


# THE UNIVERSITY OF WOLLONGONG



# CAMPUS NEWS

Distributed each Tuesday

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of previous week  
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Editor: George Wilson, tel. (042) 270391

## EXTRA GRADUATION CEREMONY TO CATER FOR GROWTH

The rapid increase in student numbers over the past few years (3,000 in 1981 to 8,000 in 1987) made it necessary to hold an extra graduation ceremony during last week (May 12 to 15). Even so, the Union Hall, where graduation was held, was not big enough for all the graduands, relatives and friends who were present. The ceremony was therefore relayed to a wide screen in a nearby room.

The standard of the graduands this year was high. The University medal was shared by two students: Michael Manthey, Bachelor of Science (Honours) and Joseph Minto, Bachelor of Mathematics (Honours), who are both continuing with postgraduate studies. Michael Manthey was recently awarded the prestigious National Health and Medical Research Council Biomedical Postgraduate Scholarship.

One thousand graduands received their testamurs from the Chancellor Mr Justice Hope, who has officiated at 39 of the 42 graduation ceremonies held since the University

gained autonomy in 1975. Justice Hope always personalises the ceremony by speaking individually to each graduand as he presents testamurs.

### GRADUATION HIGHLIGHTS

- \* First Doctor of Philosophy in Creative Arts.
- \* Three musicians graduating and performing.
- \* Profoundly deaf student graduating.
- \* Two brothers who escaped from Vietnam as 'boat people' graduating.
- \* Thesis reveals Illawarra rainforests not as widely distributed as popularly thought.

Keith Johns has set a high standard with his thesis on the Symphonic Poems of Franz Liszt. Keith returned from

*Continued overleaf*



## General Notices

### UNIVERSITY OF WOLLONGONG UNION CASUAL VACANCIES ON THE BOARD OF MANAGEMENT

1. At its meeting on May 5 the Union Board of Management declared three positions vacant on the Board in accordance with Clause 7.1 of the Constitution.
2. Nominations from members and life members of the Union for these vacancies are now 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 Union staff unless they are also students or members of staff of the University or life members).
3. Nominations close at noon on THURSDAY MAY 21, by which time completed 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.
4. The term of office for one of the three positions declared vacant is until September 1988; with the other two positions declared vacant for a term of office until September 1987. Should an election be necessary the candidate polling the most votes will be declared the elected candidate for the position with the longer term of office. Should only three nominations be received for the three vacant positions, the candidate to take office for the longer term will be determined by lot.
5. If more than three nominations are received for the three positions declared vacant, a by-election will be held on THURSDAY MAY 28, polling arrangements being as follows:  
THE GREENERY (Institute Canteen): 10 am to noon  
UNION FOYER: 12.30 pm to 6 pm
6. Under clause 8 (iii) of REGULATIONS GOVERNING

THE CONDUCT OF ELECTIONS there will be no postal or proxy voting.

7. The list of candidates will be published in the Union from FRIDAY MAY 22 onwards. These notices will contain full details of how the polls will be conducted.

Noel Diffey  
Returning Officer

### THE AUSTRALASIAN INSTITUTE OF MINING AND METALLURGY

#### Technical Meeting

Date: Wednesday May 27

Place: Pentagon - Lecture Theatre 1 (Building 20). The University of Wollongong

Time: 7 pm for 7.30 pm

Speaker: Mr J.E. Platt,

Supt. Projects, Ironmaking, BHP Steel - Slab and plate products division Port Kembla

Topic: The rebuilding of No. 4 blast furnace at Port Kembla

#### BRANCH FUTURE ACTIVITIES

June 10: "Women in Mining - A Personal Perspective" by Rebecca Norton

July 1: "Very fast Train Project" by Dr A.J. Nicolson (Combined Institutes' Meeting)

### MAJOR SOCIAL SECURITY CONFERENCE IN WOLLONGONG

A conference on Social Security, Society and the Economy will be held at the University on June 18 and 19. Speakers will include Brian Howe, Minister of Social Security, Bettina Cass, Chairperson Social Security Review, David Collins, Macquarie University, and Michael Porter of Monash University. The conference will look at the role of social security in the Australian economy and changes in government welfare policies. The long-term financing of social security, the interaction between the taxation and social security systems and the effects of different social welfare programs on disadvantaged groups will all be considered.

## Graduation Highlights

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Germany last week where he undertook research for his thesis. He received the first Doctor of Philosophy in Creative Arts to be awarded from the University of Wollongong.

