



8 May 1990

## Encouraging efficient use of energy

*Electricity Commission research centre on campus*



*Professor Ken McKinnon, Vice-Chancellor, left, and Mr Barry Flanagan, General Manager of the Electricity Commission, sign the agreement setting up the Centre*

**INVENT** a new mousetrap, runs the old saw, and the world will beat a pathway to your door. In setting up the Illawarra Technology Centre, the signs and portents are that this University has achieved the equivalent of the new mousetrap.

Yet another joint research centre for ITC has just been announced, the result of an agreement between the University and the New South Wales Electricity Commission. (The Minister for Minerals and

Energy, Mr Neal Pickard, first announced the establishment of the Centre in March, during a visit by the American energy efficiency expert, Amory Lovins.)

The aim of the centre is to encourage more efficient use of energy by researching and developing techniques for commercial use by private enterprise.

Signing the contract on behalf of the Electricity Commission, the General Manager, Mr Barry Flanagan, said, 'The University of Wollongong has available

the skills which can support the Commission's interest in demand management'.

The Commission will spend \$1.5 million over the next three years on the centre. And the Minister, Mr Pickard, made the point that the centre would contribute to the economic growth of the region, using pro-environment initiatives.

The intention is that the centre will provide a research facility to the Electricity Technology Centre at Silverwater which, said Mr Flanagan, '...has already provided significant benefit to industry and the environment in New South Wales'.

The company will have a Board of Directors initially consisting of

- the General Manager of the Electricity Commission or his nominee
- the Vice-Chancellor of The University of Wollongong or his nominee
- The Manager of the Commission's Electricity Technology Centre
- Professor Chris Cook, Professor of Electrical Engineering

Topics for research priority are likely to include motor drives, alternative generation - fuel cells, cogeneration, customer utility communication and lighting.

Worth-while publicity for the University will stem from a proactive effort to be made to inform industry and the community of the outcomes of the program so that they may be aware of, and can make use of, the benefits, techniques, technologies, products and strategies available for demand-side management and more efficient energy use.

**May Graduation  
ceremonies**

**Details of speakers  
on page 7**

## General Notices

# \$1 million funding to CITER for Telecom Centre of Expertise

TELECOM RESEARCH Laboratories is to provide funding of \$1 million to The University of Wollongong's Centre for Information Technology Research (CITER) to establish a Switched Networks Centre of Expertise.

The research program will undertake pioneering work in the development of intelligent telecommunications networks, an area where Telecom's Corporate Customer Division has already established a software laboratory at the University.

This new initiative is in addition to the software facility, which was opened by Telecom Managing Director, Mr Mel Ward, in a visit to Wollongong in mid-April.

Research Director of the Switched Networks program will be Hugh Bradlow, The University of Wollongong's Professor of Computer Engineering. He is currently seconded from the University to the position of Director of Research at the Nortel Technology Centre, located on campus. Nortel is the Australian arm of Canadian-based Northern Telecom and the Wollongong laboratory forms part of the world-wide Bell-Northern Research network.

While the majority of Professor Bradlow's time will be devoted to leading the Nortel enterprise, he will also

assume leadership of the Switched Networks program. A team of researchers, including four doctoral students on fellowships, will be assembled within CITER.

The research will involve members of the Department of Electrical and Computer Engineering at The University of Wollongong and the School of Electrical Engineering at the University of Technology, Sydney.

The announcement of the decision, by the Executive General Manager of Telecom Research Laboratories (TRL), Mr Harry Wragge, was made during a visit to The University of Wollongong on Friday May 4. He and Vice-Chancellor Professor Ken McKinnon signed the agreement to establish the Centre of Expertise on behalf of TRL and the University.

The Switched Networks program will investigate the performance of intelligent network architectures on public telephone networks by developing simulation models and designing test and measurement instruments. It will also investigate protocol design and signalling in fast packet networks.

The three-year funding from Telecom will enable a core team to be established in this key area of telecommunications research. CITER and Telecom Research Labs will explore the involvement of other partners in the research projects, especially major telecommunications equipment suppliers.

Dr Ian Reinecke, Director of CITER, said that the latest announcement comes as further evidence that the University's strategy to make itself the pre-eminent telecommunications research site in Australia is taking shape. He said current discussions with other information technology organisations will result later this year in further strengthening of the aggregation of telecommunications expertise at Wollongong.

