

# CAMPUS NEWS

## Ties with the City strengthened

The newly-elected Board of the Friends of the University met for the first time on Friday 25 July, and unanimously elected the Lord Mayor of Wollongong, Ald David Campbell as Chairman.

This appointment serves to consolidate and reinforce the mutually supportive roles of the City and the University.

The other board members are: Mr John Bell (Deputy Chairman), Mr Ken Baumber, Regional Director School Education, Dr Terry Burke, Professor Lauchlan Chipman, Mr Jim Pearce, Mr Keith Phipps and Dr Winifred Ward.

Members also expressed their appreciation of the service of Professor Chipman who had served as Chairman of the Friends as a limited company and who was attending his final meeting as Pro Vice-Chancellor.

He will be replaced on the board by the new Pro Vice-Chancellor, who will be appointed later this month.

The board aims to achieve a greater level of involvement of members in



Lord Mayor of Wollongong, Ald David Campbell

University activities and intends to keep new members informed about the continuing development of the University

and allow them to contribute to it.

The Friends was first registered as company in 1980 and enlisted significant support from local commerce, industry and institutions as well as from public spirited individuals.

Uniadvise was formed as a separate company to develop and place on a commercial basis the research and development activities of the University and it in turn grew to become part of the Illawarra Technology Corporation.

The Bequest and Benefaction Committee of the Friends has now been supplanted by the University of Wollongong Foundation.

The Friends are now able to concentrate on helping members to keep informed of the achievements of the University and share in its pride in those achievements by helping to spread this knowledge and pride widely throughout our community.

This role can be performed more effectively as an association of members than as a public company.

## Changes to parking regulations

The University's Transport and Parking Policy Committee met recently to review the parking situation on campus in the light of experience so far this year and suggestions put forward by staff members over recent weeks.

In the Committee's view the main reason why those holding parking permits are experiencing difficulties in finding parking spaces at certain times of the day and week is the high number of casual or daily permits being sold.

On high usage days up to 1000 casual permits are purchased each day — a much higher figure than the University envisaged when deciding to make daily purchase an option.

To put this in perspective the total number of parking spaces available to all users is 2100.

The problem facing regular permit holders is further compounded by the fact that daily permit holders are entitled to park anywhere on the campus, other than in

reserved spaces, including the 'Red' areas set aside for those who purchase the more expensive regular permits.

The committee will undertake, later in the year, a more complete review of parking on-campus including the provision of additional parking spaces, the appropriate distribution of 'Red' and 'Blue' spaces and whether upper limits should be placed on the total number of permits sold.

It will also be considering what restrictions, if any, should be placed on the sale of daily permits and the more general question of access to the campus by visitors.

In the meantime the committee decided that some immediate action should be taken to address these difficulties and, in particular, to increase the utility of regular parking permits relative to daily permits.

From the beginning of Spring Session on 19 July only those with 'Red' permits will be permitted to park in

*Continued page three*

## 'Australian-Canadian Studies' has Wollongong flavour

The Australian-Canadian Studies Journal Vol. 10, No2, 1992 was released last month.

It is a refereed journal for both the Humanities and Social Sciences.

The editor is Gerry Turcotte in the Department of English at the University. Two of the five featured articles are by University of Wollongong academics.

Dean of the Faculty of Law, Professor John Goldring, contributed an article on 'The Privy Council as a Constitutional Court: Canadian Antecedents of Australian Constitutional Interpretation'.

Associate Professor Dorothy Jones

(Department of English) wrote 'Living the Country: A Woman's Reading'.

Beth Cardier, an artist and freelance journalist studying Creative Writing in the School of Creative Arts, contributed graphics and the publication was printed by the University of Wollongong Printery Services.

For further information contact Sharon Clarke, Department of English.

## More on Canadian Studies

The Canadian High Commission has invited applications for Canadian Studies Awards, specifically for the Canada Australia Bicentennial Research Award, the Faculty Enrichment award and the Faculty Research award.

These awards are open to staff mem-

bers of tertiary institutions. Closing date 31 August.

