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Editor: George Wilson, Tel. (042) 27 0926
(042) 28 6691

19 September 1989

State Bank buys into NEIS

New partnership enables faster expansion of services to industry

The State Bank of New South Wales and the Illawarra Technology Corporation Limited (ITC), Wollongong University's Technology Development and Transfer Corporation, have announced the sale to the Bank of a majority holding in the Corporation's subsidiary National Engineering Information Services Pty Limited (NEIS). While the bank will take over a majority interest, the University and the two key executives will jointly retain a minority interest.

NEIS, the Australian leader in the rapidly developing field of electronic data interchange (EDI), services almost 200 companies in engineering, manufacturing and distribution industries, assisting them to do paperless electronic trading. NEIS together with BHP Slab and Plate pioneered the introduction of EDI in Australia. NEIS and its joint venture subsidiary, Transport Communication Australia (a joint venture company between NEIS and OTC Limited), have established the nation's largest network of EDI users.

NEIS also provides the National Register of Industrial Capabilities (NRIC) database which provides a 'roadmap' to

the nation's engineering contractors' capabilities and has saved large organisations up to 20 per cent of plant maintenance costs.

The growth of NEIS reflects the respect it has won amongst its major clients which include BHP, Amoco, Metal Manufacturers Group, Dunlop Industrial Sales, Blackwoods, NSW Electricity Commission, Tubemakers and NSW State Rail Authority.

ITC Managing Director John Anderson said 'The Corporation has developed NEIS to the stage where it is the market leader in the new technology, but neither the Corporation nor its parent, Wollongong University, has any venture capital funds to scale up the operations fast enough to meet the rapidly expanding national market. ITC is delighted to have found in the State Bank an excellent partner to take this technology to a mature stage, a partner able to work with our other partner in the venture, OTC, to ensure that outcome. The University is also pleased that the

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MMRI/CAMSE New products, new processes

The University's new Microwave and Materials Research Institute (MMRI) and associated Centre for Advanced Materials and Surface Engineering (CAMSE), launched this month, will seek to provide services to industry which develop new products and processes through applied pilot research, consultancy and training, to meet technology change.



At the launch of MMRI and CAMSE: Professor Tom Bell, of the University of Birmingham University, UK, centre, with Professor Bill Wodrow, Director of CAMSE, and Professor H K Worner, CBE, Director of MMRI

State Bank buys into NEIS

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deal will free up sorely needed resources for other promising ventures being developed within the Corporation.'

Dick Schneller, Managing Director of NEIS, said 'An association with the State Bank is one which will greatly enhance our services to clients and allow expansion. It is 'business as usual' for NEIS except that we plan to expand more quickly on a national and international scale.' NEIS already has branches in Sydney, Newcastle, Melbourne and Brisbane. Its head office will continue to be in Wollongong.

Through its joint venture company Transport Communications Australia (TCA), NEIS is also helping to create one

of the largest EDI projects in the world, called EXIT. This network in nine months has more than 700 Australian exporters connected to the Australian Customs Service and will eventually encompass the whole range of import and export requirements including air, sea and road transport. EXIT forms part of the one stop communication service for the export-import industry — Transcom.

NEIS is one of several companies operating within ITC. Through the scale of its majority shareholding in NEIS the University is achieving one of its missions, to profitably incubate companies from the start-up stage to become major enterprises. 'It is very satisfying to nurture a company from an idea and to help it to become a significant and successful enterprise on a national scale' said Mr Anderson. 'Interaction of a real kind between the University and industry is clearly able to provide major benefits for the nation.'

For further information, contact Dick Schneller, Managing Director, NEIS (042) 268844.

General Notices

Equal opportunity inquiry: submissions invited

The House of Representatives Standing Committee on Legal and Constitutional Affairs is conducting an inquiry into equal opportunity and equal status for Australian women, focussing attention on the Commonwealth's current anti-discrimination and equal opportunity legislation, and on aspects of the Commonwealth's National Agenda program for women. It is envisaged that the major issues of concern to Australian women, including issues of significance to specific groups, will be encompassed in the course of the inquiry.