The Illawarra Technology Centre (ITC), which is located on the Wollongong campus, has just completed stage two of its three-phase expansion program to accommodate increased research activity. The complex now houses, in addition to the new Switched Network Centre, the

first major research laboratory Telecom has set up at any university, and Northern Telecom's Nortel Technology Centre.

CITER, which was established a year ago under the chairmanship of Mr Bob Somerville, a former chairman of Telecom and OTC Limited and currently of the ABC, is a member of the Telepower consortium that won the NSW telecommunications network contract. It will manage Telepower's collaborative R&D program at the University's Campus East business and technology development.

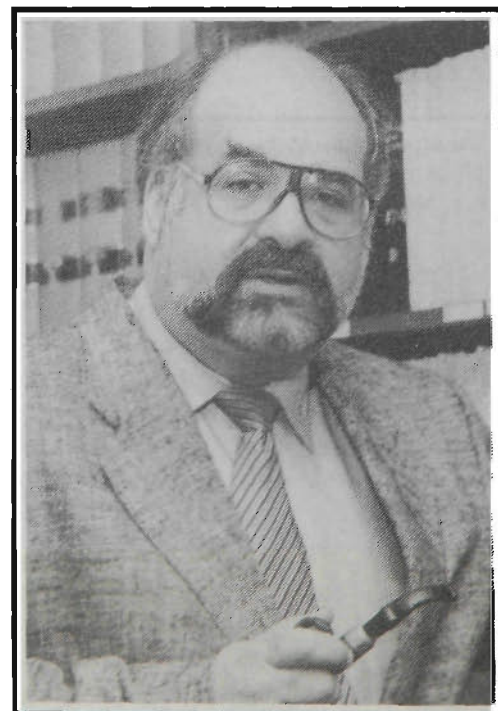
For further information contact Dr Ian Reinecke, Director, Centre of Information Technology Research, University of Wollongong (042) 27 2644.

## John Goldring re-elected

PROFESSOR JOHN GOLDRING, who will begin his duties as foundation dean, Faculty of Law in June, was re-elected to the executive committee of the Commonwealth Legal Education Association at a meeting held in Auckland in conjunction with the 9th Commonwealth Law Conference. Professor Goldring gave a paper at the Conference on *Possibilities for Commonwealth Co-operation in Legal Education* and led a session at a workshop on *Continuing Legal Education in Developing Countries*, organised by the Commonwealth Lawyers' Association and the Commonwealth Legal Education Association, in conjunction with the Commonwealth Law Conference.

A copy of the paper is available from Gillian Curtis, tel. (042) 27 0926.

Professor Goldring



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Editor: George Wilson  
Telephone (042) 28 6691  
Assistant Editor: Janet Cook  
Telephone (042) 27 0027  
Media Contact: Gillian Curtis  
Telephone (042) 27 0926

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# Minister inspects developments in Key Centre for Mines

MR JOHN KERIN, Minister for Primary Industry and Energy, visited The University of Wollongong on April 26 to inspect the developments within the Key Centre for Mines.

During his visit, Mr Kerin held discussions with the Vice-Chancellor, Professor Ken McKinnon, Professor Ian Chubb, Deputy Vice-Chancellor, Professor Lauchlan Chipman, Pro Vice-Chancellor, together with the Director of the Key Centre for Mines, Professor Charles Gerrard.

An inspection of the teaching and research work in the Department of Geology and Civil and Mining Engineering was made with special emphasis on work related to energy and particularly coal mining.

Of particular interest to the minister were the Key Centre plans for development of the new master/graduate diploma of mining management that has been tailored to suit the continued educa-



During his visit Mr John Kerin, right, is photographed with Professor Charles Gerrard, Director of the Key Centre for Mines, left, Professor Raghu Singh and Professor Lewis Schmidt of the Department of Civil and Mining Engineering

tion needs of professional staff employed within the minerals industry. Another major topic of discussion was the need to target more effectively research effort toward increasing productivity in the mining industry.

For further information contact Professor Raghu Singh, tel. (042) 27 0138, Dr Naj Aziz, tel. (042) 27 0449, Professor Lew Schmidt, tel. (042) 27 0040, Department of Civil and Mining Engineering, The University of Wollongong.

## STS Lecturer at Social Defence Conference

DR BRIAN MARTIN, lecturer in Science and Technology Studies, has been involved for a decade with social defence both as researcher and activist. Social defence is nonviolent community resistance to aggression as an alternative to military defence, using methods such as strikes, boycotts, nonco-operation and alternative institutions.

