Building for the future

University of Wollongong Library

The two most popular buildings at the University of Wollongong are the Union, where food and other services are available, and the Michael Birt Library. Today, progressive libraries such as The University of Wollongong Library are more than just storehouses of books. They are gateways to information in many different formats and in many locations.

To cope with the growth in student numbers and the explosion in information, the University has just completed an extension to the University Library building. The Library now has space to house over one million volumes as well as provide access to information in formats such as videos, microfilm and compact discs. The building has been designed to take advantage of new technology and already more than 50 personal computers have been installed for use by students.

University Librarian John Shipp says that while the Library may look little different from any other library, it has been designed to take advantage of developments in computer technology and this will enable the University to maintain its reputation as a progressive and innovative institution.

Library staff have been enthusiastic users of computers for more than a decade. The University of Wollongong Library is one of the few Australian research libraries to have its entire collection catalogued on a computer. From terminals all over the University, staff and students can find whether a book is in the Library. The catalogue can also be accessed using a modem and a telephone line from anywhere in the world.

The University Library is the largest library in NSW south of Sydney. With more than half a million books, records, films and other information sources, the Library provides information primarily for University staff and students. Members of the community are able to use the collection but not borrow. With the explosion in information over the past 20 years, the Library has not been able to acquire all the books required but has

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Landscaping do it again....

The landscaping section of the University has once again won the precinct garden section award in the City of Wollongong Garden Competition.

The award was presented to Mr Martin Bramston, Landscape Supervisor, by the Lord Mayor, Mr Frank Arkell, at a ceremony on Saturday October 15.


General Notices

Bert Halpern Lecture

The Bert Halpern Lecture 1988, organised by the Department of Chemistry, will be held on Thursday October 20. The speaker will be Professor Alan Sargson, of the Research School of Chemistry of the Australian National University. His lecture is entitled Bert Halpern — His Role in International and National Chemistry and Society.

The Bert Halpern Lecture has been established as a public lecture to be presented annually at the University of Wollongong by a distinguished visiting scientist on a subject in chemistry or biochemistry. It honours the memory of Bert Halpern, the Professor of Chemistry at the University of Wollongong from 1970 to 1980. Professor Halpern's pioneering studies in amino acid, peptide and protein chemistry impacted across the fields of medicine, biochemistry, chemistry and geochemistry. Among his notable achievements was the development of novel techniques for the diagnosis and study of metabolic disorders and genetic defects. In recognition of his contributions to Science, he was elected as a Fellow of the Australian Academy of Science in 1978.

The lecture will be held in the Conference Room, Illawarra Technology Centre, University of Wollongong. It will begin at 5.30 pm.

In addition to presenting the public lecture, Professor Sargson will spend Friday October 21 in the Department of Chemistry and hold discussions with staff and research students.

Building for the future from page 1

concentrated on developing a basic collection suited to the needs of the University. Books which are not held are borrowed from other libraries either in Australia or overseas.

Increasingly, people are seeking information on demand to apply to immediate problems. The University Library has acquired access to thousands of databases throughout the world. While the cost of using these data bases can be as high as $300 a minute, the information is the most current available. As well as using these online services, the Library purchases data bases on compact disc. Older references are searched on the compact disc in the library and then more recent information is sought from an on-line system. The result is more efficient access to information.

The library of the future will not be just books but an information system linked electronically to other libraries and data bases. Automation, however, will not replace people. As the Library uses more computers, staff concentrate on helping people find information.

At the moment, Library staff tend to work on a one-to-one basis with inquiries and only a small proportion of people actually ask the questions they need answering. In the future, people may be more willing to ask questions and to experiment if they can do so through a computer.

To ensure that staff and students have the skills necessary to use computers, the University has embarked on a computer literacy program. The more automated a library becomes, the more necessary it is to increase the human presence. The challenge for the future is to harness technology into the service of people, and to create a legacy not of data bases, but of ideas. The University of Wollongong Library is poised to be a part of this endeavour.

The Library extension was formally opened last Thursday, October 13, by Dr G. Ramsey, Interim Chairman of the Higher Education Council of the National Board of Employment, Education and Training.

