



10 April 1990

# University Day *what is it?*

**Previously designated Anniversary Day, University Day commemorates the establishment in 1961 of the University as a College of the University of New South Wales**

IN FORMAL TERMS, Wollongong University College was constituted by resolution of the Council of the University of New South Wales on 8 May 1961, making the University some 27 years old.

In recognition of this historical link, University Day will be held this year on Monday May 7, rather than in August as in the past. In future years it will be celebrated on the Monday nearest to May 8.

## Events

A highlight, as usual, will be a public address by a notable speaker on a topic of current concern – this year the speaker will be Professor Clem Lloyd, Foundation Professor of Journalism at The University of Wollongong. Professor Lloyd is well known for his widely acclaimed book *Kerr's Kinghit*. The title of his lecture will be *Elections, Politicians and Journalists*.

A range of other events is also being organised to make University Day a truly campus-wide celebration involving both students and staff. The events include a lunch-time performance by the Creative

Arts student jazz band, a day-long student art exhibition in the Long Gallery, and lunchtime Tae Kwon Do and aerobics displays by the Recreation and Sports Association.

There will be lunchtime staff-student volleyball and tug-of-war competitions and free circuit classes in the gymnasium. The annual Summit Run to Mt. Keira will also be held during the day.

The public lecture in the evening (Music Auditorium) will be preceded by the 25-year Staff Awards and the presentation of the annual Ethel Hayton Trophy to an academic staff member who has made a notable contribution to community activity.

Anyone wishing to attend the public lecture in the evening is requested to ring Antoinette Matarranz (042) 27 0933 before Wednesday May 2.

Musical interludes will be provided by music students directed by David Vance and Andrew Schultz. The address will be followed by a wine-and-cheese supper in the Long Gallery.

## University Forum – Graduate Schools

**Pentagon Lecture Theatre No 1 at 12.30 pm, Tuesday April 24**

A DRAFT PROPOSAL for the formation of Graduate Schools within the University has been circulated to Deans and Heads of Units, and has been made widely available to those who want to take part in the discussion and shape University thinking.

The paper was first circulated at a recent meeting of the Academic Senate. As promised then, arrangements have now been made for a University-wide Forum. It will be held in

Pentagon Lecture Theatre No 1 at 12.30 pm on Tuesday April 24.

There may be time to discuss other matters but the principal topic of discussion will be a presentation of the proposal for Graduate Schools by myself and the Deputy Vice-Chancellor, Professor Chubb, followed by discussion of aspects of the proposal of most interest to those attending the Forum.

All members of the University community are welcome.

K.R. McKinnon  
Vice-Chancellor

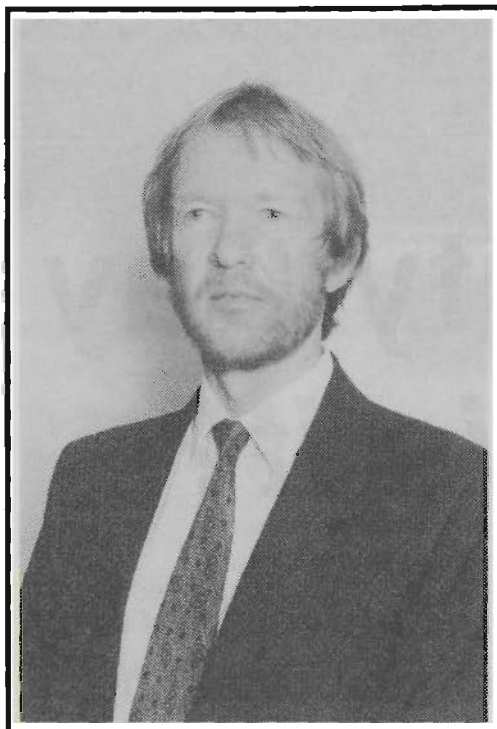


# Graduate School of Health and Medical Sciences – new Head

DR PHILIP BARTER has accepted appointments as Professor of Preventative Cardiology and as Head of the Graduate School of Health and Medical Sciences in the Faculty of Health and Behavioural Sciences in The University of Wollongong. Professor Barter will take up the appointments in January 1991.

Dr Barter was born in Adelaide. His qualifications are: MB BS (1964) Adelaide, PhD (1972) ANU, MRACP (1969), FRACP (1977). Appointments were held at the Universities of Iowa, California and Washington. From 1974 to 1986 he was at the Medical School of Flinders University as a Senior Lecturer, then Reader. In 1986 he was appointed Deputy Director of the Baker Medical Research Institute in Melbourne, a position he holds today.