Recently Dr Martin had the opportunity to meet many key people in the field at the conference on *Nonviolent struggle and social defence* held at Bradford, England. The conference, organised by War Resisters International and hosted by Bradford University School of Peace Studies, had over 100 participants from over 25 countries. It was the first international conference of its breadth and focus.

Many participants brought insights from recent experiences in nonviolent struggle from different parts of the globe.

Most notable were the events in Eastern Europe; also discussed were struggles in South Africa, Palestine, China, Fiji and the Philippines. Both the successes and failures of nonviolent struggle were probed.

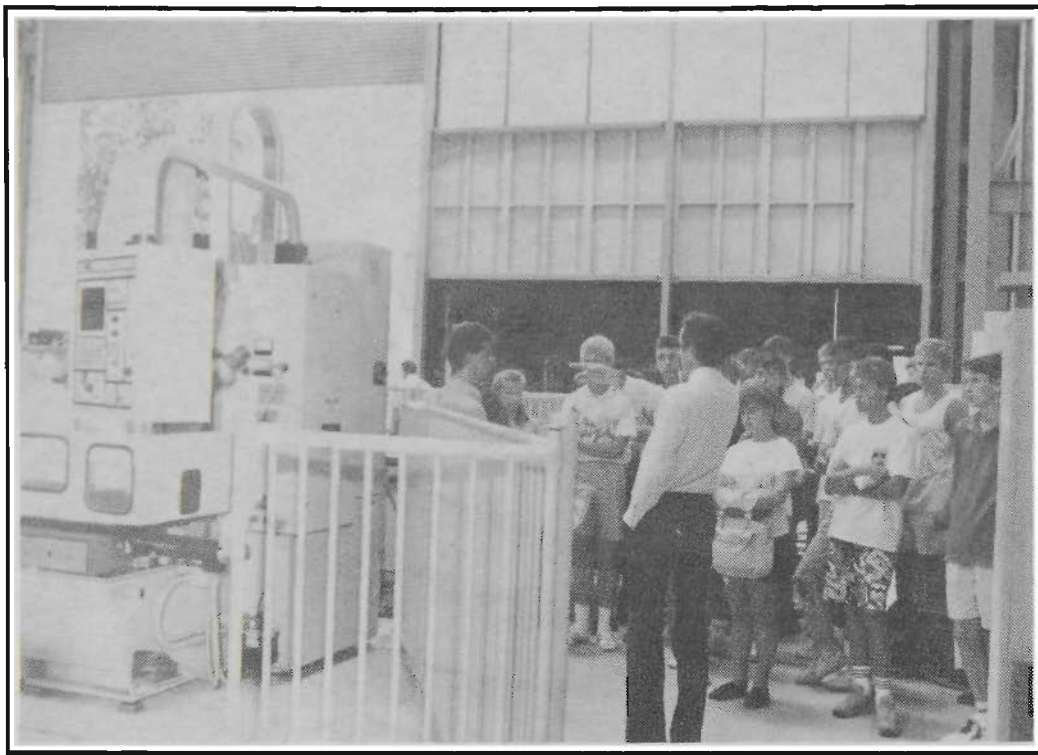
One key point of contention was the scope of social defence. Does it mean a functional alternative to military defence, or virtually any form of nonviolent social struggle? Can it be introduced by governments as part of rational policy-making, or will it depend on links to social movements? Dr Martin's perspective cuts across the usual polarisation of views: he favours a narrow definition of social defence as an alternative to the military, but embeds this conception in a wider picture of grassroots social struggle.

Dr Martin's works are widely known in European social defence circles. His book *Uprooting War* has just been translated into Italian. There was considerable interest at the conference in the project on social defence and communications being carried out by Schweik Action Wollon-

gong, of which Dr Martin is a member. (Schweik, the clever anti-hero of Hasek's classic novel *The Good Soldier Schweik*, caused havoc in the Austrian army during World War One by pretending to be extremely stupid.)

In February, Schweik Action Wollongong organised the first Australian conference on social defence, held at The University of Wollongong and hosted by the Board of Studies, Peace and War Studies. The conference brought together more than 40 participants from several states, plus Professor Johan Niezing from the Free University of Brussels.

