

THE UNIVERSITY OF WOLLONGONG

CAMPUS NEWS



Distributed each Tuesday

Deadline for copy noon Monday
of previous week

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25 July 1989



From the left, Professor Carla Fasano, Professor Robert Winder, Professor Ken McKinnon, Dr Fenton Sharpe, Mr Chris Ellis, Mr Justice Hope, AC, CMG

An invitational conference organised by the NSW Department of Education, the School of Policy and Technology Studies in Education of The University of Wollongong and the US-Australia Education Policy Project was held in Sydney from July 5 to 7. Opened by Mr Justice Hope, AC, CMG, Chancellor of the University, the conference aimed at furthering the knowledge and understanding of the reasons underpinning the shifting balance of power and accountability observed in Australian education policy. The conference also aimed at clarifying the changing patterns of policy decisions within and across educational agencies as well as at the interface between government, business and industry and the community.

The meeting brought together eminent speakers from overseas and from Commonwealth and State government, education departments, ministries, regional offices, colleges and universities, business, trade unions and the media. The participants were as varied as the speakers. Senior officers from State governments, from DEET and NBEET, NSW Labor Council, independent schools, parents groups, Teachers Federation, business, schools and higher education and postgraduate students of the Education Policy Program of the School of Policy and Technology Studies, all contributed to the success of the conference.

As anticipated by Professor Robert Winder in his opening address, the presentations and discussions – diverse and at times controversial – drew a picture of today's education as a highly complex, fluid, dynamic system. Variations in the definition of seemingly uncontroversial terms such as 'education policy' compounded the ambiguity introduced by three separate components of discussion about education policy: policies, practices and, importantly, perceptions.

The Australian situation, outlined by Professor Ken McKinnon, was broadly confirmed as common to the US by Mr Ramsey Seldon, Director of Assessment, Chief State School Officers Organisation, Washington, DC. The international trends discussed by Alan Ruby, and largely endorsed by Mr Al Shanker, Board Member, National Board of Professional Teacher Standards, pointed to a set of common shifts across countries.

Chief among these was the shift of emphasis on the major target groups of students. Lost is the emphasis on underachievers. The current focus is on the 'two middle quartiles', the students who perform just below or above average. The students who, in the words of Albert Smith (Deputy Editor of the *Financial Review*), are the vast number of ordinary students who are rarely fired with the

continues on page 2

General Notices

Wollongong Science Centre opens its doors tomorrow

With an allocation of floor space and a Challenge grant of \$30,000 to its Faculty of Science, The University of Wollongong has seen the establishment of a Science Centre at its new Fairy Meadow campus off to a fine start.

The Centre which will be officially opened by Barry O. Jones, Minister for Science, Customs and Small Business, at 5.30 pm tomorrow Wednesday July 26, is open to the general public as well as to schools.

By allowing hands-on experience, in an exciting and stimulating environment, of over 65 exhibits, the Centre aims to bring science alive and demonstrate its relevance to the complex devices by which we are surrounded and with which we have to deal on a daily basis – but which so often seem to be 'user-unfriendly'.

Donations of exhibits and materials have been received from Brisbane Expo, the Canberra Questacon and local organisations. Many local tradespeople and public-spirited community members have been generous in donating time and expertise to develop Stage 1 of the Centre.

Sponsorship is still being sought. The future of the

Centre will be based on the application of science in the community and it is hoped that sponsors will take the opportunity to show how they make use of the latest technologies. Presenting a friendly face to the community in this way is likely to improve an industry's image as well as encouraging today's children to turn to scientific and technological courses as they plan their futures.

Ethics Clearance Applications

The approval process for ethics applications will be speeded up considerably if the following procedures are adopted:

- (i) Applications should preferably be typed or, if hand-written, plainly legible and of a density suitable for photo-copying;
- (ii) Applications should come to the committee in a reasonably polished form – in some cases the description of the research application has been too preliminary for the committee to make a proper judgement;
- (iii) Methodological issues should be discussed with the supervisor before submitting the application to the committee;
- (iv) Applications and any subsequent correspondence should be directed through the Office of Research and Postgraduate Studies, rather than through the chairperson or individual members of the committee.