Keith Johns, piano, Glenda Snyder, organ, and Linda Jones, flute, did some smart footwork at the Tuesday ceremony. After completing solo performances they donned cap and gown to join the graduands. Glenda, who has provided organ music for many graduation ceremonies, and Linda, was awarded Bachelor of Creative Arts.

Gail Smit has not let being profoundly deaf stand in the way of gaining a tertiary qualification. She graduated Bachelor of Arts. Gail recently had a successful bionic ear implant.

Nguven Dinh Cung and his brother Loc Dinh Cung escaped from Vietnam in 1981. After working in several jobs, including taxi driving and with BHP Steel, they gained entry to the University of Wollongong through TAFE studies and mature age entry. They were both awarded Bachelor of Engineering (Honours) in Electrical Engineering. Loc is continuing on with postgraduate studies and Nguyen is working for the engineering company GEC Projects in Sydney. Their ambition now is to obtain permission to bring their parents and brother from Hanoi to settle in Australia.

Kevin Mills received a Doctor of Philosophy for his thesis Illawarra Rainforest: An Historical, Floristic and Environmental Study of their Distribution and Ecology. This thesis reveals that the Illawarra escarpment and coastal plane have never supported large areas of rainforest as

popularly believed. In the area between Jamberoo and Berry, however, rainforests have been considerably reduced since European settlement.

### GOVERNOR—GENERAL MEETS ABORIGINAL STUDENTS

The Governor—General Sir Ninian Stephen met two Aboriginal students who graduated, when he visited the University as guest speaker at the Friday afternoon graduation ceremony.

The students, Terry Wright, Bachelor of Education, and Kemball Riley, Associate Diploma in Sports Science, are the first two Aboriginal students to graduate since the opening of the Aboriginal Education Unit on campus in 1986.

A dinner was held on the Friday evening for the Governor—General, the two students and representatives from the University's Aboriginal Education Unit. Also present at the dinner was Professor Eric Willmot, guest speaker at the morning ceremony. Professor Willmot was Deputy Secretary of the Commonwealth Department of Aboriginal Affairs before his appointment as Professor and Head of School at the James Cook University of North Queensland. He has recently been appointed Head, ACT Schools Authority.

Margaret Gilson, Head of the Aboriginal Education Unit, said she sees the Governor—General's interest as positive encouragement for Aboriginal education.

The conference will be of interest to all those involved in social welfare and social security and will provide information and analysis on the future of social security in Australia.

Registration fee is \$50, which includes a copy of all papers with a concessional rate of \$25 for students and social security recipients. Further details are available from Dr John Mangan or Wolfgang Brodesser at the Department of Economics.

## **PEOPLE CENTRED DEVELOPMENT – A PUBLIC LECTURE**

Father Alexis Diamond Raj is Director of the Madurai Multipurpose Social Service Society (MMSSS), a Roman Catholic development agency which is part of the Caritas India network.

His work entails supervision of a development program covering the Madurai Diocese, an area with a population of half a million people. He has held this position since 1985, when he was promoted from Assistant Director.

Fr Diamond Raj will speak on "People Centred Development" on Friday 5 June 1987 at 12.30 pm in Pentagon 5. The Lecture is sponsored by the University Catholic Society, Australian Catholic Relief, and the Australian Council of Churches.

Born in Tamil Nadu, South India in 1952, Father Alexis spent several years in Canada where he studied Philosophy and Theology at the Toronto School of Theology and Social Work Management at McGill University in Montreal.

He was ordained to the priesthood in 1979 and has worked in parish ministry in Canada. He returned to India and worked in two parishes before assuming the role of Assistant Director of MMSSS in 1984.

In addition to his work with MMSSS he is closely involved with an Ecumenical Human Rights Forum.

Father Alexis will visit Australia as a guest of Force Ten which in 1987 celebrates its 20th year of operation. In November 1984 Force Ten members supported the work of MMSSS.

## **ATTORNEY-GENERAL TO LAUNCH AUSTRALIAN CORPORATE LAW DATA BASE PROJECT**

The Attorney-General of New South Wales, Terry Sheahan, will launch a new book and an on-line computerised database on Australian Corporate Law on Thursday May 14 at 3 pm in the Foyer of the Theatre at State Parliament House, Sydney. The book and the data base are the first major outcomes of a significant research project – the Australian Corporate Law Data Base Project – which is located in the University of Wollongong. The Law Foundation funded the research project, CLIRS Ltd carries the data base on its national computerised legal information retrieval system, and Legal Books Pty Ltd publishes the book, Jackson J.G. and Hale K.W. *The Australian Corporate Law Reference*.

