzEmail, in order to concentrate on its core businesses of campus computers, internet consulting and training and electronic commerce product development.

Camtech has just opened an office in Malaysia and will be establishing a subsidiary company there in association with Universiti Putra Malaysia.

It also recently expanded in Western Australia, adding the Edith Cowan University campus computer operation to its business.

NEWS IN BRIEF

MINTZ WITH MATTO

Award-winning anthropologist Sidney Mintz will visit the University as a Distinguished Visiting Scholar this month. His visit is jointly sponsored by the Departments of History, Anthropology, and Politics and the Research Centre for the History of Food and Drink.

The author of *Sweetness and Power* and *Tasting Food, Tasting Freedom*, Professor Mintz will give two seminars and one lecture while in Adelaide and be available to consult with staff and students. His lecture, on Wednesday, 23 September at 2:10pm in Napier LG29, is entitled "The animal that cooks".

Immediately following the lecture Rosa Matto will cater afternoon coffee. Rosa's catering is an encore performance that follows her highly acclaimed morning and afternoon coffees at the Research Centre's First International Conference earlier this year.

The cost for the lecture and the coffee will be \$10. For catering purposes please send your payment to Dr Lynn Martin in the Department of History by 21 September. For further information about Professor Mintz's visit, contact Dr Roger Knight in the Department of History.

SCATTERLINGS OF EMPIRE

The University of Adelaide's Centre for British Studies and the Humanities Research Centre at the Australian National University will present a conference on the changing presence and cultural identities of English, Welsh, Scots and Cornish migrants to Australia over the past two centuries.

Convened by Adelaide's Professor Wilfrid Prest and Dr Graham Tulloch from Flinders, "Scatterlings of Empire" takes place from 24-26 September in the Art Gallery of South Australia.

Included in the program is a public lecture to be presented by Alan Atkinson from the Department of History, University of New England, on Thursday 24 September at 7.30pm in Theatre 102, Napier Building.

The lecture is entitled, "Are We There Yet?: Distance and the Migrant Imagination". The first volume of Alan Atkinson's *History of the Europeans in Australia* won the NSW Premier's Non-fiction Prize in 1997.

For further details tel. 8303 5605 (email <wrprest@arts.adelaide.edu.au>).

DRYWET MODEL WORKSHOPPED

A day-long workshop in the Zoology Department on 30 September will review a provisional model developed for a major project in the National Wetlands R&D Program.

The project is being undertaken by the CRC for Freshwater Ecology at the University of Adelaide and the Department of Geomatics at Melbourne University.

Led by Mr Jim Puckridge from Zoology, the project combines a unique five-year biological database from the Coongie Lakes wetlands on the lower Cooper Creek, with hydrological and remote sensing data.

The aim is to produce a model to help assess ecological impacts of potential water diversions in Cooper Creek and other arid zone rivers.

The workshop will bring together a broad range of stakeholders involved in the management of water resources in the arid zone.

GETTING IN STEPPE: Central Asian economies a rough experiment

AS HAS become obvious in country after country over the past decade, transition from a centrally planned to a market economy is a pretty rough ride.

In the business of creating new economies that can effectively operate as market economies a fundamental question remains: What role should government play? To what extent should government intervene?

Professor Richard Pomfret, Head of the School of Economics, says the paths taken by the handful of former Soviet republics in Central Asia are providing real-life test cases for economists' hypotheses about the relative benefits of different approaches to economic reform.

The Central Asian republics—Kazakhstan, Uzbekistan, Turkmenistan, Tajikistan and the Kyrgyz Republic—present "the closest we'll ever get in economics to an actual experiment at a national level," said Professor Pomfret, whose book *The Economies of Central Asia* (Princeton University Press) is the leading text on the subject.

"You can see the effects of policy choices that governments make—although it's much more comfortable to do that from the outside than it is to be on the inside of an experiment."

Indications are so far that contemporary economic wisdom may not be totally correct, Professor Pomfret said. Rapid structural reform favouring a freer market does not necessarily bring about the best economic result, and from a social standpoint it can be disastrous.

In 1991, at the time of the collapse of the Soviet Union, officially there was no poverty in the Central Asian republics, Professor Pomfret said. Most basic needs were met by the state.

By 1996, according to a survey of 10,000 individuals in the Kyrgyz Republic—which has taken a more free market approach to reform—69% were living below the poverty line. Life expectancy for men is declining (although it's increasing for women), and more children are subject to stunting and wasting.

As it has in every country in the former Soviet Union, production has fallen due to disruption of production links and the collapse of former central planning mechanisms. Substantial income transfers from Moscow to national treasuries are now gone.

Average income levels have fallen by a third, so the poor are worse off, there are more of them and there are inadequate or no social safety nets, Professor Pomfret said.

"The main response at the family level is self-sufficiency, so there has been a movement back to the land and women have moved back into unpaid household activities," he said.

In July the United Nations held a conference in Almaty, Kazakhstan, to discuss policies for "reversing [this] cataclysmic trend" and reducing poverty in the region by 2010. Professor Pomfret, who was seconded to the UN in 1993 to advise the newly created Central Asian republics, was the keynote speaker.

He will also be a keynote speaker at a World Wildlife Fund conference this month

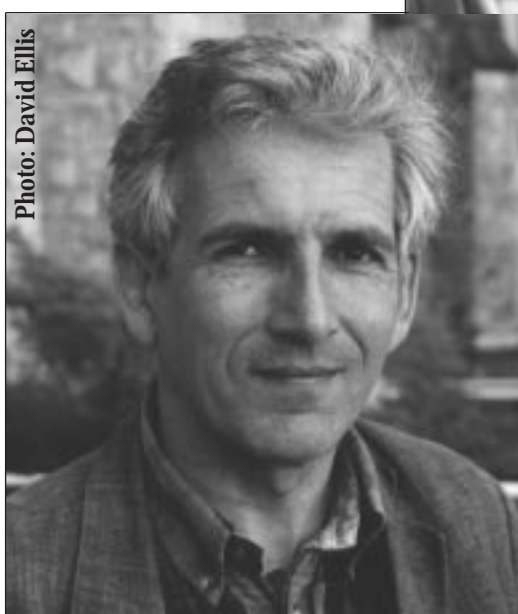


Photo: David Ellis

on sustainable development in Central Asia.

