THE UNIVERSITY OF WOLLONGONG
CAMPUS NEWS

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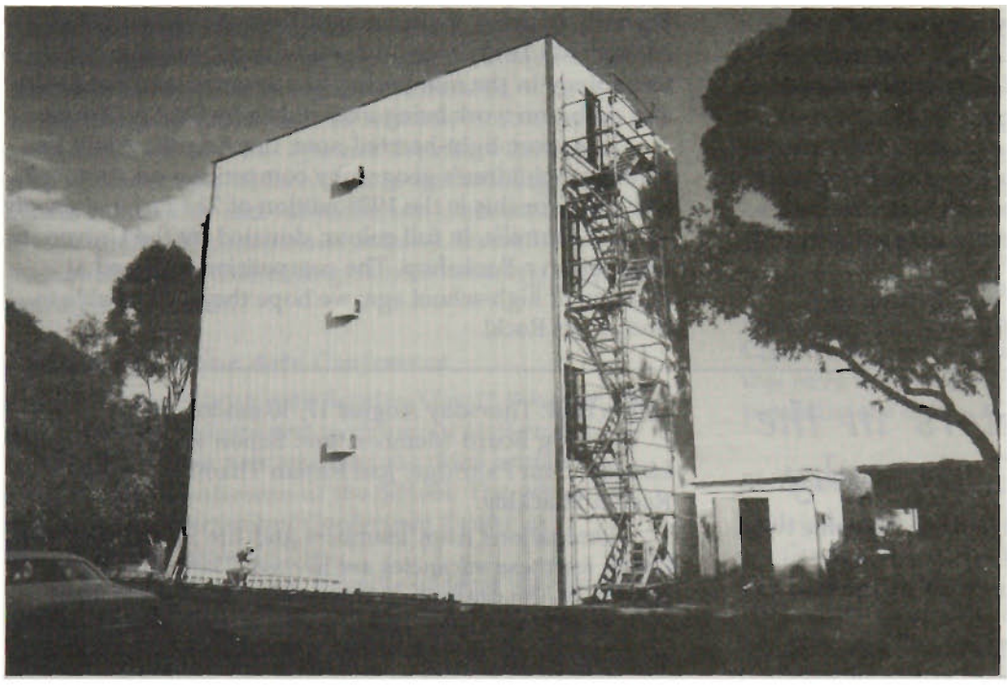
1 August 1989

Wollongong Cryogenic Expertise



On the left is the four-storey simulator used to house the three-storey building facade under test and, on the right, a very cold John Montagner...

Dr John Montagner and Tony Kent of the Mechanical Engineering department took part in July in an interesting testing program involving the cryogenic cooling of a three-storey building.

When the designers of a 52-storey building, as yet unnamed and known only as 'The 101 Collins Street Project', for the Melbourne CBD, wanted to ensure quality assurance during construction they specified extensive curtain wall testing. This included the usual air and water penetration tests, structural distortion due to impressed wind and dead loads and, in addition, they required thermal stress cycling to simulate a one-in-50-year temperature extreme. This required that the building facade be heated to +82 degree C and then cooled to –5 degree C for five cycles of eight hours each.

Consultant engineers Ian Bennie and Associates constructed a very large simulator on the grounds of the CSIRO at Highett: large enough to house *three storeys* of typical building facade. This included approximately eight tonnes of granite facade, typical window panels, aluminium extrusions and all the associated mounting hardware.

The heating apparatus, which became known to the locals as the 'biggest toaster in the world', was built in Australia to USA specifications. To appreciate its size, consider that it was approximately 20 metres long and three storeys high and consumed on full load some 350 amps at 415 volts.

The cooling apparatus was designed and built to Wollongong specifications, including all the cryogenic nozzels, piping layout and the automatic controller and it consumed several tonnes of liquid nitrogen.

The successful completion of the project is an example of Wollongong University helping industry solve an unusual problem.

The only negative aspect of the project was the lack of sleep experienced by John and Tony during the 40 hours of testing, brought about by the four-hours-on-fours-off nature of the schedule.

The Art of Lunch
Every Thursday from
12.35 to 1.25 pm

General Notices

Geography Awareness Week to August 4

The Department of Geography is taking part in a national Geography Awareness Week, co-ordinated by the Institute of Australian Geographers. The aim of the week is to increase public awareness of geography, and in particular of the contribution that geographers are making to the current debate about the environment. A related aim is to heighten awareness of geographical issues in schools: this follows recent statements by travel agents that they could not find employable school leavers, as none of them knew the location of Ayres Rock or the Barrier Reef!

