

Distributed each Tuesday

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Editor: George Wilson, Tel. (042) 270926

3 May 1988

## SURVIVING CRUELTY, KINDNESS

### *Heritage Week at The University of Wollongong*

Heritage Week at the University of Wollongong was unique: it was the first time, at this or any other NSW university, that the occasion was completely given over to Aboriginal heritage.

The University's Aboriginal Education Unit played the main role in the presentation of the Aboriginal Exhibition, the Public Questions Forum, the music, the dancing, the poetry reading and video showing.

Aboriginal elders from the Nowra region came, with many other Illawarra Aboriginal people. It was a good opportunity for the fostering of community understanding of the needs of Illawarra's Aboriginal people.

Until recently there has been widespread ignorance and lack of interest in the Australian community concerning the original inhabitants of this continent.



*Traditional Aboriginal dancers perform on campus as part of Heritage Week. This is David Ngoombujarra*

Historians gave the matter little or no attention. Australian history itself, of course, was not seen as being of much importance in the universities until the 1960s when the number of Australian history books published began steadily to increase.

But a popular university text published in 1965 had only a few passing references to Aborigines and the word did not appear in the index, a fairly common occurrence even as late as 1980.

Professor Manning Clark was an exception. The first volume of his massive *History of Australia* began with a long section about the Australian Aborigines.

But most historians saw Australian history as beginning in 1788. That falsification has now been dispelled.

*continued on page 4*

## New Deputy Chancellor

Assistant Director-General of the Department of Education, Mr Brian Gillett, has been elected Deputy-Chancellor of The University of Wollongong.

Mr Gillett replaces the former Deputy-Chancellor and Speaker and Member for Corrimal, Mr Laurie Kelly. When he ceased to be a member of the Legislative Assembly, Mr Kelly ceased also to be a University Council member and Deputy-Chancellor.

The University welcomes Mr Gillett's appointment. Along with his 35 years of experience in the Department of

Education, he was a member of the Wollongong University College Council and has been a member of the University of Wollongong Council since its foundation in January 1975.

In addition to his long association with the University, Mr Gillett has worked for a number of years in the South Coast region. In 1971, he was appointed Assistant Director, South Coast. He became Director the next year and held this position until 1983.

Before coming to the South Coast, Mr Gillett was a teacher, a Deputy-Principal, and Inspector of Schools. He has been Assistant Director-General (Resources) since 1983, with responsibility for personnel, properties and industrial relations in the Department of Education.

*continued on page 2*



# General Notices

## May Graduation

Next week there will be seven graduation ceremonies. Details are as follow:

**10.30 am Tuesday May 10** (Guest Speaker: Professor Manning Clark)

**Arts** -- BA (Ananiadis to Milne); BA-Hons (Barea to Kahraman). all other Arts and Creative Arts degrees and diplomas.

**2.30 pm Tuesday May 10** (Guest Speaker: Dr Margaret Bennett)

**Science** -- All degrees and diplomas in Science, including Environmental Science, Sports Science, Applied Science.

**10.30 am Wednesday May 11** (Guest Speaker: Dr David Charles)

**Arts** -- BA (Mitchell to Zogbee); BA-Hons (Lattimer to Young)

**Engineering** -- All Engineering and Metallurgy degrees and diplomas, including BMath/BE.

**10.30 am Thursday May 12** (Guest Speaker: Mr Michael Gross)

**Commerce** -- BCom (Abercrombie to Kennedy); BCom-Hons

**Mathematical Sciences** -- All Computing Science and Mathematics degrees and diplomas.

**2.30 pm Thursday May 12** (Guest Speaker: Mr John Avery)

**Commerce** -- BCom (Kerr to Yeh). All other Commerce degrees and diplomas, including AssocDipAdmin, AssocDipComp and GradDipEdStud(School Admin).

