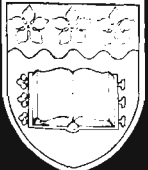


# THE UNIVERSITY OF WOLLONGONG



# CAMPUS NEWS

Distributed each Tuesday

Deadline for copy noon Monday  
of previous week

Editor: George Wilson, Tel. (042) 270391

9 February 1988

## EDUCATION: WE STILL HAVE MUCH TO LEARN

The Vice-Chancellor Professor Ken McKinnon made a further foray into the education debate with an article in the *Sydney Morning Herald's* 'Summer Agenda' pages on January 28. Seeking to answer the question as to whether Australia's education system was ready for the next 200 years, the Vice-Chancellor went back to 1805 when William Bligh established public schooling in Australia. He then traced events on to the 1950s and his own early teaching days; the era when there was a general belief that the government had a responsibility to provide a good education for all except those few who could afford private schools; the emergence of later beliefs in the 1970s that government schools were delivering the goods and matched only by the better and exclusive private schools; and on to the advocacy today of the free-market approach and the right of parents to make their own choice of school.

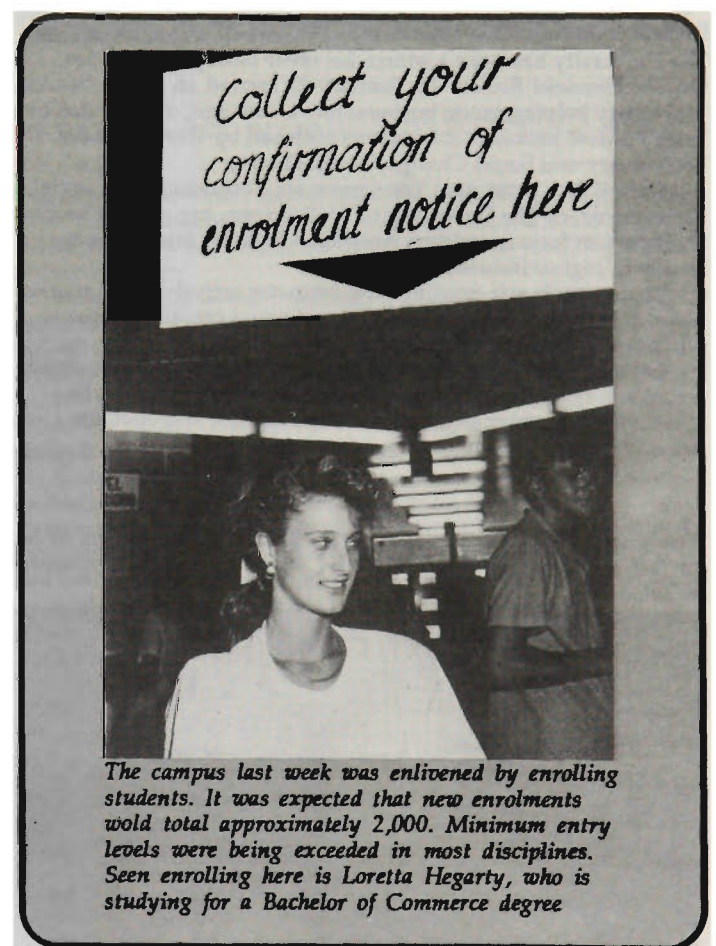
Professor McKinnon then provided his assessment of the current Federal Government initiatives in tertiary education. He concluded:

There is no better time than the present to take stock of Australian tertiary education. Everywhere in the Western world old assumptions about the role and usefulness of universities are being questioned. Even their primacy in teaching and fundamental research is being eroded as special, single-purpose institutions are established. The Green Paper on future directions, which was issued just before the start of this Bicentennial year, raised the same questions for Australia that are being discussed overseas.

What have we to be proud of? Standards and equity of access would be two successes I would nominate. Australian professional training, for doctors, lawyers, engineers and the like, is among the world's best. We prepare good scientists, economists, historians and mathematicians.

Our researchers are innovative and rigorous. We produce more than our share of the world's scientific papers. Low-cost access, merit-based entry, access for all ages, access for part-time and commuter students, and distance education are features of equitable (though insufficient) access to tertiary education of which Australia can be proud.

What do we do poorly? Everyone would have a list. Mine would refer to the policy blunders of establishing a binary system, to the errors in placement of individual



*The campus last week was enlivened by enrolling students. It was expected that new enrolments would total approximately 2,000. Minimum entry levels were being exceeded in most disciplines. Seen enrolling here is Loretta Hegarty, who is studying for a Bachelor of Commerce degree*

institutions, to the derivative and hard-to-change work practices within institutions and, above all, to the too-frequent distance between research done in higher education and the real research needs of Australia. Part of the reason for the latter lies in the absence of strong financial and structural links between higher education and the community.

Things will change - if the rhetoric of the Green Paper is to be believed. Certainly the Federal Government wants to engineer changes and turn higher education into an engine of economic development. If only it were that simple.