Denise Stevens

Office of Research and Postgraduate Studies

Education policy in Australia from page 1

excitement of learning. The performance of these students needs to be lifted to levels identified by Mr Chris Ellis (Director, Systems Division, Olivetti Australia Pty Ltd) as the 'middle manager's' level.

The tension between economic necessity and the broad mission of education was particularly stressed during a panel discussion involving Mr Gary Sturgess, Director-General, NSW Cabinet Office, Mr Paul Hickey, Deputy Secretary of DEET, Mr Chris Ellis, Mr Mark Duffy, NSW Labour Council and Ms Pat Reeve, Victoria Ministry of Education. The discussion illustrated cogently the familiar dilemma of policy-makers: how can immediate needs be attended to while at the same time instituting a configuration to suit the needs of the future?

Both Dr Fenton Sharpe, Director-General of the NSW Department of Education, and Professor Carla Fasano, The University of Wollongong, emphasised the need to systematise policy decision-making with the help of rigorous analytical tools. Different theoretical approaches were proposed which could help in managing the supremacy of the individual/collective responsibility/market forces and ideology. An array of relevant disciplines was scanned in view of integrating them to make sense out of 'the pattern which connects' the various policy elements.

The increasingly blurred differentiation between professional and political spheres in education and the ensuing tension and uncertainty were stressed by both Professor McKinnon and Mr Warren Grimshaw, Secretary, NSW Ministry of Education, as a major aspect of the current shifts in educational management and a major constraint in policy implementation.

Summing up the conference, Professor Fasano underlined the contribution of the various trends and issues to the emerging picture of several overlapping and concomitant shifts in the balance of power and accountability in education. The shifts vary in duration, form, extent and speed of evolution, in a matrix which may be independent of political ideology and independent of Australia. In the global and rapidly changing picture of education, the degree of 'relatedness' between the various elements is increasing while their relative autonomy is decreasing. Short-term problems and solutions can be outlined, but as no stable configurations have yet emerged, predictions over a longer time span are hard to make.

To navigate sensibly towards a still-unclear future, policy-makers need to base their decision-making on a few stable reference points. An awareness of values and a philosophical stance, as discussed by Dr Jim Walker, of the University of Sydney, and Sister Mary Reardon, former Executive Secretary of the Catholic Education Commission, should balance the growing pragmatism, reality and myths should be kept separate, international trends should be monitored continuously, flexibility should be fostered in the students to prepare them for a still-unclear 21st century, and, finally, education professionals at all levels should be supported in a process of learning and understanding of the complexity of the policy process so as to be better able to negotiate their own position within the system, to support it, to change it or to opt out of it.

The NSW Department of Education will finance the commercial production of the conference proceedings, under the responsibility of Professors Carla Fasano and Bob Winder.

Wollongong Seeks Journalism Professor

The University last week advertised internationally for a Foundation Professor of Journalism, to head the new graduate program. The University is to offer a two-year Master of Arts in Journalism, and plans to admit its first students during 1990.

The MA will be open to graduates in any field, and will not presuppose any formal training in journalism. It will be strongly practical in orientation, aiming to produce professional journalists of the highest calibre. Students will be required to meet rigorous standards in everything from basic syntax, grammar and oral enunciation, through to the investigation, analysis, and interpretation of complex events.

The main reason for the University's decision to make the Journalism degree entirely postgraduate is the recognition that as the general levels of public education rise, Australia will need more journalists who are highly educated in fields such as Science, Law, Economics, and Computing, as well as the Liberal Arts.

A further feature of the Wollongong Master's course will be an emphasis on the 'journalist as a performer', in recognition of the increasing mobility of journalists between the print, radio and TV media.