**10.30 am Friday May 13** (Guest Speaker: Dr Terry Metherell)

**Education** -- BEd (excluding conversion courses); DipTeach-Primary Conversion; GradDipEdS DipEd; GradDipEd; MStudEd.

**2.30 pm Friday May 13** (Guest Speaker: Oodgeroo)

**Education** -- BEd (conversion courses only); DipTeach-Primary (non-conversion).

P.G. Wood  
Assistant Secretary, Academic Services

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## New Deputy Chancellor *from page 1*

In his farewell address to Mr Kelly, the University Chancellor, Mr Justice Hope, spoke of Mr Kelly's ten-year term as Deputy-Chancellor which involved chairmanship of important committees such as the Administrative Committee and the Council Committee of Appeal. Mr Kelly had chaired successive committees overseeing the management of the Halls of Residence.

The Chancellor noted Mr Kelly's promotion of the University's interests in the region and elsewhere. He had been able to bring the community to the University and the University to the community.



*Professor Gooneratne delivering the launching address. Professor Gooneratne is a widely published poet, has edited several anthologies of writing from Asia, and has published critical books on Jane Austen and Ruth Praver Jhabwala*

## BOOK LAUNCHING

On Friday April 15 The New Literatures Research Centre hosted the launching of *Raja Rao and Cultural Tradition* (New Delhi: Sterling Publishers, 1987) by Dr Paul Sharrad. Associate Professor Yasmine Gooneratne, Director of the Macquarie Unit for Studies in the New Literatures in English, gave a launching speech following a welcome from Dr James Wieland, NLRC Director. The Australasian representative of Sterling Publishers, Dr Kapil Tiwari of Victoria University Wellington, was also present.

Raja Rao, in Professor Gooneratne's words, is 'one of India's most important writers of English fiction (who) blends philosophy and imaginative writing in a very individual way.' His work includes the fictional recounting of Gandhi's non-cooperation campaign in a small South Indian village (*Kanthapura*, 1938) and a complex novel depicting the social, intellectual and spiritual processes of a Brahmin postgraduate student in France (*The Serpent and the Rope*, 1960). To quote Professor Gooneratne: 'In the originality and range of his mind, and the difficulty of his style, Rao has much in common with Patrick White.'

Dr Sharrad's study looks at ideas of culture and tradition as found in Rao's work and assesses these and critical responses to Rao within a framework of 'metropolitan' and 'provincial' cultural tensions partly generated by colonial history. He argues for the artistic success of the novels, claiming that their internal cultural dynamics are more flexible and ironic than the limiting views of 'Indianness' and traditional espoused by some critics and by the novelist himself. To cite Professor Gooneratne again, 'I am grateful to Paul for having written a book that steers clear of deification and hero-worship, and instead places critical emphasis squarely where ... it belongs: on the quality of Raja Rao's art ... it stands as the most comprehensive and perceptive full-length treatment of Raja Rao that has yet appeared.'

## CEREMONIAL AND HONORARY AWARDS

### Fellow of the University

At its meeting held on April 15 the University Council approved the award of University Fellowships to Mr John Bell, Mr Gerry Freed and Dr Winifred Mitchell.

*Mr John Bell* was appointed Estate Manager in October 1973 and served the University in that role until he retired in December 1983. The University's current

landscaping and many of its buildings are testimony to John Bell's early efforts and initiative.

Mr Gerry Freed is currently a Director of the Illawarra Technology Centre within the University. Mr Freed is an engineer with special expertise in computing, design and business development. He has devoted valuable time and talent to promoting the University's technology transfer and business development efforts.

Dr Winifred Mitchell is well known within the University and the community. She has been a teacher and researcher in history, with a special interest in local and trade union history and has served as a member of University Committees and is currently a member of the University Council. Dr Mitchell is known for her concern for the welfare of staff and students and for using her skills and knowledge to help in the development of the community. This year she was admitted to Membership of the Order of Australia.

#### Honorary Doctorate

On April 15 Council also approved the award of an Honorary Doctor of Science degree to Professor H.K. Worner, Director of the University's Microwave Applications Centre. Professor Worner came to the University after a long and distinguished career in industry and government appointments. Under his leadership the Microwave Applications Centre has earned a reputation as a key centre of innovative research. This year the Centre secured a grant of \$1m from Muswellbrook Energy and Minerals Ltd.

These fellowships and the Honorary Doctor of Science will be conferred by the Chancellor at next week's graduation ceremonies.