The activities of Geography Awareness Week are therefore directed primarily towards the schools and the public, rather than to the University. During this week, a group of geography teachers from the Illawarra will be visiting the department for a series of workshop sessions, geared especially towards the changes in the HSC syllabus. This program is being co-ordinated by Professor Murray Wilson and the Australian Geography Teachers' Association, and will feature sessions on water resources, third-world development, and changes in manufacturing industry.

A further link with schools will be a meeting with careers advisors in the Illawarra to keep them informed about the changing nature of University Geography and Environmental Science. Dr Lesley Head will be talking to the monthly meeting of the careers advisors group and will be making use of a leaflet she has compiled on 'Jobs and Geography' featuring some recent graduates from the department.

The Department of Geography is also aiming at the general public with some feature articles in the *Illawarra Mercury* and the *Advertiser*, highlighting the ways in which academic research is being used for the benefit of the community. Some examples of this include Dr Ted Bryant's work on environmental hazards and climatic change; Ms Toni O'Neill's use of remote sensing technology in the monitoring of resources; and the health and pollution work being undertaken by Dr Ann Young.

On a more light-hearted note, the *Advertiser* will be running a children's geography competition on August 2. The prize for this is the 1988 edition of *The Pictorial Family Atlas of Australia*, in full colour, donated by the University Co-operative Bookshop. The competition is aimed at children of high-school age; we hope they will be able to find Ayres Rock!

Distinguished visitors in the Department of Geography

The Geography Department is delighted to welcome two geography lecturers, from England who have been brought here, from England, under the Distinguished Visitors scheme.

Dr Brian Chalkley, Principal Lecturer in the Department of Geographical Sciences at Polytechnic South West (formerly Plymouth Polytechnic), has joined the department for five weeks. He is a leading expert in the economic geography of small firms in the United Kingdom, and is particularly interested in the role that small firms can play in economic regeneration. He is keen to explore the workings of the industrial property market in Australia, and will be working mainly with Professor Murray Wilson and Dr Hilary Winchester.

Dr David Knighton, Reader in the Department of Geography at the University of Sheffield, will be staying for an extended period of study leave. Dr Knighton has written extensively on the adjustment of river channels to natural and human-induced phenomena.

He will be studying river erosion and channel change in various parts of eastern Australia and Tasmania, including the Hunter Valley of New South Wales, and the channel country of Queensland. He is looking forward to an intensive period of fieldwork and research with Associate Professor Gerald Nanson.

Board of Management Elections

Elections for the 1989–90 Board of Management of the University Union will be held on Wednesday and Thursday August 16 and 17. Polling arrangements are – Union Hall: Wednesday August 16, 11 am to 6.30 pm. Union Hall: Thursday August 17, 10 am to 5 pm.

Retiring Board Members are: Simon Huntly, Monique Licardy, Sam Paltridge, Joel Rasiah Thambipillai and Raelyn Shackley.

Nominations from members and life members of the Union for these vacancies are invited. They must be in writing on the prescribed form which may be obtained from the Union Office and must be signed by a nominator and a seconder, both of whom must be either members or life members of the Union (excluding staff unless they are also students or members of staff of the University or Life Members).

Nominations close at noon on Monday August 7, by which time completed nomination forms must be delivered by the candidate in person at the Union Office and a receipt obtained. Copies of the 'Regulations Governing the Conduct of Elections' are available from the Union Office.

There will be postal voting in accordance with Clause 8 iii) of the Regulations Governing the Conduct of Elections. Registration for postal votes will open in conjunction with the announcement of polling arrangements and will close 24 hours prior to the opening of polling. Postal votes will have to be returned to the Returning Officer, c/- The Union Office, or polling booth by the official closing time of the polls. There will be no proxy voting allowed. The draw for positions on the ballot paper will take place at 2 pm in the Office of the Secretary-Manager on Monday August 7. All candidates are invited to be present.

The list of candidates will be published in the Union from Wednesday August 9 onwards. These notices will contain full details of how the Polls will be conducted.

Noel Diffey
Returning Officer

Mr Michael Aitken, University of New South Wales, one of the participants in the first National Doctoral Consortium, with staff and students of Wollongong University's Department of Accountancy

Doctoral Consortium

The Department of Accountancy hosted the first National Doctoral Consortium at Wollongong University on July 7. The seminar topics revolved around various methodological approaches to research in accounting and created intense interest. Spirited debates were entered into, as proponents of such diverse methodologies as radical humanism and functionalism discussed the tenets of their preferred processes of enquiry. Overall, the day was intellectually challenging, morale boosting, good fun and a great success.