Library Introduces Performance Management

In response to the recent White Paper on higher education, the Michael Birt Library has introduced a performance-management program for all staff. Implementation of the program was one of the major components of the Library's strategic plan for 1988.

The program was designed within the framework of the University's staff-development activities. As the most effective means of improving performance, it emphasises communication, rather than heavily structured bureaucratic mechanisms.

The overall aim of the program is to provide staff and supervisors with opportunities to discuss matters which affect the operation of the Library. In the short term, the program will concentrate on updating staff position descriptions and identifying ways of improving services.

All the documentation used for the program was prepared by Felicity McGregor, who also co-ordinated the implementation activities. Supervisory staff participated in a series of skill-development sessions designed in conjunction with the Manager, Personnel Services, and the EEO Co-ordinator. Other staff were introduced to the program by means of small group sessions with management consultant, Brian Palfrey.

A veteran of similar consultancies at other Australian universities, Mr Palfrey commented on the enthusiasm of Library staff and the quality of preparation. The program should prove an interesting pilot study which may serve as a model for similar performance management programs elsewhere on campus.
Mr David Turner (left), Chief of the Division for Shipping, Ports and Inland Waterways in UN/ESCAP, Bangkok, and Dr Ross Robinson, Director of the Centre for Transport Policy Analysis, exchange some light-hearted comment in the UN Building in Bangkok

Centre’s United Nations Connection

The Centre for Transport Policy Analysis has added its first major international contract to its research credits.

In August the Centre was invited to prepare, for the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) in Bangkok, a 'review and analysis of current developments in the maritime industry and their impact, in particular, on the ESCAP region over the past two years'. The review was to provide a backdrop for one of ESCAP's most important studies — the so-called Regional Maritime Development Strategy Study — and for forthcoming meetings of chief executives of national shipowners' associations, port authorities, national shippers' organisations and national freight forwarders associations.

Dr Ross Robinson, Associate Professor and Director of the Centre, spent much of August and part of September in Bangkok and, with the assistance of Dr Keith Trace, a Senior Research Associate of the Centre at Monash University and a colleague in numerous studies, including the earlier ASEAN/Australia Joint Shipping Project, completed much of the required research.

In fact, two major papers were prepared — one, a shorter version of the second which defines key maritime development issues will be presented at the December meeting of the UN/ESCAP Committee on Shipping. The second paper, regarded as a major background paper for the Maritime Study and one which is expected to point the way for significant further work by the Division for Shipping, Ports and Inland Waterways and ESCAP countries, will be presented to the Second Expert Group Meeting on the Regional Maritime Development Strategy Study in early 1989. Dr Robinson, during his stay in ESCAP, presented a preliminary paper to the First Expert Group Meeting. The group, comprising senior representatives of some ESCAP member countries and technical specialists, had the responsibility of overseeing progress of the maritime study.

Several projects in the work of the Division for Shipping, Ports and Inland Waterways are of special interest to the Centre, which has already carried out similar projects in the Australian context. Currently the Australian Government is taking an active interest in ESCAP's maritime studies and the Centre looks forward to a continuing and close working relationship.

Supermap in the Library

A seminar was conducted by Australian Bureau of Statistics staff in the Library on September 30. It was attended by members of the Economics, Geography, Management, Industrial and Administrative Studies and Accountancy Departments, as well as the Library staff.

The session started with a video on the Census detailing the uses for which the data is collected. Stephen Butcher then gave an overview of the Census, explaining how the information was collected and then organised into a complex system of tables. He illustrated his talk with examples of the information that could be retrieved, based on age, marital status, religion, and so on.

Supermap was demonstrated by Annette Jones who concentrated on the types of queries that could be relevant to research in the Illawarra, e.g., residential areas of single people or location of Australian Aborigines.

Supermap is available for use at the Information Desk and appointments for demonstrations can be made with Library staff.
Wollongong students and ex-students creating waves

Six artists who graduated in 1986 — all female — now share a large painting studio off Crown Street. This allows each artist ample space — and, because the rent is shared — at low cost. Edward Arrowsmith (who graduated in the same year) has his ceramic studio close by. He is now an enrolled postgraduate student, and is active as an artist, part-time teacher and exhibitor.