#### AWARD FOR PROFESSOR PETER ARNOLD AND DR BRIAN MOORE

Professor Peter Arnold and Dr Brian Moore of Mechanical Engineering have been awarded the George Julius Medal for 1987 for their paper 'Graphical Determination of Mass Flow Hopper Geometry Parameters' which was published in the Mechanical Engineering Transactions in 1987.

The award is made annually for the paper judged by the Institution and the Board of the College of Mechanical Engineers to be the most outstanding in the discipline of mechanical engineering during the previous 12 months.

The presentation is to be made at the MECH 88 Congress dinner on May 11 in Brisbane.

#### TAFE 'MASTERS' EXHIBITION

The TAFE 'Masters' Exhibition is a representative body of over 150 works by 30 professional practising artists who are associated with the Wollongong West School of Art and Design.

The work is for purchase and is on display at the Long Gallery in the University until Sunday May 8. It was opened on Friday April 15 by Ted Hall, well known and respected artist and teacher of Wollongong West TAFE.

Since the early 'seventies the efficacy of the School of Art and Design through the instrument of the staff and the qualities they brought to their teaching, has permeated the Illawarra Region.

Nearly every practising artist, teacher or collector of art has been influenced, in some degree, by the impact of the educational courses and thrust of the School, and by the

wide range of diverse artistic experience and philosophies offered by the staff, which are apparent in the show.

Represented is a body of work by artists who are consistently perceived to be in the leading edge of contemporary art culture, traditional and activity in the region.

The exhibition has no major political or educational issue as the crux but is rather a whimsical self-appraisal of the position the staff feel they need to occupy in their roles within the Institution.

It is also apparent by the degree of support engendered in the University for the continuing exhibitions of TAFE staff, that there is a strong and viable link, in the areas of educational and artistic development in the region, and for which the community is enriched.

Peter Wilde

Senior Head Teacher, Art and Design

#### SCHOOL OF CREATIVE ARTS VISITING ARTISTS AND WRITERS

##### Artists:

Mr Jelle Van de Berg is Artist in Residence until May 18 (three days a week).

Ian Watson is Artist in Residence until May 13 (three days per week).

Direct work with students is two or three-hour sessions each Tuesday, Wednesday and Thursday from 2 pm.

Project with students completed May 13. Film then to be taken for processing.

Mr N. Tsoutas from Monday August 1 to Wednesday August 17 (three days per week).

Workshops will be held to allow students 'hands on' experience in Performance Art.

Gerald English, September 12 to October 6 (details later).

##### Writers:

Writers in Residence in the School of Creative Arts in the months ahead will include Louis Nowra, July 18 to September 15, and Jonathan Harvey, August 15 to 19.

#### JUNO AND THE PAYCOCK

Theatre South's first play in its 1988 subscription season is one of Sean O'Casey's Irish classics, *Juno and the Paycock*, and follows on the company's tradition of exploring Irish life seen through the 1981 production of *Playboy of the Western World* and in 1986 *Factory Girls*.

This production also begins a new tradition of association with The University of Wollongong through traineeship-style involvement with the School of Creative Arts. Senior theatre students at the school will be assisting in the production side of the show and filling some of the minor acting roles. Jeff Kevin (Head of the Theatre Department of the School) plays the role of Joxer, alongside fellow NIDA graduates John Paramor and Lainie Grugan, and Faye Montgomery as Juno. Other roles are filled by new company members – three of whom are graduating students of the School.

Directed by Des Davis, the play describes the struggle for life of a Dublin family in 1922, during the civil war between the new Irish Free State and the diehard Republican Army. O'Casey's incisive writing couches the full weight of human tragedy within a delightfully warm narrative full of gusto and good humour.

*Juno and the Paycock* at the Bridge Theatre, Coniston, each Wednesday to Saturday (with Saturday matinees) until May 14. Bookings on 29 6144.

# Surviving Cruelty, Kindness

from page 1

That there was a great deal of source material available was obvious when historians after 1968 began including Aborigines in their researches.

There were accounts by Cook and other explorers, governors and government officials, settlers and churchmen; there were items in newspapers beginning with the *Sydney Gazette* and including *The Illawarra Mercury* from the mid-1850s.

Obviously the governors started with good intentions and benevolent policies.