In conducting the review, the Committee will be particularly interested to assess the extent of progress made to date by Australian women towards the achievement of equality of opportunity in society; to identify and assess the extent to which programs, both current and proposed, have contributed or will contribute to that achievement; to identify and assess the extent to which hidden barriers and indirect discrimination are, or are likely to continue to be, impediments in relation to that goal; and to identify the legislative or other ways of ensuring that, by the year 2000, Australian women will be participating equally, and to the full, in Australian society.

The inquiry will have particular reference to:

- effective participation by women, including young women, in decision making processes;
- the extent to which women receive appropriate recognition for their contribution to society;
- participation by women in the labour force, including the efficacy of equal employment opportunity schemes
- participation by women in leisure and sport; and
- the extent to which young women are encouraged to participate equally in society.

In accordance with the Committee's resolution of appointment, submissions are invited on these or other aspects of the inquiry into equal opportunity and equal status for Australian women.

Submissions should be lodged with the University before October 6.

Ecology Conference will honour pioneer scientist

The 1989 Open Forum of the Ecological Society of Australia will be hosted by the University of Wollongong this month. Although this annual conference is usually held at a large university in a capital city, the current activity in ecology and environmental science at this University made it the successful venue.

The conference will run from September 24 to 27 (during the mid-session break). There will be over 60 papers and posters, presented by ecologists from all over Australia, on: the ecological effects of bushfires, eucalypt dieback, dispersal of seeds by ants, ecological genetics of corals, natural antifouling chemicals, seed dispersal of mangroves, pollination ecology and revegetation of disturbed land.

Fifteen of the presentations will be by staff and post-graduate students either in or associated with the Departments of Biology and Geography at Wollongong University.

One of the highlights of the conference will be the presentation of the Gold Medal of the Ecological Society to Emeritus Professor Charles Birch, for a life-long contribution to Australian ecology. Professor Birch will receive this award at a noon ceremony on Tuesday September 26. Professor Birch is one of the founders of Australian ecology, having a distinguished research career studying the population ecology of insects. He is the co-author, with Emeritus Professor H G Andrewartha, of the book *The Distribution and Abundance of Animals*, which had a great international impact on ecology and achieved recognition for Australia as being in the forefront of ecological research.

For further information about this conference, contact Dr R J Whelan, Biology Department (3442).

Australian Institute of Management

This month's meeting will be held on Wednesday September 20 at Cleo's Function Centre, 16 Burelli Street, Wollongong, at 7.30 am (breakfast, the cost of which will be \$10 a person) followed by address and discussion from 8 to 8.45 am.

Mr Paul Patterson, Senior Lecturer in Marketing at the University of Wollongong, will speak on the topic *Marketing of Professional Services: Why is it Different?*

For further information contact Mrs Jenny Hamilton between 9.45 am and 2.45 pm from Monday to Thursday on 27 0075.

Seminar on Environmental Toxicology

A seminar will be held on Sublethal and Ecosystem-level Impacts of Environmentally Hazardous Chemicals at the Centenary Lecture Theatre, Royal North Shore Hospital, Gore Hill, on Friday October 13 from 9.30 am to 4.30 pm.

The purpose of the seminar, being organised by the Centre for Environmental Toxicology, University of Technology, Sydney, is to bring together chemists, toxicologists, ecologists and environmental scientists to discuss new developments in environmental toxicology in Australia.

The seminar will be divided into four parts: sublethal effects in freshwater; ecosystem-level effects in freshwater; the impact of antifouling paints in coastal waters; and the impact of Sydney's sewage in coastal waters.

The charge, \$25 (\$12.50 for students), for attending the seminar covers morning tea, lunch, afternoon tea and a set of abstracts. For details of registration, which closes on September 29, telephone Julie McEnally or Ian Eskdale on (02) 2658960 or Therese Manning or John Chapman on (02) 4366295.

Australian Association for Logic elects President

At its annual conference in Christchurch last month the Australasian Association for Logic elected Associate Professor Martin Bunder, Dean of the Faculty of Mathematical Sciences, as its President for 1989-90. The 1990 annual conference of the Association will be held in Wollongong.

The association has as members philosophers, mathematicians and computing scientists from Australia and New Zealand with an interest in logic or its applications.

