

THE UNIVERSITY OF WOLLONGONG CAMPUS NEWS



12 June 1990

NEW DIMENSION TO UNIVERSITY PRINTERY SERVICE

Full-colour printing now available on campus

THIS ISSUE of *Campus News* announces officially a new direction – as well as a new dimension – in the services available to the University community from that sterling institution, the Printery.

Glenn Brissett, the Printery Manager, is delighted to announce that he now has the facility, and the capacity, to produce high-quality four-colour process material.

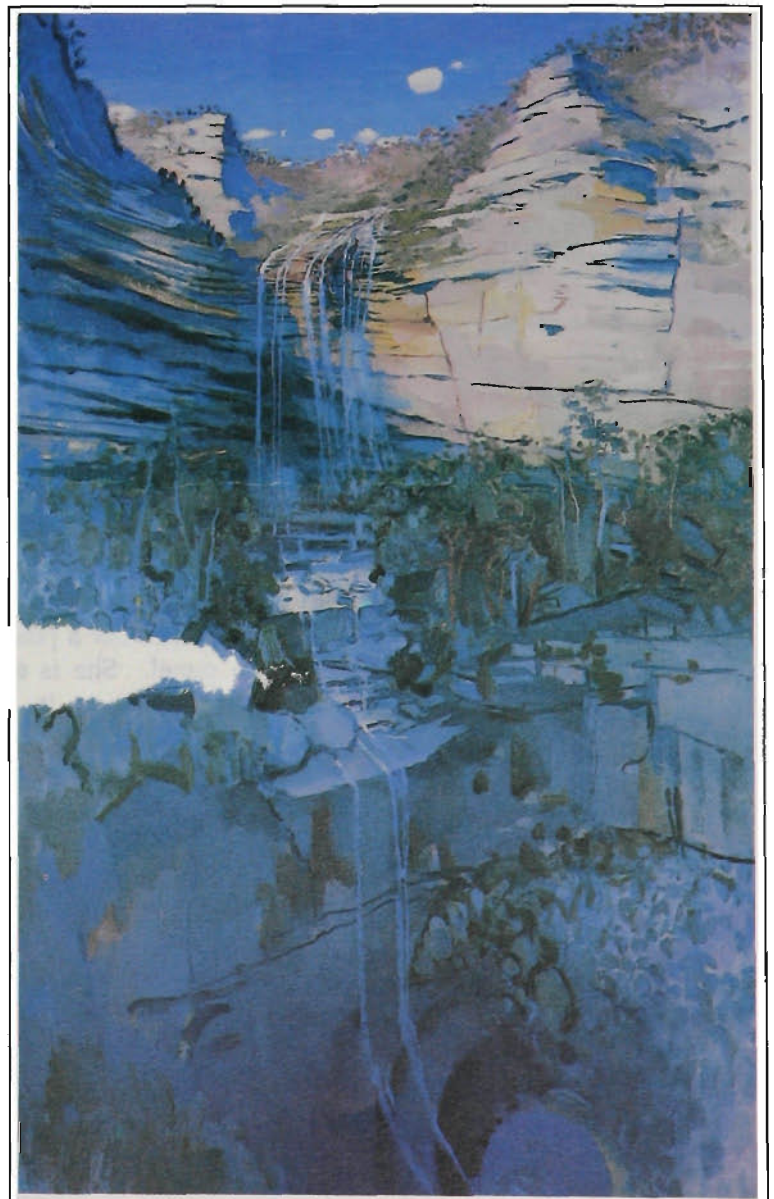
This new dimension to the printery's services will open new markets which currently constitute 'escape spending' from the University.

From a modest duplicating service, the Printery has grown with this latest development to a substantial quality department able to offer numerous services both inside and outside the University.

Glenn Brissett holds that the Printery with its progressive business plan and marketing strategy is following in the footsteps of its parent body by being a leader in its field.

The Printery offers accurate typesetting, meticulously careful and accurate paste-up of artwork – everything through to high-quality product.

The four-colour reproduction on this page is from a painting from the brush of the School of Creative Arts' John Eveleigh. The centre spread (pages 4 and 5) shows the Printery staff at work .