But at the same time as they uttered stern warnings against cruelty they also declared the white settler should not suffer the invasion of his property, to preserve which he was to use effectual means of resisting such attacks.

There was no recognition of the Aboriginal rights to the land, no understanding that the land was the basis of the Aboriginal economy, social organisation, spiritual beliefs and culture.

The government claimed all land for 'the Crown' and until 1830 gave large areas away to those white inhabitants it considered deserving; from 1831 it was sold according to the wealth of the new inhabitants.

The Aborigines became trespassers on their traditional hunting grounds. Whenever there was confrontation the government aided the settlers.

The same benevolent intentions of colonial governments resulted in the enforced segregation of Aboriginal people into reserves or Christian mission stations, the assimilation of the children of mixed Aboriginal and white parents and the exclusion of full-blood Aborigines from the census until 1967.

Even the correcting of the nineteenth century misconceptions and ignorance about the nature of the Aboriginal economy and social organisation, which developed in the 1930s as a result of the work of anthropologists, brought few changes in official practice. Children continued to be separated from parents. Aboriginal workers were paid less than white workers.

Australian society has undergone great change since the World War II. Many long-held prejudices have been weakened either through learning from other nations' experiences or our own.

The population has become a multicultural one; the 'assimilation' approach to people of non-Anglo-Saxon stock has become instead one of 'integration'. We have ethnic radio and television.

Open expressions of racism are frowned upon. Genuine efforts have been made by governments to extend educational opportunities, help groups suffering deprivation, especially when these groups continuously articulate and lobby for their needs.

The white conscience has exercised itself more as prejudices have lessened; educators like historians have widened their field; there has been a linking by individual deprived groups with the needs of others.

All this has aided the Aboriginal cause.

But the Aborigines' own voice has become louder, particularly in regard to land rights and self-management.

There is a deep pride in their knowledge they have survived invasion and all the efforts to exterminate them by cruelty or kindness.

They are very conscious of their own identity and their need to retain that identity, linked inseparably for all Aboriginal people with the land.

It is hard for white people to understand the deep spiritual affinity Aborigines have with the earth.

We see land as something which can be bought and sold for a profit, not something integral to our very being as they do. Nor do many of the Illawarra's white community think of the thousands of years the region's Aborigines lived in the hills and around the shores of the southern coast, as the many kitchen middens and carvings and pictures on cave walls testify.

The ancestors of some of the Aboriginal people still living in the Shoalhaven region were first dispossessed when Alexander Berry acquired 10,000 acres near Mount Coolangatta, a place of traditional importance to the original inhabitants and to Aborigines today.

As Berry and his family, then other settlers, took up more and more land around the Shoalhaven River, the Aborigines were squeezed into an ever-decreasing area, finally into an Aboriginal Reserve at Roseby Park.

The Jerringa tribal elders have struggled ever since to maintain their land and their existence. In 1977 they made an official claim for land rights. The story of their experiences since is one of determination in the face of continuous frustration and disappointment, as white development presses closer to their homes and their burial ground.

During the past 15 years the Jerringa people have been aided by the South Coast Labour Council and other white friends. The Australia-wide campaign for land rights and self-management has reached a peak in 1988; the Catholic Church, the Anglican and the Uniting Church have all declared the aims to be just ones.

*The article above is a very lightly edited version of an article by Dr Winifred Mitchell and published in the Illawarra Mercury on April 16.*

Dr Mitchell chaired Wollongong University forum during the Aboriginal Education Unit's Heritage Week program. Unit co-ordinator Bob Randall and Wollongong Aboriginal Community Centre officer Linda Davis spoke in the Amphitheatre. An exhibition of Aboriginal artifacts and photographs in the Union Common Room was officially opened by the Vice-Chancellor, Professor Ken McKinnon.