There is a set of good proposals struggling for exposure in the Green Paper, but the "good" rhetoric of

*continued on back page*

# General Notices

## IN THE NEWS

The University of Wollongong has in other ways, too, been very much in the public eye during the long vacation. In *The Sydney Morning Herald* for January 12, for example, there appeared an eight-page supplement on coloured stock, entitled *A campus alive with energy* and sub-titled 'Dedication of purpose is the key to success'. Written in a witty and racy style by Garth Powell, the paper's computer editor, the supplement ranged across virtually every facet of the University's activities and looked at, to take other examples, the University's answers to the small-town cringe, our high-technology (and business-liaison) interests such as microwave drying research -- in an article which Powell entitled 'Muck to Brass' -- and what this university has to offer students as compared with the attractions of other universities in the state.

Gillian Curtis has a few copies of the supplement which she is prepared to let out on loan to anyone interested.

Gillian also has in her charge a splendid video film, made professionally, for distribution outside the University. Copies of this, too, are available upon loan to staff members who might want to use it for public relations purposes.

Gillian is on extension 3926.

## PRAISE FOR PIONEERING WORK BY TASC

The University has been a source for other newspaper articles, too. *The Financial Review* for January 28 carried an article headed 'University helping guide business into a new age', and written by Peter Burden, looked at the success achieved by The Centre for Technology and Social Change. Wrote Burden: ...

Started five years ago, The Centre for Technology and Social Change, part of The University of Wollongong, has quickly become an important force in guiding Australian business into a new age - an age of higher industrial technology.

The centre is self-funding and competes actively in the marketplace. It is believed it is the only management consulting centre affiliated with a university operating in Australia.

Other universities will accept consulting briefs in specialised areas, but the centre at Wollongong - which has the acronym TASC - has a number of major areas of expertise and operates actively in all of them.

According to a spokesman for the centre, TASC carries out contract research, consultancy and training on issues of technology and science policy, strategy and management. Its main objectives are:

- To provide informed analysis of the issues and problems associated with contemporary developments.
- To raise the level of educational and technological skills in Australia required to deal with technological change.
- To enhance the understanding and social control of technological change.

An important area of its activity is technology strategy and policy. TASC is contracted as a major provider of research and advice on issues of innovation and technology policy to the Commonwealth Department of industry, Technology and Commerce.

It has also assisted in the development of technology strategies for four state governments and for a number of other clients.

In this work, TASC has developed new techniques for the identification of technological opportunities and for assessing the adequacy of - and gaps in - infrastructure.

It is currently examining the implications of the new "corporate citizenship" form of offset arrangements for Australian business.

On the basis of detailed interviews with an analysis of the practices of foreign companies operating in Australia a profile of the key characteristics necessary for establishing an effective offset relationship has been established and appropriate management strategies devised.

Other areas with which TASC is concerned include innovation information where it has detailed databases on research and development capability in the public and private sectors in Australia from which it can identify researchers and equipment in highly specialised areas.

Another is in technology assimilation where, on the basis of a series of studies of the introduction of new technology, it has developed a capability to assess appropriate forms of work organisation, availability of required skills, training needs and the effects on organisational culture.

The wide range of expertise TASC has achieved in technology strategy, policy and management has been used to develop customised courses to improve awareness and skills in technology development and application for clients. These include:

Two distinguished visitors from Great Britain to the campus in January were Dr Germaine Greer and Dr David Bellamy. In full flight here is David Bellamy, whose theme was environmental problems of the future -- and their possible solution



- Workshops and conferences on technology policy issues, including innovation, entrepreneurship, human resource development and industry-university collaboration.
- Training programs for industry on all aspects of innovation culture and the management of technological change.
- Action learning programs dealing with organisational culture and technological change.

One action learning program which TASC has developed is a survey-feedback package based on original research within the Australian insurance and finance industries.

This approach surveys key dimensions of an organisation's culture and technological impact and uses this information as the basis for subsequent participative training. TASC claims this approach allows an identification of problems and a method of solving them by the organisation members themselves.

A further initiative under TASC's training and management program is the development of a skills centre for flexible manufacturing systems using advanced robotics at the Illawarra Technology Centre. This will complement the work of the Automation and Engineering Applications Centre, the South Coast Employment Development Project, and the Trade Union Training Authority, all of which are located at the Illawarra Technology Centre.

TASC has also pioneered the development and application of science and technology indicators in Australia. It claims it now has the experience and access to computerised databases to develop rapidly a range of indicators to assist decision making in the private and public sectors.

The science and technology policy expertise has been primarily directed to the development and delivery of extensive, professional and action oriented training courses for science and technology policy officials.

## NEW CONDITIONS FOR ACADEMIC STAFF

The Council of the University of Wollongong has approved a new package of conditions relating to the employment and promotion of academic staff. The package includes appraisal of teaching performance and more systematic peer review of staff seeking promotion or conversion to permanent appointment. The Vice-Chancellor, Professor Ken McKinnon, said in introducing the package:

'The review of conditions for academic appointments has been under way since early this year and is a good example of what can be achieved through constructive and responsible discussion with universities. I believe The University of Wollongong is unique among Australian universities in having introduced a new package of academic conditions which address today's issues'.

Features of the revised conditions include:

- Procedures for setting performance expectations, formal appraisal and counselling of all staff (including the Vice-Chancellor and Deputy Vice-Chancellors).
- Promotion procedures which allow promotion on the basis of outstanding ability in either teaching or research.
- Staff to be able to contract a heavier emphasis on teaching or research and be evaluated within that framework.
- More accurate delineation of staff as having continuous appointments rather than the misleading term 'tenure'.