Application forms have been sent to Sharon Clarke, Department of English.

## Invitation to join

Former University students and staff are invited to become members of the Wollongong Campus Chapter of the University of Wollongong Alumni Association.

Among other activities the Campus Chapter operates the second-hand bookshop and Gallery at Campus East and is involved particularly on Open Day on the last Sunday in August each year.

For further detail please contact Antoinette Matarranz at the Friends Office, third floor in the Union Building or phone 213169.



*Mrs Annette Hoskins from the Department of Nursing received her certificate from Dean of the Faculty of Education, Professor Russell Linke. Looking on are (from left) Dr Max Gillett (Faculty of Education), Ms Liz Ellis (Centre for Staff Development), Mr Larry Blackett (Department of Accountancy), Mr John Panter (Centre for Staff Development) and Ms Kathie Cooper (Department of Accountancy)*

## First 'graduates' from Tertiary Teaching course

Thirteen candidates have successfully completed the first course offered through the University's Centre for Staff Development 'Introduction to Tertiary Teaching'.

This course was set up as part of the University's drive for quality teaching and is available to all full-time and part-time academic and qualified general staff.

It also articulates into the faculty's post-graduate programs in adult education.

The successful participants were: Mrs Janet Moore (Accountancy), Mr Abey. W. Ariyadasa (Accountancy), Mr Ron Perrin (Accountancy), Mr Larry Blackett (Accountancy), Mr Rod Jones (previously Nursing), Dr Xiang Dong Fang (Engineering), Mrs Janice Caldwell (Nursing), Mrs Gillian Gillett (previously Learning Assistance Centre), Associate Professor Garry Tibbitts (Accountancy), Mr Anwarul Islam Chowdhury (Accountancy), Mrs Kathie Cooper (Accountancy), Dr Stephen Little (Business Systems), Mrs Annette Hoskins (Nursing)

Essentially the course deals with teaching strategies – lectures, seminars, tutorials, other small group methods, computer assistance, planning classes (and subjects) and assessing student progress.

It is based on reflective practice and the collection of methods, strategies and ideas for good teaching.

It tries to deal with multiculturalism, equity, gender and exemplary performance issues in university teaching and uses interactive and experiential methods wherever possible.

The principles of adult learning are in operation.

Assessment tasks are set and participants, whether they do the course as a staff development exercise or for academic credit, must perform satisfactorily on these tasks.

Feedback from participants has been exceptionally good. More than half the first group have continued their studies in Education by enrolling in adult education programs where their responses continue to be positive.



# Rats help in polyunsaturated fats and exercise link

Over the last few years, Kerry Ayre has been researching, in the Department of Biological Sciences, the influence of dietary fats on muscle function and performance in rats.

Surprisingly, although a lot of work has been done on the influence of omega-3 polyunsaturates (high in both canola and in fish oils) on the cardiovascular system, and especially the heart, virtually nothing was known of the effects of these fats on skeletal muscle.

Ms Ayre decided to examine this area for her Ph.D. research, under the supervision of Associate Professor Tony Hulbert, and has just submitted her thesis for examination.

She examined the effects both of diets deficient in and diets with an excess of polyunsaturates.

She found that a deficiency of dietary polyunsaturates resulted in muscles that produced less tension, but that an excess of dietary polyunsaturates had no influence on muscle strength.

One surprising finding was that an excess of dietary polyunsaturates resulted in decreased endurance of rats during treadmill exercise.

Rats on a diet with 15 per cent of total fats being omega-3 polyunsaturates ran on a treadmill



for only about half the time that rats on a normal diet (with 4 per cent of fats being omega-3 polyunsaturates) ran.

The picture shows Ms Ayre encouraging a rat to keep running on the treadmill by giving it a short blast of air.

Once the rat refuses to run for 10 seconds following such encouragement, it is considered to have reached its endurance level.

It is not known why rats show decreased endurance when given an excess of omega-3 polyunsaturates.

It may not be an effect on their muscles but some other aspect of their physiology. It is also not known if humans would be similarly affected.