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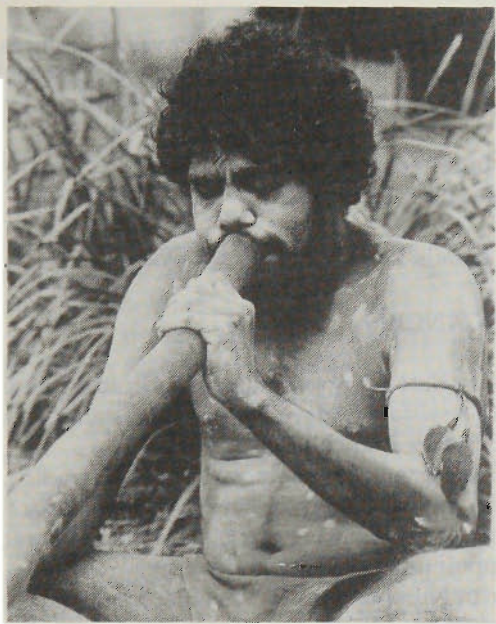
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Above: children from local primary schools came to the University for Heritage Week and some, as here, enjoy themselves hugely as they join in a traditional dance in the new amphitheatre. Left: Aboriginal music from Mark Saunders



Above: Ms Annabel Lloyd, University Library Archivist, at the opening of 'The University in Perspective' photographic exhibition



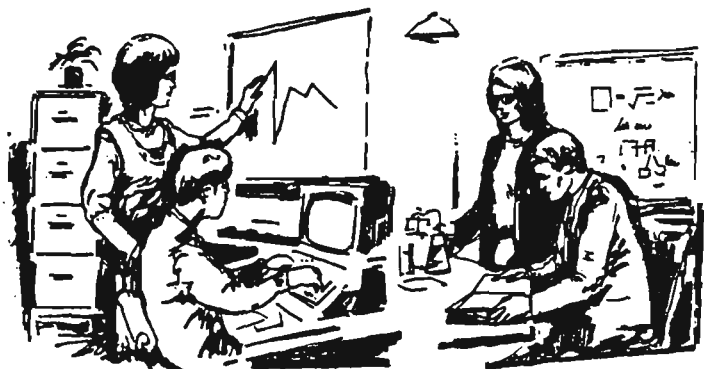
Aboriginal poet Lilian Crombie reads some of her verse at the forum arranged for the week of celebration

## THE ART OF LUNCH

In the School of Creative Arts series entitled The Art of Lunch we have on May 5 final-year Creative Arts music student David Aston (baritone) and Effie Kandias (soprano). They will present a recital which will include works by Faure, Bach and Vaughan Williams.

On May 12 students of the textiles studio will be led by Liz Jeneid in a *Textiles Event*.

This highly imaginative and entertaining lunchtime series is held in the Music Auditorium from 12.35 to 1.25 pm. And it's free.



## Staff Roundup

### MAJOR CHANGES TO SUPERANNUATION

April 1 saw the final implementation of the 1986 3 per cent Superannuation decision. Essentially, the decision was to grant to employees a 3 per cent pay rise which was to be paid in the form of contributions to a Superannuation Fund.

In respect of the State Superannuation Fund (SSF) and the State Public Service Superannuation Fund (SPSSF), the State Superannuation Board has made adjustments to those funds to increase the final benefit payable by 3 per cent.

The Superannuation Scheme for Australian Universities (SSAU) has made the same arrangements as the State Superannuation Board.

#### *State Authorities Superannuation Scheme*

SASS is the State Authorities Superannuation Scheme which came into effect from April 1. It replaces the schemes mentioned above for all new general staff employees and for general staff not covered by existing superannuation schemes. It consists of two parts: a basic benefit of 3 per cent which the University pays to the fund for all employees, including casual and part-time staff. These monies are administered by the fund and become available as a lump sum to each employee at age 55. In addition, there is provision for contributory membership. All eligible employees will be individually contacted by the fund and offered contributory membership.

#### *Leave without pay*

The new scheme (SASS) includes changed provisions in regard to contributions during periods of leave without pay. Essentially, where a period of leave without pay covers a full calendar month (eg, all of the month of June), employees will be required to meet employer's contributions for that month. Where a period of leave without pay covers parts of months (eg part of June and/or part of July) there will be no requirement to meet the employers contributions for those periods. This is a substantial change from procedures under the older schemes where employer's contributions had to be met for periods of over three months. The conditions for leave without pay under the older schemes remain essentially unchanged.

Inquiries to Chris Grange on ext 3929 or Barbara Smith on ext 3914.