Global warming – a view from Britain

ONE WORLD WEEK (which started on May 21) was a particularly significant week in terms of the issue of 'global warming' in the United Kingdom. The British Broadcasting Corporation screened a series of documentaries about the global crisis, or crises, perceived to be facing us all, the highlight of which was a 60-minute program by Prince Charles, entitled *HRH The Prince of Wales: The Earth in Balance*. As if moved by this royal perspective, Mrs Thatcher warned, later in the week, that the world is at risk of untold catastrophe from the certain arrival of global warming as she unveiled a further climate research centre and her government's plans not to escalate CO2 emissions. These plans in turn were described as woefully inadequate by the ultra-green factions.

Such end-is-nigh predictions from the nation's leaders seemed curiously out of kilter with the scientific appraisals during the same week. The IPCC (Intergovernmental Panel on Climatic Change) report released during the week reaffirmed the high degree of uncertainty as to what might be expected. Similarly, at a conference on global warming at the Royal Geographical Society, internationally recognised scientists were generally cautious as to the changes to be expected. One of the six speakers was Dr Colin Woodroffe of the Department of Geography, Wollongong, who had been invited to London to speak on the effect of sea-level rise on tropical shorelines. His work on coral atolls, recently published in *Nature*, provides little support for recent sea-level rise, and suggests that these most fragile island nations are not, as yet, faced with the calamity anticipated under the extremely alarmist predictions of a few scientists.

New journal on the way

IN PRESS NOW is a new University publication. Entitled *Profile and Vice-Chancellor's Annual Report 1899-1990*, the journal is produced in full colour, runs to 32 pages plus cover, and is designed to introduce the University to overseas people and visitors to the campus. As the title suggests, the content is a mix of 'reportage' of the major events of the year and background material – presenting, in fact, a 'profile' of the University. Its approach is impressionistic, and its presentation totally different from the traditional, highly detailed *Annual Report* prepared for the government in accordance with the relevant Act of Parliament.

Articles in the main are brief and include information on University progress, courses offered, student numbers, sources and destinations after graduation, and deal with research and related topics including links with business and links with the community. A section devoted to the quality of the academic staff focuses on 19 people. This will be a regular feature of successive issues, with different groups featured each time the journal appears.

...and incidentally...

IT IS often said, with a wry smile, that nobody reads annual reports. Some people flip through them, looking at the pictures and homing in only on material in their own fields of interest. But that annual reports are read by some at least is evident in the warm response to the recently published University of Wollongong *Annual Report* for 1989.

One Vice-Chancellor, from another University in another state – and clearly a person of discernment and good taste! – has written to congratulate us on the quality of our production, going so far as to state that he believed that it 'set something of a model for the much-needed extending and widening of our communication channels'.

We extend our own congratulations, not to mention thanks, to Academic Services for their splendid behind-the-scenes collaboration throughout.

International Education Indicators

WOLLONGONG academic Professor Carla Fasano has been invited by the Organisation for Economic Co-operation and Development to join an international panel of experts. The experts are charged to clarify the future of the OECD's international project on education indicators, which focuses on the schooling sector and its interface with post-secondary education and the labour market.

The invitation has not surprised Professor Fasano, Co-ordinator of the Edu-

cation Policy Program. A former member of the OECD Secretariat, Professor Fasano had been invited to act as a discussant in the OECD symposium held in Boston, USA, last April, to present and discuss the outcomes of the two-year-old international project on education indicators, and outline its future directions.

As it turns out, Professor Fasano has discharged her discussant role only too well. Her 'constructive criticism' of the program of work proposed by the OECD for the second phase of the project has gained her a position on the international panel. She is the only academic from Australia on it.

Professor Fasano's role is to provide a more global analysis of education indicators than that developed so far. The report asked of her by mid-1991 will present a framework, theoretical as well as empirical, which should guide the Organisation's construction and organisation of its system of education indicators over the next two years. The experts' contributions will be published by the OECD in a volume scheduled for 1992.

Nita Temmerman,
Lecturer, School of Policy and Technology
Studies in Education.