'No Genius Needed to Create Offensive Art'

from John Eveleigh, Senior Lecturer in Painting, Long Gallery Organiser, Adviser to the Vice-Chancellor on purchases and display of the Permanent Collection

Fredrich Hart's article (Sydney Morning Herald 7 September 1989) reprinted from the Washington Post argues cogently for contemporary art 'to have a sense of obligation to the public good and the betterment of man 'whilst clearly

he believes it fails to do so. He speaks of 'the moral condition of art today' as 'shrivelling art', art that fails to enrich society rather, which if it is to be successful must be 'so offensive, so insulting to the public...'

Christopher Allen, in reviewing Peter Fuller's 'theoria', writes, 'Peter Fuller is intensely disliked by this complacent [ART] establishment because he is one of the few voices denouncing their mendacity and mediocrity ...' Fredrich Hart, Christopher Allen and Peter Fuller share a common ground and their value lies, not least, in promoting a public debate in a visual art establishment which is, on occasion, characterised by a self-satisfied complacency.

What Fredrich Hart's article fails to do (perhaps through lack of space) is to give an alternative to his view that 'if the nourishment provided by art continues to be so nauseating, life without art will become, for some, desirable'. One of the most influential apologists for American Modern Art, Clement Greenberg, in an essay '*The Plight of Culture*' wrote: 'The only solution for culture that I can conceive of under these conditions is to shift the centre of gravity away from leisure and place it squarely in the middle of work'.

Here in the University of Wollongong under Professor Ken McKinnon, the Vice-Chancellor, the visual arts are not isolated in a separate elitist gallery space (although the University has a Long Gallery which exhibits a wide range of art to which the public have free access) but are 'squarely in the middle of work'. A rapidly growing Permanent Collection (growing from 75 in 1985 to nearly 400 in 1989) is housed in clusters in public areas of among others, the new central administration block, the Michael Birt Library, the Engineering Department and in Education. In the external environment sculptures, in ever growing numbers, are landscaped into the environment and all the art works on campus are displayed with expertise and sensitivity. A group of former School of Creative Arts university students took an initiative five years ago in leasing and converting a gallery space in the main street of the City which has put on exhibitions ever since.

The most recent development has been an arts interchange with Canadian and Australian artists. An example of artists controlling their own exhibitions and not dependent on the whims and fancies of a professional curator.

These developments clearly make art part and parcel of the daily experience of life. Not isolated from it, nor dependent on periodic infantile posturings to gain public attention. Moreover the demand for art works within the University far exceeds the present supply. That there is a demand (and a vociferous one) indicates that the visual arts on campus at Wollongong University are integrated and appreciated by artists and non artists alike as part of a working environment.

School of Creative Arts

Long Gallery, The University of Wollongong,
Northfields Avenue.

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

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

Exhibition inquiries to John Eveleigh, Gallery Co-ordinator. General inquiries to Jenny Fullerton, Gallery Receptionist. Telephone (042) 27 0996, internal extension 3996.



Open Day entertainment: dancers from the Illawarra Artistic Spanish Society (photo courtesy of the Department of Languages)

Friends of the University

Life after Open Day: Good news and not-so-good

Juliet Richardson, Executive Officer of the Friends, reports

The Friends are just discovering that there is life after Open Day... (Nobody told me that being Secretary of the Open Day Committee was part of the job - a common cry, I know.) There remain a couple of 'follow-ups' from this year's highly successful Open Day.

First the good news: the winner of the Apple Mac Plus Personal Computer has been announced and Martin Pritchard, a Year 12 student from Endeavour High School in Caringbah, is the lucky lad whose completed questionnaire form was the first to be drawn. Arrangements are being made for the presentation of the computer prize to be held at the high school in the near future. Incidentally, nearly 500 forms were returned, which offers us considerable feedback.