### ADVANCE NOTICE -- CONFERENCES

Improving University Teaching, Fourteenth International Conference, June 20 - 23, Umea, Sweden.

International Conference on Public Administration (International Association of Schools and Institutes of Public Administration), July 4 - 12, Brisbane.

Adult Education in Australia -- A Future Oriented Field of Practice? National Adult Education School, July 24 - 27, Armidale. *Call for papers.*

Fifth National Evaluation Conference, Australasian Evaluation Society, July 27 - 29, Melbourne. *Call for papers.*

17th International Federation of Training and Development Organisations World Conference, Restructuring: The Human Resources Challenge, August 29 - September 1, Tokyo, Japan.

Continuing Professional Education, A Follow-up to the 1st National Conference, September 4 - 6, Armidale.

Restructuring Industrialisation Strategies: Microelectronics and New Work Practices, September 12 to October 21, Brighton, England.

AITEA National Conference, Tertiary Education Towards 2000: Challenges and Strategies, September 22 - 25, Macquarie University. *Call for papers.*

International Conference on Ergonomics, Occupational Safety and Health and the Environment, October 24 - 28, Beijing, China.

National TAFE Conference, 3rd Annual Conference, October 30 to November 1, Canberra.

National Health Policies: Instruments for Implementation, October 31 to December 9, Brighton, England.

Conference: Engineering and the Physical Sciences in Medicine 1989, Australasian College of Physical Scientists in Medicine, August 28 - August 31, 1989, Hamilton, New Zealand.

Second International Scientific Conference: Work with Display Units 1989, September 11 - 14, 1989, Montreal, Canada.

Further details Wendy Raikes, ext 3946.

### STAFF VACANCIES

The closing date for applications is indicated in italics.

- \* Graduate Assistant/Administrative Assistant Grade 1, Personnel Services Branch, *May 6.*
- \* Research Assistant, Psychology, Limited Term to October 1988, approximately 26 hours per week, *May 6.*
- + Co-ordinator, Student Learning Assistance Program, Contract Appointment of 3 years, *May 13.*
- + Lecturer in Nursing, Health Sciences, Limited Term - 5 years (convertible), *May 20.*
- + Research Associate, Mathematics, Contract 2 years, *June 3.*
- + Lecturer, Mechanical Engineering, Continuing or Limited Term - 5 years (convertible), *June 3.*
- + Senior Lecturer/Lecturer (2 positions), Electrical and Computer Engineering, Continuing or Limited Term - 5 years, *June 3.*
- + Lecturer, Geology, Limited Term - 5 years (Convertible), *June 3.*
- + Lecturer, History and Politics, Limited Term - 5 years (Convertible), *June 3.*

Further details: for those vacancies marked \*, Gary Graham, ext 3935, for those vacancies marked +, Ross Walker, ext 3934.

### STAFF CHANGES

#### New Starters

- Mr D. Shaw, Research Assistant, Sociology.
- Ms L.M. Dwyer, Typist/Office Assistant, Uniadvice.
- Mr G.R. Noble, Research Assistant, Centre for Multicultural Studies.
- Mr R. Beattie, Revenue Clerk, Financial Services.

# 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 Harriss (ext 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Research and Post-graduate Studies.

## FRENCH GOVERNMENT SCIENTIFIC FELLOWSHIP 1989-90

The French Government is offering a limited number of Fellowships to enable Australian citizens working in scientific fields to visit France for three to six months in the period February to December 1989.

Applicants must present a detailed program including advice of acceptance from a French institution and preferably be 25 to 45 years of age.

## PREVIOUSLY REPORTED IN CAMPUS NEWS

	Internal Closing
NERDDC Project Grants	May 6
Australia-China Education	
Co-operation Program	May 17
National Heart Foundation	May 17
Australia-China Education	
Co-operation Program	June 16
Australian Academy of Humanities	
Grant-in-Aid	June 16
RV Franklin Ship Time	June 16
Clive and Vera Ramaciotti Foundation Grants	June 16
The Australian Academy of Science	
and Australian Academy of Technological	
Sciences and Engineering UK Exchange	June 17
Academy of Science China Exchange	November 17
Earthwatch	Any time
Criminology Research	Any time
Pig Research Council -- Support for	
Eminent Visitors	Any time
MERA Project Grants	Any time
Clive and Vera Ramaciotti Travel Grants	Any time
James N Kirby Foundation	Any time
Telecom Research Laboratories	Any time
NSW State Cancer Council	
Travel Grants-in-aid	Any time