At the Bradford conference, Dr Martin chaired and led several workshops and also gave the talk which summarised the conference. For him, the conference was a highly successful integration of theory and practice. In the area of social defence, nonviolent action in the absence of theoretical insight is a process of reinventing the wheel, whereas theory cut off from practice is sterile and likely to be overtaken by events.



Professor Chris Cook explaining just one of the manufacturing processes being undertaken at the Automation and Engineering Applications Centre Ltd (AEAC)

## Introductory course for Year 10 students

THE DEPARTMENT of Electrical and Computer Engineering ran an Introductory Course in Electrical and Computer Engineering for Year 10 students in January. The course was designed to provide the students with some basic practical electronics experience which would enable them, by the end of the course, to construct and test an analogue multimeter. Most of the participants found this to be the highlight of the course – the satisfaction of building something, testing it

and finally being able to take it home in working order. In addition to the practical sessions on basic electronics, the participants attended a number of lectures given by the academic staff on research projects and activities being conducted within the Department.

Of the 26 participants, most were from local high schools, although there were some from as far afield as Canberra, Goulburn, Yass and Nowra. These particular students were able to sample university life first hand, as they stayed at International House for the duration of the course. Responses to a questionnaire indicate that all the students enjoyed the course. As a result, the Department is likely to offer the course again in 1991.

## Mining Simulation short course moved to Hunter Valley

THE DEPARTMENT of Civil and Mining Engineering, in conjunction with Uniadvice Ltd, organised a two-day course on simulation of mining operations during the Easter recess to engineers from Hunter Valley and Ulan coal mines. The course was held at Singleton in the heart of the Hunter Valley coal mining area.

The course concentrated on the use of a special, powerful computer program

known as GPSS/PC (General Purpose Simulation System) to solve production related mining problems. Most mines try to operate at full production levels because of the capital intensive nature of the industry. The risk of not attaining a required production, as well as the investment required to make up any shortfall, should be quantifiable.

The two-day course concentrated on the use of the GPSS simulation language to answer the 'What if?' production questions. The course addressed the techniques of modelling discrete systems such as those arising from material flow using

shovels, trucks, conveyor belts and queueing problems.

Participants used personal computers to solve a variety of mine simulation examples. The course instructors were Drs J.R. Sturgul and E.Y. Baafi. Dr Sturgul, who is a Professor of Mining Engineering from The South Australian Institute of Technology, Adelaide, is currently on a three-month study leave program with the Department of Civil and Mining Engineering under The University of Wollongong's Visiting Research Fellowship Scheme.

Professor Sturgul has written numerous papers on the use of simulation models in mining. His textbook *Examples of Simulation in Mining Using the GPSS Language*, (Elsevier Scientific Publishing Company, Holland) will be out soon.

## Students required for secondary schools Link Program

THIS IS the second year that the Equity in Education Program, Faculty of Education, is conducting the Secondary Schools Link Program. The results from last year's program (soon to be released in a report) were very encouraging.

University students are used as role models to visit local high schools to talk with students in years 10 to 12 regarding life on campus and career prospects after University study. Staff are asked to consider if they could recommend any of their second year students who would act as role models. Where possible, ex-students from the following high schools are sought; Kanahooka, Dapto, Berkeley, Warilla, Lake Illawarra, Oak Flats, Corimal, Nowra, Shoalhaven, Bomaderry, Moss Vale, Bowral, St. Josephs – Albion park, St. Patricks – Campbelltown, Engadine, Heathcote or Ambavale. Other criteria include students from non-English speaking backgrounds, Aboriginal students or female students undertaking non-traditional study. Students will be paid for their participation at the student assistant hourly rate (an average eight hours being committed to the program).

The program is being co-ordinated by Associate Professor Noeline Kyle, Deputy Head, School of Learning Studies. Application forms and more information from either Gay Tapp on ext. 3896 or Jan James on ext. 3078. The closing date for applications is May 11.





School children see an Aboriginal display in the Kemira Room of the Union Building



Bob Randall's family in a traditional dance

# HERITAGE WEEK

*Teaching the young about the old*

ORGANISED by the Aboriginal Education Unit, Heritage Week (April 23 to 27) brought to the Illawarra community an exhibition of photographs depicting Aborinal people and sites, together with a display of stone artifacts and historical materials supplied by the Illawarra Historical Society.

There were once again this year demonstrations of boomerang throwing by Laddie Timbery on the University lawns. And there was Aboriginal singer and songwriter, Bob Randall, who was accompanied by his family in a demonstration of traditional dance.