Merilee Swan and Judy Weekes (graduating in 1987) shared their second exhibition at the Holdsworth Contemporary in Sydney earlier this year, and Judy Weekes followed this with her special project exhibition of monotypes at the Wollongong City Gallery — monotypes which exploited this medium superbly.

Sarah Rose Jones (who graduated in 1987) held a one-person exhibition at Art Arena earlier in September. Work was based on Aboriginal myths.

Some chosen BCA graduates over the past two years have completed (or are about to complete) a teacher training year which, coupled with their BAC, gives them full teaching status. One such student, Gabriella Frutos (graduating in 1986), followed this by completing her teaching certificate. She is now completing a large mosaic mural to be sited in the Crown Street Mall. When completed this will be part of the University of Wollongong’s Bicentennial Collection.

Several Visual Arts staff and students are exhibiting in the ‘Illawarra Artist’ exhibition previewed on October 7. Anthony Frost (third year painter) helped Richard Hook with the set designs of The Piper’s Promise — an opera composed by Andy Ford, part-time music lecturer in the School of Creative Arts. Anthony also designed and printed the poster for the opera.

Several SCA students have been formally invited to exhibit at the Galaxy Gallery in Sydney. These include painters Paul Ryan (second year), Mandy (third year), Meg, Greg and Paul later this year. As well as having work already shown informally Paul Ryan has also been making wood carvings which have, I understand, been selling well.

Noted ex-student of the SCA, Simon Tognetti (friend of Paul Ryan), has just built his own kiln in Keiraville. He had his first one-man-show in the Long Gallery early last year (and sold 80 per cent of his exhibited work). He too has work which is selling well in the Galaxy Gallery.

There are revised plans to set up a small permanent sales area in the Long Gallery, to be open to undergraduates and graduates to show ceramics, prints, woodwork, jewellery, textiles and small paintings. There is at present nowhere in Wollongong which has this range of work open to professional artists and available to the public throughout the week. But it can be successful only if artists support it.

The Long Gallery has sold work totalling in value $59,192.95 since 1985. Given a receptionist in the Gallery all the week (who would still do general typing for the School as a whole), there is no reason why art sales should not increase.

Campus News readers might also care to note that the University’s Permanent Collection, which in 1985 comprised 75 works (collected over 26 years), now comprises some 307 works, including paintings, prints, sculpture, ceramics and textiles.

The collection is widely spread throughout the University but there are significant clusters of work in the Administration and Engineering Buildings.

The first purchase of an Aboriginal contemporary tribal painting for the collection will shortly be hung in the Student Inquiries area of the Administration block.

The Permanent Collection includes a high percentage of works created by present and ex-students of the School as well as representative works (purchased or on loan) by all School of Creative Arts staff, artists living in Queensland, Victoria, New South Wales and Tasmania.

The Librarian, John Shipp, has requested work for the new library extension, as has Noel Diffy, Manager of the Union, who wishes to put students’ work up for sale.

Making art part of the permanent environment is as important as professional actors playing in public performances and musicians giving concerts or writers publishing books. Ephemeran exhibitions are extremely valuable but are rather isolationist; as when infectious patients are confined in hospital isolation words and friends and visitors peer at them through plate glass.

Throughout history tribes and civilisations have made art part and parcel of daily living and ritual.

I cannot but believe our society is enriched by good art in external and internal environments — part of communal life.

Over the past 20 years art patronage in Australia has increased enormously. The establishment of new public galleries and many businesses combine to engender patronage. Artists work with vigour and imagination to meet these initiatives, and as with those SCA students who established Art Arena as a gallery space in 1984 and have maintained it ever since, take active initiatives of their own. And the mural of Wollongong as part of an industrial public exhibit executed by SCA students earlier this year proved to be a valuable exercise and a response to the world of commerce and industry.

John Eveleigh — Senior Lecturer in Fine Art, Long Gallery Co-ordinator and Advisor on aspects of the University’s Permanent Collection.

Visual Art News — from the SCA

Human Experimentation Ethics

‘Can ethics be done by committee?’

A conference on the Role, Methods and Nature of Institutional Ethics Committees will be held on Tuesday November 15 from 9 am until 5 pm, at Royal Australasian College of Surgeons, Spring Street, Melbourne.