This unique project involves the application of computer technology to law and enables sophisticated research into the increasingly complex area of Australian Corporate Law. The data base contains an analysis of over 2000 reported cases and 800 journal articles on corporate law from all Australian jurisdictions.

The data base enables research into a number of matters relevant to corporate law in Australia, and an analysis of data from it has already concluded that there is a variation in an appellant's chances of success in an appeal in different states of Australia, and that there is an increase in litigation involving takeovers in Australia. The dominance of corporate insolvency in corporate litigation has also become apparent.

The launching is particularly timely in view of the report of the Australian Senate Standing Committee on Constitutional and Legal Affairs which called for the Federal takeover of corporate law in Australia. On the day of its release Mr Sheahan, who is Chairman of the Ministerial Council

which oversees the present Federal State Co-operative Scheme, indicated his support for the Committee's recommendation.

Also in attendance will be representatives of the Law Foundation of New South Wales, CLIRS Ltd, and Legal Books Pty Ltd.

Further inquiries concerning the launching and/or the research project from Ken Hale (042 270730) or Jim Jackson (042 270629) or Gillian Curtis, Media Liaison (042 270926) of the University of Wollongong.

## **AUSTRALIAN INSTITUTE OF MANAGEMENT**

Monthly Meeting

Guest Speaker: R. (Bob) W. Jones, General Manager, The Electrolytic Refining and Smelting Company of Australia Limited

Topic: The Future of E.R. & S.

Date: Wednesday May 20

Time: 5.30 pm Light refreshments

6 pm Address

Venue: Illawarra County Council Administration Building Level 7 Bridge Street, Coniston

## **ACADEMY OF SCIENCE PURSUING PUBLIC INFORMATION PROJECT**

The Australian Academy of Science is currently planning an innovative project aimed at promoting public understanding of science and technology and is seeking funds for its early establishment.

The President of the Academy, Professor David Curtis, said that the proposed Australian Science and Technology Information Service would encourage visible and closer links between scientists and technologists on the one hand and the general public, secondary schools, politicians and public servants on the other. In all, 15 specific projects are planned for the Service.

Professor Curtis said the scientific community is acutely aware of its responsibility to enhance the wellbeing of the nation in economic and cultural terms. At all levels of the community (in industry and commerce as much as in the public service) there is a need for improved perceptions and understanding of the crucial contributions which can be made through research and development.

The first step towards an appreciation of the importance of applying science and technology to national recovery will be taken if there is frequent exposition of what researchers are doing, if there is clear explanation of what they have achieved and if there is informed debate about the problems entailed in reaching their goals.

The Academy sees the generation of a nationwide commitment to science and technology as a long-term priority. Australia not only lags behind its competitors in the proportion of GNP spent on research and development, but also spends almost nothing on promoting informed understanding of the science and technology underpinning R&D.

The Information Service would start by gathering a 'databank', representative of working scientists and technologists in research institutions throughout Australia who are prepared to assist in communicating with the public, with schools, with politicians and with public servants. It is anticipated that many hundreds will volunteer to help in launching the Information Service.

One major project of the Information Service would be directed to the community at large by serving the day-by-day needs of reporters and producers in the media for authoritative information and comment on the wide range of expertise in Australian science and technology.

The full document on the projects is available from Giles Pickford in the 'Friends' office.



## Staff Roundup

### STAFF TRAINING ACTIVITIES – CONFLICT MANAGEMENT SEMINAR

This one day seminar, to be held on June 4, is aimed at staff who are required to work with other staff or the public.

The seminar is designed to provide information about the manner in which individuals react to and attempt to manage differences between themselves and others. During the seminar participants will be examining how they handle conflict in four different aspects of their interactions, being personal, interpersonal, small group and intergroup. The program is designed so that participants will be able to identify their own strengths and weaknesses and can share as much or as little of this with the group as they feel comfortable.

Staff members wishing to nominate for this seminar should complete the nomination form available from the Personnel Services Branch (ext 3946 or 3929) or the EEO Unit (ext 3917 or 3030). Closing date for nominations is May 27.

Further details Peg MacLeod (ext 3917) or Wendy Raikes (ext 3946).

### WHEN WILL THE NATIONAL WAGE INCREASE BE PAID?

As previously advised in *Campus News*, payment of the recent National Wage Case increase is conditional upon the respective Unions filing certain undertakings with the commissioner.

At the time of writing this article, given the above-mentioned requirements, and the lead in time required to make the necessary salary variations, the following categories of employees will receive the National Wage Case increase on pay day May 28:

- . staff covered by FMWU awards
- . painters
- . plumbers
- . electricians

The date of payment of the National Wage increase to other staff remains unclear and is dependent upon the remaining unions, such as the PSA, filing undertakings, and the date on which those undertakings are given.