School of Creative Arts Conference

From Thursday May 8 until Sunday May 11 this year, 55 postgraduate students and members of staff from the School of Creative Arts attended the third annual Postgraduate Conference of the School. The venue this year was the Warrambui Conference Centre at Murrumbateman, near Yass.

The Thursday evening Keynote address was given by Dr Barry Conyngham, who will take up his appointment to the Chair of Creative Arts at the beginning of 1990. He centred his talk on the problems facing the practising artist in the academic setting, and ways in which academic and artistic activity can work to complement and enhance one another.

The topic for Session 2 was *Creating New Works from Art Past and Present*. In the chair was Ms Sue Rowley. Papers given and discussed were: Peter Shepherd, *The Tempest – Reclaiming The Classics;* Monica Barone, *Frankenstein;* Andrew Ford, *Musical Composition from Poetry;* Sue Rowley, *The Process of Appropriation.*

Session 3 was chaired by Mr Ron Pretty and speakers were: John Scott, *An Introduction to the Works of John Scott;* Dorothy Jones, *Australian Humour.*

Guest speaker for Session 4 was Mr Nigel Lendon, Deputy Director and Postgraduate Co-ordinator of the Canberra College of Art. His paper was based on work from his present research interests, *Aboriginality, The Use of Aboriginal Imagery by Non-Aboriginal Artists.*

Session 5 was chaired by Dr Shepherd, and dealt with the topic, *The Human Body as Inspiration for the Artist.* Papers were: Tony Hull, *The Body in Art;* Lindsay Duncan, *Images of Men;* Lisa Scott-Murphy, *The Body and Movement* – a Practical Workshop; John Storey, *The Diaries of Eddie Avenue, Astral Traveller.*

Session 6 on the Saturday evening was an opportunity for presentation of examples of artistic work, and included these presentations: John Borthwick, *The Bounty Voyage – A Photographic Record;* Mark McKirdy, *Historical Fiction – The Voyages of Captain Cook;* Kathrin McMiles, *The Goddesses;* Barry Conyngham, *Streams* – Composition for harp, flute and viola.

A fitting close to the conference on Sunday was a visit to the magnificent exhibition of Aboriginal Art, which filled one whole floor of the Australian National Gallery, Canberra.

The weekend provided an excellent opportunity for students and staff to get to know each other. One of the difficulties for people working and researching in the Creative Arts is the isolation involved. Sessions such as this have therefore proved to be of major importance in providing the links.

Union Annual Dinner

Friday August 11, Union Hall. Pre-dinner drinks 6.45 pm.

Guest speaker: Mr Greg Pickhaver, H.G. of H.G. and Roy.

Four-course meal, entertainment and music.

Tickets $20 members, $25 guest, now available from Union Reception.

Children's Gymnastics

As part of its community outreach activities, the University is offering classes in recreational gymnastics for children in classes K-6. Broadly-based movement experiences will be provided through the medium of gymnastics. The program emphasises co-ordination, balance, kinaesthetic awareness, confidence, and enjoyment. Activities are developmental and recreational rather than competitive.

Children will be instructed by Human Movement, Sports Science and Physical Education students under the supervision of Mrs Alison Milburn, telephone 28 0190.

Venue: Physical Education Gymnasium adjacent to the Administration Building.

Time: Thursday, 4 – 5 pm.

Dates: August 10 – September 21; October 12 – October 26.

Cost: $25 per semester (first child); $10 additional family members.

Application forms from Mrs Alison Milburn, Human Movement and Sports Science, The University of Wollongong, Northfields Avenue, Wollongong.

Building Activity On The Increase

After many months of planning and design work several major building projects have recently begun or are about to start. Current building activity includes:

Commerce Building (Project cost approx. $9 m).

The builder took possession of the site (west of Building 19) on June26 and completion is expected during the early part of 1991.

Illawarra Technology Centre – Stage 2 ($4.3 m)

Construction began in mid April and despite the continual wet weather is progressing well. The estimated date of completion is April 1990.

Swimming Pool ($820,000) north of Sports Centre

Construction began in March this year and the excavation was completed just in time for the rain to start. Unfortunately the wet weather has put this project well behind schedule but it is still hoped to have it completed by the end of the year.

Weerona Stage 2 ($2.8 m)

Construction started during June on this project to provide 100 additional student accommodation places, and completion is expected early in 1990.

Kooloobong Stage 3 ($2.5 m)

The contractural date of commencement was June 26, however the wet weather severely delayed progress. Completion is expected in the early part of 1990. Stage 3 will provide an additional 100 places.