## Board of Research and Postgraduate Studies

*Notes from the meeting held on Thursday March 29*

### ARC Small Grants

The University is required to provide a list of recommendations concerning the allocation of small grant funds to DEET in October this year.

The ARC has indicated that it does not wish to encourage external assessment and considers that a properly constituted research committee should be able to make most decisions on the basis of assessments gathered within the institution.

It was agreed that a process of selective interviewing would be implemented, with interviews being held only in cases where there are questions that need to be

resolved and cannot be settled in any other way.

The Board then endorsed the following procedures for dealing with ARC Small Grant Applications:

- (i) members of the Research Grants sub-Committee will meet initially to cull uncompetitive applications and identify those where where interviews are deemed to be necessary; and
- (ii) the sub-Committee will be reconvened at a later date to consider applications and hold any necessary interviews.

### Research Students' Open Day

It was agreed that Research Students' Open Day be renamed *Postgraduate Research '90*, to reflect more accurately the aims of the day and to avoid confusion with the University's Open Day. The day is to be held on Friday August 24. This is two days before the University Open Day, and material on display will be left in

place for viewing by the visitors to the Open Day

The Union Building will be used for the day. Poster displays will be in the Kemira Rooms and in the walkaway outside the room, where they can be left on display for the Open Day. The oral presentations will take place in a closed-off section of the room.

Each postgraduate research student will be invited to participate by presenting a poster display and preparing an abstract of the research for inclusion in the publication to be distributed on the day.

A small number of students will be invited to give oral presentations of 15 minutes duration. These students will be selected ahead of time by the Faculty Representatives on the Board.

The Academic Co-ordinator for the day will be Dr Rob Whelan from the Biology Department, and the Administrative Co-ordinator will be Ms Denise Stevens from Academic Services.

## Distinguished Visitor

FROM YESTERDAY (May 7) the Department of Materials Engineering is acting as host this week to Professor K.M. Entwistle, currently Professor of Metallurgy at the University of Manchester, UK.

In addition to being a leading academic for more than 25 years, Professor Entwistle has played a significant role in the recent reorganisation and realignment of UK universities.

In particular, he was Chairman of the Technology Sub-committee of the University Grants Committee which organised and administered the Research Rating of Universities on a subject-by-subject basis. On the closure of the UGC, he was appointed a member of the Universities Funding Council.

## Research Funds

*The sources of research funds given below are available to members of academic staff. Further information, including application forms, may be obtained from Kim Roser (ext. 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Postgraduate Studies.*

### Australian Academy of Science International Exchanges

Applications are being called for the following international exchanges:

- Royal Society Endeavour Fellowships Program** for postdoctoral Fellowships in the UK. Endeavour Fellows on return to Australia will be granted two-year ARC or NHMRC fellowships. University closing date is September 21.
- Bede Morris Fellowship** (Rhone Poulenc Fellow) will provide travel to France and a grant-in-aid for living and travelling costs for up to six weeks for collaboration with host scientists in any field of natural science, basic and applied, or in a field which embraces cultural aspects of science. University closing date is July 20.
- Japan Society for the Promotion of Science Postdoctoral Fellowships** in Japan. This is a one year postdoctoral fellowship to conduct research in Japanese institutions in any field of natural science, non-clinical medicine

and engineering. Only applicants under the age of 35 will be accepted and they must hold a PhD or have submitted a thesis. University closing date is October 19.

- Scientific Exchange with the UK**  
The Academy of Science with the Royal Society of London operate an exchange program to support collaborative research. Short-term visits in the fields of natural science, basic and applied, including engineering science will be considered. University closing date is June 22.
- Scientific Exchange with Japan**  
(1 July 1991 - 30 June 1992)  
The Academy of Science with the Japan Society for the Promotion of Science operate an exchange program to support collaborative research. Short term (six weeks) or long term (six to 12 months) visits to carry out projects in the fields of natural science, basic and applied, including engineering will be considered. University closing date is August 17.
- Scientific Exchange with China**  
(1 July 1991 - 30 June 1992)  
The Academy of Science with the Chinese Academy of Sciences (Academia Sinica) operate an exchange program to support collaborative research. Proposals must focus on visits to Academia Sinica institutes. Short term (three to six weeks) or long term visits in the fields of natural science, basic and applied will be considered. University closing date is November 23.