## REVISED SPECIFICATIONS OF RESPONSIBILITIES AND DUTIES OF STAFF IN ALL GRADES

The new set of conditions became effective on January 1. It also includes a reassessment of the current arrangements for limited-term positions. The University plans to maintain its current proportion of 20 per cent of all academic positions as limited term. However, no staff member can hold a limited-term position for more than one period of five years. Each limited-term position will be subject to review in its fourth year and if the University decides that there is a continuing need for that expertise and the incumbent successfully applies for a continuing appointment, the position will be made permanent. The 20 per cent pool of limited-term appointments will be topped up as vacancies occur.

Professor McKinnon added:

'Efficiency and accountability of staff is one of the many issues raised recently by the Minister for Employment, Education and Training which have already been addressed by this University. The package being introduced at Wollongong, together with measures taken some years ago, such as introduction of a Summer Session, recognition of courses undertaken at TAFE and other institutions, preparation of an education profile to form the basis for policy directions and the strong emphasis placed on the fostering of links between the University and industry will ensure that The University of Wollongong is well placed to take a leading role in national development'.

## CHANGE IN THE AIR

Changes to typography and style will be evident in this first issue of *Campus News* for 1988. The changes have not, however, been made for purely cosmetic aims. Rather they are made in an attempt at tightening up -- at making more effective use of the space available. Other changes to style and format are planned and will be introduced in the coming months. What has not changed is the deadline for copy. That remains noon on Monday of the week preceding that of publication.

The *University Gazette* -- now entering its sixth year -- is also under review. Four issues a year will become the norm. There will be full colour on the cover and perhaps, too, on other pages. Issues will appear in the middle of April, July, October and December. The editorial emphasis will (as previously) be on the building of and maintaining bridges between the University and the community. The main emphases will continue to be on reports of research, as well as on other more general activities that will project the image of the University as an important and dynamic element in higher education.

Deadline for material for the April issue of the *Gazette* will be March 15.

## METALLURGIST WARNS CARAVAN TOW BARS UNSAFE

Wollongong University metallurgist Dr Alan Wingrove has issued a warning that many tow bars used by Australian motorists are unsafe and have been the cause of road accidents resulting in death and serious injury.

Dr Wingrove, in the University's Department of Metallurgy and Materials Engineering, is concerned that there is no legislation controlling the design and construction of tow bars although a faulty tow bar can turn a caravan into a lethal weapon.

The Department of Motor Transport specifies a safety chain for towing vehicles but there is no reference to size, type and strength of material or breaking load.

In several cases of tow bar failure the safety chain was also inadequate. He said 'In the past 12 months, as part of the consultancy work undertaken in the department, I have examined a number of tow bars on vehicles involved in accidents. In every case the failures have been a direct consequence of poor or incorrect material, materials selection, defective manufacture and inadequate design. The failures I have examined have all arisen from ignorance since the technology to design and manufacture correctly does exist.'

'Many of the tow bars examined were commercially available. The recommended maximum load stamped on them is estimated on a steady load basis not an impact load. The sideways rocking and jerking of a caravan can reduce the strength by a factor of three due to metal fatigue. Equally worrying is that a home handy person can turn out a tow bar in his backyard workshop without reference to specific standards of design or material quality' he added.

Dr Wingrove brought his concern to the attention of Mr Ron Mulock, Minister for Transport on October 13 last but is worried that the government will not introduce legislation quickly enough to prevent further accidents.

## UNION FEE SCHEDULE 1988

Council's adoption of the 1988 University Union fee schedule is as follows:

Entrance fee	\$25
Annual fee	\$123
External (Illawarra)	\$60
External (outside Illawarra)	\$30
Summer Session fee	\$12
Associate fee	\$11
Life Member nomination fee	\$15

Noel Diffey  
Secretary Manager



Professor Howard Worner

### YET ANOTHER HONOUR FOR HOWARD WORNER

Professor Howard Worner, CBE, Director of the University's Microwave Applications Research Centre and who, if he wished, could follow his name with (deep breath) CDEm DSc, HonDEng, HonDSc ABSM, CEng, FTS, MAustIMM, FIEAust, FRACI, FAIE, FINMMA, FIMM, MAIME, has added to the list by his election as an Honorary Fellow of The Institution of Engineers, Australia.

But what makes this new honour so extraordinary is that Professor Worner's twin brothers, Neil and Hill, are also Honorary Fellows of the Institution.

One wonders whether any other family has been similarly recognised?

### ITALIAN CULTURAL INSTITUTE TO LAUNCH BOOK BY WOLLONGONG ACADEMIC

A book by Languages Department Senior Lecturer Gaetano Rando had its Australian launch at the Italian Institute of Culture, the cultural arm of the Italian Ministry of Foreign Affairs, on December 2 last. The *Dizionario degli Anglicismi nell'italiano contemporaneo* had been released earlier in the year by internationally acclaimed Leo S. Olschki Editore, Italy's leading academic publisher. It has been hailed in Italy as a major contribution to the study of the contemporary Italian language, not only in terms of its academic worth but also because of its practical applications.