Payment of the increase to academic staff is dependent upon the handing down of the new Federal award for academic staff.

Further details: Peter Maywald, ext 3798.

### FIRST AID ATTENDANTS – AN UPDATE

There have been recent changes to the University's First Aid Attendants. Please display this updated list in a place where you can easily access it in an emergency.

Faye Franklin, Administration, building 36, ext 3030  
Mark Peacock, Administration, building 36, ext 3913

Fred Zylstra, Administration, building 36, ext 3483  
Ann Lee, Biology, building 35/112, ext 3441  
Donna Ashelford, Chemistry, building 18/G01, ext 3528  
Trevor Lewis, Chemistry, building 18/110, ext 3513  
Peter Pavlik, Chemistry, building 18/108, ext 3513  
Ken Cunningham, Civil & Mining Engineering, building 3/G14, ext 3041

George Elrick, Cleaners, building 6/Workshop, ext 3081  
Joe Lemme, Cleaners, Building 36, ext 3081  
Ian Murray, Cleaners, building 6/Workshop, ext 3081  
Jenny Sheridan, Economics, Building 19/215, ext 3725  
Ron Parker, Electrical Engineering, building 35/128 ext 3420

Robyn Johnston, Geography, building 19/G005, ext 3714  
John Paterson, Geology, building 35/G02, ext 3817/3422  
Sheila Bradshaw, Health Sciences, building 23/123, ext 3881

Stephanie Eastwood, Health Sciences, building 25/125, ext 3583

Graeme Dunn, International House, ext 3784  
Richard Michel, Landscape, building 32, ext 3594  
Kay Harney, Library, building 16/G06, ext 3544  
Tony Di Pietro, Maintenance, building 5/G12, ext 3049  
Stuart Rodd, Mechanical Engineering, building 6/Workshop, ext 3092

Graham Hamilton, Metallurgy, building 1/G24, ext 3016  
Norman Buckley, Patrol, building 9/G18, ext 3936  
Angus Coleman, Patrol, building 9/G18, ext 3936  
Robert Hoole, Patrol, building 9/G18, ext 3936  
Barry Jones, Physics, building 18/G16, ext 3500/3508  
Trevor Jones, Psychology, building 19/110, ext 3641  
Therese Burgess, Sports Association, building 13, external line 281873

Kathie Fitzsimmons, Union, building 11, ext 3781/3782  
Robyn Gaia, Union, building 11, ext 3781/3782  
Sid Knight, Union, building 11, ext 3781/3782  
Reg Whitton, Safety Officer, building 36, ext 3914  
Helen Kamenos, Senior Personnel and Industrial Officer building 36, ext 3929

### CURRENT VACANCIES

- + Programmer, ADPU, closing date May 22
- + Electrical Fitter/Mechanic (limited term), Maintenance and Services Unit, closing date May 22
- \* Lecturer/Senior Lecturer, Sociology, closing date May 22.
- \* Lecturer, Sociology, closing date May 22.
- \* Lecturer, Geography, closing date June 1.
- \* Lecturer, Mechanical Engineering/Electrical and Computer Engineering, closing date June 1.
- \* Lecturer, Science and Technology Studies, closing date June 1.
- \* Lecturer, Chemistry or Civil and Mining Engineering or Metallurgy and Materials Engineering, closing date June 1.
- \* Chair in Italian, closing date June 12.

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

### STAFF CHANGES

#### NEW STARTERS

Ms M.A. Lacey, Counsellor, Counselling  
Mr W. J. Jarman, Computer Trainee, Computer Centre  
Mr D. G. Simpson, Administrative Assistant, Financial Services

#### TRANSFER/PROMOTION

Ms M.A. Lees, Lecturer, Management

**New Staff see top page 5**





*Dr Lesley Head, Geography*



*Dr Philippa Pattison, Psychology*



*Martin Buzacott, Creative Arts*



*Dr Andrew Schultz, Music*

## friends Campus Community Interface

### PROGRAM OF EVENTS AND MEETINGS

#### May

Sunday 17 — Annual University Service, St. Michael's Anglican Cathedral., 7 pm.

Saturday 30 — Friends' Gala Concert, 8 pm, Wollongong Town Hall.

#### June:

Wednesday 3 — Graduates Group, 6 pm, Northern Lounge.

Thursday 11 — Projects Committee, 5 pm, Union Board Room.

### CAMPUS PARKING

Ald Keith Phipps, Chairman of the Graduates Group within the Friends, has pleasure in announcing that the University has agreed that members of the Friends of the University are eligible to purchase student parking permits.