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Japanese robot researcher visits University

Talks with members of Industrial Automation Research Program

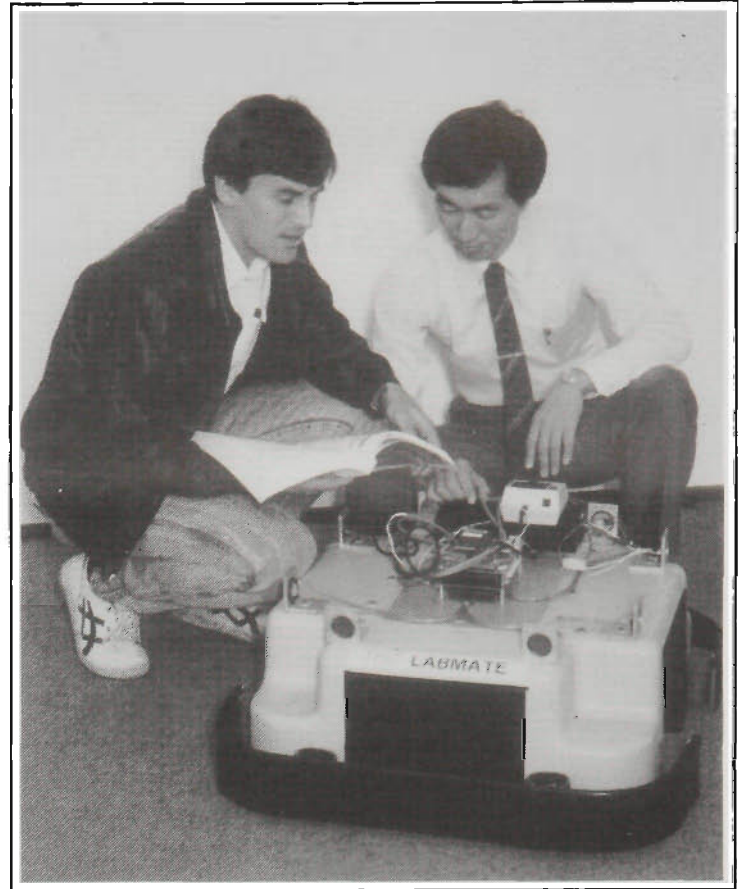
PROFESSOR Shi'nichi Yuta visited Wollongong to discuss mobile robot research with members of the Industrial Automation Research Program during the week May 25 to June 3. The Industrial Automation Program consists of staff members from the Departments of Computer Science, Mechanical Engineering and Electrical and Computer Engineering and is headed by Professor Chris Cook.

Professor Yuta, who has an international reputation in robotics research and has been actively researching in the field since 1978, presented a series of six seminars and round-table discussions on various aspects of his research.

Agreement in principle was made to collaborate on mobile robot research between the Universities of Wollongong and Tsukuba. This collaboration will

take the form of the exchange of research papers, examination of research degree theses, the exchange of post-graduate students and staff, in addition to a joint mobile robot research project run by both institutions. It is hoped that a formal agreement between the two institutions will be signed in the near future.

Professor Yuta's visit to Australia was sponsored by DITAC. The visit was organised by Alex Zelinsky, of the Department of Computer Science, who has been invited to spend one year at Tsukuba University in 1991 to continue the collaborative work that has started between the Universities of Tsukuba and Wollongong.



Working with robots, left Alex Zelinsky, Department of Computer Science, with Japanese visitor, Professor Shi'nichi Yuta

Günter Arndt honoured

Elected to serve on select research committee

PROFESSOR of Manufacturing Engineering at the University of Wollongong, Günter Arndt has been chosen to represent Australia on a Japanese MITI research committee. The position is available to only one of five possible Australians. Nominations are made by the Department of Industry, Technology and Commerce in Canberra.

The Committee is to investigate Intelligent Manufacturing Systems and, with an overall budget of some \$A11.5 billion, is aiming at co-operative international manufacturing research over the next decade. Professor Arndt, together with ex-Institute of Engineers Australia President, Mr W. Stamm, will represent Australia on the 'TMS International Committee', as it is designated, with two further

Australians to be elected to the IMS Technical Committee at the first meeting of the first-named.

International Advanced Robotics Program

PROFESSOR Arndt has also been invited to present a paper on the first day of the International Advanced Robotics Program (IARP) to be held on June 14 and 15 in Avignon, France, on the topic of *Agricultural Robotics*.