Dr Barter has been a member of many committees of the National Health and Medical Research Council of Australia and the National Heart Foundation of Australia, and is currently Chairman of the Heart Foundation's National Medical and Scientific Advisory Committee.



Dr Philip Barter, here in 1991

Extensive research grants have been received and research publications have appeared in Australian and international journals.

## University helps...

### *Macedonian theatre group to tread the boards of home*

IN RECOGNITION of its achievements – as well as to help with its expenses – the Macedonian Theatre of Illawarra has been presented with a cheque for

\$5000 by the University. The presentation was made by Pro-Vice-Chancellor, Professor Lauchlan Chipman on March 27.

Thanks to the result of a steelworks compensation hearing, the local Macedonian actors are to return to their homeland to take part in the Annual Macedonian Theatre Festival. The company was invited after its play, *I Cole Praj Kompo* (Conqueror Cole) won critical acclaim for its portrayal of a Port Kembla steelworks compensation battle.

The play was the last to be written by (Bill) Neskovski before he lost to a long battle with lymphoma in November last year.

The Wollongong-based theatre company will be the first from outside Europe to perform at the festival.

The University's contribution will not meet the full cost of the exercise. The crew of eight, as these words are being written, needs a further \$7,000...

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The first of the fund-raising activities planned to help bridge the shortfall will be held on the *Merinda* on April 20. The group will also hold a literature event at the Bridge Theatre on April 22 and a Masquerade Ball at the Master Builders Club, Wollongong, on April 28.

For further information on this exciting venture call Olga Nikolovska on 74 0783.

## The Friends

### *Forthcoming events*

#### Monday May 7

*University Day Address and presentation of the Ethel Hayton Trophy*  
Award to the individual who, or group which, has contributed most to the development of University/community relations in 1989.

Nominations for the 1989 award include Mr Glen Moore, for his work in setting up the Science Centre; Professor Howard Worner, for his research using microwave technology; Ms Tracey McDonald and the School of Nursing Studies, for their organisation of Senior Citizens' Day; and Professor Leon Kane-Maguire, and the Open Day Committee for their organisation of the 1989 Open Day.

#### 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 will be sent to all members in the near future.

### Graduation Ball

*May 11, Union Hall, 7 pm*

GRADUANDS seeking to make up a party for The University Wollongong Union Graduation Ball are asked to bring the tickets for their group to the Union Office, or a list of names of people wishing to sit together, from Tuesday April 10. The seating plan will be finalised at noon on Monday May 7.



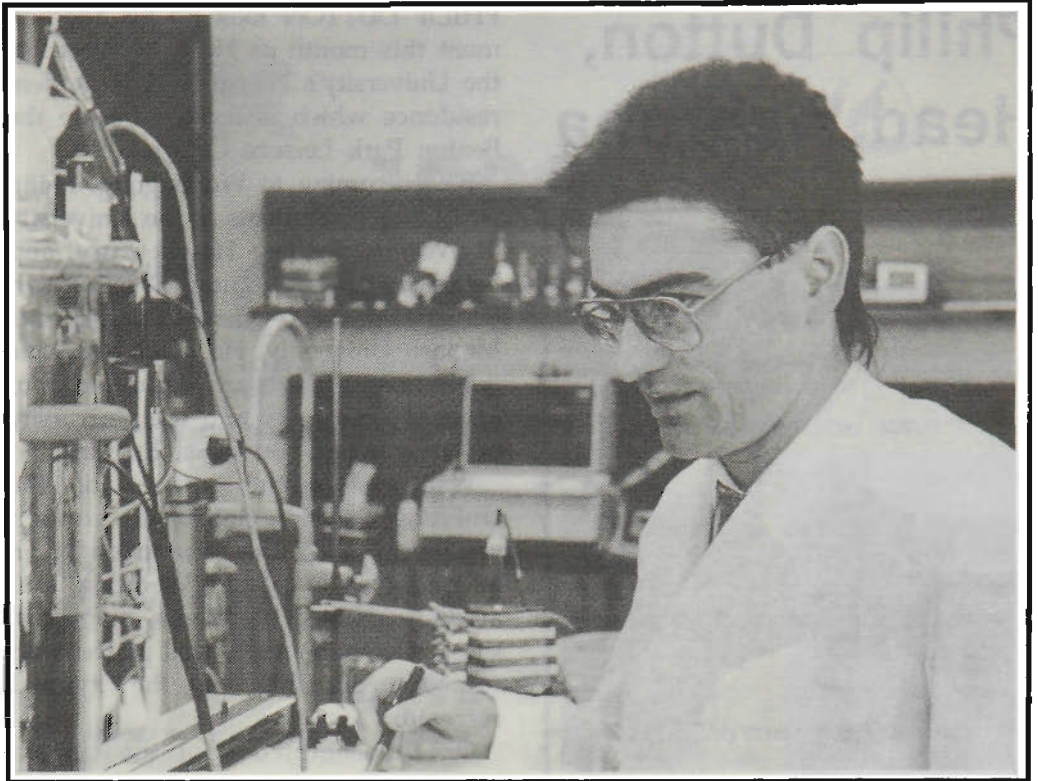
## 'Instant' test for beach pollution feasible in 12 months