New Animal House in Building 6 ($300,000)

Alterations to the former Maintenance Section area in Building 6 to provide a new Animal House facility began in April and completion is expected in October.

Building 5 Alterations and Refurbishment ($150,000)

Building 5, which was formerly part of the Maintenance area, is being altered and refurbished to provide additional Common Teaching Areas (a large lecture room and two tutorial rooms) and two offices. The work should be completed in October 1989.

Extensions to Building 7 for Mechanical Engineering Laboratory ($150,000)

Construction started in July and should be completed in October 1989.

Several other projects are under way or recently completed, including the internal refurbishment of the Union Bistro, Bar and Offices. Design work has started for a new General Science Building.

Busy but fruitful times!

K.E. Turnbull
Manager, Buildings and Grounds

What is AIESEC?

AIESEC (pronounced eye-sek) is a French acronym for International Association of Business and Management Students. It is the world's largest student-run organisation, with 69 member countries consisting of approximately 50,000 student members across 570 campuses. It is a non-profit, non-political organisation.

AIESEC was founded in 1948 by students from seven European countries. Today it operates from every habitable continent of the world, with the International Secretariat based in Brussels. The organisation has been operating in Australia for 25 years, involving 19 campuses and approximately 5,000 students. AIESEC Australia is endorsed by a wide range of individuals and organisations prominent in the Australian economy.

The goals of AIESEC are:

a) to promote greater understanding and internationalism between member countries by means of the 'Student Exchange Program';

b) to supplement theoretical studies with 'hands on' managerial and business experience;

c) to promote understanding between students, academics and business.

The newly formed Wollongong charter of AIESEC Australia held its launch on July 25 with a cocktail party at Wollongong University. The event was endorsed by the Lord Mayor, Alderman Frank Arkell, and supported by local businesses, academics and students.

Guest speakers included Alderman Arkell, Pro Vice-Chancellor, Professor Lauchlan Chipman, newly elect President, Chamber of Commerce, and Mr Martin Bean, past National and International AIESEC President, currently of Power Human Resources.

Sponsors were: BHP, Touche Ross, Barry Weston, Illawarra Credit Union, Faculty of Commerce, Wollongong University, Commonwealth Bank, National Australia Bank, Coopers and Lybrand, Raine and Horne (Wollongong), Kell, Heard and McEwan, AMP (Jill Fellows and Barbara Aylmer).

Win for Picton High

Winners of the Illawarra regional heat of the Managing the Australian Economy competition was Picton High School. Second was The Illawarra Grammar School and third, Edmund Rice College.

Competition was intense and the standard was high.

The competition is an instructive exercise for students because it introduces them to a quantitative and computing side of economics that they have not previously been exposed to and they apply economic theory to real-world situations.

The computer model has an excellent pedigree and is finely balanced for this type of exercise. It is also realistic in that policy makers have only limited discretion in achieving the goals of low unemployment and inflation as well as low budget and current account deficits. Indeed, competitors quickly realise that all goals cannot be achieved simultaneously and it therefore becomes necessary to trade-off some for others. Additionally, the model has asymmetric responses, which means that it is easy to muck things up yet difficult to set things right again (i.e. it is much easier to pull the string than to push it).

Competitors were also required to deal with unanticipated exogenous shocks to the simulated economy which included, *inter alia* – income tax cuts of ten per cent necessary to fulfil an election promise; the Arbitration Commission awarding full indexation; consumption expenditure falling $2b due to a fall in consumer confidence.

Illawarra Committee for Overseas Students

The annual general meeting will be held in the Union Board Room on Monday August 21 at 6.30 pm; supper will be at 7.30 pm.

Written nominations for executive office are due on or before Monday August 14.

If you want to attend or nominate an office bearer, contact Wendy Jabri at the ICOS office in Student Admissions on Tuesday, Thursday and Friday from 9 am to 2 pm. Telephone 27 0216 or ext 3216.

Like to win a computer?

The University of Wollongong requires all students enrolling in an undergraduate course for the first time in 1989 to be computer literate in order to graduate. Students may satisfy the Keyboard and Wordprocessing Skills component of the Computer Literacy requirement by...

1. satisfactory completion of the following courses:

CSCI III	Computing Science IA
EDTL 101	Teaching and Learning Studies I: Basic Principles
EDTL 102	Teaching and Learning Studies II: Teacher Centred Strategies
ELEC 135	Computers IA
ELEC 133	Introduction to Digital Computation
ELEC 191	Computer Engineering I
AICA —	Any 1st year course with an ACIA prefix
MECH 122	Introduction to Design

or

2. passing a computer literacy test. Students may enrol in a course and literacy test by either (i) contacting Sharon in Computer Services Reception, ext 3850, for a course using the IBM-compatible PC, or (ii) contacting Nola at the Apple Consortium on the first floor of the University Library, ext 3775, for a course using the Apple Macintosh. The cost of the course is $35.