It was at the Versailles Economic Summit of 1982 that an international collaborative project, now known as the International Advanced Robotics Program, was initiated. Nations participating in the

collaboration in 1989 included Australia, Canada, France, Germany, Italy, Japan, the UK, the USA and the European Commission; the Netherlands, Norway and Australia have joined as observers. All these countries have agreed to the general objective of IARP: to foster international co-operation aiming to develop advanced robot systems able to dispense with human exposure to difficult activities in harsh, demanding or dangerous conditions.

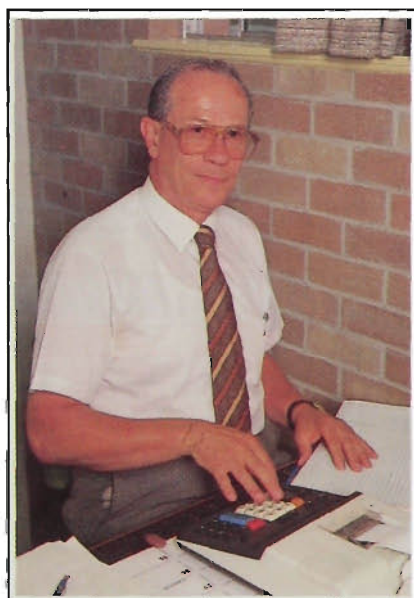
Geography graduates in Planning and Marketing Branch

RECENT appointments in the Department of Planning and Marketing include Toni Pickthall and Brenda Weeks. Toni graduated with a BA in 1988 and has been working as a temporary research assistant with Dr Hilary Winchester in the Department of Geography. Brenda Weeks graduated with a BSc in 1989 and is currently enrolled as a part-time Honours student in Geography. She is studying flood hazard in the Illawarra and is supervised by Dr Ted Bryant.

*With its new two-colour press,
The University Printery
can now produce work in
four colours*



*Leonie Swan,
Typesetting and Accounts*



*Bryan Loughlin,
Accounts and Budget*

Terry Campani, Artwork, Layout and Design



*John Lees,
Lithographic Operator*



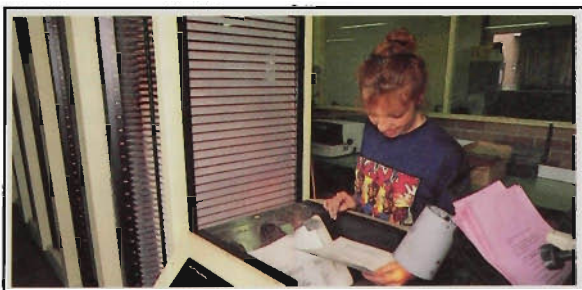
*Linda Cullen,
Lithographic Operator*



Garry Piggot, Lithographic Operator, Lionel Ransley, Production Supervisor, Glenn Brissett, Printery Manager



Lila Lee, Casual Bindery Assistant



Pat Little, Lithographic Operator

Lila Lee, Casual Bindery Assistant



Sheila White, Casual Bindery Assistant



Janine Gilroy, Lithographic Operator

International collaboration in advanced manufacturing

SOON AFTER returning from a micro-electronics and software mission to Western Europe at the end of May, Professor Chris Cook is north of the Equator once again. This time the Head of the Department of Electrical and Computer Engineering is in Britain taking part in talks between the United Kingdom, Australia and New Zealand. The talks are being held at the Science and Engineering Research Council with the intention of finding means of implementing research collaboration in advanced manufacturing, information, materials and energy technologies.

Members of the Australian Delegation will give presentations on Australian research work in the key technology areas, with Professor Cook describing Australian developments in advanced manufacturing and robotics, including the work done by members of the Wollongong University's Industrial Automation Research Program.

Industrial Automation Research Program - more overseas visits

Dr Fazel Naghdy, a Senior Lecturer in the Department of Electrical and Computer Engineering and a member of the Industrial Automation Research Program, has been given a grant by the Federal Department of Industry, Technology and Commerce to present a paper *Force Sensing Gripper for Soft Fruit* at the International Workshop on Computer Applications in Agriculture to be held at Avignon, France, this month. He will also spend some time at a number of United Kingdom Institutions, including Portsmouth Polytechnic, the University of Loughborough and the SERC Transputer Initiative Directorate, and with the Science and Engineering Council, to explore and develop possibilities of future collaborative research with UK and European organisations.