### Harkness Fellowships

Applications are invited for the Harkness Fellowships tenable for between 12 and 21 months study and travel in the United States. Candidacy is open to men and women in any profession or field of study who are over the age of 21 and Australian citizens.

Applications close with the University on August 31.

### Rothmans Fellowships

Applications are invited for Rothmans Fellowships awarded to enable Fellows to undertake postdoctoral research within an Australian University. The Fellowships, valued at \$34,000, are awarded initially for one year and may be renewed for a second year. The Fellowships are open to graduates and must be taken up before the fellow attains the age of 30.

Applications close with the University on June 15.

## Previously Advertised Closing Date

Law Foundation of NSW

General Grants	May 17
AWRAC	May 17
National Teaching Company Scheme	May 17
National Heart Foundation	May 17
Multiple Sclerosis Grants & Fellowships	May 17
Australian Institute of Jewish Affairs	May 18
Humanities Travel Grants	June 16
Ramaciotti Grants	June 16
Selby Fellowships	June 16
Boden Research Conferences	June 17
Law Foundation of NSW Travelling Fellowships	July 15
Elizabeth White Research Conferences	July 17

## The Friends

### Book launch: *History of Italians in the Illawarra*

After considerable revision and editing, by Dr Winifred Mitchell, the book entitled *The History of Italians in the Illawarra* has at last been published.

Thanks must go also to Kurunda Publications in Sydney, and in particular to Mr Pino Bosi, for agreeing to publish the book, and also to Mr Efrem Bonacina for all his hard work and enthusiasm towards the project.

The book will be launched at a special dinner to be held at the Fraternity Club in Fairy Meadow on **Thursday May 17**. Dinner will be served at 7 pm (at a cost of \$15 a head for a three-course meal) and the official launch of the book will take place at 8.30 pm.

If you would like to attend the dinner and launch, please send your request for tickets with your cheque (made payable to Italian Social Welfare) to the Friends of the University of Wollongong, PO Box 1144, Wollongong NSW 2500, by Friday May 11 if possible.

Copies of the book will be available at the launch at a cost of \$20 each.

### Friday May 18

The Annual General Meeting of the Friends of The University of Wollongong Ltd will be held on Friday May 18 at 5 pm in the University Union Board Room (first floor).

All members of the Friends (and there are over 1100) are welcome to attend. The agenda, accounts and annual report have recently been sent to all members.

## Staff Roundup

### Superannuation

A REPRESENTATIVE from the State Authorities Superannuation Board will visit the University of Tuesday May 22 to speak to prospective and existing members who have questions about superannuation. The talk will be held in meeting room 303 from 9 to 9.30 am.

Contact Barbara Smith, ext. 3930 with any queries.

### Counselling Service

ADDITIONAL staff members have been appointed to the University Counselling Service. The following staff are available to assist students and staff:

Dr Greg Hampton (Senior Counsellor) and Ms Maxine Lacey (Counsellor) are available to see University staff and students from Monday to Friday. Ms Desiree Innes (Trainee Counsellor) is also available on Monday.

Ms Dawn Peacock (Counsellor) is available on Tuesday and Dr Anthony Chan (Counsellor) is available on Wednesday, Thursday and Friday to assist International Students with personal problems.

Ms Diana Wong (Overseas Student Adviser) is available to assist International Students with welfare problems from Monday to Friday.

The Counselling Service also co-ordinates orientation programs for new students which take place at the beginning of each session. A range of personal development programs is provided in areas such as assertiveness training and stress management. Networks are organised for disadvantaged students and various facilities for disabled students are co-ordinated through the Counselling Service.

The counsellors are generally available between 9 am and 5 pm, however evening appointments can be arranged. Appointments can be made by telephoning Gayle Ford, ext. 3445, 3446, 3447, or by calling in at the Counselling Service, located on the 1st floor, University Arcade, Union Building.

### Illawarra Committee for Overseas Students

THE ICOS office has been relocated in the Union Building next to the Counselling Centre. Office hours are Tuesday, Thursday and Friday from 9 am to 2 pm. Tel. 27 0158 or ext. 3158.