"There are problems," Professor Pomfret said, "but there are also opportunities to write new policies.

"The leadership in some countries are genuinely concerned with improving the conditions of the people, while the leadership in others are just looking after their own wealth. In Turkmenistan the president lives in a French-designed, imported marble villa."

In Uzbekistan the government has tried to control reform. "They've had success in limiting poverty," Professor Pomfret said, "but the economy is less dynamic." The question is, would more dynamism provide more affluence in the long term?

Kazakhstan, the richest of the former Soviet republics in Central Asia, has taken a more market-based approach with less government involvement. The result:



corruption is rife (the president is now on the world's richest list); the poor can't protect themselves; university teachers charge for courses; doctors charge for hospital beds.

"They're trying to have a market system without any of the ethical principles we take for granted," Professor Pomfret said.

This has implications for Australian diplomatic and commercial links in the area. Telstra, BHP and Elders are already in Kazakhstan, Professor Pomfret said, and an Australian embassy opened there two years ago.

"Attracting foreign invest-

ment and raising domestic savings rates will be important" to the Central Asian economies, Professor Pomfret writes, "but more significant will be empowering the people through provision of education and health services and an environment in which people can use their human capital to the benefit of society as well as themselves.

"A market-oriented economy is a well-tryed framework for achieving such an outcome, but it only produces the desired results if the broad infrastructural conditions (including good policies) are right."

— Pamela Lyon

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Privatisation — 'look beyond economic issues'

PRIVATISATION doesn't need to be a dirty word. At least, not if it's done correctly.

That's the view of University of Adelaide Law lecturer Mr Chris Finn, who has closely researched the privatisation and regulation of public utilities in the UK.

Mr Finn, who lectures in administrative law, looked at the issue of public accountability, including quality and universality of service following the privatisation of telecommunications, water, electricity and gas utilities.

"I went to the UK suspecting that the regulatory bodies set up to oversee privatised utilities were pretty much paper tigers. But what I found was that the separation of regulation from service delivery had been accompanied by some significant improvements.

"While no system is perfect, in most cases the specialist regulators were performing well.

"As a result, there had been improvements in customer service standards and in the universality of service. There had also been an inclusion of the public in the regulatory process where previously there had been little or no public consultation.

"This shows that, based on the UK example, it is possible to maintain service standards and public accountability, and even improve them, if the privatisation of public utilities is properly regulated," he said.

Mr Finn said this contrasts with the State Government's outsourcing of South Australia's water operations.

"The secrecy that surrounds the SA Water deal is very poor in terms of public accountability.

"Because you don't know what's in the contracts, the public doesn't have any real measure or assessment of the quality of the job the private operators are doing. We don't know what the standards are, we don't know who's monitoring them, we don't know anything about them.

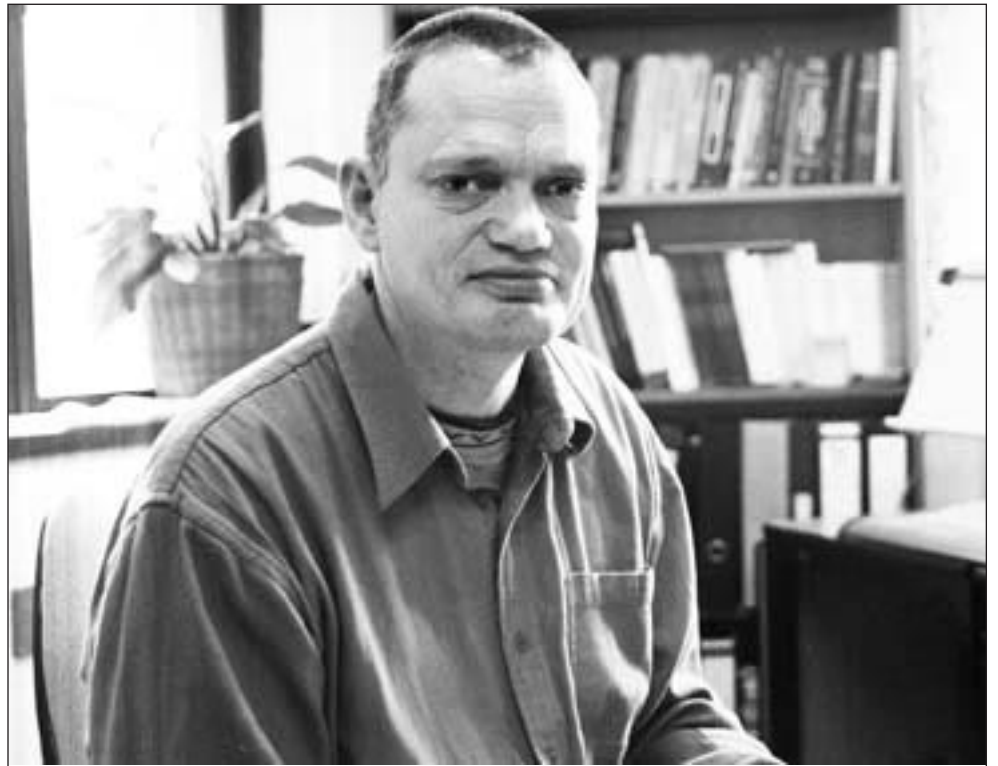
"The unwillingness of the government to be publicly accountable for this invariably leads to increased public distrust. A government which shows trust in its citizens is more likely to be trusted by them in turn," he said.

While the SA Water example was a model of what not to do when involving the private sector, Mr Finn said the State Government's proposed regulatory scheme to apply to a privatised electricity industry was a step in the right direction.