Two President XT–088 computers are to be given as prizes; one to a student taking a subject which provides exemption (that is category (1) above) and another to a student who has successfully completed the Computer Literacy Test (category (2) above).

The two prizes are to be given for the best entries of either

(i) an essay on the effects of technology on our society by the decade 2000–2010;

or (ii) a science-fiction story taking place in the decade 2000–2010.

All entries are to be word-processed and laser-printed and should be about 2000 words. Entries are to be submitted to University Computer Services by 3.30 pm Tuesday December 12.

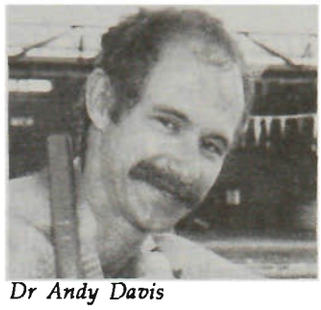
Appointment of the Deputy Secretary, Intergovernmental Oceanographic Commission

The University has been invited to submit names of candidates for the post of Deputy Secretary of the Intergovernmental Oceanographic Commission of UNESCO.

Submissions should reach the Secretariat by 8 September 1989 at the latest. Each candidate's application should contain the names of people from whom references may be obtained and a detailed curriculum vitae, including such particulars as: place and date of birth; present nationality; university education; present post and posts held during at least the past ten years; fields of specialisation; publications; knowledge of languages, in particular degree of ability to write, speak and understand English and French and any of the Organisation's other official languages.

The UNESCO communication adds a reminder that the General Conference attaches great importance to the equitable representation of women among staff members. UNESCO would therefore be grateful for nominations of women candidates.

Further details are held by Mrs Gloria Woods at Planning and Marketing Branch, ext 3110.



Dr Andy Davis

Appointment in Biology

Dr Andy Davis, recently appointed lecturer in Biology, has completed 18 months of a postdoctoral fellowship at Harbor Branch Oceanographic Institution, Florida, USA. His research speciality is marine ecology with particular emphasis on chemical ecology (ie, the role of chemical compounds in mediating interactions between organisms) and the determinants of patterns of settlement and recruitment for marine invetebrates.

In collaboration with a marine natural products chemist, Andy's research in Florida yielded an anti-fouling compound with excellent commercial potential. The compound, an alkaloid, inhibited the settlement of a number of invertebrate larvae and promises to be environmentally benign relative to the widely used organotins in anti-fouling paint.

Andy received his BSc and MSc (Hons) from the University of Auckland and completed his PhD in the Department of Zoology, University of Adelaide.

Foreign Language Centre Questionnaire

The Department of Languages has received a large number of replies to the Language Centre Questionnaire, and is now compiling a detailed report on the response.

A few advance details may be of interest at this stage. The replies to the first question asking which languages would be of greatest assistance in teaching, study and research, have shown an almost equal division of interest between Asian (51.6 per cent) and European (48.3 per cent). The six languages most in demand were, in descending order: French (15 per cent), Mandarin Chinese (14.5 per cent), German (13.1 per cent), Japanese (11.9 per cent) Malay/Indonesian (11.2 per cent) and Italian (7.3 per cent).

Cataloguing of our current language resources is to begin soon, and once that is completed we will be able to order further materials in accordance with the needs indicated in the survey.

Our sincere thanks go to all those who took the time to participate in the project.

Dr Geoffrey Hull
Department of Languages

Promotions

The following promotions have been approved:

Dr D.J. Ayre, Biology to Senior Lecturer 1.1.89.
Dr B.M. Walker, Psychology to Senior Lecturer 1.8.89.

Ross Walker
Secretary, Academic Promotions and Appointments Committee

Off to Florida

Farewell to our colleagues and friends – hopefully not for ever.

Judy and Jeff Franklin are leaving Wollongong for the University of Flordia. Contact address: 3443 N.W. 25th Place, Gainesville, Florida 32601, USA.

Barry Jones Launches Stephen Hill's new book

As recorded earlier, Professor Stephen Hill's latest book, *The Tragedy of Technology*, was launched in Melbourne by Barry Jones, Minister of Science, in association with the Commission for the Future on Thursday July 20. The book has been published simultaneously by Pluto Press in hardback in England and the US and paperback in Australia, so this is the international launching of a world book.