## May Graduation Ceremonies

*Speakers this week will be:*

**Tuesday May 8, 2.30 pm, Arts**, except for Creative Arts  
*Professor Sol Encel*, recently retired Professor of Sociology at the University of New South Wales

**Wednesday May 9, 9.45 am, Commerce**  
*Mr J. Kranenburg*, Managing Director, Nortel Australia Pty Ltd

**Wednesday May 9, 2.30 pm, Health and Behavioural Sciences and Science**

*Professor Howard Worner*, CBE, Director, Microwave and Materials Institute

**Thursday May 10, 9.45 am Creative Arts, Engineering and Informatics**  
*Professor R. Potts*, Professor of Applied Mathematics, University of Adelaide

**Friday May 11, 9.45 am, Education**

*Dr Brian Gillett*, recently retired Deputy Director-General of Education in New South Wales

### What's on

#### the art of lunch

Thursday 12.35 - 1.25 pm during Session, Music Auditorium, School of Creative Arts, University of Wollongong. Entry to Auditorium through Performance Space Foyer.

**May 10**

The SCAW Ensemble conducted by Andrew Ford in a workshop presentation of pieces by Julia Akerholt, David Chisholm and other student composers.

**May 17**

Creative writing lecturer Ron Pretty reads from new works written during his recent sojourns in the United States and Europe.

**May 24**

Relax to some show numbers presented by Music Theatre students.

**May 31**

Dutch sculptor and performance artist José Aerts presents *How Low Can You Go?*

**June 6**

Direct from the Adelaide Festival of Arts! ... our favourite fringe-dwellers *Short Back and Sides*

Enquiries: 042-27 0987 or 042-29 7518

Parking: enter by Western Entrance, Northfields Avenue; Admission: free; Design: Richard Hook; Convenor: Wayne Dixon

### Big fish eat little fish

*artwork on the environment*

The Long Gallery only to May 20, Monday to Friday 9.30 am to 4 pm, Sundays 1.30 pm to 4 pm. Admission free.

### Newsflash

A NEW monthly discussion group for women, to be called the **Women's Issues Group**, will hold its first meeting on Tuesday May 22 at 7 pm in the Kemira Room, Union Building. Issues will be informative and frivolous.

The early part of the evening will be devoted to topical issues with invited speakers and a question and answer session. This will be followed by a short break, with a cup of tea or a glass of wine and a raffle.

In the second part of the evening there will be a demonstration or talk on some light-hearted issue, either fashion or craft.

It is anticipated that there will be a cover charge of approximately \$2.

All are welcome – and bring your friends. We hope the group will be a great success. Full details will be published in next week's issue of *Campus News*.

Further information from Moira Bowman, tel. 84 3741.



## Seminars

### Department of Accountancy

Seminars are held in room 2001, in the Department of Accountancy, The Social Sciences Building, at 11 am. Anyone who is interested is cordially wel-come. Inquiries to Hai Yap Teoh, Seminar Convener, telephone 27 0625

**Friday May 11:** Associate Professor Gerry Tibbits, *Distress levels in small business*

**Friday May 25:** Ms Mary Kaidonis, *The effect on learning of accounting concepts using a computerised accounting package and support documentation*

### Department of Biology

Seminars are held from 12.30 to 1.30 pm in Building 35, Lecture Theatre G19, on Tuesdays.

**May 8:** Professor Jack Putz, Department of Botany, University of Florida, USA, *Tropical rainforest ecology*

**May 22:** Dr Neil Andrew, NSW Department of Fisheries, Cronulla, *Ecology of subtidal sea urchins on the NSW coast*

**May 29:** Ms Mandy Reid, Department of Biology, The University of Wollongong, *Tentacles, suckers and statistics: taking a look at deepwater squid*

### Department of Business Systems

**Thursday May 24** at 12.30 pm, Kemira Room, Union Building: David Nash, Telecom, *Telecom services and facilities*

### Department of Chemistry

Seminars, except where indicated, are held on Fridays in room 18/206 at 11.30 am.

**May 11:** Graham Johnson, CSIRO Division of Coal Technology, *Photochemical smog*

**May 18:** Dr Richard O'Hair, Department of Chemistry, The University of Wollongong, *Synthesis and reactions of anions in the gas phase*

**June 1:** Michael Manthey, Department of Chemistry, The University of Wollongong, *All you ever wanted to know about 3-hydroxyanthranilic acid, and more!*

### School of Creative Arts

Postgraduate series

Seminars, which are held in the Music Auditorium, Building 24, from 4.30 to 6.30 pm, are open to the public and admission is free.