"The model proposed for SA is to have an independent regulator concerned with tariffs, licensing and some access issues, as well as an industry-funded customer service ombudsman. This is a similar regulatory scheme to that currently in place in Victoria" he said.

"Such bodies actually do have a measure of independence and have functioned effectively both in Australia and overseas.

"If the regulatory body is given the right kind of powers, and adequately funded, privatisation of a utility such as ETSA can result in improvements for the customer and an improved sense of public accountability. This can



Chris Finn: privatisation needn't be a dirty word. Photo: David Ellis

be achieved via a transparent regulatory scheme, as an alternative to direct public ownership."

Mr Finn said it was important not to focus debates about privatisation purely on economic issues.

"There are a wide range of issues involved—economic issues are one part of the equation, but public accountability and customer service, including rural, residential and disadvantaged customers, are also important," he said.

"I don't think you can conclude from my research that privatisation necessarily results in improvement. But you can make quite a sensible case that it is possible to privatise utilities and maintain or even improve standards.

"What is essential is a government that's willing to set up the appropriate regulatory structure and not to simply accept whatever outcomes the market delivers."

—David Ellis

Adelaide supports IB youth summit



Participants in the IB Conference on the Goodman Crescent Lawns. Photo: John Edge

THE UNIVERSITY of Adelaide played host on 2 September to students from eight schools in the International Baccalaureate Middle Years Program.

They were participating in an IB Youth Council Conference, mapped out by the students themselves, on the development of links with IB schools overseas as well as ongoing communication between local IB schools, practical environmental action, and leadership.

The intention behind the summit was to empower students and develop strategies for bringing about change within their local school communities.

Thirty-six students from Glenunga International High School, Norwood/Morialta High School, St Andrews Primary, Glen Osmond Primary, Linden Park Primary, Magill Primary, Burnside Primary and Stradbroke Primary participated in the event — the first time that a collaborative

exercise involving such a large cluster of schools offering the International Baccalaureate Middle Years Program has taken place anywhere in the world.

State Education Minister, Mr Malcolm Buckby, launched the day's activities in the Council Room. It was then off to the Faculty of Engineering's computer suite for sessions on web page design to help the students create their own IB web page.

After lunch at the Waite Campus 'Lirra-Lirra' cafeteria, students participated in sessions on bio-diversity and satellite mapping, and current field work in biodiversity, plant identification and insect collection.

The IB Middle Years student summit is intended to be an ongoing thing and it is expected that the rapport that the University has established with schools participating in the event will continue to strengthen and develop.

CRC coal research offers a cleaner power future

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"If you saw our pilot plant operating at Osborne, you wouldn't see any of the old smoke stack industry—there's no soot and dust around," says Professor Agnew.

Put simply, the fluid-bed technology utilises a container filled with sand into which air is bubbled. Coal particles are mixed in the container. Heat can be taken out and the gases produced are put through another device called a gas turbine which gives a much more efficient generation of

electricity than the ordinary steam turbine on its own.

"There are other things on the horizon," says Professor Agnew. "For example, when we gasify the coal we make a gas which can fuel a gas turbine. In theory we might be able to increase the electricity conversion efficiency to 65% by putting this gas through a highly efficient fuel cell which converts the gas energy directly into electricity. So we are constantly making improvements through our research."

—Rebekah Washington

Advertisement

Thebarton facility for anxiety and stress management

A NEW CLINIC to diagnose and treat anxiety disorders in adults, adolescents and children is to open on the University of Adelaide's Thebarton Campus this month.

"Progress in Psychology" has been jointly funded by the South Australian Health Commission (SA Department for Human Services) and the University of Adelaide through the Department of Psychology.

The clinic's Director, Dr Don Pritchard, said psychological interventions had been shown to be highly effective for problems such as panic disorder, phobias and social anxiety, post-traumatic stress disorders, and general anxiety problems (including workplace stress).

"Research studies have shown improvement rates of better than 80% after carefully planned intervention strategies," he said.

A special feature of the clinic will be dealing with the problem of withdrawal from drugs used to treat anxiety disorders.

"There is evidence that anxiety problems amongst both children and adults are very widespread, with 8-14% of people experiencing significant problems," said Dr Pritchard.

"Children's anxiety difficulties are often overlooked and do not receive appropriate care, because such children are not usually disruptive, but are rather more quiet and withdrawn than others.

"Not only do these children

experience difficulties in their school and home lives as a result of anxiety but they are also at significantly greater risk of experiencing high levels of anxiety later in life."

The clinic will offer group treatments for anxious children based on successful trials elsewhere in Australia which acknowledge the importance of involving parents in treatment.

The staff in the new clinic are experienced and highly qualified clinicians who will supervise postgraduate clinical psychology trainees from the Master of Psychology course at the University of Adelaide.

"The professional requirements of their training will ensure that treatments offered are up-to-date and based on the best available treatment evidence," Dr Pritchard said.

The best in clinical practice would also be a feature of the clinic, he said, with postgraduate trainees encouraged to carry out research into all aspects of the anxiety disorders—complementing research already conducted in the Psychology Department.

The Vice-Chancellor, Professor Mary O'Kane, and the CEO of the Department for Human Services, Ms Christine Charles, will open Progress in Psychology on 25 September.

For further information contact the Secretary, Ms Levenike Renner on 8303 4934.

New appointment at Luminis

MR PETER HART, the Managing Director of Luminis Pty Ltd, has announced the appointment of Paul Szuster to the position of Business Development Manager, Luminis.

Mr Szuster will be based at the University's North Terrace campus and will be responsible for the identification and commercialisation of research outcomes, intellectual property issues, linking with venture capital funds and the marketing of both the services of Luminis and its subsidiaries.

He comes to the position with extensive private sector experience in the commercialisation of innovations and technologies, and is well networked in the business community. He has an MBA from the University of Adelaide and is a member of several relevant professional bodies.