This visit is part of a series of recent visits by members of the Industrial Auto-

mation Research Program, which included Chris Cook, Dr McKerrow and Mr Zelinsky, both from the Department of Computer Science, intended to build links with overseas research programs.

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

Gowrie Research Scholarships

The Gowrie Scholarship Trust Fund invites applications for Scholarships to undertake a PhD or Masters (Research) in Australian or overseas universities or other tertiary institutions. The Scholarships will be awarded to members of the Forces and /or lineal descendants of such members, have a stipend of \$4,500 a year and are usually for two years.

Applications close with the University on October 19.

Visual Arts/Craft Board

Art in Public Places Program

Grants are available for projects in the following areas: advocacy; documentation, information resource and exchange; training; commissioned works and consultancies.

Applications close with the University on June 13.

Previously advertised Closing Date

Australian Academy of Science International Exchanges	various dates
Federal Republic of Germany Scholarships	June 15
National Asian Languages Scheme	June 15
Asian Studies Postgraduate Scholarship Scheme	June 15
Rothmans Fellowship	June 15
Humanities Travel Grants	June 16
Ramaciotti Grants	June 16
Selby Fellowships	June 16
Boden Research Conferences	June 17
Hoechst Diabetes Research and Development Grants	June 29
Law Foundation of NSW Travelling Fellowships	July 15
Elizabeth White Research Conferences	July 17
Arthritis Foundation of Australia	July 20
Worksafe Australia Research Grants	July 20
Adolf Spivakovsky Scholarship	July 27

Autumn Session Examinations

Examination timetable

The final examination timetable was published on May 28. Copies have been placed on notice boards around the campus.

Examination period

Examinations will be held between Saturday June 16 and Friday June 29.

Examination results

Examination results for autumn session 1990 subjects will be posted to each student's registered term address on Friday July 13. Results for double session subjects may be issued by the relevant academic unit. Students should ensure that the University has their correct address before July 6.

Examination results will also be displayed in Building 22 from noon on Friday July 13.

Outstanding charges

Students who have not paid outstanding charges to the University, such as library and parking fines, student loans

and other charges, by Wednesday July 4 will have their examination results withheld. Where outstanding charges are paid after July 4 results will not be available until after Monday July 16.

Graduation

Graduation ceremonies will be held on October 11 and 12. Students who meet the requirements for a degree/diploma/associate diploma at the end of autumn session will be eligible to graduate at the ceremonies provided they submit an Application for an Academic Award form by June 18.

Students who satisfy the requirements for a degree/diploma/associate diploma at the end of spring session 1990 must submit an Application for an Academic Award form by November 30 if they wish to participate in the May 1991 ceremonies.

K.E. Baumber

Vice-Principal (Administration)

Information concerning examination results will not be given by telephone.

The Women's Room

APPARENTLY there are moves by certain student politicians on campus to annex the Women's Room for their own purposes. Undoubtedly, many men have difficulty in understanding the importance of a place free from potential male harassment.

I have been involved in campaigns against sexual harassment for quite a number of years. Sexual harassment can cause intense stress in those subjected to it and has often been responsible for students quitting their studies and for staff leaving their jobs.

Almost all sexual harassment is by males against females. The Women's Room, among its other benefits, provides a valuable refuge from male harassment of women. The University of Wollongong has made a number of initiatives to oppose sexual harassment. Closing the Women's Room would be a significant retrograde step in this regard.

Dr Brian Martin,
Member, EEO Sexual Harassment Sub-Committee

Sport

University of Wollongong Rugby Union Club

THE rugby club is having one of its best seasons ever. On University Day, May 29, at Sydney University the First team defeated Macquarie University 18-0. Try scorers were Tim Brown, Walter McDonald (2) and John Markwort who also kicked a conversion.

In the Illawarra District Rugby Union Competition the First Grade team is undefeated with wins over Campbelltown (35-16) Shamrocks (16-14), Vikings (14-11) and Shoalhaven (19-7).

Second Grade has won 3 and lost 2, Third Grade has won 3, lost 1 and drawn 1 and the Under 19 grade has won 3 and lost 2.

Any interested players can turn out for training on Tuesday nights (6-8 pm) and Thursday nights (7-9 pm) at University Oval.