The student rate of \$20 a year is a major concession to the Friends, and an indication of the value that the University puts on the work of the Friends of the University.

## Job Vacancies

Details of the positions listed below are on file in the Publicity and Information Office, on the ground floor in the administration building.

Adelaide	Computing Officer/Engineer, Department of Civil Engineering Executive Assistant to the Librarian (Administrative Officer Grade 1/Librarian Grade 1) (half-time)
ANU	Research Fellow, Developmental Neurobiology Group Fellow/Senior Fellow in Developmental Haematology, Department of Medicine and Clinical Science Postdoctoral Fellow/Research Fellow in Archaeological Chemistry, Department of Prehistory Research Fellow/Senior Research Fellow Department of Human Geography Postdoctoral Fellow/Research Fellow/Senior Research Fellow, North Australia Research Unit Research Fellow, Office for Research in Academic Methods (ORAM)
Flinders	Senior Demonstratorship in Human Physiology (limited term), School of Medicine Research Fellowship, School of Medicine Research Officer (Addiction Research Unit) School of Medicine
Macquarie Newcastle	Chairs of Law, School of Law Lecturer/Senior Lecturer, Department of Architecture

## EEO news....

### IMMIGRANT UNEMPLOYMENT AND EEO

In order to encourage immigrants from non-English-speaking backgrounds (as well as other EEO target groups) to apply for jobs at the University for which they are qualified, we head up all our newspaper advertisements with the sentence "Equality of Employment Opportunity is University policy". For those of you who are wondering why this particular group is targeted for EEO initiatives, the following excerpt from a recent article by Robyn Iredale in the March issue of *Ethos* may be useful.

"The most recent ABS estimates (October 1986) show that the unemployment rate in NSW for persons born in non-English-speaking countries is 11.5 percent. This compares with an overall unemployment rate for NSW of 8.3 percent in October 1986 and a rate of 7.9 percent for persons born in Australia.

Moreover, immigrants with low English proficiency have approximately double the unemployment rate of those with high English proficiency. In addition, immigrant communities with a high proportion of new arrivals have severe unemployment. The highest rates are among the Lebanese (41.0 percent) and the Vietnamese (19.9 percent). Youth unemployment amongst some immigrant groups is even higher, with rates sometimes exceeding 50 percent.

Immigrant unemployment is not evenly distributed by location, but is heavily concentrated in particular locations within Sydney (inner and western suburbs) and Wollongong. For example, more than 51 percent of persons registered as unemployed at Bankstown CES in September 1986 were born in non-English-speaking countries."

Wollongong statistics are similar. The tendency for many overseas people to settle in areas where there is already high representation from their native countries is responsible for this.

The University of Wollongong as an equal opportunity employer is committed to staff selection and promotion based on the merit principle. By encouraging all qualified people to compete for jobs or promotions on an equally fair basis, we can do our bit towards alleviating this unfortunate situation.

Peg MacLeod,  
EEO Co-ordinator  
Ext 3917

# Research Funds

*The following sources of research funds are now 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 Postgraduate Studies.*

## JAMES N KIRBY FOUNDATION

The James N. Kirby Foundation has invited applications for grants in the areas of health, education, technology and science, art, literature, and the conservation, maintenance and development of Australia's natural resources.

Applications close with the University on October 19.

## AUSTRALIAN TOBACCO RESEARCH

The Australian Tobacco Research Foundation have invited applications to conduct research into the relationship in Australia between tobacco smoking and health and disease in its widest context.

Applications close with the University on June 16.

## ELECTRICAL RESEARCH BOARD

Applications for grants to support research in areas relevant to the electricity supply industry, including the field of mechanical engineering where relevant.

Applications close with the University on June 22.

## THE QEII SILVER JUBILEE TRUST GRANTS

Members of Faculty and students are eligible to apply for grant to help develop their talents or a special project, and/or render services to the community.

For further information contact the Office of Research and Postgraduate Studies.

## ROTHMANS FELLOWSHIPS

Applications are invited for Rothmans Fellowships awarded to enable Fellows to undertake postgraduate work

## PREVIOUSLY REPORTED IN CAMPUS NEWS

Name	Internal Closing Date
Japanese Fellowships	May 20
Biotechnology Research	May 20
National Estate Grants Program 1987/88	May 25
World Health Organisations - 1988 Fellowships	May 25
French Government Scientific Fellowships '88	June 12
Australian Academy of Science – Selby Fellowship	June 16
Ship time on R.V. Franklin	June 22
History of Culture in Australia Prize and Award	September 30
Australian Academy of Humanities Travel Grants	September 30
Cambridge Benians Fellowship	October 1
Edinburgh Institute – Humanities Visiting Research Fellowships	November 16
Clive and Vera Ramaciotti - Travel Grants	Any time
Earthwatch	Any time
Criminology Research	Any time

within an Australian University. The Fellowships, valued at \$25,000, are awarded initially for one year and may be renewed for a second year. Applicants must be graduates with at least three years' postgraduate experience in research.