Paul Szuster says Luminis has an important role to play in getting the best possible returns from the commercially relevant intellectual property produced by the University. He is keen to meet with staff members to explore the commercial potential of their work, and encourages this process to happen earlier rather than later.



Paul Szuster: "enormous potential for commercialisation".
Photo: John Edge

"I really enjoy the process of seeking opportunities, and exploring the full potential of an invention or commercial idea. It's very much a case of looking outside the square," he said.

"For a University that consistently attracts high levels of research funds, we have enormous potential for commercialisation. The returns through royalties and licences can then be put into further research.

"Consulting work is an excellent entry into the business community, providing opportunities for industry to learn about the research capabilities within the University, and for academic staff to identify new areas of research.

"It's the classic 'Win-Win' situation."

Paul Szuster can be contacted on 8303 5020, fax 8303 4355, email <pszuster@luminis.adelaide.edu.au>.

ACUE 25th Birthday Series

Professor Penny Boumelha: 'Teaching in a Research University'. The fourth of a series of Web presentations is now on the ACUE's 25th Birthday site: <<http://www.acue.adelaide.edu.au/25th/acue.html>>. The Learning and Teaching Plan of the University has as a goal, "To ensure that all students at the University of Adelaide are exposed to both cutting-edge research and opportunities for direct involvement in research projects". Professor Penny Boumelha, Dean of Arts and Head of the Division of Humanities and Social Sciences, suggests the Boyer Report as a framework for the promotion of teaching in a research-based university, and explores how our undergraduates might benefit from the unique opportunities and resources that characterise research at this University. Staff and students are invited to visit the Web-based presentation, and to attend the face-to-face seminar on Tuesday 22 September to discuss the issues raised.

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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- Access to financial assistance schemes
- 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 Anne-Marie Quinn at ACTA on 8212 4794.



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AUSTRALIA

COMMENTARY

THE HUMANE SCIENCES IN THE UNIVERSITY

From Page 2

So what would (say) a department of philosophy look like? Perhaps diminished if we continue to regard departments as primarily defined by a teaching program. A department as a research grouping, however, would be very different.

There would be a deliberate attempt to give emphasis to the disciplines represented by the four first-year subjects/majors as basic research groupings. These groupings or units would include many scholars from the vocational disciplines themselves:

Economics. This research unit would include many scholars from the Commerce, Government, International Practice and Law disciplines. These connexions are very strong. A great deal of the International Practice discipline itself would have to be international economics. Economics is bound to be a large part of Government. And Law and Economics is already a sub-discipline in Law, and one which in my view is destined to reconstruct the whole of the Law discipline.

History (the distinction between History and Geography, and for that matter Anthropology) has always been a puzzle to me, so I will concentrate on History). This research unit would include Legal History, Aesthetic History, Political History, and all the history implicit in the current internationalisation of the world.

Philosophy. Legal Philosophy, Aesthetic Philosophy, Political Philosophy.

Language, Languages and Literature. This is a very important research unit. The fact that it doesn't marry as a research unit quite so well with the vocational disciplines as the other three do is neither here nor there. Its foundational nature to all of the vocational disciplines is beyond question. It might obviously have a special connexion to International Practice.

The other research groupings would be the vocational disciplines themselves. Every academic would be a member of and employed by both a teaching and one or more research groupings.

Thus to articulate membership of and responsibility to research units would go a long way towards clarifying what at the moment is rather obscure. Every academic at the University of Adelaide should have a research responsibility. This is what distinguishes a good university, and it applies just as importantly to the humane sciences as it does to the natural sciences. The desirability is recognised in the University at the moment, but because Departments defined mainly as teaching units are the dominant organisational entities, an academic's research responsibility can simply tag along somewhat uncertainly.

The fact that each of the vocational disciplines was a member of this large division of humane science would indelibly impress its humane character on the nature of our presentation of those disciplines themselves; to their own betterment, and to the survival of the humane sciences in a vocational context.

Legal associateship an experience

SCIENCE AND LAW graduate Ms Susie Brown completed her studies less than two years ago, and already she's making her mark in the High Court.

Ms Brown, who graduated at the end of 1996 with a Bachelor of Science (Jurisprudence) and a Law degree with Honours, is now working as an associate to High Court Justice Gaudron in Canberra.

An associate (much like a research assistant) works closely with a judge and helps to gather important information about cases. Associates often sit in court with a judge, making sure they have all the material they need. They can also be called upon to proofread judgments.

"The associateship with Justice Gaudron has been both interesting and exciting, mainly because the High Court deals with many issues that can affect the entire nation, such as native title and Constitutional Law," Ms Brown said.

"Justice Gaudron is also the High Court's only female judge, which makes it interesting from a different perspective. Even today, female judges are unfortunately few and far between."

Ms Brown said her study at the University of Adelaide has prepared her well for the work she is doing now.

"In my final year of Law I took up the opportunity to do an Honours thesis. That kind of in-depth research and writing has been very useful," she said. "It hones your research skills, and taking on such a large task is a great learning experience in itself."

Before starting her associateship at the High Court Ms Brown also worked for one year as an associate in Melbourne to Justice Gray of the Federal Court.

As Aboriginal Land Commissioner for



Susie Brown — an eye-opening experience. Photo: David Ellis

the Northern Territory, Justice Gray spends a great deal of time gathering evidence from Aboriginal people about land claims on site.

"That experience was fantastic," Ms Brown said.

"Very few people get to visit these places and see these communities. It was a real eye opener for someone who grew up in the city; I had no idea of the extent to which there was another vibrant, living culture in Australia."

Ms Brown said her decision to become an associate rather than practising law immediately following graduation had definitely been the right one.

"It has given me an exposure to a wide variety of areas of law," she said.

"My main areas of interest have always been environmental law, industrial relations and Constitutional Law, and now I'm also very interested in native title," she said.

"To work for not one but two well-respected judges who are very knowledgeable and so good at what they do is a real privilege."