In its search for a Foundation Professor, the University has placed strong emphasis on professional standing and leadership, and the ability to foster good working relationships with news media at the local, national, and international levels.

Research and Postgraduate Studies News

Committee membership

The results of the Faculty elections held for members of the board whose terms of office expired on June 30 are:

Arts	Associate Professor L.L. Viney
Commerce	Professor M. Gaffikin
Education	Mr N. Hall
Engineering	Associate Professor Y.C. Loo
Mathematical Sciences	Professor D.A. Griffiths
Science	Professor A.C. Cook

Allocation of HECS Exemption Scholarships

The board discussed the 1989 priority order for the allocation of HECS scholarships. To encourage postgraduate research activities in the University, the board made amendments to the 1989 priority order. Assuming that government proposes no changes to the HECS for 1990, the priority order for 1990 HECS exemption scholarships will be as follows:

- (i) full-time PhD students
- (ii) full-time Honours Masters students by Research
- (iii) Teaching Fellows
- (iv) full-time Honours -year students
- (v) full-time Honours Masters by Coursework students
- (vi) part-time PhD students
- (vii) full-time Pass Masters students
- (viii) part-time Honours Masters students by Research
- (ix) full-time Graduate Diploma students.

Changes from the current policy are (a) to change the order of full-time Honours year students and full-time Masters Honours by Coursework students; and (b) to change the order of part-time PhD students and full-time Pass Masters students.

Denise Stevens
Office of Research and Postgraduate Studies



The Vice-Chancellor, Professor Ken McKinnon, accepts from the Consul-General for Switzerland, Mr Hans Egger, a selection of books by Swiss writers for the University Library. The gift is part of a cultural exchange between the Swiss government and Australian universities

Drugs in Sport

The Drugs in Sport Conference, held at The University of Wollongong on July 14 and 15, made a series of important recommendations. Briefly, they are:

The sports system in Australia must support athletes in preventing and reacting to drug use. Rather than reliance on punitive measures, the government must provide 'adequate' funds (rather than a fixed percentage of the budget) to provide education, counselling rehabilitation, testing, and research. The extent of funding needed to meet these needs must come from governmental agencies.

There must be a major push toward educating athletes, children, parents, and coaches on the effects of drugs, particularly anabolic steroids.

There must be an increased effort to educate coaches through the coaching certification program. Coaches must understand the effects of using drugs and be trained to communicate this information to their players.

Coaches should be held more accountable for their athletes' behaviour, particularly with drug-taking. The coach must clearly express to athletes a drug policy that prohibits drug use without a physician's written approval.

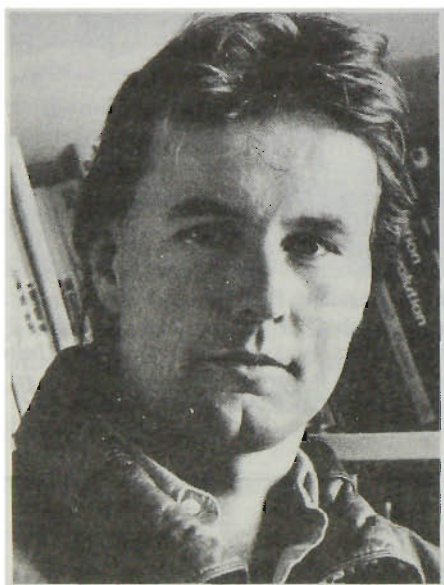
Sporting organisations must provide coaches with more support for implementing team drug policies by providing written policies and guidelines prohibiting drug use. This will make it easier for coaches to implement and reinforce team rules.

More research is needed in Australia to determine: (1) the reasons that athletes take steroids and other drugs, and (2) how widespread the problem is.

Finally, conference participants strongly endorsed that adult leaders in sport (league and team administrations, coaches, and parents) have an obligation to take measures to prevent the use of performance-enhancing drugs by all athletes.