DR GORDON WALLACE, at The University of Wollongong, said on March 30 that Environment Minister Mr Tim Moore was to be congratulated for initiating a hunt for a new test to give a quick pollution reading of Sydney's beaches, and for his call for funds for research even if this research is in the 'high risk' category.

Mr Moore pointed out on March 21 that, using present technology, it takes 24 hours to get a result from samples taken from Sydney's surf beaches. 'It is simply not good enough to tell swimmers today that the beach they swam on yesterday was dangerously polluted. There is currently no test which can tell today what bacteria or viruses are lurking in the surf today,' he said.

However, as a result of Dr Wallace's pioneering work on 'intelligent materials' such a test is in fact very close to reality.

Dr Wallace is the director of Polymer Systems Technology - a company formed at The University of Wollongong to ex-



Dr Gordon Wallace: his 'intelligent materials' bring quick testing very much closer

plore the commercial possibilities of 'intelligent materials' - materials that can detect and respond to changes in the environment.

Polymer Systems Technology is developing new, much improved, chemical and biological monitoring devices that can detect instantly pollutants in the air and water. For example, a range of simple, hand-held sensors suitable for the detec-

tion in water of heavy metal pollutants such as cadmium, lead, and mercury have already been developed.

'We have the basic technology' said Dr Wallace, 'we just need funds and co-operation from government agencies to translate this technology and to design and manufacture appropriate equipment. Given sufficient funds the whole process should take about 12 months.'

### Update on environmental monitoring techniques

AN INTENSIVE short course to provide an update on advances in environmental monitoring techniques will be held from April 17 to 20.

The course will highlight the analytical tools available to solve complex environmental monitoring problems of concern to industry and government.

Lecturers from industry and government will present case studies and an insight will be provided into the most accurate, rapid and cost-efficient techniques available for solving environmental monitoring problems. The course will be of great interest to managers and practitioners involved in environmental monitoring.

Co-ordinated by Polymer Systems Technology (see above), the company formed at The University of Wollongong, the course will explore the commercial possibilities offered by the

University's pioneering research into 'intelligent materials'.

A reduction in the cost of the course may be available for non-profit conservation organisations.

For registration details contact Margaret Prendergast (042) 26 8822.

### Graduate recruitment

THE DEPARTMENT of Foreign Affairs and Trade is seeking applicants for its proposed 1991 intake of about 25 graduate recruits.

As part of the recruitment campaign, Departmental officers are visiting The University of Wollongong today to explain the role and work of the Department and to outline the opportunities available for potential recruits.

The minimum academic requirement graduate entry is a three-year degree or a three-year diploma from a recognised tertiary institution. Applications are accepted from final year students. While

the level of achievement and skills are more important than the subjects studied, qualifications in economics, commerce, law, Asian studies or public administration would be an advantage. Knowledge of a modern Asian or European language is desirable. The sessions are of particular interest to Aborigines and Torres Strait Islanders.

### ITC Uniadvice Limited

#### Short courses

Short Course on Flood Hydrology for Detention Basins, June 12 - 15, at The University of Wollongong; numbers 30 to 40.

First Australasian Native Orchid Conference and Show, September 27 - 30, at The University of Wollongong; numbers 200 plus.

For information contact Margaret Prendergast, (042) 27 0076.



# Philip Dutton, Head, Weerona



Philip Dutton outside the new facade of the student residence, Weerona

PHILIP DUTTON took up his appointment this month as Head of Weerona, the University's collegiate-style student residence which is located beside the Beaton Park Leisure Centre.