Now the not-so-good news: the banner advertising Open Day, which was hung above the amphitheatre stage in the Crown Street Mall prior to August 27, has mysteriously disappeared. Its last known sighting was the day before Open Day, but by the Monday it was no longer there. Various theories have been put forward to explain

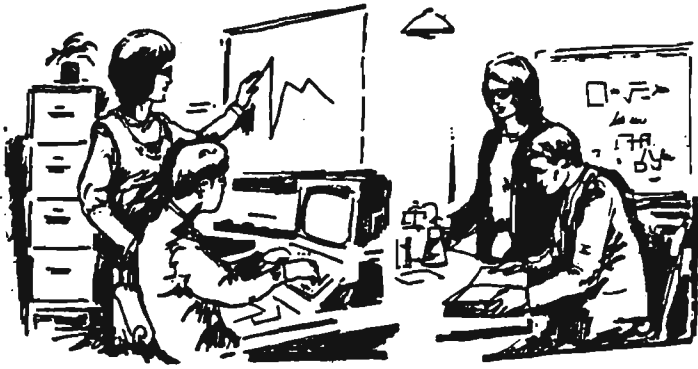
this peculiar occurrence (although these will not be discussed here) and we would ask anyone who may have any knowledge as to its whereabouts to contact the Friends as soon as possible on ext. 3073 or 3249.

The Friends were delighted to be involved in the recent visit to the University by Swami Damodaranada, a Hindu scholar from the Ramakrishna Vedanta Mission in Fiji. The Swami's lecture was both enlightening and entertaining and I think greatly appreciated by the capacity audience.

The Friends are continuing work on several interesting projects (to be updated in future issues) and the Board of Directors as well as the various committees and subcommittees are meeting regularly. Anyone is welcome to drop in and see us - don't forget we're now located in the Administration Building (1st floor, Planning and Marketing Branch) and we can be telephoned on ext. 3073/3249.

Graduation on October 12

The next graduation ceremony has been arranged for 2 pm on Thursday October 12. The ceremony will take place in the Sports Hall and awards will be made to graduands from all faculties by the Chancellor, Mr Justice Hope. If you have any queries regarding the ceremony please ring Trevor Cuthbertson, ext. 3928 or Moira Bowman, ext 3360



Staff Roundup

Further information on any of the following items and nomination forms for Staff Development courses from Shirley Jorgensen, ext 3946.

Basic counselling skills and interview techniques

October 10, one day

A workshop to help improve communication skills and develop competency in face-to-face interpersonal interactions. Learn how to be an active listener, question effectively, confront inconsistencies in other people's behaviour and formulate action plans.

RSVP September 25.

Improving poor performance

October 14, one day

As part of supervisory skills training, a workshop to assist you to develop the skills and procedures necessary to deal with discipline problems in a positive manner.

RSVP October 9.

AVCC Visiting Fellowships

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

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

The fellowship provides an allowance, up to a maximum of \$5,000, to assist with travel and expenses.

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

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 the 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 can 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 programs. All members of general staff are entitled to apply.

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

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-eastern Asian countries in order 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.

Cancer Appeal-A-Thon 90

In 1986-87 the Illawarra community raised \$1.5m through the Cancer Appeal-A-Thon to purchase a Linear Accelerator radiotherapy machine. The government has begun work on a new building to house the equipment at Wollongong Hospital.

Cancer Appeal-A-Thon 90 aims to raise \$650,000 to complete and equip the Illawarra Cancer Care Centre; to provide Radiotherapy, Chemotherapy, high-quality professional services and care for cancer patients in non-clinical surroundings. This money must be raised by 1 June 1990.

Staff of the University can assist by having regular deductions taken from their pay. Please complete the authority below and forward to the salaries office without delay.

Cancer Appeal-A-Thon 90 is a Registered Charity No CC26833 so contributions of \$2 or more (in total) are tax deductible.

Authority for deduction

Employee name.....

Please deduct from my pay each fortnight the amount indicated below as my donation to the Cancer Appeal-A-Thon until 1 June 1990.

Deductions –

please tick as appropriate	50c
	\$1
	\$5
	Other \$

Signature

Research Funds

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

Australia-China Council Grants

The Australian-China Council have invited applications for funding. The basic purpose of the Australia-China Council is to equip Australians to manage better the relationship with China.

Applications may be made with the University any time. The agenda deadline for the next meeting of the Council is October 6.

Australian Special Rural Research Fund Research Grants

The Australian Special Rural Research Council invites applications for assistance from the Special Rural Research Fund.