Ms Ayre is off to do some postdoctoral research in the Department of Nutrition at the University of California at Davis.

## Changes to parking regulations

*From page one*

designated 'Red' parking areas.

This is a departure from the current arrangement where purchasers of daily permits can park in 'Red' areas.

This will clearly provide 'Red' permit holders with a much better chance of finding a space.

Daily permits purchasers will be permitted to park only in the 'Blue' areas of the campus.

However, those who wish to do so will be given the opportunity to purchase either a 'Red' or 'Blue' permit

for the Spring Session at half the price of the annual cost — \$65 for a Red and \$37.50 for a 'Blue'.

These permits are on sale.

The cost of a daily permit also will be increased from \$2 to \$3.

This is not a revenue-raising exercise — indeed, revenue from daily permits will almost certainly fall when the changes are implemented — but a measure designed to reduce the obvious attractiveness of casual parking permits relative to the purchase of a regular permit.

Bona fide visitors to departments/units etc., when prior arrangements

have been made with the gatekeepers, will be admitted free of charge with the unit concerned responsible for arranging parking (generally through spaces already allocated to units on a reserved basis).

This is similar to the arrangement applying at present.

These charges will be widely publicised in the next month and then effectiveness will be monitored and taken into account by the Transport and Parking Policy Committee when considering later in the year the longer-term changes to the University's parking regulations.



*Paul Sheridan and Peter Hollis sign their indenture papers. Looking on are Mr Kevin Turnbull, Manager, Buildings and Grounds, and Ms Robyn Weekes, Senior Personnel Officer.*

# Retrenched apprentices find opportunities at the University

The University is trialing a scheme to employ third and fourth year apprentices who are looking for positions so they can finish their apprenticeships.

In the current economic climate many organisations are reluctantly forced to terminate the apprenticeships of young trades people before the completion of the required four years of training.

## The Harkness Fellowships

The Harkness Fellowships for study and travel in the United States, and the advancement of Australian-United States Relations.

Announcing arrangements for the 1994 awards for Australia

The Fellowship program was established in 1925 by an American philanthropic foundation, The Commonwealth Fund of New York.

Up to four fellowships, tenable for between 12 and 21 months are offered. The award includes return fares to the United States, living and family allowances, travel in America, tuition and research expenses or professional travel allowance, a book and equipment allowance and health insurance.

Candidacy is open to men and women in any profession or field of study who are over the age of 21 years.

Strong preference will be given to applicants who will be under 36 years of age on September 1 1994. Candidates must by that date have a degree, or an equivalent qualification conferred by a professional body, or an outstanding record of achievement in the creative arts, journalism or other career.

The Commonwealth Fund focuses on health care, education, employment and training systems, and any issues which affect the quality of life in cities, therefore The Australian Selection Committee would wish to encourage candidates focusing on these areas, providing they meet the overall criteria of exceptional ability and promise. The Committee will also aim to recommend outstanding young people from other fields of study or vocation.

Candidates must be citizens of Australia or have taken positive steps to achieve citizenship. They must not, between their 19th birthday and September 1 1994, have spent more than six months in the United States.

Selection of Fellows for nomination to The Commonwealth Fund, which is made by the Australian Selection Committee, is based on personal qualities as well as on a proven level of academic or professional excellence, and only those with outstanding records and potential to make a significant contribution to Australia will have a chance of success. The Australian Selection Committee will interview selected candidates in Melbourne in early to mid December 1993.

The closing date for applications is September 30 1993 or, in the case of public service candidates, such earlier time as may be notified in the relevant Gazette by the candidate's Public Service Board.

Application forms will not be made available after September 13 1993. Application forms may be obtained by individual candidates on request by letter to the Australian Representative of The Commonwealth Fund: Mr R D Beale, C/- Department of Transport and Communications, GPO Box 594, Canberra ACT 1601. Please mark envelope clearly: Harkness Fellowships.

Further information can be obtained from Local Correspondent:

Professor John Gero, Department of Architectural and Design Science, University of Sydney NSW 2006.

With the assistance of the Department of Industrial Relations and Employment, the University has provided employment initially to three such people.