"This has given me a great deal of invaluable experience and opened up a lot of doors. I'd recommend it to anyone who wants to see other fields of law before they specialise."

—David Ellis

ALUMNI NEWS

Medieval cyberspace

On Wednesday 30 September, join English lecturer Tom Burton and Research Librarian Alan Keig in cyberspace for a presentation about medieval manuscripts on the internet. Together, they will explore how modern computer technology is extending our access to the literature of the middle ages.

This activity is free, but to help us with our planning the Alumni Association asks participants to phone 8303 4275 to make a booking. There are plenty of places—bring your friends.

Starts 7:30pm. Meet at the Barr Smith Library in the Ira Raymond Room.

7 Deadly Steps

Renowned Adelaide graduate Dr Helen Caldicott (MBBS 1962) will be among the speakers at a public meeting organised by the Australian Conservation Foundation (Adelaide Branch) on Tuesday 15 September at 7.30pm in Maughan Church, Franklin Street.

The topic of the meeting is "The Seven Deadly Steps of the Nuclear Cycle", and focuses on US uranium industry plans to carry out mining and milling of uranium at the proposed Beverley uranium mine near the Flinders Ranges.

Dr Caldicott, a paediatrician and international campaigner on nuclear industry issues, is the founder of Physicians for Social Responsibility, which shared the 1998 Nobel Peace Prize with other national groups.

Interstate Alumni visits

The University has plenty of supporters living interstate.

At alumni meetings recently held in Melbourne, Canberra, Sydney and Brisbane, alumni gathered to meet each other and hear news of the University's latest endeavours.

Such meetings had not been held previously in Canberra and Sydney. Enthusiastic alumni in Canberra indicated that they would like to start a local alumni group.

In Melbourne and Brisbane, where the Association had held previous gatherings, familiar faces were joined by a number of 'first timers', some of whom have moved to those centres in the last twelve months.

Doctoral Grants

The Alumni Association is pleased to offer financial support to doctoral candidates through the AUGU/RC Heddle Award and the Mutual Community Postgraduate Travel Grant.

Up to two AUGU/RC Heddle Awards of \$1250 and up to four Mutual Community Travel Grants of \$2,500 are available. Applicants must be enrolled as doctoral candidates at The University of Adelaide. The grants are available to assist the recipient to travel to a conference or similar gathering to present his or her work, or to travel to another institution to learn a particular method essential to his or her work. Such travel may be undertaken within the state, within Australia, or overseas.

Application forms are available at the Alumni Office. Applications close Friday 18 September at 5:00pm. Further information: telephone 8303 3196.

AFUW SA Inc

MEMBERS! It is time to renew your membership!

The Australian Federation of University Women SA Inc needs your support in its work to better the status of women and girls, to promote education, and to provide some practical help to students.

Women graduates who are interested in joining AFUW SA Inc can contact the Membership Officer, AFUW SA Inc, C/-Mail Room, The University of Adelaide. Ordinary membership is \$50; postgraduate student membership is \$40. Women who have graduated from university courses requiring less than 3 years' full time study are eligible for Associate Membership, which is \$20.

AFUW's September meeting will be a day-time tour of the St Kilda Mangroves on Tuesday 22 September at 11:00am. (Bring a picnic lunch.) This is a change from the usual monthly general meetings held in the evening, at which special guest speakers and discussion groups can be enjoyed.

October General Meeting: Tuesday 27, 7:30-10:00pm. "Flinders University Tournament of the Minds".

AGM, Tuesday 24 November, 7:30-10:00pm, at St Ann's College. Speaker: Ms Ruth Blenkiron, SA Deputy Commissioner for Equal Opportunity.

AFUW SA Inc is affiliated to the International Federation of University Women. Visit the Web site at <<http://www.ifuw.org>>.

Missing Golden Jubilee Graduates

CAN YOU help find these missing Golden Jubilee Graduates?

Anderson, Aubrey James (Arts)
Anderson, John Donald (Commerce)
Baldock, Gordon Herbert (Commerce)
Bassett, Murray Maxwell (Pharmacy)
Bennett, Henry Russell (Arts)
Bolin, Beverley Louise (Engineering)
Burnard, Charles Robert (Arts)
Copley, Jonathan Richard Livingstone (Engineering)
Crouch, Lilian Rubena (Soc.Science)
Dowding, Ruth Elma (Pharmacy)
Fisher, David le Sauvage (Commerce)
Flett, Phyllis Margaret (Soc.Science)
Griffith, Elsie Mervyn (Soc.Science)
Guthrie, John Vincent (Pharmacy)
Hill, Alma Isobel (Arts)
Kerr, Olwyn Gertrude (Soc.Science)
Langsford, Leonard Graham (Commerce)
Miller, Annie Rose (Arts)
Mofflin, Lionel Hugh (Medicine)
Nettle, Kenneth Ralph (Commerce)
O'Brien, Brian David (Science)
Plunkett, Margaret Elizabeth (Soc.Science)
Pulford, Vivian George (Commerce)
Robertson, Hall (Engineering)

Rohlfing, Kenneth Malcolm (Pharmacy)
Shepherd, Stanley Maxwell (Science)
Smith, Sylvester (Arts)
Spence, Lionel Dudley (Commerce)
Swan, John Gordon (Commerce)
Thompson, Frederick Verner (Science)
Wheaton, Frank Hurtle Pengelley (Pharmacy)

We were able to write to the following Alumni but their letters have been returned. Are you able to help us locate them?