## ANNUAL UNIVERSITY SERVICE

You are invited to attend the 1988 University Service on Sunday May 15, 7 pm, at St Michael's Anglican Cathedral, Church Street, Wollongong. Speaker will be The Rev'd Dr W.J. Lawton, BD (Lond), MA (Syd), Th.Schol. (ACT), PhD (UNSW), Lecturer in Church History and Dean of Students Moore Theological College, Sydney.

University staff are invited to join Academic Procession for which academic dress should be worn.

RSVP by May 10, telephone 289132 (9 am to 5 pm).

# EEO news....

## UNDERSTANDING AND USING AUSTRALIAN PRONUNCIATION

We have been advised by the Adult Migrant Education Service of the availability of a course 'Understanding and Using Australian Pronunciation' -- a remedial pronunciation program. The course runs for ten weeks, for one hour a week, between the hours of 9 am and 2.30 pm on Mondays and Tuesdays, with sessions conducted in small groups or individually.

If you are interested in improving your English pronunciation and would like to participate in this program in your own time, please contact Jean Bell at the Adult Migrant Education Service (phone 28 7919) to arrange a suitable time. Staff who have attended the 'English-on-the-Job' classes, may find this course a useful follow-on for improving language skills.

There is no cost involved in attending the course, the only qualification being that it is open to permanent residents of Australia. Please tell your friends.

Kathy Rozmeta,  
EEO Co-ordinator

## SPACE AND THE ARMS RACE

### Weapons in space or arms control from space

On the eve of a major conference 'Checking the Arms Race' -- to be held in Sydney May 13 to 15 -- two of the international keynote speakers will give a lunchtime address at The University of Wollongong.

Professor Kosta Tsipis, who is Director of the Program in Science and Technology for International Security, Massachusetts Institute of Technology, will speak on the development of the arms race in space.

Dr Bhupendra Jasani, Program Director on Space and International Security at the Royal United Services Institute, London, will talk on the use of satellites for the independent verification of arms treaties.

Thursday May 12, 12.30 to 1.30 pm, Pentagon Lecture Theatre 2.

Professor Kosta Tsipis trained originally as an electrical engineer, and went on to receive his PhD in high-energy particle physics. In 1966 he joined the faculty of MIT, later becoming a Fellow of MIT's Centre for International Studies and a researcher for SIPRI, before taking up his present position. He has written numerous articles on weapons technology and arms control, and has recently published the book *Understanding Nuclear Weapons*.

Dr Bhupendra Jasani, formerly of the Stockholm International Peace Research Institute (SIPRI), trained as a nuclear physicist and is now an expert on satellites and remote sensing. He has contributed to each SIPRI *Yearbook* since 1973, and is author or editor of numerous books on space and arms control, including *Outer Space -- Battlefield of the Future?*, *Outer Space -- a New Dimension of the Arms Race* and *The ABM Treaty: to Defend or not to Defend?*

Sponsored by the Physics Department, Australian Institute of Physics, Scientists Against Nuclear Arms (Illawarra), and STS Postgraduate Association.

## Seminars

### DEPARTMENT OF CIVIL AND MINING ENGINEERING POSTGRADUATE RESEARCH

Date and time: Wednesday May 4, 12.30 pm  
Topic: The Influence on Steel Tubular Strut Load Capacity of Strain Hardening, Strain Aging and the Bauschinger Effect.  
Speaker: Ms Jing Ping Lu, PhD student, Department of Civil and Mining Engineering, The University of Wollongong  
Venue: Photogrammetry Room, Building 3/138, Civil and Mining Engineering Department

Dr M. Sivakumar  
Seminar Convenor, Ext 3055

### DEPARTMENT OF BIOLOGY SEMINAR SERIES

Wednesdays 3.30 pm, Building 35, Room G19.  
May 4. Dr Lesley Head, Geography Department, The University of Wollongong.  
*Pollen and charcoal as evidence of Aboriginal impacts on Australian vegetation.*  
May 11. Dr Beverly Walker, Botany Department, University of Western Australia (now Biology, The University of Wollongong).  
*Plant hormones and the control of flowering.*