The work is the result of many years research on the way that technology and culture relate to each other. It deals with how technological change has shaped the kind of society we live in now, but draws on a wealth of experience to develop a general theory of technology/culture relationships – from cultures as diverse as those of Nepal, the Cook Islands, America and Europe; from the history of industrialisation both in England and Australia, and from contemporary research on information technologies and organisation cultures. Lessons for the future are very important indeed for, as the book shows, once you understand the way that our culture is deeply shaped by technology and in turn shapes what new technologies are put into practice, it is clear we stand on a threshold of two radically different alternative futures – one of liberation, and one of domination.

As Stephen Hill demonstrates, we must understand to know how to choose. The book therefore shows us that what we do to create our own society's future makes sense only when we stand on a platform that allows us to look over our shoulders at the past and over the horizon at other cultures where different kinds of relationships exist with technological change.

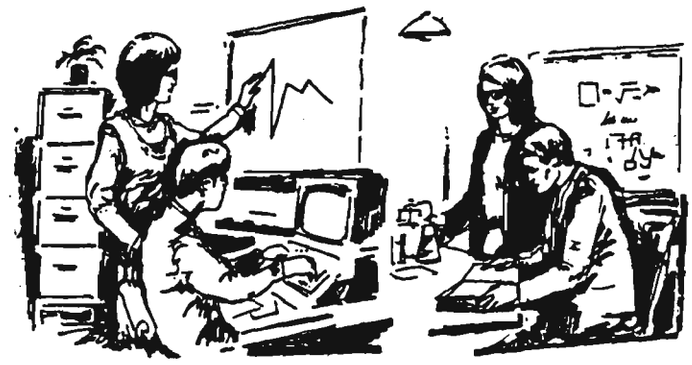
Some early applause has already crept out: the British Sociological Society review for example asserts that the book is, 'Versatile and intriguing' and recommends that it could make an excellent film series; indeed, international negotiations are now proceeding to produce just this result. Even before the launching, Stephen has been interviewed about the book many times on national ABC and commercial radio. As he stated though,

> *When you become involved with the media on a book promotion, you find yourself in some strange places – like 'brunch' with David Dale (editor of* The Bulletin) *on Sunday morning 2GB – and eating croissants and speaking on radio simultaneously is no mean feat; like a two-hour phone-in program on a national commercial network – but at midnight to 2am; and like following an interview with a man on a bicycle with Clive Robertson and Mike Jefferies. However, 'Aunty' has been kind: the ABC interviewers, Terry Lane, for example, tend to have actually read the book and to ask intelligent questions.*

Healthy Cities Illawarra and The Illawarra Development Board Conference

Based on the themes, 'Industrial Development and the Greenhouse Effect: The Illawarra's Future', the joint conference will be held on Wednesday August 9 at The Bruce Gordon Theatre, Wollongong Performing Arts Centre, Burelli Street, Wollongong.

Registration costs $25. Apply to The Chairman, Illawarra Development Board, PO Box 317, Wollongong East 2520 by August 2.



Staff Roundup

Superannuation Office in Wollongong

The State Authorities Superannuation Board is to open a part-time advisory office in Wollongong. The office will be located in the Government Office Block, Ground Floor, in Crown Street, and will be open for inquiries on the last Wednesday and Thursday of each month.

Appointments may be made by calling 008 451112 or, during Wollongong office hours, 26 8636.

AVCC Visiting Fellowships

Two AVCC Fellowships will be awarded for Australian scholars to visit universities in certain specified overseas countries in 1990. The awards are designed to cover visits by distinguished university scholars actively engaged in academic work.

The visits will be for a minimum of 60 days and will enable 9 visiting scholar to meet academics and personnel in their own fields at relevant organisations on subjects of mutual interest, rather than to give a series of public lectures.

The fellowship provides an allowance, up to a maximum of $5000 to assist with travel and expenses.

Applications must be submitted (in triplicate) to Professor Ian Chubb by 31 October 1989.

Library Catalogue Classes

The University Library will be offering one-hour online catalogue classes during the first four weeks of Second Session.

Classes are being offered Monday to Thursday, 10.30 to 1.30 and 3.30 to 4.30; Friday 10.30 to 12.30. In weeks 3 and 4 an additional class will be offered on Wednesday 5.30 to 6.30.

Anyone who is interested in attending a class can make a booking at the Information Desk.

This class is compulsory as part of the Computer Literacy Program.

Safety on Campus

Site Safety Inspections

August 8 – Building 112, International House Student Accommodation – Jeff Owers, Stewart Russell, Robert Razzino.