For a brochure giving details, contact Helen Robinson on ext 3360.

SCAW Concert Cancelled

For various reasons (not the least of them financial) the final SCAW concert for the year (November 21) has been cancelled.

Instead there will be a workshop performance of new student works on the same day at 8 pm. Admission $2, students free.
Research Funds

Australian Special Rural Research Council
The Australian Special Rural Research Council invites applications for its postgraduate scholarships. They are offered to stimulate research in horticulture, forestry, cereal crops, grain legumes, deer, goats, infant industries and projects of multi-industry importance or national interest.

Applications close with the University October 21.

Rolls-Royce-Qantas Award for Engineering Excellence
The Warren Centre for Advanced Engineering within the University of Sydney, Rolls-Royce plc. and Qantas Airways Limited are pleased to announce the 1989 Award for Engineering Excellence in Manufacturing and Related Fields.

The Warren Centre Medal and the Rolls-Royce-Qantas Award of $20,000 will be presented to the person judged to have done the most in the previous year to exemplify engineering excellence in Australia in the manufacturing and related fields.

Applications close with the University January 17.

Frank Knox Memorial Fellowships
Applications are invited for the Frank Knox Memorial Fellowships, to enable two students from Australia to spend the 1989-90 academic year at Harvard University. The value of the Fellowship is $US7,000 per annum.

Applications close with the University on October 24.

Rebecca L. Cooper Medical Research Foundation Grants
Applications are invited for grants available in 1989 for research in the fields of Diabetics, Arthritis and Schizophrenia.

Applications close with the University on October 28.

Previously Reported in Campus News

School of Creative Arts – Diary of Events

October
Thursday 20
The Art of Lunch. Music Auditorium. MCA candidate April Sampson-Kelly presents a piano recital which includes music by Debussy. 12.35 pm to 1.25 pm.

Friday 21

Thursday 27
The Art of Lunch. Music Auditorium. MCA candidate Emma Knott (flute) presents a recital including music by Prokofiev and Bach. She will be accompanied by David Vance. 12.35 pm to 1.25 pm.

Friday 28
Graduation play by Final Year Theatre students, Bridge Theatre, Coniston, 8.15 pm.

November
Wednesday 2
Graduation play by Final Year Theatre students, Bridge Theatre, Coniston, 8.15 pm.
Women are doing it

Thanks to Equal Opportunity and Sex Discrimination legislation, women are stretching their wings and seeking work in fields previously denied them. Not only are they finding job satisfaction and improved self esteem, but they are leaving their marks in terms of shattering some of the old sex-role stereotypes.

Some notable achievements we've run across in the past few weeks include:

- A 19-year-old woman won the Victorian Brick Manufacturer's Association Bricklaying Apprentice of the Year award.
- Five Albany women have become first female prison officers in Western Australia to work in an all-male maximum security jail.
- The Queen's medal, an award made to the Royal Australian Army graduate who gets the highest aggregate mark in the First and Second Class was won by a woman.
- The Emerald Ambulance officers award of Fire Fighters of the Year went to a woman.

If you want to read more about women who have achieved in non-traditional job areas, learn about their trials and tribulations, their challenges and successes, and the people who supported and encouraged them, the EEO Unit can lend you a copy of *Girls Can Do It*, a collection of interviews with some of the women who 'have been there and done that'. It's a very useful little book for anyone considering career options.

Peg MacLeod,
EEO Co-ordinator

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**Seminars**

**Department of Philosophy**

Department of Philosophy Seminar Room, North Wing, Social Science Building, The University of Wollongong, Northfields Avenue, Wollongong. (Building 19 Room 1034).

Date: Friday, October 21, 2.30 pm

Topic: *Decision Theory and Folk Psychology.*

Speaker: Professor Philip Pettit, Australian National University.

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**School of Learning Studies Staff and Postgraduate Series**

All seminars in Room 21.104 (Meeting Room), 12.30–1.30 pm

October 26

Speaker: Michael Stone, School of Learning Studies


A weekend colloquium for Masters (Hons) and Doctoral students will be arranged for November 5 and 6 (still to be confirmed).