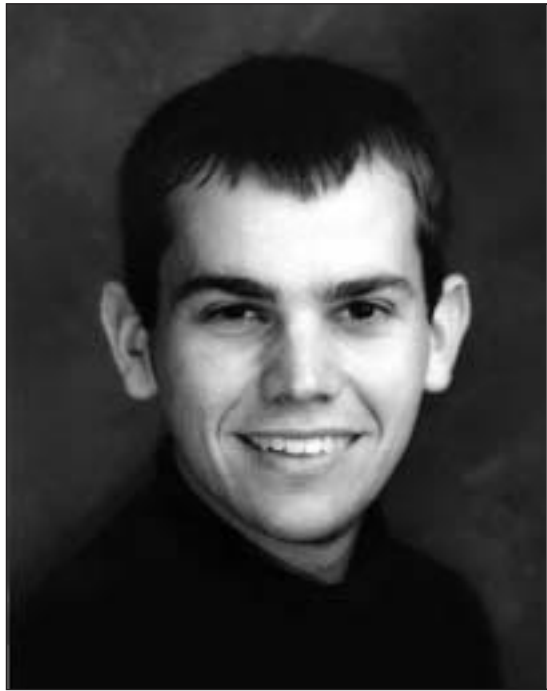
Anderson, Ronald Alexander (Science)
Bennett, Richard Barkly (Medicine)
Bree, Joan Alison (Science)
Deer, John Gregory (Science)
East, Vernon Roy (Arts)
Johns, Robert Keith (Science)
Jose, Geoffrey Alan (Medicine)
Langsford, Diana (Arts)
Matthews, Rita Clarice (Soc.Science)
Millhouse, Glenn (Dentistry)
Noon, David Lyon (Arts)
Pascoe, Douglas Everett (Economics)
Rooney, Kathleen (Arts)
Trudinger, Philip Alan (Science)
Williams, Garth David (Science)

Please ring Judy Benson on 8303 4276 if you can help.

PERFORMING ARTS

ON CAMPUS

Violinist's ASQ debut eagerly awaited



James Cuddeford: debut Adelaide concert with Australian String Quartet. Photo: Mark Spaven, courtesy of ASQ.

Advertisement

VIOLINIST James Cuddeford will make his Adelaide debut with the University of Adelaide-based Australian String Quartet on 19 September in Elder Hall.

Mr Cuddeford is the Quartet's new second violin, replacing Elinor Lea, who left in July after eight years to become Associate Concertmaster of the Tasmanian Symphony Orchestra in Hobart.

The concert will also be the first opportunity for Adelaide music-lovers to see and hear James Cuddeford's magnificent Gobetti violin of 1715. Gobetti, a Venetian master violin-maker, made only a relatively small number of

instruments and this famous instrument, owned by a London dealer, is on short-term loan.

Born in Brisbane, James Cuddeford received much of his musical education at the Yehudi Menuhin School outside London, after he was personally selected by Mr Menuhin himself, who heard him play during the Brisbane Expo in 1988. He then studied at the Royal Northern College in Manchester.

At the age of fifteen, James Cuddeford became the first person to reach the British national finals of both the BBC Young Musician of the Year and the BBC Young Composer

of the Year. His awards include the Sir John Barbirolli Award, and the Charles Hennen International Chamber Music Competition leading the Artemis Quartet.

He has performed regularly in Europe as a soloist and chamber musician, with orchestras such as the Camerata Lysy Switzerland, the London Vivaldi Concertante and the BBC Scottish National Orchestra.

The 19 September concert features a program of work by Haydn, Schumann and Dvorak. Tickets are available at BASS (131246).

Centenary week almost here

From Page 1

"We owe the Centenary to Sir Thomas Elder—an astute businessman, politician and very generous philanthropist, a man of daring vision and enterprise, a lively character with a wide range of diverse, and occasionally rather quirky pursuits," said the Dean of Performing Arts, Dr Anita Donaldson.

Pulitzer Prize winner Gunther Schuller—performer, composer, conductor, educator, author—will be Centenary Artist in Residence from 16 September to 4 October.

During his time in Adelaide he will work with staff and students of the Conservatorium in the presentation of several performances, culminating in the week's grand showcase, the Centenary Concert in Adelaide Town Hall on Friday 2 October at 8pm.

Gunther Schuller will also address the University and

the general community, a highlight being his public lecture, "An Evening with Gunther Schuller" in Elder Hall on 28 September at 6pm.

A "New Works Concert" on Saturday 26 September in Elder Hall at 8pm sees no less than four world premieres, including a work commissioned from Richard Meale in honour of the Centenary.

A Jazz Concert on 1 October will feature the University's highly regarded jazz choir Adelaide Connection in a tribute to some of the great jazz singers.

The formal Centenary Dinner in the Adelaide Town Hall on 3 October will round out the week, honouring the Conservatorium's great contribution to musical life.

Brochures with full program details are available from the Elder Conservatorium or at BASS outlets.



Gunther Schuller



Sir Thomas Elder

SUN NEWS

The forthcoming

Notable Lectures are from the Gavin David Young Memorial Lectures given recently by Professor Hilary Putman of Harvard University. 11:00am each Sunday, beginning 20 September.

• 5UV's Aboriginal Message program has gone national. The program (Thursday at 5:30pm) is produced by young Indigenous people and is sponsored by Nunkawarrin Yunti, the Aboriginal Health and Welfare Centre.

From this month Aboriginal Message will be broadcast on the National Indigenous Radio Service, a satellite-based program distribution service based in Brisbane available at 100 community radio stations and about 80 remote Aboriginal communities throughout the country.

ACCOMMODATION

GOODWOOD: Share 2 br maisonette. Lock-up, undercover parking, great location, close to city and transport. Avail mid-late October. \$100 pw + bond & expenses. Ph Deb 8272 1365.

HOLIDAY HOUSE: Second Valley - Avail during school holidays. Modern, views to sea. Ph Diane 8379 6510.

KANGAROO ISLAND: Comfortable holiday house on 100 acres, panoramic views of American River, secluded bush, 8 beds, no pets. Ph 8338 2131.

KATHLEEN LUMLEY COLLEGE: Is the postgraduate residential college of the University. The College has 3 small flats and several single

study bedrooms (with bathroom) available for short and medium term visitors to the University. Ph 8267 3270 (mornings).

NORTH ADELAIDE: 1 br full furnished flat with pool. \$120 pw including electricity. Ph 8267 1081.