September 5 – Building 35, Engineering/Science – Jeff Owers, Roz Westbrook, Bob Galvin.

September 12 – Building 42, Microwave Applications Research Centre – Jeff Owers, Merv Fletcher, Aivars Depers.

Contact the inspection team members if you wish to raise regarding your building. Inspections start at 9.30 am.

Research Funds

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

NH&MRC Program Grants

Applications are invited for NH&MRC Program grants which are designed to provide guaranteed support over five years for an outstanding individual scientist working as an accepted leader of a research team that normally comprises several independent scientists.

Applications close with the University on August 17.

NASA Theory and Data Analysis Relating to The Upper Atmosphere

National Aeronautics and Space Administration invites basic research proposals for theory and data analysis relating to the Upper Atmosphere Research Program in the Earth Sciences and Applications Division.

Applications close with the University on August 17.

Australian Retinitis Pigmentosa Association

Applications are invited for support of research of high quality related to retinitis pigmentosa.

Applications close with the University on August 18.

Previously noted in Campus News

	Internal Closing Date
Matsumae Fellowship	August 17
AINSE Fellowships	August 17
Cancer Council Patient Care Grants	August 17
Fenner Conferences	August 17
National Multiple Sclerosis Scholarships	August 17
Harkness Fellowships	August 31
Nuffield Fellowships	September 1
AFUW (Qld) Fellowships	September 16
Telecom Education Fellowships	September 16
Australia-Japan Foundation Visits	September 17
Bilateral Science and Technology Programs	September 17
Japanese Government Research Awards	September 17
Japan Society Exchange Program	September 19
Academy of Science China Exchange Program	November 17
Health and Community Services Research Grants	Any time

Scholarships, Fellowships and Prizes

Rhodes Scholarship at The University of Oxford

Applications are invited for the New South Wales Rhodes Scholar for 1990. Candidates must be Australian citizens between 19 and 25 years of age with assured completion of a Bachelors degree by October 1990.

Applications close with the University on August 2.

ATERB Postgraduate Scholarships in Telecommunications

ATERB invites applications for its Postgraduate Scholarships in the area of Telecommunications Research, leading to a PhD or Masters by research.

Applications close with the University October 19.

1990 Frederick White Prize

Nominations for the 1990 Frederick White Prize are invited from young scientists who are undertaking research in the fields of physical sciences, the terrestrial and planetary sciences or the biological sciences. The prize shall be used to support any part of the cost of the personal research program up to $3,000.

Applications close with the University on September 16.

Concerts, Exhibitions and Entertainment

Hi Tech Art

Long Gallery to August 13.

Tony Bond, Curator of Modern Art, Art Gallery of NSW, opened the exhibition entitled Hi Tech Art – consisting of ceramics/sculpture/drawings/photographs/prints and paintings – 143 works in all – by 29 full- and part-time staff at Wollongong's TAFE.

He referred back to his appointment as the first Arts Director of the City of Wollongong Art Gallery. How at the time there was no Gallery but he was given a desk and a telephone for his personal use. One of the first institutions he contacted was the local TAFE Fine Art staff and from that contact grew a close relationship. Exhibitons of TAFE staff and students were included in the new gallery. 'I was more interested in contemporary than historical exhibitions – but in practice we had both'.

Tony Bond also alluded to the close ties he developed with the then Institute of Advanced Education and the University, mentioning that he had the opportunity to see part of the University's Permanent Collection. 'I was astonished at the quantity and quality of art on display in the Administration Building', he said.

The TAFE staff exhibition has established itself as an annual event in the Long Gallery program. Many of the exhibitors have established reputations, holding one-person exhibitions in Sydney. They are represented in group shows.

The exhibition provides a wide range of work which combine to form an exhibition of outstanding interest.

The new sales area is completed. It provides a wide range of works for sale.

The exhibition is open daily Monday to Friday, 9.30 am to 3.30 pm, and on Sundays, 1.30 pm to 4 pm.

continued overleaf

The Art of Lunch Returns With International Performers

The School of Creative Arts series of acclaimed lunch time entertainments known as *The Art of Lunch* restarted on July 20, with a performance by local music group Musica Troppo.

The Art of Lunch began in 1988 as a showcase of weekly performances for School of Creative Arts activities. It features staff and visitors to the School in a diversity of artistic activities. This session's program features: satirical cabaret by Short Back and Sides, concerts by leading Australian and American musicians (such as Perihelion from Brisbane, the Seraphim Trio from Cincinatti, and jazz player Michael Price), local and overseas writers reading from their own work, and performance art by Dutch artist Jose Aerts. All performances are free, open to the public and are held weekly on a Thursday (during session lunchtimes from 12.35 – 1.25) in the Music Centre, Building 24, on the Western side of the campus.