The book, in fact, gathers in a single volume, for the first time, a selection of the more common English borrowings and loan translations used in Italian, such as *bar*, *computer*, *escalation*, *feeling*, *look*, *night*, *alfanumerico*, *calcio*, *grattacielo*, *tramezzino*, together with an explanation of the usage and nuances which these words have in the Italian language.

As such the book is destined to become the standard reference work in this field of studies.

### JAPANESE FOR BUSY PEOPLE

Organised by The Centre for Continuing Professional Education, The University of Wollongong, the course starts on Tuesday February 23, 6.30 pm to 8.30 pm. It will be held at The University Administration Seminar Room, First Floor, Administration Building No. 36.

Length of the course is 12 weeks and the cost is \$150. Lecturer is Kimiko McKenzie (native Japanese) BachDegScEducat.

Full details from The Course Co-ordinator, Centre for Continuing Professional Education, The University of Wollongong, PO Box 1144, Wollongong NSW 2500. Telephone (042) 270484 or 270531.

### INTERNATIONAL WORKSHOP ON ELECTROCHEMICAL SENSORS

Friday February 12 to Sunday February 14.

Organised by the Department of Chemistry and sponsored by Analytical Systems Development, Chemtronics, ICI Scientific Instrument Division, RACI Electrochemistry Division, and RACI Wollongong Branch, the workshop is to provide a forum for discussion on new electrochemical sensors and to provide hands-on experience in practical sessions. Registrants will be limited. The

workshop is timed to allow intending visitors to 7AEC in Sydney to participate in the Wollongong workshop by arriving a couple of days early.

Workshops will be held in the Science Building - Building 18, Chemistry Department.

Participants will be accommodated in Kooloobong, newly constructed, self-contained student town-houses on campus with parking at the door.

Applications forms from The Conference Co-ordinator, Uniadvice, The University of Wollongong, PO Box 1144, Wollongong, NSW 2500 Australia.

### COURSES IN MANAGEMENT EXCELLENCE

Organised by The Centre for Continuing Professional Education, the series will run as follows:

February 23-24, March 9, March 22-23, April 13, April 27, from 9 am to 4 pm. at The University of Wollongong, Administration Seminar Room, First Floor, Administration Building No. 36.

Courses will cover *Personal Effectiveness For The Manager*, *Negotiation*, *Business Writing Skills*, *Effective Decision-Making and Meeting Skills*, and *Time Management*.

Full details from The Course Co-ordinator, Centre for Continuing Professional Education, The University of Wollongong, PO Box 1144, Wollongong NSW 2500. Telephone (042) 270956 or 270076.

### DEAN OF ENGINEERING APPOINTED

Dr Peter LePoer Darvall, Reader in Civil Engineering at Monash University, has been appointed to the Deanship of the Faculty of Engineering.

During his career at Monash, Dr Darvall has been actively involved in the policy, planning, politics, and administration associated with tertiary education. He has been a member of Council for several years, serving on many of its committees as well as on faculty and departmental committees. He has been president of SAMU (Staff Association Monash University) and of FAUSA (Federation of Australian University Staff Associations), and has in that context been a strong defender of Australian universities, leading a national campaign on research funding and instigating numerous submissions to governments, politicians, and

Dr Darvall will take up the appointment in March.

### NATIONAL RHODES SCHOLARSHIP FOR MONASH STUDENT

Stuart Campbell Rae, 22, who has just finished a Science Honours degree at Monash, has been awarded a national Rhodes Scholarship. He was one of four finalists - three of them from Monash - for the Victorian Rhodes scholarship won by Ann Nicholson, a Melbourne University student.

Stuart and Glenn Nicholls (a Monash student in German) were then sent to Canberra to be interviewed for one of two national scholarships, including the inaugural Bicentennial Rhodes Scholarship. The other was won by Joanne Cook, a medical student from Queensland University.

Stuart, who gained first class honours in Physics for his work in the area of laser development, has a job as a research assistant in the Department of Physics. He will take up his scholarship at Oxford in October this year.

### TEXAS INSTRUMENTS CONTEST WINNER

Winner of the Texas Instruments/EA LAN Development System Contest was Mr Sebastian Hutten, a cadet engineer with Illawarra Electricity and a senior student in electrical engineering at this University. His entry described a proposed use for the system in developing a SCADA interface for high-voltage circuit breakers, using a DSP (digital signal processor).

## Letters

### THANKS

Jan and I wish to thank the many people who have wished us well in our move to Auckland.

We thank our friends throughout the University for their kindness and support. We have enjoyed our 15 years in Wollongong very much.

We look forward to seeing you on our trips to visit our family here.

Yours sincerely,  
John Ryan.