Von Humboldt Fellowship Awarded to STS Academic

As a result of his work combining broader political theories of technology with policy research on new manufacturing technologies, Dr Richard Badham has been awarded a Special Research Fellowship by the West German Von Humboldt Foundation. Dr Badham will be on leave from the university for 18 months to work on the design of human centred production systems in collaboration with engineers at the IPK Fraunhofer



Dr Richard Badham

Institute in West Berlin and researchers on a number of European ESPRIT programs. Dr Badham will also be working with Dr Ditta Bartels of the Australian Embassy in Bonn on the broader political dimensions of these projects, comparing and assessing European Parliament, West German and Australian government policies for considering human factors in the promotion of new manufacturing systems.

A major 100,000-word report has recently been completed by Dr Badham and Simon Wilson on *CAD/CAM, Work Organisation and Skills in Australia*. Anyone wishing to obtain further details of this research should contact Simon Wilson on ext 3691.

During the next 18 months, Dr Trevor Williams of the Department of Management will be communicating with Dr Badham on an ARC-funded project on Human Centred Systems. For further details of this and the German projects, Dr Badham can be contacted through the secretary of STS.

Appointment of Eric Bryce – composer-keyboard jazz exponent and author to Conservatorium of Music

Eric Bryce, AM, BMus, AMus, FIBA is a recent retiree from Adelaide, now living at Mt Kembla. Despite wishing to commit himself to composing, his background and experience in orchestral writing and jazz music are such that considerable persuasion was needed for him to consider making himself available for the benefit of perhaps one, two or three jazz keyboard exponents interested in extending their prowess under his guidance.

It is also conceivable that Eric could be interested in helping anyone interested in jazz composition-arrangement.

Eric left Sydney Conservatorium around 1958 to take up a music master's position in Adelaide. In 1988 he retired as senior lecturer from the Adelaide CAE, receiving an AM in 1988 for his services to music education in South Australia.

Further details of Eric Bryce's distinguished record are available from the Conservatorium of Music, telephone 27 0533.

Review of Department of Physics

A formal review of the Department of Physics has been initiated. The committee established to review the Department is composed as follows:

Professor T.F. Smith (Chairperson)
Head, Department of Physics
Monash University

Associate Professor P.D. Bolton
Dean, Faculty of Science

Professor I.W. Chubb
Deputy Vice-Chancellor

Mr R. Griffiths
Council nominee

Professor G.V.H. Wilson
Department of Physics
University of New South Wales
Australian Defence Force Academy

The Review Committee is required to evaluate all aspects of the Department including its facilities and curricula. Members of the University are invited to forward submissions and comments to Ms M. Cooper, Academic Services, by 31 July 1989.

WISENET

The Wollongong Group's July meeting will be a short forum to explore ways of encouraging more women to take up or continue science and to upgrade their training.

Representatives from the Departments of Education and Industrial Relations, and The University of Wollongong, a local schoolteacher and a careers adviser, have been invited to talk briefly, leaving plenty of time for open discussion. Please come along and pitch in with your views and ideas.

Date: Tuesday July 25, 5.30 pm.

Place: Kemira Room, Union Building, The University of Wollongong.

Eric Bryce



Geographers in Germany

The West German Science Foundation is coincidentally sponsoring two academics from the same department to attend completely different conferences to be held in the same month in Germany later this year. Professor Murray Wilson and Associate Professor Gerald Nanson are being sponsored by the *Deutsche Forschungsgemeinschaft* to participate in major international conferences in their respective fields of population geography and fluvial geomorphology.

Professor Wilson will be presenting a paper on fertility, birth order and maternal age to the International Geographical Congress Commission on Population Geography in Kiel early in September. At almost the same time, Professor Nanson will be presenting and co-presenting papers on the thermoluminescence dating of floodplain sediments to the Second International Conference on Geomorphology to be held in Frankfurt.