Paul Sheridan, who completed his schooling at Cronulla High School, is a third year plumber and was employed until recently in Sydney.

Peter Hollis, who went to Oak Flats High School, is a fourth year electrician. During his apprenticeship he has had three jobs in Wollongong and Sydney.

Paul Teeuwen was a job skill trainee before taking up an electrical apprenticeship.

All three are working for the University's Buildings and Grounds Branch. Their positions are being financed out of current project funds.

Manager, Buildings and Grounds, Mr Kevin Turnbull, said that this was happily a mutually beneficial arrangement.

The University benefited by gaining three nearly qualified trades people who had been selected for their enthusiasm and motivation from more than 30 names supplied by the Department of Industrial Relations.

The apprentices were very positive about the opportunity given to them by the University to complete their apprenticeships.

'If this works out well, as it seems to be so far, we will endeavour to take on more young people in similar situations,' Mr Turnbull said.



# Corporate membership scheme launched for law library

The Faculty of Law launched its Fundraising Program through the University of Wollongong Foundation Limited on 25 June.

The Law Foundation of NSW has supported the development of the Faculty's fundraising program by providing a grant to establish the Faculty's strategic fundraising plan and to launch the program.

Mr Peter Kell, an active member of the University Foundation, chaired the formal proceedings at the function.

The Executive Director of the Law Foundation, Mr Terence Purcell, spoke about the information needs of lawyers.

The Dean of the faculty, Professor John Goldring, spoke about the activities of the faculty including its courses, the faculty's approach to learning, the Clinical Placement Program, and continuing education activities.

A display of electronic legal information technology by commercial vendors and other faculty displays were held and also the Law Library was open to visitors.

Guests from the legal profession and others with an interest in law were represented from the local region, Nowra, Sydney and Canberra.

The Faculty's main objectives in raising funds beyond normal univer-



*Executive Director, Law Foundation of NSW, Mr Terence Purcell, The Chancellor and Mr Malcolm Heard, from Kell Heard McEwan.*

sity sources are to ensure the development and maintenance of an adequate library collection for teaching and research; and to attract to the Faculty visitors of high national and international standing in legal practice or scholarship.

Initially the intention is to concentrate on setting up a capital fund for the continued development of the Law Library Collection.

To this end, a package of benefits is offered to supporters including the establishment of a corporate membership scheme for the Law Library.

This scheme will allow members to

use the extensive Law Collection, which includes looseleaf services, law report series, and the book collection.

The Law Library not only has Australian materials but also has a strong collection of material from other common law jurisdictions, particularly the United Kingdom, New Zealand, Canada and the United States.

The Law Library is connected to all the major legal electronic sources.

The Law Collection also supports the Faculty's two postgraduate/research Centres - for Court Policy and Administration and Natural Resources Law and Policy.

*Dean of the Faculty of Law, Professor John Goldring, Ms Franca Parolin, from Kell Heard McEwan, University Librarian, Mr John Shipp, and Mr Robert Webley, from Higgins, Dyson & Webley.*



# Barry Harper: keynote speaker in Queensland

Dr Barry Harper gave the keynote address at the launch of a five-day conference on 'Learning in the '90s' organised by the Division of Information Services and the Academic Staff Development Unit at the Queensland University of Technology held at the beginning of June.

Dr Harper is the Director of the Faculty of Education Interactive Multimedia Laboratory at the University of Wollongong.

In his address on 'Teaching with technology in Higher Education' Dr Harper outlined the significant shift in the perception of the instructional process in tertiary institutions.

'Quality instruction is being encouraged through changes in promotion criteria, grants, such as those awarded by the Committee for Advancement of University Teaching, and other government initiatives following development of the Unified National System of higher education,' he said.

'This valuing of quality instruction has strengthened as new technology based instructional tools have been developed through the application and use of interactive multimedia resources to learning.

These changes in technology have occurred through changes in information technology software and hardware which allow the integration of multiple sources of information to be linked and presented together.

'The challenge for Higher Education is to use the technology to effectively increase the efficiency of the learning and teaching process.