**Thursday May 31:** *Crossing genres*, Joanne Burns, artist in residence in the School of Creative Arts, is an author working in the

blurred area between fiction and poetry. She will discuss her own work in experimental genres and their relevance to issues of gender

Inquiries to Dr Andrew Schultz, Director, Postgraduate Studies, School of Creative Arts (042) 27 0985

### Department of Economics

Seminars are held on Thursday, from 11.30 am to 12.30 pm in room 19.1056.

**May 10:** Raja Junankar, Australian National University, *Long-term unemployment in Australia*

**May 24:** M.A. Taslim, University of New England, *Threat of eviction and cropshare tenancy*

### Education Policy Program

Seminars are held in the School of Policy and Technology Lab (21.101).

**Friday May 18** at 12.30 pm: Dr Barry Harper, *Statistics for the masses – introduction to new statistical packages*

Inquiries to Ian Brown – Co-ordinator, ext. 3590

### Department of Electrical and Computer Engineering

**Monday May 14**, room 35G45: from 12.35 to 1 pm, Mr Y.K. Yang, *Efficient adaptive algorithms*; 1 pm to 1.25 pm, Mr B. Ribum, *CELP-based speech coders*

### Department of Geography

Seminars are held in room 19-G027 at 12.30 pm unless otherwise indicated and are open to anyone.

**Wednesday May 9:** Dr Edison Dayal, Department of Geography, The University of Wollongong, *Population growth and agricultural development*

### School of Learning Studies

Seminars are held on Wednesdays at 12.30 pm in room 21.104

**May 16:** Deslea Konza, *The future of disabled adolescents: dreams versus reality*

**May 23:** Philip de Lacey, *A corollary of research: broadening academic and personal experience*

Inquiries to Bill Winsor, Co-ordinator, School of Learning Studies, ext. 3963

### Department of Materials Engineering

Seminars to be held jointly with the Wollongong University Student Chapter of the Metallurgical Society on Tuesdays from 4.30 to 5.30 pm in Room 1.134 (unless otherwise specified).

**May 8:** Prof. K. Entwistle (Manchester University, UK), *Deformation of ceramics*

**May 22 :** Dr G. Delamore (UW), *Rapid solidification*

**June 5:** Dr R. Hutchings (ANSTO), *Ion implantation*

Inquiries to Associate Professor D. Dunne 27 0014

### Department of Mathematics

**Tuesday May 8** at 12.30 pm in room 14 (Lecture Theatre): Professor Neville de Mestre, Department of Information Technology, Bond University, *Hands-on mathematical models*

**Friday May 11** at 12.30 pm in room 15.204 (Austin Keane Building): Professor Joe Gani, Department of Statistics, The Faculties, Australian National University, *Carrier models for epidemics*

### New Literatures Research Centre

**Friday May 11** at 2.30 pm in Building 19: room 1083: Sue Gillett will give a paper on *Searching for Father Time: Memory and the Uncertainty Principle in Janette Turner-Hospital's 'Charades'*. All welcome.

**Friday May 25** at 2.30 pm in Building 19, room 1083: Robert Yeo, Singapore poet/playwright will give a paper on *English Language Theatre in Singapore*. All welcome.

### Department of Public Health and Nutrition

Seminars are held in 5.G03 between 12.30 and 1.30 pm on the dates given. Anyone who is interested is cordially invited.

**Tuesday June 5:** Mr Eric Meadows *The international market*

Inquiries to Ms Linda Tapsell, Lecturer, Department of Public Health and Nutrition (042) 27 0152 or ext. 3152.

### Department of Psychology

Staff and postgraduate series

Seminars are held on Tuesdays from 12.30 to 1.30 pm in the Department of Psychology, room 19/1056.

**May 8:** Dr Mark Anshel, Department of Human Movement Science, The University of Wollongong, *Coping with acute stress*

**May 15:** Dr Steve Avons, Department of Psychology, The University of Wollongong, *Phonological re-coding in reading*

## Advertisements

### ACCOMMODATION AVAILABLE

West Wollongong, approx. 2.5 km from University on bus route. Large two bedroom flat, \$115 a week; large one bedroom flat \$85 a week. Tel. 28 6774 evenings.

### FOR SALE

Gemini '83 manual sedan, vg condition, nine months reg. \$5,600 ono. Tel. Ellie 27 0744 or 84 0746.

### WANTED

Duplo and Lego. Please tel. Roger ext. 3439 or Anna 28 7913.