Further information contact Bill Winser, School of Learning Studies, ext 3963.

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**Geography Department Student Series**

Room G027, 12.30 to 1.30 pm each Wednesday.

October 19

Speaker: Jonathan Nott

Title: *Fluvial landscape evaluation in the Shoalhaven Basin* (PhD progress report).

November 2

Speaker: Ian McMaugh

Title: *Landslip associated with the 1984 Dapto flood* (MSc progress report)

Date to be determined

Speaker: Jerry Maroulis

Title: *Fluvial sediment transport in the Channel Country of Queensland; a flume study* (MSc progress report).

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**Geography Department Staff and Visitors' Series**

Room G027, 12.30 to 1.30 pm each Thursday.

October 20

Speaker: Dr Collin Murray-Wallace, Sydney University.

Title: *Amino acid racemization dating and its application in the Australian Quaternary.*

October 27

Speaker: Dr Janet Hooke, Portsmouth Polytechnic

Title: *Causes and nature of river channel adjustment.*

November 3

Speaker: Mr Peter Nielsen (DPW Sydney)

Title: *Time series measurements of watertable fluctuations through a foredune at Dee Why.*
Department of Computing Science
Date: Friday October 21, 12.30 pm.
Venue: Room 15.206.
Topic: Parallel Algorithms and Architectures for Manipulator Kinematics
Speaker: Mr Gitendra Proctor, (Postgraduate Student)
Department of Computing Science, The University of Wollongong.
Abstract
The large volume of information processing required to control a manipulator arm as it follows a trajectory in real-time requires the use of multiprocessors. As most of the current robot controllers are built around monoprocesors, they include kinematic models of position and possibly velocity, but not dynamics. To completely model a robot, the controller must include models of position, velocity, acceleration, statics and dynamics. The computation of these are time consuming.

We have started our research by investigating parallel algorithms and architectures for the computation of direct and inverse kinematics of manipulator position. By its construction, a manipulator is a sequence of serial linkages, which easily map into a serial computation model. To develop effective parallel models, we have to look for the natural parallelism in the manipulator and reformulate our manipulator models to map this parallelism. We are investigating several such models.

We have chosen to implement the algorithms in the programming language Occam™ which runs on a network of transputers. This language is based on the Communicating Sequential Process model of parallelism, developed by Tony Hoare, and both hardware and software are readily available. This model of parallelism is conceptually closer to the design of parallel electronic circuits than to sequential computer programming. Our initial implementation is in a version of Occam running on an IBM personal computer.

Visitors parking on University grounds will be charged a parking fee of $1.00. This fee will be reimbursed by the department.

Alex Zelinsky, Convenor.

Department of Metallurgy and Materials Engineering
Wednesdays 4.30 to 5.30 pm, Building 1, Room 134.
Date: October 19
Speaker: Chris Moore, BHP Coated Products.
Title: Trends in the Stainless Steel Industry in Australia.
Date: October 26.
Speaker: Ross Nuske, BHP Coated Products.
Title: Fishscale Defect in Enamelled Concast Steels.

Marketing Skills for Entrepreneurs
A one-day seminar on professional selling skills has been arranged for staff from Centres and other organisations on campus to acquire skills to market effectively their expertise in an increasingly competitive environment.

Organised by the ITC, TASC and Uniadvice the program will include a series of videos on 'Why People Buy', 'Planning for Success' and 'Basic Selling Skills' as well as information from Richard Denney, one of the UK's most sought-after sales trainers. There will be opportunity for discussion and feedback.

Department of Philosophy
Department of Philosophy Seminar Room, North Wing, Social Sciences Building, The University of Wollongong, Northfields Avenue, Wollongong (Building 19, Room 1034).
Friday, October 28, 2.30 pm
Topic: Land Rights.
Speaker: Janna Thompson, Australian National University.

Department of Accountancy and Legal Studies
The following seminar will be held in the Social Science Building, Room 2001 (Accountancy and Legal Studies Department).
Friday, October 21 at 11 am.
Topic: Legal and Environmental Aspects of Offshore Oil Production.
Speaker: Mr J. Jackson
All welcome. Any inquiries contact Hai Yap Teoh, Seminar Convenor, telephone 27 0625.