'The improved learning will be achieved through the use of the technology to enhance the performance of teaching, application of instructional packages and make effective use of the technology in presenting new learning environments and through research into key issues such as navigation processes, information landscapes and the renewed interest in student-centred learning environments with recent constructivist approaches.'

Dr Harper is researching instructional processes in education and training, and performance technology with an emphasis on the use of telematics in the learning process.

This work includes:

- the use of converging technologies, such as video and computers, to access a variety of information environments.
- the navigation process in information landscapes and the associated cognitive processes.

He is project managing several interactive multimedia packages, including Investigating Lake Iluka, through a major collaborative project with Apple Computer Australia and the Christopher Columbus Consortium program.

## 'Nights at the Opera' concert August 7

The City of Wollongong Symphony Orchestra announces some changes to the line-up of soloists for their 'Nights at the Opera' subscription concert on 7 August.

Missing from the IMB Theatre that night will be soprano Danielle Everett and tenor Miguel Diaz, both of whom have successfully auditioned for the professional Sydney production of 'Phantom of the Opera'.

These two fine local singers, already well-known to CWSO and Guild Theatre audiences, are two of only four additions to the cast coming from the Melbourne run of 'Phantom'.

The Music Director, Board and players join in congratulating them on their successes, at the same time expressing regret at their consequent inability to be part of the 7 August concert.

Soprano Effie Kandias, a recent graduate of the NSW Conservatorium Opera School and with several major roles already to her credit, has stepped in to take Ms Everett's place.

Additional participation will come from Tina Gray, a young mezzo-soprano who made such an impression as Tuptim in the recent Guild Theatre run of 'The King and I', and Michael Luccitti, baritone, who has starred recently to great acclaim in local productions of 'West Side Story', 'The Desert Song' and 'The Student Prince'.

The program remains largely as originally advertised except for the deletion of the tenor items from 'Turandot' and 'La Boheme', these being replaced with arias from 'Così fan Tutte' and 'The Marriage of Figaro'.

Other singers on the program will be, as advertised, soprano Amelia Koh and bass Keith Hempton.

Tickets are available for this concert at the booking office, Illawarra Performing Arts Centre, enquiries (042) 26 3366.

### CAMIA RESEARCH SEMINAR

## NEW ROBOT APPLICATIONS IN MANUFACTURING

Presented by:

Professor Rolf Schraft, Head, Robotics Group, Fraunhofer Institute, Germany

Tuesday, 20 July 1993 3-4pm

Kemira Room 30/3, University of Wollongong

RSVP or for more information phone (042) 21 3354  
or (042) 26 8909

Paid advertisement

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Separate lounge, dining. Polished floors and stained glass throughout. Sundeck. Escarpment and some ocean views. \$175,000.  
Contact Trevor Williams 67 4578 or ext. 3754.

# Sewerage tunnel-vision threatens human health

Conventional sewerage systems contain no mechanism for monitoring viruses and pathogenic bacteria and cannot be counted on to remove them – primarily because sewerage methods have changed little since the nineteenth century, according to a paper published by the Institution of Engineers, Australia.

The paper, by Wollongong engineer Dr Sharon Beder and published in one of the Institution's prominent technical journals, makes scathing criticisms of current sewage treatment methods.

Dr Beder says sewerage engineering practice is operating within a 'paradigm' formed early this century on the basis of a search for 'good enough' solutions at a minimal cost.

She said the protests of environmentalists are silenced because sewerage engineers hold a monopoly over the decision-making process and are unlikely to change tack until 'a major disaster or crisis' forces them to design sewerage systems more suited to modern conditions.

'The formation of a paradigm has enabled sewerage engineers to consolidate their positions as the experts and to restrict the role of outsiders to that of an uninformed public which can acquiesce with a particular proposal or protest against it but who are in no position to question the range of treatment methods available,' she said.

Dr Beder said recent improvements to sewerage treatment methods had largely been refinements of existing sewerage practices, based on the water-carriage of sewage via pipes to a waterway where the sewage is discharged.