# SUCCESSFUL 1988 ARGS GRANTS

NAME OF APPLICANT	PROJECT TITLE	TOTAL \$
<b>BIOLOGY</b>		
Ayre, D.J.	Factors determining the genetic structure of populations of the sea anemone actinia tenobrosa	36,058
Hulbert, A.J.	Studies on the evolution of mammalian endothermy	28,649
Lilley, R.M., Brown, A.D.	Osmoregulation in halotolerant algae	16,000
Spencer, H.J., Rundell, A.	Radiotelemetric determination of distribution, of colony and feeding range of the grey-headed fruit bat - <i>pteropus poliocephalus</i>	26,000
Whelan, R.J.	Competition among plants for pollination	16,450
Whelan, R.J., Ayre, D.J.	Genetic consequences of plasticity of mating systems in the proteaceae	24,000
<b>CHEMISTRY</b>		
Crisp, P.T., Guilhaus, M.	Improved methods for the analysis of anionic surfactants in natural and waste waters	12,000
Garson, M.J.	Chemistry and biochemistry of marine invertebrates from the Illawarra Region	24,000
Griffith, D.W.	Applications of matrix isolation spectroscopy to atmospheric chemistry	5,000
Kane-Maguire, L.	Kinetics and mechanisms of metal carbonyl cluster reactions	25,933
Pyne, S.G.	Asymmetric carbon-carbon and carbon-nitrogen bond forming reactions from chiral vinyl helated sulfoximines	22,000
<b>CIVIL ENGINEERING</b>		
Chowdhury, R.N.	Slope stability and risk assessment	32,872
<b>CMS</b>		
Castles, S. Gibson, K.D.	The apparent growth of self-employment: migrants and the economic restructuring of Sydney	13,438
Collins, J.H.	Cultural pluralism and school achievement: affective and cognitive outcomes to four junior secondary social science curricula	5,000
Kalantzis, M., Cope, W.W.		
<b>CTPA</b>		
Robinson, R., Trace, K.	Australian flag competitiveness and national maritime policy: an analysis of its cost impacts on container and bulk minerals exports	28,500
<b>ELECTRICAL ENGINEERING</b>		
Ng, T.S.	Recursive system identification and its applications	7,000
<b>GEOGRAPHY</b>		
Nanson, G.C., Young, R.W.	Quaternary studies of stream development in Central and Eastern Australia	18,000
Price, D.		
<b>GEOLOGY</b>		
Carr, P.F., Fergusson, C.L., Jones, B.G.	Relationship between plutonism, volcanism and tectonics in the Southern Wollondilly Tract, Eastern Lachlan Fold Belt, NSW	10,000
Jones, B.G., Nanson, G.C.	The Gilbert Fandelta - an integrated sedimentological, geomorphological and chronological study of a tropical monsoon river system	11,000
<b>HISTORY</b>		
Hagan, J.S., Turner, K.	A history of the Australian Labor Party (NSW)	7,500
Piggin, S.	Australian evangelicalism - a bicentennial history	16,000
Wells, A.D.	A history of left wing intellectuals in Australia 1920-1970	5,000
<b>MATHEMATICS</b>		
Blake, J.R., Doherty, G.	Transient cavities near boundaries	26,000
Clarke, D.J.	Coastal storm frequency and beach erosion	6,400
Coleman, C.J.	Boundary integral methods for the study of heat transfer and fluid flow	9,000
Hill, J.M.	Integral formulations and bounds for heat diffusion moving boundary problems	14,995
Smyth, N.F.	Internal hydraulic jumps and undular bores formed on a shelf break	28,335
<b>METALLURGY</b>		
Chandra, T., Dunne, D.P.	The influence of microalloying additions on the structure and properties of HSLA steel weldments	7,000
Delamore, G.W.	Crystallisation kinetics of metallic glasses	29,335
Kennon, N.F., Dunne, D.P.	Crystallographic and metallographic analyses of shape memory alloys	20,000
<b>MECHANICAL ENGINEERING</b>		
Tieu, A.K.	Superlaminar flow in hydrodynamic thrust bearings	32,832
<b>PHYSICS</b>		
Fisher, P., Freeth, C.A., Lewis, R.A., Martin, A.D., Simmonds, P.E.	Electronic and vibrational spectra of solids	60,812
<b>PSYCHOLOGY</b>		
Lovegrove, W.J., Chow, S.L.	Vision, phonological encoding, memory and specific reading disability	23,500
Viney, L.L.	The process of counselling	15,000
<b>STS</b>		
Martin, B.	The vulnerability of some key Australian technological systems to military threats	10,000

# 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 Annette Read (ext 3386) or Ian Strahan (ext 3079). Intending applicants are reminded that all research applications must be forwarded through the Office of Research and Post-graduate Studies.*

## NATIONAL HEALTH AND MEDICAL RESEARCH COUNCIL - PROJECT GRANTS

The National Health and Medical Research Council (NH&MRC) has invited applications for project grant support in 1989.

NH&MRC project grants may be made to support research in all fields of medicine and dentistry in Australia.

Applications for support for research in the following special areas are also invited:

- addictive behaviour
- menopausal health
- early stages of alcohol abuse
- rehabilitation
- environmental toxicology
- public health

Applications close with the University today, February 9.

## AINSE RESEARCH FELLOWSHIPS

AINSE Research Fellowships are offered by The Australian Institute of Nuclear Science and Engineering for post-doctoral scientists and engineers wishing to undertake research projects within the Institute's field of interest. Minimum tenure is two years.

Applications close with the University on February 14.

## GRAPE AND WINE INDUSTRIES RESEARCH

Applications are invited by the Dried Fruits Research Council for support in 1988/89 relating to the grape and wine industries.

Research areas are:

- vine/tree improvement
- vine/tree management
- harvest/post harvest
- product development/marketing
- socio-economic information transfer.