Applications close with the University on July 10.

## AUSTRALIAN ACADEMIES AND ROYAL SOCIETY – UK VISITS

Applications are invited from postdoctoral scientists and technologists who are Australian residents for visits to the UK to undertake short-term collaborative research projects.

Applications close with the University on August 18.

## CLIVE AND VERA RAMACIOTTI FOUNDATION RESEARCH GRANTS

Applications are invited for grants, payable in 1988, for projects in the field of medical research.

Applications close with the University on June 15.

## MEDICAL FELLOWSHIPS TENABLE IN THE UK (65/99/1)

Applications have been invited for the following medical awards:

- Medical Fellowships
- Senior medical fellowships
- Scholarships

Applicants must be nominated by the Vice-Chancellor or the responsible authorities of Universities or medical schools in the UK.

Persons interested in being nominated can obtain further information from the Office of Research and Postgraduate Studies.

# Scholarships and Prizes

## GERMAN GOVERNMENT SCHOLARSHIPS

The German Academic Exchange Service is offering approximately 14 scholarships to Australian citizens for postgraduate study at universities, technical universities and academies of art and music in the Federal Republic of Germany in 1988. Further information can be obtained from:

The Secretary, Department of Education, (German Government Scholarships), PO Box 826, Woden ACT 2606.

Applications close on June 19.

## AUSTRALIAN TOBACCO RESEARCH – SCHOLARSHIPS

The Australian Tobacco Research Foundation has invited applications for postgraduate scholarships to undertake a full-time higher degree involving research into the relationship in Australia between tobacco smoking and health and disease in its widest context.

Applications close with the University on June 16.

## JAPANESE FELLOWSHIP 1988/89 HOSEI UNIVERSITY

Hosei University in Japan is offering fellowships for foreign scholars to carry out a non-degree research program at the University for periods ranging from six to twelve months commencing either in April or September, 1988.

Application form can be obtained from:

The Secretary, Department of Education, (Hosei University Fellowships), PO Box 826, Woden ACT 2606.

## Seminars

### DEPARTMENT OF BIOLOGY

Date: Tuesday, May 19 — 4.30 pm

Speaker: Professor Mark Stitt, University of Bayreuth, West Germany.

Topic: Fructose 2, 6-bisphosphate: an important regulator of carbon metabolism in plants.

Date: Tuesday, May 26 — 4.30 pm

Speaker: Dr Gary Russ, Department of Zoology, University of Sydney.

Topic: Distribution, abundance and grazing activities of herbivorous fishes in the central Great Barrier Reef.

### ACCOUNTANCY AND LEGAL STUDIES

Date: Friday May 22

Time: 11 am

Place: Room 10.2035

Speaker: K. Cooper

Topic: The History of Corporate Criminal Liability

### DEPARTMENT OF MATHEMATICS INFORMAL THEORETICAL MECHANICS SEMINARS

The Department of Mathematics is running on Mondays throughout the session, a weekly informal Theoretical Mechanics lunchtime seminar (12.30 - 1.30 pm) in either Room 204 or 206 of the Austin Keane building.

May 25 — Dr N. Smyth, Department of Mathematics — Non-linear geometrical optics

June 1 — Dr N. Barton, Division of Mathematics and Statistics, CSIRO, Lindfield — Sedimentation and red blood cells

(12.30 - 1.30 pm, Room 204 or 206, Austin Keane Building)

J.M. Hill

Department of Mathematics

### FACULTY OF ARTS INTERDISCIPLINARY METHODOLOGY SEMINAR — SESSION 1

Thursday May 21 — Rebecca Albury, Sociology Department: 'Hidden Agendas in the In-Vitro Debate: analysis of the popular media'.

Thursday June 11 — Professor Bertell Ollman, Department of Politics, New York University: 'Marx's Theory of the State'.

Seminars are held in the Sociology Department, Room 19.2103, at 12.40 pm (bring your lunch). Enquiries: Ariel Salleh, Senior Lecturer, Sociology, ext 3614

### GETTING YOUR FACTS STRAIGHT

*Insights into the collection and use of Australian statistical information*

A lecture by Neil Mahoney Australian Bureau of Statistics, State Information Services Manager.