### DEPARTMENT OF BIOLOGY BIOMEDICAL EVENING SEMINARS

Each seminar will be preceded by a char-grill dinner at 6.30 pm in the Union Bistro. Those interested in attending the dinner should contact Dr E.J. Steele, so that appropriate bookings may be made. Seminars begin at 8 pm in Lecture Theatre G19 Building 35. (The assistance of Dr Stephen Andersen is acknowledged).

May 4. A *Flow Laboratory* seminar on the Cellular Basis of Vision. Dr I.G. Morgan, Visual Sciences Research Group, Research School of Biological Science, ANU.  
*Directional Selectivity in Vision: from algorithm to the cellular basis.*  
May 11. A *Bio-Rad* seminar on Molecular Biology of Sex Determination. Dr K.C. Reed, Department of Biochemistry, Australian National University.  
*Sex and the Single Cow.*

### DEPARTMENT OF MECHANICAL ENGINEERING POSTGRADUATE SEMINARS

Time: 11 am (Friday)  
Venue: Department of Mechanical Engineering Seminar Room, Building 8.  
May 6  
Speaker: Philip Goodison  
Title: A Comparative Study of Alternative Methods for Estimating Hopper Flow Factors

### SCIENCE AND TECHNOLOGY STUDIES

Date and time: May 11, 1.30 pm  
Topic: How to ideologically indoctrinate students  
Speaker: Stan Aungles  
Venue: Building 19, Room 2061

### DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING

Time: Monday 4.30 to 5.30 pm  
Venue: Room 1.121, Department of Metallurgy and Materials Engineering.  
The maximum duration of the seminar is one hour, starting promptly at 4.30 pm. At least ten minutes should be allowed for discussion.  
May 9  
Speaker: Yu Aibing  
Title: Porosity of Multicomponent Mixtures  
May 16  
Speaker: Hardjatmo  
Title: Liberation of Minerals in Finely Disseminated Ores

### WOMEN'S STUDIES

Topic: Chloe and Olivia: Fictions of Female Friendship  
Speaker: Ms Dorothy Jones (English)  
Date: May 10  
Time: 6.30 pm  
Venue: Building 19, room 2058  
Students and staff welcome. Inquiries: Sue Uniacke, Philosophy, ext 3604.

### SCHOOL OF CREATIVE ARTS POSTGRADUATE SEMINARS

All sessions will be held in the Music Centre, 2.30 to 5.30 pm.  
May 6.  
*Evaluation of Works of Art in a Postmodern Era.*  
Speakers: Andrew Schultz, Ann Cranny-Francis, Bert Flugelman. Chair: Richard Hook.

## Advertisements

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### SALE BY TENDER

The University has for sale by tender:

1. Ford Dual Cab 1.4 tonne truck - Reg No. NQM 753
2. Ford Fairlane Sedan - Reg No NVM 242
3. Ford LTD Sedan - Reg No WU 042

No guarantee is offered. Terms of sale are cash or bank cheque. For inspection call (1) Mr G. Caines (042) 270041, (2) and (3) Mr G Parsons (042) 270936.

Tenders close 11.30 am May 6. Tenders should be placed in a sealed enveloped addressed to The Supply Office, University of Wollongong, PO Box 1144, Wollongong, 2500 and noted on the outside from 'Tender for Vehicle (Reg No):'.

### COMPUTER SALE

PC10 Commodore Personal Computers. 640kB RAM, Serial and Parallel Printer parts, advanced colour graphics adaptor, dual 360kB 5.25" disk drives. C/W full colour monitor only \$1699, or C/W Monochrome monitor only \$1299, 20MB hard disk drive only \$550. Contact ITC Computer Training, tel 268884.

### ACCOMMODATION REQUIRED

A British lecturer and her family seek to rent a house or a flat convenient to the University and suitable for two adults and two young children; July 1 to November 30 (approx). Please contact Dr Gerald Nanson, Department of Geography, ext 3631 or home 846461.