Applications close with the University on February 15.

## NATIONAL TEACHING COMPANY SCHEME

The Commonwealth Department of Industry, Technology and Commerce has funding available to Australian owned or based companies for employment of graduates in joint projects with Australian tertiary institutions. The scheme is designed to forge links between companies and tertiary education institutions and subsidise the cost of employing high-calibre graduates in projects to improve company performance.

Applications close with the University on February 15.

## MEDICHECK CHURCHILL FELLOWSHIP IN PREVENTATIVE MEDICINE

Applications are invited to research funds for an additional Churchill Fellowship in Preventative Medicine. The Fellowship will be available Australia-wide for a project designed to improve the practice of preventative medicine in Australia based on information gained overseas. The usual project is about three months although fellowships of shorter duration will be considered. The successful applicant will receive a living allowance plus costs and airfares.

Further details and information are available from The Winston Churchill Memorial Trust, 218 Northbourne Ave, Braddon ACT 2601. Phone (062) 478333, with whom applications close on February 29.

## COMPARATIVE ANATOMY POST-DOCTORAL FELLOWSHIPS

Applications are invited by the Sir Colin and Lady Mackenzie Trust Award for a two year postdoctoral fellowship to undertake studies in comparative anatomy within Australia. The fellowship has a stipend of \$28,000 in the first year and \$30,000 in the second

year. Additional funds of up to \$6,000 are available for equipment, maintenance and travel.

Applications close with the University on March 15.

## US PUBLIC HEALTH POSTDOCTORAL FELLOWSHIPS

Applications are invited from the Fogarty International Centre/United States Public Health Service from young Australians and other nationals who are permanent residents in Australia working in the biomedical sciences, to enable them to undertake research in health-related fields in any biological or medical laboratory in the United States. Fellowships are awarded for two years; a request for a one year award may be considered.

Applications close with the University on March 17.

## ELIZABETH AND FREDERICK WHITE RESEARCH CONFERENCE

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 is encouraged. A sum of up to \$5,000 for each conference is allocated and supplementation from other sources is encouraged.

Proposals for 1989 close with the University on March 17.

## RESEARCH INTO EUROPEAN INTEGRATION

Applications are invited from The Commission of the European Communities for research grants for 1988/89. Awards will be given to young university teaching staff at the start of their careers who, individually or as a team, are doing research work on European Integration. Applicants should be under over 40 years of age.

Applications close with the University on March 17.

## CSIRO/UNIVERSITY OF WOLLONGONG COLLABORATIVE SCHEME 1988/89

Applications are invited for the 1988/89 grants under the CSIRO/University of Wollongong Collaborative Scheme. Total funds available are \$60,000 and grants are normally between \$5,000 and \$15,000. Grants are made on an annual basis.

Applications close with the University on March 31.

## FIELD SCIENCES RESEARCH FACILITY

The Edith and Joy London Foundation has called for applications to utilise the field station located 46 km north of Batemans Bay. The 348-hectare property provides a protected and managed environment, simple accommodation and laboratory facilities.

Bookings for July-December close on March 31.

## AUSTRALIAN WATER RESEARCH ADVISORY COUNCIL

The AWRAC has invited applications for water research funding. Proposals must fall within one of these programs:

- National Priorities Program - funding for maximum of three years in areas of national priority.
  - Partnership Research Program - funds provided under this program must be matched by a third party and must be for a new (not continuing) project.
  - Scientific Merit Program - limited funding will be available for research of a fundamental nature.
  - Research Fellowships - these are available to recent PhD graduates or experienced researchers. Fellowships are tenable for three years with a salary in the range of \$28,456 to \$42,000.
- Applications for fellowships close with the University on March 31 and April 13 for other programs.

## RESEARCH IN PRIMARY PRODUCTION - RURAL CREDITS DEVELOPMENT FUND

The Reserve Bank of Australia has invited applications for the support of research directed to the promotion of primary production in Australia. Plant, animal and soil sciences, economics, management and engineering are all eligible areas.

Applications for grants up to \$100,000 close with the University on March 14 and for Fellowships on April 15.

### AUST ACADEMY OF SCIENCE - RUDI LEMBERG TRAVELLING FELLOWSHIPS

The Australian Academy of Science has called for applications for the Rudi Lemberg Travelling Fellowship. The Fellow may be drawn from any field of biology but special consideration will be given to those areas in which Professor Lemberg had an especial interest, namely bio-chemistry, conservation and the Australian flora.

Fellowships are awarded to enable overseas scientists to visit Australia and Australian scientists to spend time within Australia visiting scientific centres and delivering lectures.

Applications close with the University on April 16.

### PIG RESEARCH COUNCIL - SUPPORT FOR EMINENT VISITORS

The Pig Research Council has invited applications for the partial support of eminent visitors who wish to work in Australia for a period from six to 12 months. The Pig Research Council will expect to provide partial support only and will expect additional funding to be provided from elsewhere.

Applications may be submitted at any time.

### CRIMINOLOGY RESEARCH FUNDS

The Criminology Research Council has invited applications for funding from individuals or organisations wishing to undertake research in connection with the nature, causes, correction or prevention of criminal behaviour.

Applications may be lodged at any time.