Wollongong geomorphologists will be well represented at this conference, with papers on the dating of quaternary sediments and the evolution of river systems also being presented by David Price (TL laboratory), and by research students, Axel von Krusenstierna, Bert Roberts and Jerry Maroulis.

Wollongong University Opens Gate

Wollongong University's new Gateway Program, was opened on July 10 by member for Macarthur, Mr Steve Martin. It is designed to help people who have been away from formal education for some years to acquire the study skills necessary for university education, and to decide for themselves whether a university education will meet their needs. The scheme may provide a model for other universities.

Pro Vice-Chancellor Professor Lauchlan Chipman indicated that the Gateway Program will be funded for the next three years by a special grant from the Federal Department of Employment Education and Training (DEET).

'This year The University of Wollongong will receive more money from the Government's Special Equity Fund than any other Australian University', Professor Chipman said.

A sum of \$236,000 a year, spread over three years and indexed for inflation, has been allocated to Wollongong University to help meet special educational and child care needs of students.

Seasoned Approach

This week marks the beginning, and the end, of The University of Wollongong's Session 2. From next year, the University will name its academic sessions after the season with which they mainly coincide. Instead of Session 1 and Session 2, they will be designated Autumn and Spring. Summer Session retains its present title.

There is a point to the change, as Pro Vice-Chancellor Professor Lauchlan Chipman told a group of new students during last week's Orientation ceremony.

'Increasingly', he said, 'it will be possible for students to begin their degree studies at points other than the traditional starting date of late February'.

Professor Chipman said he believed the University was a national pioneer in developing a flexible approach to commencement date, just as it had pioneered all-year-round teaching, with its Summer Session, which had been running successfully for over eight years.

The Tempest

A Musical Adaptation of Shakespeare's Play by
Students of the School of Creative Arts
Directed by Peter Shepherd
Movement Design by Lisa Scott-Murphy

NEW UNIVERSITY THEATRE

Wednesday August 23 at 8 pm

Thursday August 24 and Saturday August 26 - 8 pm

Tickets: \$10 and \$6 concession

School performances (to be announced) - \$4

Gala performance Friday August 25 (see below)

University Open Day

Sunday August 27 - 11 am; 3.15 pm - \$4

Gala Evening

FRIDAY AUGUST 25

The evening will include

6.30 pm - Preview of Student Work in the Long Gallery

with light refreshments and musical items

7 pm - Exhibition Official Opening

7.45 pm - Opening of the new Theatre by the Vice-Chancellor, Professor Ken McKinnon

8 pm - Performance of *The Tempest* in the New Theatre

10 pm - Sit-down supper with selected table wines at the University Bistro

Tickets \$50 each

Phone 27 0985 for bookings and information

Approximately 70 new students began their studies at The University of Wollongong, including 20 exchange students from the USA.

Weight Watchers At Work

Weight Watchers have a new *AT WORK* Program which will be starting on campus at the beginning of August. This is a new and exciting concept to help you overcome the problems associated with weight gain, aimed at your needs and presented at your workplace for your convenience. The Weight Watchers meeting will be conducted during the lunch hour one day each week with the idea being we will gain support from each other in achieving our ultimate goal. Please contact Frances Sullivan on ext 3456 for further details.

A logjam has formed

Because of a lack of material (there was enough only to make a rather dull four-page issue), we decided against publishing *Campus News* last week. The result of course is that the worst has happened. For this week's issue alone there has been submitted enough material for a complete issue. The result is that a logjam has formed. We shall work our way through it, but it could take a couple of issues ... (EDITOR)

Women's Studies and Research

The University of Wollongong was represented by Stephanie Short, lecturer in the Department of Sociology, Sue Rowley, lecturer in Creative Arts, and Anne Dugdale, postgraduate student in the Department of Science and Technology Studies, at the Inaugural Women's Studies Conference during the mid-year break in Adelaide.