Date: Thursday May 21

Time: 12.30 — 1.30 pm

Place: Pentagon 1

An invitation is extended to all staff and students to hear Neil Mahoney. The main focus will be on economic statistics but other aspects of the Bureau's activities will be covered.

Enquiries Department of Economics ext 3725 or University Library ext 3548.

### DEPARTMENT OF BIOLOGY — BIOMEDICAL EVENING SEMINARS 1987

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 before the designated evening so that appropriate bookings can be made. Seminars will begin at 8 pm in Lecture Theatre G.19, Building 35. This series is sponsored by the Department of Biology and the School of Health Sciences. The assistance of Dr Stephen Anderson is acknowledged.

Wednesday June 10 — Mr R. Boyd, Head, Radioactive Products, Research Section, Lucas Heights Research Facility — Diagnostic Use of Radioisotopes in Medicine.

### 2ND OPEN SEMINAR SERIES THE BRAIN AND LEARNING

Venue: 20.4 (Pentagon 4), Fridays 3.30–5.30 pm

May 29: Neuroscience/Neuroarchitecture Theme. Professor Ian Chubb, University of Wollongong (Neuroscience). Dr George Paxinos, University of NSW (Physiology).

June 5: Cognitive Science Teaching Theme. Dr Peter Slezak, University of NSW (HPS).

### DEPARTMENT OF PHYSICS SCHEDULE OF LUNCH-HOUR FILMS FOR SESSION 1

A series of seven lectures given by Professor Richard Feynman, the celebrated Nobel Prize winner, produced in a number of films under the title Feynman Lectures, will be presented in the Physics Lecture Theatre (building 18 room 118).

Friday May 15, 12.30 pm — The great conservation principles.

Friday May 22, 12.30 pm — Symmetry in physical law.

Friday May 29, 12.30 pm — The distinction of past and future.

Thursday June 4, 12.30 pm — Probability and uncertainty

Friday June 5, 12.30 pm — Seeking new laws.

Students, staff and members of the public are welcome.

### DEPARTMENT OF PHYSICS — SCHEDULE OF COLLOQUIA

Held in Physics Lecture Theatre (building 18, room 118).

Thursday May 21, 12.30 pm — Prof Jack Kelly, School of Physics, University of NSW — From Microns to GeV with Wire and Tube.

Thursday June 4, 12.30 pm — Dr Michael Kenny, Division of Material Science and Technology, CSIRO Lucas Heights — Surface Analysis by Rutherford Back Scattering.

### DEPARTMENT OF CHEMISTRY

Session 1 seminars are to be held on Thursdays in Room 18.206 at 11.30 am.

May 28 — Dr Trevor Bailey, Department of Chemistry, University of New South Wales

Topic — Applications of NMR to Inorganic Chemistry

June 4 — Dr Richard Haynes, Department of Organic Chemistry, University of Sydney

Topic — Asymmetric Synthesis

Dr S.G. Pyne  
Coordinator

### DEPARTMENT OF MATHEMATICS

Speaker: Dr Adam Kucera, Research Associate,

Dept of Mathematics, University of Wollongong

Title: Cavitating Bubbles Near Rigid Boundaries

Date: Thursday May 21

Time: 1.30 pm — 2.30 pm

Place: Room 15.204 (Austin Keane Building)

*continued overleaf*



## Seminars

### DEPARTMENT OF ECONOMICS INDUSTRIAL RELATIONS

Speaker: Stephen Frenkel

University of NSW, editor of *Industrial Action: Patterns of Labour Conflict*, and joint author of *Unions against Capitalism? A Sociological Comparison of the Australian Building and Metal workers' Unions*.

Stephen Frenkel is currently working on a major project research for the State Rail Authority of NSW.

Topic: Efficiency and Equity in the Capitalist State Enterprise

Date: May 21

Time: 2 pm

Place: 19.1123

## Concerts, Exhibitions and Entertainment

### LONG GALLERY EXHIBITION

**Aldous Eveleigh paintings and drawings – Simon Tognetti – ceramics, domestic porcelain and stoneware.**

Free public exhibition – May 7 to Sunday May 31  
Monday to Friday 10 am to 4 pm Sunday 2 to 4 pm.

Places on campus to which the public has access should be places of exceptional excellence environmentally. The Long Gallery facilities, while still falling far short of those existing in the City Gallery, have been greatly enhanced with the installation at the top of the stairwell and, either side of it, of two extremely large plate glass painted display units. Units which offer total security to the exhibits – conceived to house ceramics small sculpting maquettes etc. These display cabinets are entirely covered at the back with a mirror, as are the sides and bottom of these cabinets, which allow each object to be viewed from the top, front, bottom and reverse side without moving one's head. The top lighting is recessed – the display shelving is plate glass.