Before coming to Wollongong, Philip was Dean of Students at the University of Western Sydney Hawkesbury, and before that he was Tutor, Deputy Warden and Acting Warden at Roberts Hall, Monash University. He holds academic qualifications in arts and education from Monash University and the University of Newcastle-Upon-Tyne, England.

Weerona is the second of the University's collegiate-style student residences. With the completion of an additional 100 places Weerona will accommodate 200 students, mainly in single rooms, on a site well placed with respect to the University, the city, and recreation facilities.

On the completion of the current building program in the middle of this year, the University will have some 850 residential places available in two collegiate-style halls, and a variety of non-collegiate, self-catering group-living accommodation on and off campus, now all linked to the main campus by a University bus service.

the movement has moved away from static displays of artifacts, via push-button-operated scale models on to fully interactive displays. A Moebius strip, and other ruggedized exhibits such as a giant double-cone which rolls uphill, and a ventriloquist statue of Isis located in gardens surrounding the museum give a new meaning to the term science park.

The first year students holding Department of Physics Scholarships in 1990 are Richard Baker and Malcolm Roberts. Staff Prizes for the best students in each year in 1989 were awarded to Alexander Beck (First Year), Martin Carolan and Peter Maguire (Second Year) and Tania Silver (Honours Year). Congratulations to all these students.

Dr R.A. Lewis

## Student expelled for book plagiarism

MEMBERS of the University community will have been disturbed to read (SMH for March 22) of the expulsion of a student from Flinders University for plagiarism. The case is believed to be one of only a few of its kind in Australia.

The university said the student presented as her own work a tutorial paper which had been 'very largely copied from a book chapter'.

She had not listed the chapter in the bibliography for the paper, had not acknowledged extensive quotations from the chapter, and had also inserted *bogus references* in the tutorial paper.

The student is believed to have been in about the fourth year of a social sciences course when her deception was detected.

The university has revealed the case in a warning to other students, and to other universities, because it believes such practices could be escaping attention on campuses.

The academic registrar at Flinders, Mr A.C. McAndrew, warned students that plagiarism, whether from a publication or another student's work, was regarded as serious misconduct and was likely to result in a significant penalty.

The student the university had expelled had been *quite blatant*, he said.

Cheating at exams has led to the expulsion of students at a number of Australian universities, but cases of plagiarism where expulsion has been the result are almost unknown.

## Indian Science Centres and Physics prizes

A SUBJECT of local nescience was illuminated, and some outstanding physics students were recognised, on the evening of Thursday March 29; the former by S.K. Bagchi (Director, Birla Industrial and Technological Museum) and R.M. Chakraborti (Director, Nehru Science Centre); the latter by P. Fisher (Professor and Head of Physics).

A special emphasis on biological interactive displays, often under-represented in science museums, was a feature of the workshop organised by the National Science and Technology Centre (Questacon) which brought Shri Bagchi and Shri Chakraborti to Australia. One biological exhibit described by the visitors was a snake pit - although in this case the hands-on experiences were restricted to the staff, and not available to the public. While in Wollongong the visitors were shown the Science Centre

at Campus East by Glen Moore and were greatly impressed with what they saw.

India pursues a vigorous and well-organised science centre program. One centre, for example, boasts 180 permanent staff. There are three national, one regional and four district science centres, with many more under construction or planned. These bases are supplemented by 18 buses carrying mobile exhibits. Other strands of the program are after-school creative activity hobby centres, *Quest* TV segments, science drama and science poetry productions and a national Science Day (February 28 in honour of C.V. Raman) which includes a science march.

Most of the funding comes from central and state governments with only about five per cent provided by entrance charges. In India, as elsewhere,

# Co-operative Education Program

DR BRIAN GILLETT and Ron Robertson have been establishing the Co-operative Education Program. In March they met positive responses to their initiatives in meetings with representatives of Kembla Coal & Coke, Illawarra Electricity and David Brown Gear Industries. Meetings have been fixed in April with employers who responded to the Program's initial promotion. A second mailing increased to 150 the number of firms which have received information about the Program. Meetings with faculties, departments and academics in March were productive with a high degree of support shown for the Program.

Brian Gillett attended a Co-operative Education Seminar in Melbourne (ACES conference) and addressed the Careers Advisers Seminar at The University of Wollongong on March 26, when the Program's promotion aimed at secondary school students started. He met the Wollongong Law Society to discuss the Program and the new Faculty of Law. The meeting was addressed by the Vice-Chancellor, Dr Brian Gillett, Prof Jack Goldring and Prof Helen Gamble.