Over 180 academics and students from universities, colleges and the TAFE sector shared information about teaching skills, recent theoretical developments in feminist research and women's studies in the current political and economic climate.

Dr Robyn Rowland, Director of the Women's Studies Institute at Deakin University, gave a challenging paper on 'Resistance and Survival in the Dawkins Era' and Stephanie Short's paper on 'Feminist Reconstructions of Health Care and their Relevance for Nursing Education' added a positive note to the proceedings. Anne Dugdale helped to clarify different theoretical perspectives in her paper, 'Beyond relativism: moving feminist struggles with scientific/medical knowledge'.

Highly relevant to current initiatives in research and postgraduate studies at The University of Wollongong, was Professor Fay Gale's warning '...it was critical for lecturers in women's studies to remain involved in research'. In her keynote address she said '...the inevitable jostling for position will undoubtedly work against increasing the numbers of women being employed'. In a study of academic staffs of 18 Australian universities for the decade 1977-87, Professor Gale found that there had been only a five per cent gain in the number of women who were professors, readers and lecturers.

Women academics constituted 14 per cent of academic staff in 1987 and nine per cent in 1977. The University of Wollongong was in the middle range behind institutions such as the University of Sydney and Macquarie University. Professor Gale noted that women in academe are often on too many committees and overburdened with teaching and administrative responsibilities. In order to enable women to direct their energies into research she said we need more women academics, more senior women, more research and more Australian Research Council applications and funding.

In line with this goal the research committee of the Australian Women's Studies Association has called on the Education Minister, Mr Dawkins, to make 52 per cent of the national research budget available to women. The '52 per cent Charter' is based on the premise that since 52 per cent of the population are women, distribution of research funding should be more equitable.

Radiation Safety

A range of courses covering radiation safety in various aspects of the use of radiation in laboratories is available to staff members. These are based at ANSTO and the University of NSW and vary in depth and duration. Courses relating to techniques such as use of radioisotopes and use of X-ray sources are included. Funds have been made available from the staff training budget for approved academic and technical staff to attend a course relevant to their area of work.

For further information contact the University Radiation Safety Officer, Associate Professor Ross Lilley, ext 3431, or the University Safety Officer, Mr Jeff Owers, ext 3914.

Freedom of Information Update



At the seminar: Margaret Newton, Dr Peg MacLeod and David Roden

Sharing concerns about FOI

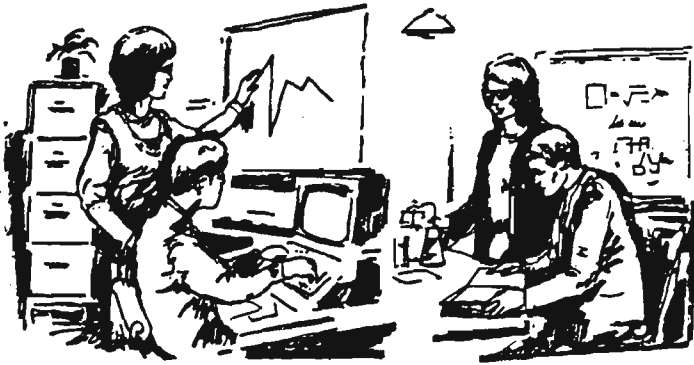
The AITEA (Australian Institute of Tertiary Education Administrators) seminar, held in the University Council Room on Friday July 14, provided delegates from NSW institutions with the opportunity to share their concerns about the impact of FOI on their operations.

There were four main presenters: Mr Robin Handley, who lectures here in Administrative Law, opened the proceedings on a note of reassurance. He stated '...we have nothing to fear from FOI', and discussed the advantages derived from the 'openness' and 'accountability' requirements of the legislation. He summed up by saying: '...if tertiary administrative procedures do not stand up to FOI scrutiny then they should be changed.'

Mr David Roden, Director of the FOI Unit, NSW Premier's Department, outlined the role of the FOI Unit and the desired consequences of the Legislation (which came into effect on July 1). He focused on the implications for higher education and stressed that the NSW Government views the tertiary education sector as having a vital lead to play in devising strategies for implementation of FOI.