She said the conventional technolo-

gies that have become the accepted 'paradigm' are inadequate for modern conditions because:

- They were developed before viruses were known, and cannot be counted on to remove the 110 different types of virus which sewage can contain;

- They do not remove nutrients from the sewage, which have caused the choking of waterways with excessive plant growth;

- The composition of city sewage has changed with the growth of industry, and the methods which were originally designed only to break down organic wastes do not remove or treat toxic chemicals, heavy metals, organochlorines, or most of the grease and oil.

Dr Beder said despite the risk of viruses surviving after sewage was treated, there was no authority in Australia which regularly monitored the presence of viruses in bathing water.

Monitoring was confined to measuring levels of faecal coliform which were not dangerous in themselves but merely indicated the presence of sewage.

She said the public is far less tolerant of environmentally-unsound practices and is willing to pay for higher degrees of sewage treatment, being concerned 'not only with their own health but also with the preservation of river marine environments and the species that live in them'.

Yet environmentalists had a difficult job convincing the public that problems which were not visually obvious actually existed.

'Very little research has been done into the effects of sewage, especially industrial wastes, on ecosystems, and the phenomenon of bioaccumulation of certain substances up the food chain has only been discovered relatively recently,' Dr Beder said.

It would take a disaster such as happened in Minamata, Japan, where hundreds of fish-eating people got mercury poisoning, before the adverse health effects of sewerage deficiencies could be proven.

'The government regulatory authorities are unlikely to force changes on the engineering community because they are well aware of the costs that would be involved in changing the system, and the problems created by toxic chemicals and viruses are hard to prove, invisible, and their effects long term.'

'Most regulatory authorities employ, and are advised by, engineers who inform them of what is possible to achieve and what is not. They act within those bounds.'

'Authorities will not set standards that engineers tell them they cannot meet with available technology.'

'Yet without tougher standards, there is no incentive to innovate.'

'It is clear that it would take a major disaster or crisis, perhaps similar to that which is occurring in the area of hazardous waste disposal at the moment, to encourage a renewed spate of research and innovation which might lead to a new paradigm which would be more suited to modern conditions.'

Copies of Dr Beder's paper are available from Sheree Glasson (06) 270 6557.

## UK recognition for Industrial Organisation Psychology Unit

Director of the Industrial and Organisational Psychology Unit, Dr David Brown, recently convened a symposium at the British Psychological Society Occupational Psychology Conference to be held in Brighton, UK.

This invitation was acknowledgement of the research being conducted by the Unit, which is based in the Department of Psychology, involving the development of performance indicators in industry.

The symposium entitled 'From vision to practice: some examples of Industrial Psychology at work in Australia', focussed on this research.

Along with Dr Peter Smith (now at Griffith University), four of the Unit's PhD candidates were also invited to present papers.

Andrea Kirk, a graduate of the University of Melbourne, presented a paper on her recently published research into 'Performance relapse following training'.

Christine Murphy, Tom Abson and Lee DiMilia, all graduates of the Department of Psychology, University of Wollongong, presented papers on 'Self-managed work teams', 'Occupational stress' and 'Management selection in Australia'.

The postgraduates' travel and conference costs were met in part by the Unit, and by University Travel Grants.

The development of a close research relationship between industry and the University has led to the establishment of numerous ongoing major projects involving the Sydney Water Board, BHP and the Meat Research Corporation.

With the assistance of Pro-Vice Chancellor Research, Professor Bill Lovegrove, this industry-University relationship has led to the establishment of two APRA Industry awards, and one University-Water Board APRA equivalent award.

The Unit has four full-time PhD candidates.



Until 16 July: **Interactive multimedia intensive workshop** presented by the Interactive Multimedia Group and Education Policy Program, Faculty of Education. Cost \$2500. Registration and information from Margaret Cameron. Fax (042) 21 3892. Phone (042) 21 3971.

14-15 July: School of Creative Arts, **Inter-Video**, a video performance. A Production for the DCA Degree by Min-Ho You. Inter-Video is an experimental genre dealing with the relationship of video art and performance art. It aims to show how far we can create inter-action between the performance and the audience through the video medium. 8pm The Performance Space, University of Wollongong. Admission: Free.