University of Wollongong Touch Club

The University Touch Club has one of the largest memberships of all university clubs in its inaugural season. The club has entered five men's teams, three mixed teams and three women's teams into the Wollongong Touch Association Winter Competition.

Additional men and women players are still needed to fill some teams. Anyone interested should attend training on Mondays and Wednesdays at 5.30 pm at the University Oval.

Illawarra Committee for Overseas Students

ICOS has organised two coach trips to Snowy Mountains for overseas students in July.

Trip A: two days snow trip July 11 and 12. The cost \$90 for non-sponsored students (waiting list), \$50 for sponsored students (tickets are non-refundable). Deadline for obtaining ticket June 28.

The cost includes transportation, one night shared accommodation at Berridale Inn, one hot dinner, bed and breakfast.

Trip B: Ski Express (one day) Saturday August 28. The cost: \$30 for non-sponsored students (waiting list), \$15 for sponsored student, \$10 for children aged 4 to 12. The deadline for obtaining tickets July 13. The coach will depart from North

Wollongong at 12.30 am - (0030) Saturday early morning - and will arrive back at the same place at 10.30 pm (2230). Total 22 hours.

Please bring enough warm clothes and your own food. Details and tickets are available at ICOS office in the Union Building next to Careers and Appointment Service on Tuesday, Thursday and Friday from 9.30 am to 2 pm. Phone 27 0158 or ext. 3158.

Kids Computing 1990

School holiday program

Week: July 2 to 6.

Course #KC90/S08 - Introductory Computer Awareness: Apple IIe Computers; July 2 - 6 morning only \$85; 7 to 8 years; class size 12 maximum.

Course #KC90/S09 - Introductory Computer Awareness: Apple IIe Computers; July 2 - 6 afternoon only \$85; 9 to 11 years; class size 12 maximum.

Course #KC90/S10 - Computers and Problem Solving: Apple IIe computers; July 2 - 6 \$110; 11 to 15 years; class size 20 maximum

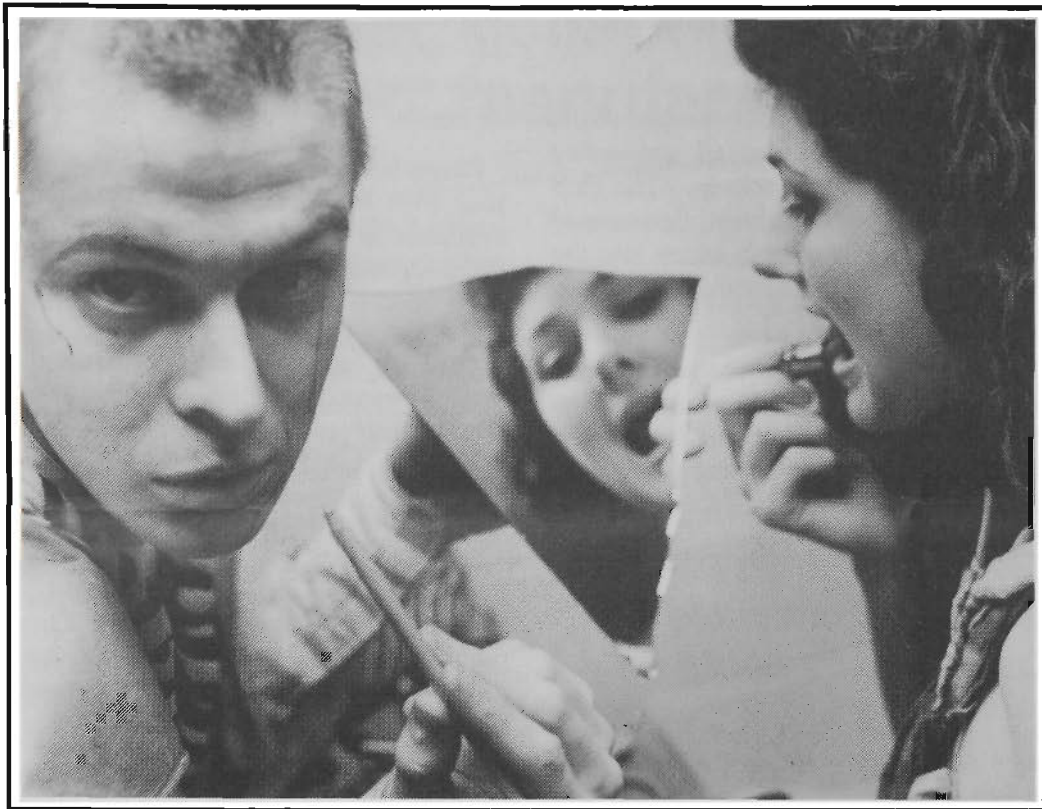
Course #KC90/S11 - Introduction to Computer Applications: IBM Compatible Personal Computers; July 2 - 6; \$120; 12 to 15 years; class size 12 maximum.