NORTH ADELAIDE: Modern 2 storey townhouse, one of a pair, 3 br, b-in robes, ducted air cond, lock-up garage, available end of September. \$260 pw. Ph 8265 3485.

UNLEY PARK: 4 br, two storey furn house, walking distance to transport, shops & parks. 2 studies, open fire, spacious 1950s design. Suit visiting academic and family. Ph 8201 3942 or 8272 3548, email: <penelope.griffin@unisa.edu.au>.

ADELAIDEAN CLASSIFIED

WANTED: Visiting academic and family require 2 br house or unit from 10 December 98 - 7 January 99. Prefer eastern suburbs. Ph 8332 5982 (ah).

WANTED: Adelaide Architect seeks house for his family from late November/early December to end of February. Prefer south eastern suburbs, Flagstaff Hill proximity. Ph Pam or Philip Murphy (852) 2965 4334 (Hong Kong) or email: <spuds@asiaonline.net>.

FOR SALE

CARAVAN: Windsor 14'x7' pop-top, 4 berth (double bed plus 2 singles), 3 way

fridge, tyres in excellent cond, electric brake, full length annex, TV antenna. Registered to October 98. TKP 061. \$7,500 ono. Ph 8381 6088.

FLAT: Prospect - 2 br, renovated flat, close to city, walking distance to parklands and cafes at North Adelaide. Move in now or earn 7% pa in rent. \$56,000. Ph 8267 3515.

MISC: Apple Colour OneScanner (SCSI flatbed), \$320 ono. Sony Mavica FD-7 Digital Camera, 10x zoom, storage on normal floppy disk. \$900 ono. Ph Patrick 8431 1594 (after 7pm) or email: <pkee@camtech.net.au>.

MISC: 2 seater wing-back sofa, light brown plus chair, \$250. 4' white desk, slide out shelf, \$30. Ph 8331 8079 (after 6pm).

RECLINER CHAIR: Moran deep blue leather (old English indigo), about 6 hrs use. \$1,500. Ph 8302 2760.

DEPARTMENTAL

COMPUTER WORK-STATION: Cream, metal with laminex surface, adjustable height and angle. \$75. Ph Dick Finlay 8303 5348.

WANTED

CUPBOARDS: Upright metal cupboard or cabinet with or without shelving; old full length upright lockers; filing cabinet upright. Any condition.

Ph Vicki 8303 3410 or email: <vkolberg@auu.adelaide.edu.au>.

MISCELLANEOUS

CHILDCARE: Reliable, references available, own transport. Ph Rebecca 8262 5134.

WORD PROCESSING: Fast and accurate, 15 years experience as a temp. Good rates, free pick-up and delivery. Ph Trisha 8232 4841.

WORD PROCESSING: \$3.50 per page @ 250 word per page. 1500 words = \$21. Thesis formatting of WP on disk. Laser printing, city centre location, after hours service including weekends, quick turnaround. Ph Anne 8212 6869 or 8415 7866, fax 8212 6662.

Bulletin Board

SEPTEMBER 14, 1998

THE UNIVERSITY OF ADELAIDE

PAGE 1

MONDAY 14 SEPTEMBER

1.00pm Microbiology & Immunology Seminar: Herpes viruses by Dr Tony Simmons (Infectious Diseases Laboratories, IMVS). Departmental Library, 5th Floor, Medical School South.

1.00pm Clinical & Experimental Pharmacology Seminar: The prevalence and role of alcohol, cannabinoids, benzodiazepines and stimulants in non-fatal crashes: preliminary results by Ms Marie Longo (PhD student). Seminar Room, 6th Floor, Medical School, North Wing.

1.10pm Public Health Seminar: Manual Handling by Donna Grinham (Occupational Health & Safety Unit) and Fire Safety by RAH Fire Warden. Seminar Room, Level 6, Bice Building, RAH.

1.10pm History Seminar (in association with Anthropology, Politics and Centre for the History of Food and Drink): The idea of a 'meal': the growth of agrarian cuisines by Professor Sidney Mintz (Emeritus Professor of Anthropology, Johns Hopkins University). Edgeloe Room, 1st Floor, Mitchell Building.

1.10pm Student Workshop: Overcoming Sleep Difficulties by Susan Howard. Counselling Centre, Ground Floor, Horace Lamb Building.

4.15pm Geographical and Environmental Studies Seminar: Bio-monitoring with diatoms by Dr Peter Gell (Geography). Room 819, 8th Floor, Napier Building.

TUESDAY 15 SEPTEMBER

12noon Lyell McEwin Health Service - Tuesday Grand Round: The Science Fiction Future of Diabetes Management by Dr William Singleton Jeffries (Director, General Medicine, Lyell McEwin). Conference Room 1, Community Health Building, Lyell McEwin.

12.30pm General Practice Seminar: Improved preventive care from automated reminders to general practitioners by Dr Oliver Frank. Room 3, Level 2, Margaret Graham Building, RAH. Bring your lunch.

1.10pm Anatomical Sciences Seminar: Locomotion, load carrying and tendon elasticity by Professor Russell Baudinette (Zoology). Room S127, Medical School, South Wing.

WEDNESDAY 16 SEPTEMBER

10.10am Electrical & Electronic Engineering Seminar: Automated Removal of Isospheric Doppler Shift in OTHR Dwells by Dr David Crisp (Postdoctoral Fellow). Lecture Room S112, Engineering South.

COMING EVENTS

September 14th — September 25th

12.30pm General Practice Teaching Unit Seminar: Confessions of a GP Researcher by Dr Bob Moorhead. South Wing Seminar Rooms, Modbury Public Hospital. Lunch provided.

12.30pm ARCHSS Seminar: The Rise and Fall of Bi-Sexuality by Dr Steven Angelides (Postdoctoral Associate). Room G08, Napier Undercroft, Napier Building.