## Scholarships and Prizes

### JUNIOR RESEARCH FELLOWSHIP

Applications have been invited by the Barley Research Council for Junior Research Fellowship Awards for postgraduate research in areas of relevance to the Barley Industry. The award will carry a stipend of \$15,000.

Applications close with the University on February 14.

### NH&MRC VISITING POSTGRADUATE RESEARCH SCHOLARSHIPS IN AUSTRALIA

The NH&MRC has invited applications from overseas medical and dental graduates to gain full-time research experience and enrol for a higher degree in Australia. The scholarship is tenable for two years.

Applications close with the University on April 15.

## PREVIOUSLY REPORTED IN CAMPUS NEWS

Mahvi Cultural Scholarships	Internal Closing
Pure and Applied Science in Engineering Research Scholarships	March 7
Rutherford Scholarship	March 21
Field Sciences Research Facility	March 21
Clive and Vera Ramaciotti - Travel Grants	March 31
Earthwatch	Any time
Criminology Research	Any time
Pig Research Council - Support for Eminent Visitors	Any time
NERA Project Grants	Any time

### SEMINAR ON RESEARCH FUNDING UNDER THE AUSTRALIAN RESEARCH COUNCIL

The University of Sydney is to host a seminar on research funding under The Australian Research Council. The seminar is open to all academic staff and will be held in the Merewether Lecture Theatre on Thursday February 18 from 2 pm to 4.15 pm, followed by afternoon tea and informal discussion. This seminar will provide an opportunity to find out about the structure of the Australian Research Council and its policies.

For further information please contact the Head of the Office of Research and Postgraduate Studies, Ms A. Read, extension 3386).

## Friends of the University

### FRIENDS SEARCH FOR MISSING MEMBERS

The following members of the Friends of The University of Wollongong are currently address unknown. Any advice you can offer should be phoned through to Giles Pickford on 042-270073 or the Friends office on 042-270082.

Alviar, Santiago M.  
Andrewartha, Peter  
Anguillesi, Leonella (Mrs)  
Armstrong, Scott  
Billingham, Martin  
Black, Denise  
Bourne, David  
Braid, Malcolm Scott  
Brown, Philip  
Butler, Gregory W.F.  
Connaughton, Leanne  
Dryburgh, William  
Errington, Edward P. (Dr)  
Freedman, Graeme John  
Gray, Jila  
Hamilton, Margaret J.  
Hamilton, Timothy W. (Dr)  
Hartley, James A  
Jones, Marian P.  
Kahn, Zaid I.

Kelly, William Patrick  
Knoblanche, Christopher Peter  
McGrath, Glenn  
Miller, Richard (Dr)  
Moody, Daniel Pitman  
Notowidjojo, B.  
Ohlsen, L.R.  
Pandaram, Srinivasan  
Pelosi, Paolo  
Porter, Rodney George  
Potter, Victoria  
Rahi, Nazeer Hussain  
Richardson, David Phillip  
Smith, John B  
Thomas, Ronald James  
Turnbull, Tim  
Walker, Allan Grant  
Williams, Sean  
Youth for Understanding (Allan McArdle)

## Concerts, Exhibitions and Entertainment

### THE ILLAWARRA MUSIC CLUB

The Illawarra Music Club's 1988 program has been designed to fly the flag for fine music in celebration of Wollongong's Bicentennial year.

The IMC is putting on both its concert series at the Performing Arts Centre. The Green series of four concerts will feature local artists and students and will include the Yamaha Piano competition on September 2 and 3.

An innovation for the club is its Gold three-concert chamber music series. This series will feature international chamber music groups - the Sydney Trio (March 26), Mark Walton and Allen McCracken (Clarinet and Piano - August 19), and the acclaimed Sydney String Quartet (November 12); in concert, with seats from \$10 (\$5 concession).

There will be a young performers scholarship competition on October 15.

Copies of the Club's program are available from Jurjens, Wilsons Record Bar, Gateway, Music Box Corrimal and the City Library.

The annual general meeting of the Club will be held in the Board Room (first floor) of the University Union, Northfields Avenue, Gwynneville, on Tuesday February 9 at 7.30 pm. All welcome.

### BICENTENNIAL CHOIR

A member of the Faculty of Education, Sylvia Rice, has organised a district-wide choir for various events in the Bicentennial year. Intending participants number approximately 160 voices. They first met in mid-January to rehearse choral music for the opening of the Performing Arts Centre on January 30.

The Bicentennial Choir will also present work, and lead the congregation, at the Ecumenical service to be held at Brandon Park on the afternoon of Easter Sunday (April 3), and there will be a further performance by the choir at the family concert to be held on the evening of the same day. Conductor of the choir will be Robert Smith of the Faculty of Education.

On April 30, under the direction of John Wayne Dixon, the choir will perform Beethoven's Ninth Symphony at the Performing Arts Centre.

The choir may also be presenting work as part of the Festival of Wollongong or the 'Back to Wollongong' celebrations, and the year will conclude with a massed choral work for the choir as part of the All Nations Christmas Choral Festival. This event has funding from the State and local Bicentennial Committees, and is also organised by Sylvia Rice, who is president of the Illawarra Choral Society.