Department of Biology Seminar Series Session II
The Department of Biology seminars are held at The University of Wollongong on Wednesdays at 3.30 pm in Room 19, Building 35.
October 19
To be announced.
October 26
Speaker: Mr Douglas Benson, Senior Botanist-ecologist, Royal Botanic Gardens, Sydney.
Title: The vegetation of Sydney past and present.
November 2
Speaker: Mr Troy Collie, University of Newcastle.
Title: The ecology of the evening butterfly.

Advertisements

Old Cameras Wanted
Anything related to the history of photography. Please contact Peter Pavlik from Chemistry on 27 0513 or privately on 84 1247.

Accommodation available
From beginning of January for male or female to share large, three bedroom house near the University. $80 per week. contact Paul on ext. 3402.

For Sale by Tender
The University has one Thorpe Counter Marche Loom eight shafts, 42 inch weaving width, available for sale by tender. No guarantee is offered. Terms of sale are cash or bank cheque. For further information, contact Liz Jeneid (042) 27 0048.

Tenders close October 31. Tenders should be placed in a sealed envelope addressed to: Supply Office, The University of Wollongong, PO Box 1144, Wollongong NSW 2500. And noted on the outside front 'Tender for Loom'.

Car needed
Motor vehicle wanted for hire by visiting professor for approximately two months from mid-October. Telephone ext 3012, or 28 9475 (home).

To Let
Female or male to share three-bedroom unit, very near Towradgi Beach, with 34 year old. All amenities. $50 per week. Phone Paul ext 3355 day or 84 6717 evening.
The University of Wollongong in recent times has been one of the fastest growing universities in Australia. Today it is in the process of strengthening its science and engineering base. The University has an enviable record in recognizing the demand for and advantages of forming close links with business and industry, particularly in the areas of technological research and development.

The proposed Complex is only a 1-hour drive from Sydney airport and within walking distance of the electric train line to Sydney. There is a local satellite airport nearby, helicopter facilities in Wollongong, and a large port facility at Port Kembla. The complex is adjacent to the beach and an expanding major sporting and recreation complex. It is 5 km from the main University campus and minutes from Wollongong CBD.

If you are considering setting up or expanding a business base or contemplating undertaking research or development to place your company at the front line of technological change, there is no better way than becoming part of the University of Wollongong scientific community, while at the same time maintaining your independence and confidentiality of operation.

There is so much to gain – access to a multi-million dollar research and training establishment, financial, legal and management advisory services, a purpose-built complex and a location that offers a superb lifestyle and affordable housing which will assist you to attract staff of the highest calibre.

THE LOCATION

The University of Wollongong in recent times has been one of the fastest growing universities in Australia. Today it is in the process of strengthening its science and engineering base. The University has an enviable record in recognizing the demand for and advantages of forming close links with business and industry, particularly in the areas of technological research and development.

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THE COMPLEX

The development at the University's Campus East site is Stage II of the Business and Technology Complex. The Illawarra Technology Centre which includes the Automation and Engineering Applications Centre was established in 1984.

An integrated facility of 26,000 m² is now ready for construction. It includes an international standard hotel and convention centre, prestige office, workshop and laboratory space, some academic facilities and residential accommodation. A School of Tourism will be established as part of the complex.

COMMUNICATIONS

Telecommunications facilities are provided. Direct dialling with the normal array of telex, facsimile and conference facilities exist to all parts of the globe. The University has a high level of fully integrated computer facilities.

FINANCE

The University will manage the Complex through a University Corporation with representatives of other interests on the Board of Directors. Parcels of land will be leased into company or joint venture structures to allow a variety of means of financing and constructing buildings.

FOR FURTHER INFORMATION please contact:

J.W. Langridge, Business Manager
The University of Wollongong
P.O. Box 1144
Wollongong N.S.W. 2500
Telephone: (042) 270 915
Telex: AA 29022
Facsimile: (042) 271 771
Cable: UNIOFWCA.

The University of Wollongong has been running this advertisement in The Australian, The Australian Financial Review and The Sydney Morning Herald. The aim is to seek expressions of interest in the proposed development at Campus East.