## Books and Reading

Another publication from University of Wollongong Press

### **Reinforced Concrete Analysis and Design with emphasis on the application of AS3600 - 1988**

THIS WORK is written to fill the dual role of a textbook for the student of reinforced concrete analysis and design, and a reference for the practitioner wanting to master the use of the new Australian Standard AS3600-1988.

In addition to detailed treatments of the topics of beam bending, deflection, transverse and longitudinal shear, torsion, stress development and columns, there is an extended chapter covering most of the practical aspects of analysis and design of one-way and two-way slabs as well as multi-storey flat plates. There are over 170 carefully prepared



# 1990 IBM Conservation Award

*A joint initiative of IBM Australia Limited and Taronga Zoo  
(of the Zoological Parks Board of New South Wales)*

## Submissions are invited for the 1990 IBM Conservation Award

### Objectives of the Award

The objectives of the Award are:

- to recognise excellence for achievement in any field of endeavour resulting in the advancement of conservation of our natural environment;
- to promote greater public awareness of the breadth of current activity in this area and to stimulate further work in these areas.

### Scope of the Award

Nominations for the Award should conform with the following criteria:

- Represent the results of work undertaken in the past five years.
- Demonstrate substantial and long lasting benefit to the conservation of the natural environment.
- Have a primary focus on Australia, Papua New Guinea or the Antarctic.

- Represent activity in one of the following fields of endeavour
  - ★ *Scientific research*
  - ★ *Application of technology to environmental issues*
  - ★ *Public education programs in environmental conservation*
  - ★ *Development of relevant public policy*
  - ★ *Community programs encouraging environmental conservation*

### Eligibility To Nominate

Individuals or teams of individuals from academic institutions, community organisations, private sector organisations, statutory bodies, research and science centres, school systems and individual schools, and members of the general public.

### The Award

The 1990 winner(s) of the IBM Conservation Award will receive A\$35,000. Five additional prizes of A\$1,000 each may also be awarded.

### Selection Process

Nominations should be submitted no later than 1 June 1990. An adjudicating panel will be chaired by Sir Ninian Stephen. Announcement of the Award winner(s) will be made in September.

### Nominations

Should be addressed to the Chairman, 1990 IBM Conservation Award Review Committee, Taronga Zoo, PO Box 20, MOSMAN NSW 2088.

### Further Information

Contact 1990 IBM Conservation Award Secretariat

<p><b>IBM Australia Ltd</b> PO Box 400 • PENNANT HILLS • NSW 2120 Phone: (02) 634 8139 • Attention: Ms Di Berry</p>	<p><b>Taronga Zoo</b> PO Box 20 • MOSMAN • NSW 2088 Phone: (02) 969 2777 • Attention: Dr D Woodside</p>
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drawings and 20 tables of information to help make the text readily comprehensible. Illustrative and design examples are scattered through the book to assist readers with their learning process, and with interpretation of the important new Australian Standard recommendations. The tutorial problems and examination papers (separate solution manual) are particularly instructive.

Footnote: Associate Professor Yew-Chaye Loo is an Associate Professor in the Department of Civil and Mining Engineering at The University of Wollongong. He obtained his PhD degree in 1972 from Dundee University, Scotland, is a Fellow of the Institution of Engineers, Australia, the Institution of Structural Engineers, UK, and a Mem-

ber of the Institution of Civil Engineers, UK. In addition to publishing widely on concrete structures, he is the senior author of the book entitled *The Finite Strip Method in Bridge Engineering*.

### **Illawarra Committee for Overseas Students**

ICOS has organised a coach trip to Fitzroy Falls and Pelican Sheep Station (Goulburn) on Saturday May 5. The cost: \$12 for non-sponsored students, \$6 for sponsored students and \$3 for children (4 to 12 years).

Details and tickets are available from the ICOS desk, Administration Building, Tuesday, Thursday and Friday, 9.30 am to 2 pm. Tel. 270158 or ext. 3158.

The ICOS office will be closed during the Easter break (April 13 to 22).

## 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 Post-graduate Studies

## Grants

### National Multiple Sclerosis Society of Australia

The National Multiple Sclerosis Society invites applications for Project Grants, Fellowships, Seeding Grants and Post-graduate Research Scholarships. Applications for grants and fellowships close with the University on May 17; and applications for scholarships close with the University on August 17.