# Education: we still have much to learn

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encouragement of enterprise, flexibility, responsiveness and increased autonomy competes for attention with threats of increased controls.

The Green Paper foreshadows detailed negotiations by each institution with a controlling central bureaucracy, negotiations intended to conclude in an agreement which will be subject to surveillance and penalties for non-compliance. The payer will call every nuance of the piper's tune, unless the Federal Government shows maturity and wisdom when it makes its final decisions. The proposals easily could result in more control, less intelligently applied, with unintended negative consequences for the nation.

In summary, if you were to look at the goals of education over 200 years it would not seem possible that Sydney people, at least, could be anything but well-informed, logical, urbane and co-operative. Generations of teachers have striven to bring about that enlightenment whatever the difficulties of the land and the Australian temperament.

The result is creditable; the first 200 years have brought universal educational services of good quality throughout the nation; no mean accomplishment, but not enough for the future. The challenges ahead are such that it will be necessary to further reform school and higher education services in ways which enhance their quality and responsiveness to new needs. The problem, as in the past, is how to accomplish this.

## NEW HEAD FOR ABORIGINAL EDUCATION UNIT

Formerly with the Community Education Program of the Aboriginal Community College, South Australia, Mr Bob Randall has been appointed head of the Aboriginal Education Unit in this University.

Bob Randall was born at Angas Downs, Central Australia. He lived with his Pitjantjatjara family during his early days of childhood and placed in the bungalow at Alice Springs in Aranda country in a government institution for Aboriginal people. He then moved to Croken Island where he lived for many years with the Iwadjia people under the care and control of the Methodist Mission, in the Arnhemland Aboriginal Reserve.

Associated during that period of 28 years with the Maung-Gupapuyngu and Gunwinygu people of Arnhemland, Bob Randall during the past 13 years has lectured on Aboriginal culture to Aboriginal and non-Aboriginal groups in education institutions and to groups of people at different ages from pre-school to colleges as

well as churches, clubs and cross cultural training programs for company and government departments.

His personal style of presenting Aboriginal culture and the Australian Aboriginal experiences is described as stimulating, challenging and educational.

He was involved in the establishment and running of the Aboriginal Community College in Adelaide for five years. Bob Randall now wants to develop more links with the community in Wollongong so that its members can identify with the Aboriginal Education Unit as their own.

## EEO news....

### JOB SHARING CLOSE TO HOME

I would like to take this opportunity for 1988 to wish all the staff a Happy New Year and to thank you for the well-wishes I received during my time on maternity leave.

I look forward to meeting new staff who have joined during my absence and, as usual, extend an invitation to visit the unit and discuss any matter relating to your employment opportunities at the University.

Peg MacLeod, (whom I'd like to thank for doing such a great job holding the fort), will be staying on to share the position of EEO Co-ordinator until later in the year, so initially the arrangement for our attendance is:

Monday, Wednesday, and Tuesday (pm) Kathy Rozmeta

Thursday, Friday, and Tuesday (am) Peg MacLeod

Of course, this will be a flexible arrangement depending on commitments which might arise but will form the 'normal' pattern of events.

It is worth commenting at this time that the opportunity to job share is extremely important for people like me who have very young children, allowing, as it does, the combination of work with parenting responsibilities, and the University is once again displaying an enlightened and flexible attitude to such needs.

Having shared a similar position when my first child was young, I know how well it can work for all concerned (although a little more than a kilo of flesh is extracted from the incumbents).

With good planning, good communication and good will such arrangements work extremely well, and we look forward to it.

### STRATEGIES FOR 1988

To assist with our planning for 1988, any suggestions will be happily accepted - in terms of recruitment, selection, staff development, training, promotion, or conditions of service - from academic or general staff.

Remember, EEO is concerned with removing barriers to employment opportunities - to help us to co-ordinate activities in the right directions, as they affect you.

Please send your suggestions or consider joining one of our sub-committees - more on that later. If interested, please contact our office on 3917 or 3030.

Kathy Rozmeta  
EEO Co-ordinator  
Extension 3917

## Advertisements

### HOME FOR LEASE

Three bedroom, fully furnished home, three minutes walk to campus, available for lease from July 1988 to January 1989. Contact Ted Booth, ext 3878.

### FOR SALE

Mazda 626 Super Deluxe 1982, 5 speed, 4-door sedan, 2000cc, excellent condition, white, 86,000 km, 1 owner, LPG792. Features elect. op. sun-roof, central locking, radio-cassette, folding back seats, map reading lights. Price \$7950, includes regn. to Feb 1989. Phone John Ryan 287108.

### ACCOMMODATION WANTED

Urgently require accommodation - either solo or share - for the period late February to mid-June (ie first semester). I am a male senior lecturer, non-smoker, into quiet living, and the owner of a cat which can live happily outdoors. Please contact Laurance Splitter asap on (02) 8696254, or leave message on 270615 (Philosophy Department).

### TO LET

Town House - Mangerton Gardens - 3 bedrooms, 2 baths, 3 toilets. Woodlawn Ave, Mangerton. Rent \$150 per week. Phone 847910.



*New head of the Aboriginal Education Unit in The University of Wollongong is Mr Bob Randall. He took up his duties last Tuesday. He is located in Demountable 10, close by the Administration Building*