The purpose of the fund is to provide financial assistance for research and development into aspects of marketing, processing, storage, transport or production, relating directly to rural industries outside the scope of specific rural industry research fund schemes. These currently exist for barley, chicken meat, cotton, dairying, dried fruit, honey, fish, grain legumes, oilseeds, meat and livestock, pigs, poultry, tobacco, wheat, wine grapes and wine, wool, citrus, apples and pears.

Applications close with the University on December 1.

Scholarships, fellowships and awards

CSIRO Institute of Industrial Technologies – PhD Scholarships

Applications are invited from Honours degree students wishing to undertake a PhD in areas directly relevant to the Institute's research programs.

Applications close with the University on November 16.

Spencer Fellowship Program

The Spencer Fellowships are designed to promote scholarship in the United States and abroad on matters relevant to the improvement of education in all its forms. Applications are invited for the Spencer Fellowship Program from students who have or will have received their PhD, EdD or equivalent no earlier than 1 January 1983.

Applications close with the University on December 1.

Canadian Studies – Faculty Enrichment Awards

Applications are invited from academics holding a PhD or its equivalent interested in receiving a Faculty enrichment award to assist in devising and teaching Canadian content

at their employing institution. Applications are invited for Canadian Studies Awards intended to enable the design and teaching of new courses in Canadian studies or to introduce Canadian content into existing courses.

Applications close with the University on January 7.

Previously advertised in Campus News

	Internal Closing Date
CSIRO Postdoctoral Awards	September 29
NASA Research Proposals	October 9
Forestry Research Grants	October 17
Canadian Research Awards	October 14
ATERB P/G Scholarships	October 19
Japan Society Exchange Programme	September 19
Health and Community Services Research Grants	Any time

Canada-Australia Bicentennial Research Award

Applications are invited for a Canada-Australia Bicentennial Research Award. A grant of \$25,000 will be awarded annually for the next five years to an Australian Institution for an original research project focusing on Canada or the Canada-Australia relationship.

Applications close with the University on October 19.

Robert S McNamara Fellowships

The World Bank has invited applications for 10 fellowships to be awarded for a 12-month period for full-time work in the general field of economic development. This year's special emphasis will be in the area of Economics of Gender Issues in Development and Economics of Environmental Sustainability.

Applicants are normally 35 years of age or under and have the equivalent of at least a Master's degree. This Fellowship program is not intended to support work leading to an advanced degree and must be carried out in a Bank country other than the candidate's own.

Applications close with the University on October 17.

1990 Fulbright Awards

The Australian-American Educational Foundation invites applications for Fulbright Awards for study, research and lecturing in the United States for Postdoctoral Fellows, Postgraduate Students and Senior Academics. Applicants must be Australian citizens and resident in Australia at the time of application. Awards are tenable in the United States from 1 July 1990 to 30 June 1991 and successful applicants will be required to return to Australia at the completion of the program.

Applications close with the University on November 16 for Seniors.

Concerts, Exhibitions and Entertainment

Cabaret - A Musical with a Message

The graduating students of the School of Creative Arts are presenting *Cabaret* as their culminating theatre performance at the University Theatre from Wednesday to Saturday September 13 to 23. Jeff Kevin's direction emphasises the work's social and political significance without sacrificing its dramatic and musical appeal.

Kevin stresses that this is the original *Cabaret* script, not the version presented in the much acclaimed Bob Fosse film starring Liza Minelli and Joel Grey, of 1972. The story of *Cabaret*, set in Berlin in the early 1930s during the troubled transition from the Weimar Republic to the Nazi dictatorship, is based on the books by Christopher Isherwood, *Goodbye to Berlin* and *Mr Norris Changes Trains*. Isherwood's books were later adapted for the stage in the John Van Druyten play *I am a Camera*. The book for the *Cabaret* script was written by Bob Masteroff. The music composed by John Lander and lyrics by Fred Ebb have contributed greatly to the popularity of both the play and the film.

Whilst the film focuses on the tribulations of a young Jewish couple confronted with the spectre of anti-semitism, the play concentrates more on the exploits of Herr Schultz and Fraulein Schneider. Fascism as a dramatic theme is inherent in the film but less so in the play.