### Australian Academy of the Humanities Travel Grants

Five (\$A3000) grants-in-aid are being offered for short-term study abroad during 1990-91 to scholars resident in Australia and engaged in teaching and research in the field of Humanities. Limited funds are also available in 1990 to assist publication of scholarly work. Applications close with the University on June 16.

### Clive and Vera Ramaciotti Foundations

Applications are invited for grants available in 1991 from institutions undertaking specific projects in medical research and from individuals conducting medical research within a university, public hospital or other appropriate institution. The Foundations will be used to promote work of quality in research particularly in new fields. Projects of special merit in the field of education in medicine may also be considered. Applications close with the University on June 16.

## Scholarships, Fellowships, Prizes

### Amic Student Medal

The Australian Mining Industry Council invites applicants for the above medal

and a cash prize of \$500 for a written paper on environmental management related to mining.

Applications close on May 31.

### Selby Fellowships

The Australian Academy of Science invites applications for fellowships available for distinguished overseas scientists to visit Australia for public lecture/seminar tours and to visit scientific centres in Australia. Fellowships are tenable for visits of not less than two weeks and not more than three months.

Applications close with the University on June 16.

### Boden Research Conferences

The Australian Academy of Science invites proposals for The Boden Research Conferences held in Thredbo in the first week of February each year. The Boden Conferences are small specialist research conferences in the biological sciences with a membership of 20-30, and of two days duration.

Applications close with the University on June 17.

### CSIRO 1991 Postdoctoral Awards

The Commonwealth Scientific and Research Organisation invites applications from PhD graduates or those nearing the completion of the requirements for a PhD degree, for Postdoctoral Awards of two years' duration. In the second year of the award the recipient will be required to work on an approved joint research project with CSIRO.

Applications close with the University on September 7.

### Elizabeth and Frederick White Research Conferences

The Academy of Science has established a series of research conferences in the physical and mathematical sciences related to the solid earth, the terrestrial oceans, the earth's atmosphere, solar-terrestrial science, space sciences and astronomy. Participation of overseas scientists are encouraged. A sum of up to \$5,000 for each conference is allocated and supplementation from other sources is encouraged.

Proposals for 1990 close with the University on July 17.

## Distinguished scientist from Poland

Distinguished Polish scientist, Professor Robert Galazka, of the Institute of Physics, Polish Academy of Sciences, Warsaw, is visiting the Department of Physics for two weeks from April 9. As well as having discussions with individual researchers, he will present a colloquium, *Interdependence of electronic and magnetic subsystems in semimagnetic semiconductors* on Thursday April 12 in Room 18.118 at 12.30 pm.

In semimagnetic semiconductors (SMSC) band electrons and impurity states are strongly influenced by exchange interaction between carriers and localised magnetic ions. From the other side, the magnetic properties of the crystal also depend on the electronic band structure and carrier concentration. The influence of exchange interaction on the band structure and acceptor states of SMSC will be reviewed. The influence of band structure and carrier concentration on the magnetic phase diagrams of SMSC will be discussed.

For further information contact Dr R.A. Lewis, Convener, ext. 3518.

## Dean of Faculty of Arts to visit Japan

AUSTRALIAN JAPAN FOUNDATION has invited Professor Jim Hagan to give a series of lectures at Japanese universities from April 17 to 29.

His itinerary includes visits to Nanzan University; the Faculty of English and American Literature, Osaka Chiyoda Junior College, Osaka University; Lecturer at National Education Centre as one of Australian Lecture Series by Australian Embassy, Tokyo.

Previously Advertised	Closing Date
Rudi Lemberg Travelling Fellowship	April 16
Bilateral Science and Technology	April 17
AWRAC	May 17
National Heart Foundation	May 17



## Staff Roundup



### Casual pay variations

ANZAC DAY, April 25, is the Wednesday before pay day. In order to have casual pay prepared on time, deadlines by which all information must reach the Pay Office have been brought forward one day.

Part-time teaching returns must be received by noon on Friday April 20 and the casual timesheets by noon on Monday April 23.

### Vacancies

Closing dates for applications are indicated in italics.