1.00pm Zoology Seminar: Parasitism rules among the wasps by Dr Andy Austin (Crop Protection). Seminar Room, 4th Floor, Fisher Building.

THURSDAY 17 SEPTEMBER

12noon HCCR/IMVS Seminar: Identification of novel haemopoietic and endothelial expressed genes by gene trapping in ES cells by Dr Georgina Caruana (Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Canada). Verco Theatre, IMVS.

12.05pm Psychology Seminar: Enhancing recovery from psychosis by Dr Brian Johnson (SA Mental Health Services). Room 527, Level 5, Hughes Building.

1.00pm Chemical Pathology Seminar: A window on the future for Lysosomal Storage Diseases by Professor John Hopwood (Chemical Pathology). Seminar Room 1, 4th Floor, Clarence Reiger Building, WCH.

6.00pm Australian Institute of International Affairs: Annual General Meeting for members only. Margaret Murray Room, Level 5, Union House. Please note: the lecture on Asia has been cancelled.

FRIDAY 18 SEPTEMBER

12.45pm Dentistry Seminar: Presentations for IADR in Brisbane. Lecture Theatre 1, 6th Floor, Adelaide Dental Hospital.

1.10pm Centre for Asian Studies Seminar: Australia-China Relations by Dr Baden Teague (Guest speaker, ex-Senator). Room 518, Ligertwood Building.

4.00pm School of Economics Seminar: Designing a Mechanism to Induce Cooperation in Non-Cooperative Environments: Theory and Applications by Christopher Ellis (University of Oregon). Eric Russell Room (LG 14), Napier Building.

SATURDAY 19 SEPTEMBER

8.00pm Adelaide University Choral Society Concert: To The

Mother of God, conducted by Peter Kelsall. Tickets from Clubs Association, Ground Floor, Lady Symon Building, \$14/\$9/\$5 or at the door. St Francis Xavier Cathedral, Wakefield St, Adelaide.

SUNDAY 20 SEPTEMBER

7.30pm Dinner - Urrbrae House: Chef Ann Oliver joins with Botanist David Symon to present a unique dinner with botanical commentary. 15th Century Fusion Food: The contribution of the discovery of the New World to the 20th Century kitchen. Dining Room, Urrbrae House, Fullarton Road, Urrbrae. \$75 per person including wines. Places are limited, reservations 8303 7405. Bookings confirmed on receipt of payment. Funds raised will go to the Waite Arboretum. Bookings call 8303 7405.

MONDAY 21 SEPTEMBER

9.30am Public Health Postgraduate Seminar: Beyond the PhD: Creating Career Options (presentations from two recent PhD graduates, representatives from the Research Branch and the Health Commission). Topics include: surviving a PhD; competing for teaching posts; scholarship opportunities; and life after graduation. WP Rogers Room, Union Building. Morning tea will be provided. Register by 17 September: John Raftery, Public Health, 8363 9198, email: <jraftery@camtech.net.au> or Jane Harford, Public Health, 8303 3588, email: <jharford@medicine.adelaide.edu.au>. Close 12.30pm.

1.00pm Microbiology & Immunology PhD Final Presentation: Early events in immunity to a parasitic worm by Ms Christine Daly. Departmental Library, 5th Floor, Medical School South.

1.10pm History Staff/Postgraduate Seminar: The Underdog's Sweet Tooth: locating the subaltern in Java Sugar by Dr Roger Knight (History). Common Room, 4th Floor, Napier Building.

TUESDAY 22 SEPTEMBER

12noon Lyell McEwin Health Service - Tuesday Grand Round: The Management of Impotence, or, How I can do it when others can't by Dr Agnelo Francis DeSousa (Urologist, Lyell McEwin). Conference Room 1, Community Health Building, Lyell McEwin.

1.00pm ACUE 25th Birthday

Seminar Series: Teaching in a Research University by Professor Penny Boumelha (Dean of Arts, Head of the Division of Humanities & Social Sciences). ACUE Seminar room, 6th Floor, Hughes Building. BYO lunch, tea and coffee provided.

1.10pm Anatomical Sciences Seminar: Ancient Celts in Sound-of-Music Land: excavations on the Dürrnberg-bei-Hallein, Ld Salzburg by Professor JVS Megaw (Archaeology, School of Cultural Studies, Flinders University). Room S127, Medical School, South Wing.

WEDNESDAY 23 SEPTEMBER

5.30pm Faculty of Medicine Seminar: From Infectious Disease to Predictive Medicine: The Genetic Revolution by Professor Grant Sutherland (Director, Department of Cytogenetics and Molecular Genetics, WCH). Florey Lecture Theatre, 1st Floor, Medical School.

THURSDAY 24 SEPTEMBER

12noon HCCR/IMVS Seminar: Novel interacting-proteins and functions for the haemopoietic regulators SCL and LMO2 by Dr Jane Visvader (Walter & Eliza Hall, Melbourne).

1.00pm Chemical Pathology Seminar: Information sources in Paediatrics by Mr M Draper (Research Librarian, Paediatrics, Barr Smith Library). Seminar Room 1, 4th Floor, Clarence Reiger Building, WCH.

1.10pm Physics and Mathematical Physics Seminar: There's more to lasers than optics (but it all meets the eye) by Murray Hamilton (Physics and Mathematical Physics). Kerr Grant Lecture Theatre, 1st Floor, Physics Building.

7.30pm Centre for Australian Studies / Centre for British Studies Public Lecture: Are We There Yet? Distance and the Migrant Imagination by Professor Alan Atkinson (Department of History, University of New England). Napier 102, 1st Floor, Napier Building.

FRIDAY 25 SEPTEMBER

1.15pm Inaugural Lectures Spring 1998: New Frontiers in Otorhinolaryngology by Professor Peter Wormald (Medicine). Lecture Theatre 102, Napier Building.

4.00pm School of Economics Seminar: Bulls and Bears (Stock Market Cycles) by Adrian Pagan (Australian National University). Eric Russell Room (LG14), Napier Building.