Margaret Newton from Timmins Ray opened discussion on 'Decision Making and Training Strategies for FOI in the Tertiary Sector'. Having conducted numerous sessions for government professionals, Margaret has become expert in devising strategies for dealing with negative responses to FOI. She stated categorically that the majority of fears she has encountered about FOI have been 'groundless'.

Dr Peg MacLeod concluded the seminar by outlining the course of action taken so far by the NSW Universities Working Group on FOI. Her presentation on strategies for 'public accountability' and 'confidentiality assurance', developed at Wollongong University in collaboration with staff from the University's Personnel Branch, was applauded.



Staff Roundup

Faculty Exchange Program – Association of South-East Asian Institutions of Higher Learning (ASAIHL)

ASAIHL, with the support of QANTAS, will launch a faculty exchange program between Australia and the South-east Asian countries to stimulate greater academic co-operation in the region.

A scholar from Australia will be entitled to visit a minimum of two institutions in Malaysia for a minimum period of two weeks in each institution.

Proposals for exchange will be accepted up to November 10 for selection on December 3.

For further details contact Shirley Jorgensen, ext 3946.

Staff Development Courses

Selection Techniques Workshop for Deans and Heads of Units

August 17.

Special one-day workshop designed for Deans and Heads of Units. In line with the University's legislative requirements and commitment to EEO, the workshop will provide guidelines on how to meet legal requirements on staff selection and thereby minimise chances of appeal.

Dealing with the Public

August 29.

For all staff who want to improve their skills in dealing with other departments, contacts outside the University and students.

RSVP August 10.

Career Development

September 14 and 15.

A workshop designed to assist participants to explore personal vocational directions and career options.

RSVP August 19.

University Finances (General Staff)

September 19.

A half-day seminar presented by the finance unit to help you work your way through the financial maze.

RSVP August 30.

Nomination forms can be obtained from Shirley Jorgensen, ext 3946.

Administrative Trainee makes the grade

The Personnel Services Branch has recently set a precedent by appointment Anne Kiceluk, a former Administrative Trainee, to the position of Assistant Personnel Officer. She becomes the first Administrative Trainee to obtain a permanent position at the University.

Anne was originally employed in 1985, and has spent



Anne Kiceluk

the past four-and-a-half years working in numerous Administrative Departments including Personnel, Financial Services, Student Administration, Planning and Marketing, Buildings and Grounds and Academic Services. She is currently in the final year of her Bachelor of Arts degree majoring in Industrial Relations and Psychology.

Staff members with enquiries regarding the recruitment of general staff and administration of employment conditions (general staff), should contact Anne on ext 3935.

Development Leave for General Staff – 1990

The Development Leave for General Staff Scheme is designed to enable a staff member to complete a program of study and/or visits which will result in benefits to both the staff member and University.

A member of staff whose application has been successful will be entitled to salary while on leave and the cost of travel and accommodation will be paid.

Leave may be taken in Australia or overseas and will not normally exceed three months.

The scheme is competitive and applicants must be able to demonstrate significant personal development and substantial benefits to the University from their proposed program.

All members of general staff are entitled to apply.

Full details on terms and condition of leave and a suggested application format can be obtained from Shirley Jorgensen, ext 3946.

Applications for 1990 will close on October 15, and should be addressed to the University Secretary.

Still Having Problems With UNIX?

Wish you could still use UNIVAC?

For members of staff and postgraduates who feel like that, Computer Services are providing special programming assistance during Second Session.

A Duty Programmer will be available as follows: Mondays and Wednesdays, 2 pm to 5 pm; Fridays, 9.30 am to 12.30 pm.

The service is specially focusing on the UNIVAC → UNIX migration.

Contact Van Dao Mai in 15/G29 during those hours or, better, ring ext 3831 or 3850 to book an appointment.