Informatics Institute, The Illawarra Technology Centre, 2 Northfields Avenue, Wollongong. Telephone Kylie on (042) 26 8884.

Launch of Employee Assistance Program

The University's Employee Assistance Program, established to provide a confidential counselling service to employees and their families, was announced in Campus News for May 22. At the opening, from left, are Bruce Parry, Industrial Program Services, Ken Baumber, Vice-Principal (Administration), Peter Maywald, Personnel and Industrial Officer (General Staff), Rita Rando, Public Service Association, and representing the Federated Miscellaneous Workers Union Bob Hoole and John Papakosmas





Jenny Stephenson and Scott Gordon making up and making do

These actors are in difficulty – can you help?

THEATRE STRAND of the School of Creative Arts has recently installed dressing room benches in The University Performance Space (the new theatre space behind the Music Auditorium), but so far has no mirrors.

Perhaps you are throwing out an old wardrobe with a full-length mirror on

it? Or have a mirror lying around the garage that you would like to donate for the students to use as a make-up mirror?

If you have any to offer, please contact J.J. Hamilton ext. 3791, or Ian McGrath ext. 3581. They will be happy to collect from home!

What's on

Student exhibition at Union Bistro

A SELECTION of paintings, prints and drawings from the recent exhibition *Big Fish Eat Little Fish - Artwork on the Environment* is now showing at the Union Bistro. The exhibition is the work of First, Second and Third Year students from the School of Creative Arts and will be on show until July 13. Most of the work is for sale and can be viewed during the restaurant opening times of noon to 2 pm Monday to Friday, or by arrangement at the Union office until 5 pm.

The theme of the exhibition is the envi-

ronment and students responded with excellent work, some hopeful, some gloomy.

There are quite a few paintings which use Port Kembla Steelworks as a theme, especially the large colourful paintings of M Sinnot. Others who make use of the presence of a large industrial complex in our immediate environment are J. Wilcock and S. Selden. S. Bessel's delicate and muted symbols create an environment of pessimism as does E. Trunzo interesting combination of paint and language entitled *The Unweeded Garden*.

For those who didn't get to the exhibition while it was showing at the Long Gallery now is a chance to see how a selection of artists studying at the University view the world as we enter the 90s.

Seminars

School of Learning Studies

Gender and Education Unit

Seminars are held in Building 21, room 104 at 4.15 pm on Fridays (unless otherwise indicated)

June 15*, B. Pamphilon, Lecturer, Canberra CAE, MEd Hons student, SLS, 200 years of schooling for adult women: a work in progress report

* Seminars offered jointly by the Gender and Education Unit and the NSW Branch of the Australian and New Zealand History of Education Society.

Tea/coffee provided at all seminars. Enquiries to Associate Professor Noeline Kyle tel. (042) 27 0374 or Ms Jan James tel. (042) 27 0078.

All welcome.

Department of Physics

Thursday June 28 at 12.30 pm in Physics lecture theatre (18.118): Dr M.F. Reid, Department of Physics, University of Hong Kong, *Theoretical models in rare earth spectroscopy*

Abstract: In addition to being technologically significant, the energies and transition intensities of f-f transitions of rare earth ions in solids provide interesting challenges to theoretical models. In recent years extensions to the interaction Hamiltonian have been necessary to explain such effects as electron correlation and anisotropic interactions with the local environment.

Social and Psychological Health Research Program

All seminars are held on Tuesdays in room 19/1056 from 12.30 to 1.30 pm.

June 12: Dennis Calvert, *Public health in the Illawarra*

Advertisements

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