The School of Creative Arts' presentation of *Cabaret* is particularly appropriate at a time when millions are commemorating the 50th anniversary of the beginning of the Second World War. Jeff Kevin commented on the inexorable rise of the Nazis in Germany by saying that he felt it was dangerous to allow any one political movement with extreme points of view (whether fascist or communist) to gain control.

There has been a definite shift towards conservatism throughout the world since the mid-1970s', Jeff Kevin said.

'Whilst there is nothing wrong with mainstream conservatism, which is usually fairly moderate, the extreme fringes have also been greatly encouraged in recent years, and their dangerous points of view are not at all representative of the democratic traditions of conservatism. The extreme groups of the Far Right, both here and abroad, pose a threat to civil liberties and to social tolerance of race, religion and creed.'

Cabaret centres in the avant-garde Kit-Kat Club, a microcosm of the liberated city that Berlin was until the advent of Nazis. It was a sophisticated and adventurous metropolis which spawned the inventive school of German expressionism in cinema and the arts, and which welcomed individual expressions of morality and sexuality (homosexuality and transvestism, for example), which were purged and suppressed by the Nazis when they gained power. Fascism in Germany spilled over into ordinary, everyday middle-class society, which came into contact with the avant-garde milieu of Berlin. Once caught in the Aryan and anti-Semitic world view of the Third Reich, normal societal relationships were quickly broken down on racial and religious grounds. Anyone who didn't conform with the Aryan ideals of the Nazis was targetted as an enemy of the German people.

Jeff Kevin feels that it is important for the audience to see how *Cabaret* subtly and ironically condemns the rise of Nazism. The juxtaposition of the Jewish Star of David over the Nazi swastika on the show's poster and program literature is controversial symbolism, but it was never intended to be offensive, especially to the memory of the millions of Jewish victims of the Nazi holocaust. The theme of this production upholds freedom of expression on all levels - social, political, sexual - and tolerant co-existence and freedom for all races and religions.

The social and political background to *Cabaret* adds greatly to the impact of its dramatic and musical content. Patrons are advised to book early as seating for each performance is strictly limited to 100. Bookings for *Cabaret* can be made by calling Jenny Stewart (270987) or Sheila Hall (270985). Tickets are \$12.00 and \$6.00 concession (Wednesday and Thursday) and \$15.00 and \$6.00 concession (Friday and Saturday) and party concessions are also available.

Prints, paintings, ceramics

The latest in the sequence of exhibitions organised by the School of Creative Arts will be open to the public until October 8.

Gregor Cullen	Original prints
Ann Ferguson	Original prints
Leonie Molloy	Original prints
Idris Murphy	Paintings/The Ecumbene Lithographs/The Heretic
James Taylor	The Little Parallel Piped/Retrospective/Typographics/and exhibition of books, works and typography
Simon Tognetti	Ceramics

The exhibition combines diversity with a high level of professionalism. Two of the exhibitors - Idris Murphy and James Taylor - have combined their talents in the superb book production, *The Heretic*, which James Taylor designed and printed and Idris Murphy illustrated. This production was awarded third prize in an international competition.

Idris Murphy has been artist in residence in the NSW Gallery in Sydney. She is a regular exhibitor at the Macquarie Gallery.

Gregor Cullen of Redback Graphic fame shares wall space with two print makers, Ann Ferguson and Leonie Molloy. All are accomplished print makers but with markedly different imagery.

Simon Tognetti held his first one-man show in the Long Gallery in 1987. It proved to be phenomenally successful — he sold over 80 per cent of his exhibited works, a record for an SCA exhibition. His recent work includes large decorated porcelain bowls beautifully thrown and decorated. He has studied under Tie Hua — a Chinese Master — and this is evident in much of his recent decoration.

The Art of Lunch

September 21

Geoffrey Burgess, Australia's foremost Baroque oboist, gives a recital of 18th and 20th century music featuring Benjamin Thorn's Segaloc and Three Pieces by John Exton, plus works by Bach and Telemann.

Seminars

Department of Biology

Seminars are held in Lecture Theatre G.19, Building 35 at 12.30 pm.