Professor of Telecommunications Engineering, reference AC 90-11, *April 27*

Lecturer in Australian History - Limited Term - five years (convertible), reference AC 90-12, *April 27*

Lecturer in Politics - Continuing Appointment or Limited Term - five years (convertible), reference AC 90-13, *April 27*

Lecturer in Screen/Cultural Studies - Continuing Appointment or Limited Term - 5 years (convertible), reference AC 90-14, *April 27*

Associate Professor in School of Policy and Technology Studies - Continuing Appointment, Reference AC 90-15, *April 27*

Teaching Fellow in Biology - Contract up to four years, reference AC 90-16, *April 20*

Senior Lecturer or Lecturer in Medical Anthropology and Health Social Sciences/Health Policy - Continuing Appointment or Limited Term - five years (convertible), reference AC 90-17, *April 27*

Research Fellow in Centre for Multicultural Studies - Contract Appointment - four years, reference AC 90-18, *April 27*

Further details from Ross Walker, ext 3934.

### Need child care?

UNIVERSITY home-based care is a new service, established for children of targeted students attending The University of Wollongong.

The service is an extension of the existing Wollongong University Child Care Centre through funds received from a Federal Government grant from the Department of Employment, Education and Training.

Reliable caregivers look after up to five children including their own from birth to school age in their own homes.

University Home-Based Care provides:

- \* full-time care, Monday to Friday
- \* regular, part-time care
- \* before- and after-school care
- \* holiday care
- \* emergency care

The 20 new child-care places are reserved for the children of students involved in:

- \* University preparation courses
- \* special admissions programs
- \* Summer Session bridging courses as well as those of targeted groups:
- \* Aboriginal students, and
- \* needy students identified by support personnel

If this applies to you and you want to know more, talk to Trudy or Lorraine at Kids' Uni, or telephone 27 0072.

## What's on

### Ten Years Live Theatre in the Illawarra

The first professional theatre in the Illawarra Region began life in the Technical College Auditorium in 1980. This year, Theatre South celebrates its 10th anniversary season in its own theatre in Coniston - the Bridge. In those ten years it has performed in the old Town Hall, in several clubs, at the University, in a tent in McCabe Park and in schools all over the region.

Theatre South has given opportunities and employment to a host of local actors, writers and technicians from the region as well as bringing to the Illawarra distinguished artists from the rest of the nation.

Highlights of the 1990 season include a new play from Wendy Richardson, author of *Windy Gully*, an adaptation of *Tom Jones* repeating the success of the movie of some years ago and three re-

cent Australian hits, *Daylight Saving*, *Down An Alley Filled With Cats* and *After Dinner*. Local actors Faye Montgomery, Jeff Kevin, Lainie Grugan and Frank Gallagher will be joined in the year's casts by distinguished artists John Parmor, Kate Raison (of *A Country Practice*), Julia Moody, Duncan Wass and exciting newcomers like John Adam and Alinta Carroll, recent graduates of NIDA and RADA respectively.

Des Davis, Artistic Director of Theatre South expects 1990 will be the Theatre's most exciting season yet.

Further information from Theatre South (042) 296144.

### 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

Autumn Session

April 12

Aboriginal writers forum

April 26

Musica Troppo (David Vance, piano, Andrew Schultz, clarinet, Nicole St. Ilan, viola, and David Piper, cello) play a program of pleasant prandial pieces.

May 3

Writer-in-residence Joanne Burns joins writing students for a joint presentation of readings.

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.

Enquiries: 042-27 0987 or 042-29 7518

Parking: enter by Western Entrance, Northfields Avenue; Admission: free;

### National artistic treasure

The IBM and the School of Creative Arts present the  
**Australian Youth Orchestra**

Sunday April 22 at 2 pm

The Illawarra Performing

Arts Centre

Tickets: Adults \$16, concession \$12

Tel. 26 3366 for bookings

## 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 welcome. Inquiries to Hai Yap Teoh, Seminar Convener, telephone 27 0625.  
**Friday May 4:** Mr Abey Ariyadasa, *The effect of inflation on the development of accounting thought*

### Department of Biology

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

**April 24:** Dr Chris Dickman, Department of Zoology, University of Sydney, *Diversity of insectivorous mammals and reptiles in the arid zone of Australia: an experimental analysis*

**May 1:** Dr Gordon Wallace, Department of Chemistry, The University of Wollongong, *Biologically active polymers*

### Department of Business Systems

**Thursday April 26** at 12.30 pm, Pentagon 3: Dr Perry Morrison, Department of Mathematics, Statistics and Computer Science, University of New England, *Human-computer interaction: a survey of research directions*