20 July: **CAMIA Research Seminar**, Presented by: Professor Rolf Schraft, Head, Robotics Group, Fraunhofer Institute, Germany. 'New Robot applications in manufacturing'. 3-4pm. Kemira Room 30/3. RSVP or inquiries, phone (042) 21 3354 or (042) 26 8909.

26 July: **Biological Sciences-sponsored evening seminar**. The Beckman Seminar on gene therapy given by Dr Wayne Gerlach (R.W Johnson Pharmaceutical Research Inst., Sydney) 'Gene therapy for virus diseases'. 8pm Bld 35 R105

26-30 July: The Aboriginal Education Centre is marking the International Year of Indigenous People with a **seminar on Early Childhood Education and Development**. Phone (042) 21 3776.

7 August: **Wollongong Symphony Orchestra 'Nights at the Opera'** Tickets: Illawarra Performing Arts Centre.

**Campus News is published weekly on Wednesdays. Send material, preferably by Microsoft Mail or on disk, to Gillian Curtis (042) 21 3110 by noon on Monday of the week before that of publication**

## What's On

### 9 August: **Biological Sciences-sponsored evening seminar**.

The Progen Seminar on experimental leukemia given by Dr Geoff Symonds (R.W Johnson Pharmaceutical Research Inst., Sydney) 'Bone Marrow repopulation to study oncogene-induced leukaemia'. 8pm Bld 35 R105

### 29 August: **University Open Day**.

Everything is open and everyone is welcome

### 10 September: **Postgraduate Research Student Open Day**. Union Function Centre

### 28-30 September: **1993 ANZAAS Congress**. Curtin University, Perth.

### **Illawarra Committee for Overseas Students** events for this year are:

31 July and 7 August, Snowy Mountains; 18 September, Blue Mountains; 26 and 27 September, Canberra; 16 October, Sydney Aquarium and harbour cruise; 4 December, Australia's Wonderland. Tickets and details are available from ICOS office, 3rd Floor, Union Retail Centre on Tuesday, Wednesday and Friday from 9.30am to 2pm or phone 21 3158.

### 10 October: **Annual University Service** at 7pm at St John's Anglican Church, Eastern St, Gwynneville

9-10 November: **International Conference on Islamic Banking**, organised by the University's International Business Research Group and sponsored by Al Baraka Investment And Development Co., Jeddah, Saudi Arabia. Venue: The University Centre, Sydney. Enquiries: Dr Nelson Perera, phone 2134028

Considering further study or just some recreational reading? Visit the **Campus Alumni bookshop and gallery book sale** at Campus East, Fairy Meadow. The stock of used books covers: Science &

Engineering, Social Sciences, Arts & Music, Education, Fiction & Non-Fiction, Young Readers' Stories & Classics. Open every fourth Saturday and Sunday of the month from 1-5pm, the bookshop is located at Cowper Street, Fairy Meadow (opposite the Science Centre). Your donations of any material are invited. These may be left any weekend afternoon at the Science Centre (Please mark 'Booksale'), or The Library or Students Enquiry Desk during the week.

**Animal Experimentation Ethics Committee** meeting dates, with agenda deadlines in brackets, are: 9 August (30 July); 22 November (12 November).

**Human Experimentation Ethics Committee** meeting dates with agenda deadlines in brackets are: 13 July (29 June); 24 August (10 August); 5 October (21 September); 16 November (2 November); 21 December (7 December).

**Undergraduate Studies Committee** meeting dates, with agenda deadlines in brackets, are: on the following dates: 14 September (31 August); 9 November (26 October). Submission to Trevor James, ext. 4457, by 5pm of deadline date.

## Stop Press

### **Howard Worner Symposium**

**Saturday 31 July**

Largest gathering of distinguished speakers seen at this University. Talks of general interest. Bookings 26 8884

### **News break**

*Campus News* is taking an end-of-session break.

The next issue will be 28 July. Deadline for this issue is 19 July.