The program includes the distinguished Caribbean writer Eddie Baugh, brilliant German violist Hartmut Lindemann, two of the United Kingdom's leading composers – Nicola Le Fanu and David Lumsdaine – in an open conversation, and *A Very Wasp of Flowers* (Campion Decent's follow-up to *Scenes from a Mardi-gras).*

Discussing *The Art of Lunch*, convenor of the series, Dr Andrew Schultz, said: 'One of the special feataures of *The Art of Lunch* is its emphasis on new music and especially music by Australian composers; many Australian composers' works will be performed this session (including Robert Davidson, Benjamin Thorn and John Exton) making the series quite unique in Australian concert programming.'

For a free copy of *The Art of Lunch* program and poster contact the School of Creative Arts on (042) 27 0985 or 27 0996.

This week...

August 3

Perihelion, the permanent ensemble at Queensland University, are currently in residence at the School of Creative Arts; their concert will feature Robert Davidson's *Tapestry* plus music by Stucky and Bruch.

August 10

Final year writing and directing student Campion Decent presents *A Very Wasp of Flowers.*

August 17

Seminars

Department of Biology

Session II seminars to be held in Lecture Theatre G.19, Building 35, 12.30 pm.

Date: Wednesday August 2.
Speaker: Ari Konstantakopoulos.
Topic: *MSc Literature Review.*

New Literatures Research Centre

Seminars will occur on Fridays at 2.30 pm in the English Depatment (Building 19, Rm. 1095) of The University of Wollongong.

For further information, please contact Paul Sharrad, (042) 27 0705, or Shane Donnelly, (02) 525 0186.

Date: August 4.
Speaker: Elizabeth Ferrier. (English, University of Queensland).
Topic: *Mapping of Space: Cartographic Constructions of Space and Contemporary Cultural Theory.*

Time: 3.30 pm.
Speaker: Elizabeth Young. (English, University of Wollongong).
Topic: *Janet Frame's The Carpathians.*

Department of Accountancy

Seminars are held in the Social Sciences Building, Room 2001, in the Department of Accountancy at 11 am.

Anyone interested is cordially welcome. Inquiries please contact Hai Yap Teoh, Seminar Convenor, telephone 27 0625.

Date: Friday August 4.
Topic: *Accounting Education in China.*
Speaker: Mr Jerry Lee, Visiting Lecturer, Zhongnam University of Finance and Economics, Wuhan, People's Republic of China.

Date: Friday August 11.
Topic: *Use of Self-Ratings in Performance Evaluation: A Replication and Extension.*
Speaker: Associate Professor Hai Yap Teoh, Department of Accountancy.

Department of Electrical and Computer Engineering

Date and time: Monday August 7, 12.30 – 1.30 pm.
Speaker: Dr F. Naghdy, Senior Lecturer, Department of Electrical and Computer Engineering, The University of Wollongong.
Topic: Stochastic force sensing in a robot arm.
Venue: Building 35 G45.

Department of Psychology

Date: August 8, 12.30 to 1.30 pm.
Speaker: Mr Greg Hampton, Counselling Service, The University of Wollongong.
Topic: *A constructivist account of empowerment.*
Venue: Building 19.1056.

School of Learning Studies

For your diary: seminars will be held on August 9, August 23, September 13, September 27, October 4, October 18, October 25. Seminars on Wednesdays at 12.30 pm in Room 21.104. Bring your own lunch, coffee and tea will be provided. Inquiries to Bill Winser, School of Learning Studies, ext 3963.

Details for the first two are:

Date: August 9.
Speaker: Dr Ted Booth.
Topic: *A New Form of Partnership with the Schools: A Case Study of BEd 4th Year.*

Date: August 23.
Speaker: Ms Jan Turbill.
Topic: *The Language Teachers Use to Teach Literacy.*

FOR SALE
Toyota Camry CS 4/88 model, 2-litre fuel injection, 5-speed manual, red. Rego to 5/90, excellent condition, 24,000 km. Great car to drive. converted student needs to sell $16,500 negotiable. Phone 27 2495 (a.h. or during day if lucky to find me in) or 26 8858 (b.h. aske for Cathy).

FOR SALE
Original copy of Quark Xpress (graphics program) – V2.0 complete with all manuals and disks. Purchased new December 1988. Surplus to requirements. $825 ono. Phone ext 3077 or 29 6594 – Allison Inglis.