Concerts, Exhibitions and Entertainment

Diary – School of Creative Arts

Long Gallery, The University of Wollongong, Northfields Avenue.

Open to public Monday to Friday 10–12.30 and 1.30–4 pm; Sundays 1.30–4 pm.

Sales area: Small paintings/prints/ceramics/art cards/frames/SCARP magazine.

To August 13

Preview Friday July 21, 7.30 pm to 9.15 pm. To be opened by Tony Bond, Curator of Modern Art, Art Gallery of NSW, 8 pm.

Hi-Tech Art – TAFE Staff Exhibition.

Friday August 18 to September 10

Official Opening Friday August 25 at 7 pm by Laurens Tan, to be followed by Gala Performance of 'The Tempest' at 8 pm.

Past and Present – Graduates and 1st and 2nd Year Creative Arts Students.

Books and Reading

New Book

Markey R, *Employee Responses to Technological Change in State Unemployment – a case study of the NSW Public Service*, Riverina-Murray Institute Press, ISBN 0-949060-80-1.

Ray Markey, is a graduate of the universities of Sydney and Wollongong and currently Director of the Centre for Work and Labour Market Studies at Wollongong. He is the author of *The Making of the Labour Party in New South Wales, 1880-1900*, of *Industrial Democracy at Port Kembla*, and *The Trade Union Response to Technological Change in Australia*, as well as numerous articles on industrial relations, and labour history.

Seminars

Department of Chemistry

Date: July 27, 11.30 am.

Venue: Building 18, Rm. 206.

Speaker: Dr Roger Read, Department of Organic Chemistry, University of New South Wales.

Topic: *Selectivity, a recurrent theme in natural product synthesis.*

Department of Electrical and Computer Engineering

Date and time: Monday July 31, 12.30 – 1.30 pm.

Venue: Building 35, Room G45.

Speaker: Mr A. Perkins.

Topic: *Presentation of a stochastic multipulse speech coder with self excitation.*

Department of Biology

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

Date: Tuesday August 1.

Speaker: Dr Robert Whelan.

Topic: *Study Leave Report.*

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 Department (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.

Advertisements

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.

TO LET

Wollongong Hospital area: 2 bedrooms furnished house, available from mid-September for 6 months. References required. Phone 28 7379.

FOR RENT

Available July 16, modern three-bedroom unit in Robsons Road, close to university. Quite location, excellent for private study. Views of Keiraville. \$150 or negotiable. Phone 28 8166 any time.

FOR SALE

Programmed mathematics basic and intermediate instructional text and set of 23 audio tapes. Phone 28 0190.

SALE BY TENDER

The University has a Ford Falcon Utility Rego No. OMW 397 available for sale by tender. No guarantee is offered on this vehicle. Terms of sale are cash or bank cheque. For inspection, contact Martin Bramston (042) 27 0594. Tender closes 11.30 am, August 4. Tenders should be placed in a sealed envelope addressed to Business Services, The University of Wollongong, PO Box 1144, Wollongong, 2500 and noted on the outside front 'Tender for Vehicle OMW 397'.

HI TECH ART

To August 13, Monday to Friday 9.30 am – 3.30 pm, Sundays 1.30 pm – 4 pm. Sales area: ceramics/drawings/jewellery/original prints/smaller paintings/art cards/SCARP magazine and framing service. Refreshments provided.

MAC SEs

Apple have offered discounts on both the Macintosh SE Dual Drive and Hard Disk 20 systems. These discounts are available until 1st August, or for as long as stocks last. Mac Se Dual Drive \$3,221 (staff/student), \$2,865 (department). Mac SE Hard Disk 20 \$4,116 (staff/student), \$3,625 (department). NB Prices do not include a keyboard. Department prices include the Anchor Pad. Apple Keyboard \$170 (staff/student), \$144 (department). Apple Extended Keyboard \$310 (staff/student), \$263 (department).