September 19: Dr Neal Andrew, Department of Zoology and School of Biological Science, University of Sydney, *Contrasting effects of two herbivores on the structure of shallow subtidal systems in NSW.*

September 26: Alison Jonusys, *Denatured carbonic anhydrase: a potential autoantigen recognised by natural autoantibodies.*

October 3: Dr Roger Coles, *Australian bat and bird sonar systems.*

Biomedical Evening Series

Each seminar will be preceded by dinner at the Union Bistro at 6.30 pm. All those interested are welcome to meet the speaker at the Bistro. Please contact the Convener, Dr E. J. Steele (042) 27 0434, so that appropriate table bookings can be made. Seminars begin at 8 pm in the Biology Meeting Room, Building 35.

Wednesday October 11: Sponsored by Flow Laboratories. Dr John McAvoy, Department of Histology and Embryology, University of Sydney, *Control mechanisms of eye lens development.*

Department of Chemistry

Seminars are held on Thursdays at 11.30 am in Room 18.206. Inquiries to John Carver, ext 3340.

September 21: Dr Helmut Hugel, Research School of Chemistry, ANU, *Organotitanium Chemistry.*

October 12: Dr Paul Haddad, Department of Chemistry, University of NSW, *Application of ion chromatography to process control in the gold mining industry.*

Department of Computing Science

Visitors parking on the University grounds will be charged a fee of \$1. This fee will be reimbursed by the Department.

Alex Zelinsky, Convener

Friday September 22 at 1.30 pm in room 15.206A

Mr Alex Zelinsky, Lecturer, Department of Computing Science, The University of Wollongong, *Robot Navigation with Exploration.*

Department of Economics

Seminars are held in room 19.2085. Information from Dennis O'Brien, (042) 270 654 (ext. 3654) or in room 19.2076.

Wednesday September 20 at 12.30 pm, Amelia Preece, Visiting Lecturer, Economics Department, University of Queensland, *Time enough to shop.*

Wednesday September 27 at 12.30 pm, Ernestine Gross, Senior Lecturer, School of Banking and Finance, University of NSW, *Multinational producers in an Arrow-Debrue type general equilibrium model*

Tuesday October 10 at 1.30 pm, Peter Whiteford, Social Welfare Research Centre, University of NSW, *Poverty measurements and equivalence scales.*

School of Learning Studies

For your diary: seminars will be held on September 20, October 13, 18 and 25. Bring your own lunch, coffee and tea will be provided. Inquiries to Bill Winsler, School of Learning Studies, ext 3963.

Wednesday September 20 in Building 21.104: Associate Professor Rehana Ghadially, Indian Institute of Technology, Bombay, *Muslim women and modern education.*

Department of Management

Seminars are held on Thursdays at 12.30 pm in Room 19.1003.

September 28: Jacqui Jennings, *Engineers into Managers: a study of career transitions in an Australian Company*

October 5: Michael Zanko, *Organisational Commitment to Employee Rehabilitation*

October 12: R Clarke, *Task Allocation: Implications for System Design.*

Department of Mathematics

Thursday September 21 at 1.30 pm, in Room 15.204 (Austin Keane Building): Dr Ross S Sparks, Department of Mathematics, The University of Wollongong, *Graphical Display of Data Matrices.*

Department of Materials Engineering

All Wednesday seminars 4.30 to 5.30 pm, Room 1.134.

Wednesday October 11: Associate Professor D. Dunne, *High Productivity Welding Project.*

New Literatures Research Centre

Seminars will take place on Fridays at 2.30 pm in the English Department (Building 19, Room 1095). For further information please contact Paul Sharrad (042) 27 0705 or Shane Donnelly (02) 525 0186.

September 29: Rosemary Colmer. English, Macquarie University, *Polygamy in African Women's Fiction: Buchi Emecheta and Mariana Ba.*

Department of Physics

Thursday September 21 at 12.30 pm in the Physics Lecture Theatre (18.118): Dr W J Zealey, Department of Physics, University of Wollongong, *An Infrared View of Star Formation*, sponsored by the Department of Physics and the Australian Institute of Physics (NSW branch).

Department of Psychology

Seminars are held in 19.1056 on Tuesdays between 12.30 and 1.30 pm. For further information contact Sachiko Kinoshita, ext. 3741.

September 19: Dr Saroja Srinivasen, Department of Psychology, The University of Wollongong, *Social anxiety - types and treatments.*

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WANTED

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