Inaugurating these units (financed by a special grant authorised by Professor Peter Rousch) are ceramics – domestic porcelain and stoneware, by the young ceramicist Simon Tognetti, elder son of Keith Tognetti (Reader in Mathematics). Simon's ceramics are inexpensive, beautifully thrown, glazed, decorated, and functional. They look stunning in these new display areas and of his 116 exhibits (including dinner sets and tea sets itemised as one exhibit). He sold 65 on the day of the preview. Numerically for the Long Gallery – a record.

Aldous Eveleigh is a totally committed artist and his work is in terms deadly serious (*The Wastemaker*, 'With a Whimper', 'Power Struggle', 'Short of a Soldier') or delightfully witty ('Monologue', 'Words of Advice', 'Picnic'). He commands a wide range of techniques, not least his graphic works on paper, in realising his ideas with great skill. If his small watercolours are highly economical employing lucid washes over pen drawings, his large oils are often complex works in composition colour and in the diverse application of paint. Bruce Adams writing in the *Sydney Morning Herald* (March 13 1987) said: 'His paintings have a rhetorical theatrical dimension. His surreal figures engage in futile struggles against each other, or they blithely eat melon in bizarre garden parties. In one of the more literal allegories, a man grinds the earth into shreds of waste. Aldous Eveleigh mixes and matches pictorial styles

and grand themes, as if in pursuit of ambitions metaphysical meanings.'

This Long Gallery exhibition has been featured on *Win 4* (May 5) *The Sunday Telegraph* (May 3) and *Mercury* (May 5) and continues to Sunday May 31.

## Books Received

### MASTERING MODELS

*Jeremy Sanders*

**Computer-Assisted Structure Elucidation.**

By Neil A.B. Gray. Wiley: 1986. Pp. 536. \$54.95, 52.70.

Many chemists enjoy the intellectual challenge of structure elucidation. To others, however, the process is merely a prelude to synthetic, mechanistic or bio-chemical studies, so short cuts to the structure are warmly welcomed. The most important short cuts, other than X-ray crystallography, are the spectroscopic methods: IR, NMR, UV and mass spectra all give detailed information about different aspects of molecular structure, but generally do not lead directly to a complete structure. The chemist therefore has to create a set of hypothetical structures and then test their predicted properties against the experimental evidence. The structures that fail are discarded, while those that pass are subjected to further tests. With luck, one is left with a unique correct structure. Sometimes, several candidates fit all the evidence and additional experiments are necessary; on other occasions all the structures the chemist can think of must be discarded—we tend only to propose structure types that are familiar or precedented, while nature is more creative and less prejudiced.

In this book, Neil Gray has attempted to show how computers can help in all phases of the structure-elucidation process. He explains clearly, and with abundant chemical examples, the principles behind pattern recognition, spectrum matching, and the generation and testing of structures. The book is derived from Gray's association with Djerassi's historic DENDRAL project of the 1970s, and in places it perhaps gives undue emphasis to the details of that particular project—for example, the algorithms for generating and checking all possible structures with particular formula are described in more detail than most chemists need. The reference lists are comprehensive, and also cover topics such as spectroscopic data bases and synthesis-analysis programs. Unfortunately the literature coverage peters out in early 1983, so there is no mention of automated analysis (using pattern recognition algorithms) of COSY NMR spectra or of NOE data.

Gray is careful to emphasize both the strengths of the computer, as in the generation of possible structures, and its weaknesses, as in the matching of spectroscopic data to unusual structural features. We all know that the computer is indispensable for collecting and processing spectroscopic data; Gray shows us that we should also use it for generating structures as candidates in the elucidation process, because that is a mechanical job the machine does better than we do. However, it is clear that, as yet, we do not know how to program the subtle interpretation of information or the inspirational leap to the right answer, presumably because we don't know how we ourselves do it.

This, then, is an interesting book which will be useful for chemists who want to know about computers or computer scientists who want to know about chemistry. It also challenges us to ponder upon, and admire, the way that the human mind goes about the business of solving problems. See copy A on computership attached.

*Jeremy Sanders is a Lecturer in the University Chemical Laboratory, University of Cambridge.*

*Dr Neil A.B. Gray, author of 'Computer-Assisted Structure Elucidation', is in the Department of Computing Science at the University of Wallingford. Review reprinted from 'Nature' 23 April 1987.*