### Department of Chemistry

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

**April 27:** Dr Graham Heath, Research School of Chemistry, ANU – title to be announced

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

### 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.

**April 26:** Maire-Luce Guillaume, Fribourg University, *Measuring the indirect costs of children*

**May 3:** Charles Harvie, The University of Wollongong, *Macroeconomic consequences arising from temporary oil production: a UK experience*

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

### School of Learning Studies

Seminars are held on Wednesdays at 12.30 pm in room 21.104

**April 11:** Brian Cambourne and Jan Turbill, SLIC (Secondary Literacy Inservice Course): *What it is, how it works, the theory base, the evaluation*

**May 2:** Noeline Kyle, Ted Booth, Jan James and Gay Tapp, *You can influence student aspirations: an account of the first year of the Secondary Schools 'Link' Program*

**May 16:** Deslea Konza, *The future of disabled adolescents: dreams versus reality*  
Inquiries to Bill Winser, Co-ordinator, School of Learning Studies, ext. 3963

### Department of Mechanical Engineering

(Note: The University charges a parking fee of \$1 for parking within the University grounds).

**Thursday May 3**, Building 8 Seminar Room at 1.30 pm: Dr P.R. Gibson, Senior Lecturer, Department of Mechanical Engineering, *Quality in manufacturing*

This seminar will cover two main areas of research interest. The first is the application of automated statistical process control and in-cycle gauging to a CNC (Computer Numerical Control) machine tool. This work investigates the use of an integrated touch trigger probing technique and statistical software for automatically monitoring and continuously analysing the capability of a CNC machine tool. This technique has a major impact on the economics of utilising CNC machine tools.

The second area of interest is concerned with the cost-effectiveness of current international quality system standards (e.g. AS 3900/ISO 9000 series). The current strategies employed in Australia and overseas for implementation of Quality Systems will be considered. Proposals for the application of cyber-

netics to quality systems will be discussed with a view to improving systems design and their ability to adapt to a changing business environment.

Inquiries to W.K. Soh, ext. 3059.

### Department of Physics

**Thursday April 12**, Room 18.118 at 12.30 pm: Robert R. Galazka, Institute of Physics, Polish Academy of Sciences, Warsaw, *Interdependence of electronic and magnetic subsystems in semimagnetic semiconductors*. Sponsored by the Department of Physics and the Australian Institute of Physics (NSW Branch).

Details from Dr R.A. Lewis, Convener, ext. 3518.

### Department of Psychology

**Tuesday April 10**, Building 91, Room 1056 from 12.30 to 1.30 pm: Dr Ken Russell, Department of Mathematics, The University of Wollongong, *Putting more statistical power in to your experiment'*

## Advertisements

### FOR SALE

Chrysler Sigma '80, NDS 731 reg to end of May. \$2,450. Tel. ext. 3490.

1982 Holden Jackaroo 4WD. Good condition, reg. no. LYI 202, 11 months registration. \$9,500 ono. Tel. 28 0110 or ext. 3919.

FIAT 131 Super Brava 1983 model, reg. no OXQ 170. Good condition, many extras, NRMA report available. Tel. Greg on ext. 3024 or home 83 4189. \$6,000 ono.

### Furniture

Moving away: ensemble double bed, \$170; table and four chairs, \$130; two-drawer wardrobe, \$90; chest of drawers, \$60. All 11 months old. Eight-drawer desk 6x3 ft, \$160; single bed. Tel. David 27 0785.

### SALE BY TENDER

The University has the following items for sale by tender:

Three only second-hand Macintosh 512K computers with: keyboard, double internal disk drive; external disk drive.

The University offers no guarantee on these items. Terms of sale are cash or bank cheque. Enquiries to Mr P. Dalmazzone (042) 27 0441.

Tenders close 11.30 am on April 12.

Tenders should be placed in a sealed envelope addressed to: Office Services, The University of Wollongong, PO Box 1144, Wollongong 2500 and noted 'Tender for Macintosh 512K computer'.

### SALE BY TENDER

The University has the following item for sale by tender:

10NE 1978 GAF 185.FL Ammonia Plan Printer.

The University offers no guarantee on this item. Terms of sale are by cash or bank cheque. Enquiries to Ms S. Copland (042) 27 0085.

Tenders close 11.30 am on April 12.

Tenders should be placed in a sealed envelope addressed to: Office Services, The University of Wollongong, PO Box 1144, Wollongong 2500 and noted 'Tender for Ammonia Plan Printer'.

### WANTED

Exercise bike. Tel. Viv Roberts, ext. 3391.