

CAMPUS NEWS

Wollongong's Multicultural Studies Centre to coordinate UNESCO program

The Centre for Multicultural Studies at the University of Wollongong has been selected by UNESCO's Management of Social Transformations Program (MOST) as the overall coordinator of a major research program concerned with the long-term role of migration and increased ethno-cultural diversity in the societies of the Asia-Pacific Region.

The Centre will also have special

responsibility for the Pacific sub-region.

Chulalongkorn University in Thailand will act as subregional coordinator for South-East Asia, and there will be a subregional coordinator (yet to be announced) for East and North Asia.

Mr Michael Morrissey, from the Centre for Multicultural Studies, said that he felt the Centre had been se-

lected because of the high profile it had achieved through its work in the Asia-Pacific region and the network it had established in the region.

'We were also pro-active and enthusiastic about this program and put our case confidently to UNESCO,' he said.

The MOST Secretariat is cooperating with research institutes in 13 countries of East Asia, South-East Asia and the Pacific to build an Asia Pacific Migration Research Network (APMRN) designed to enhance national research capabilities, carry out comparative social-scientific studies and provide information and options for policy makers.

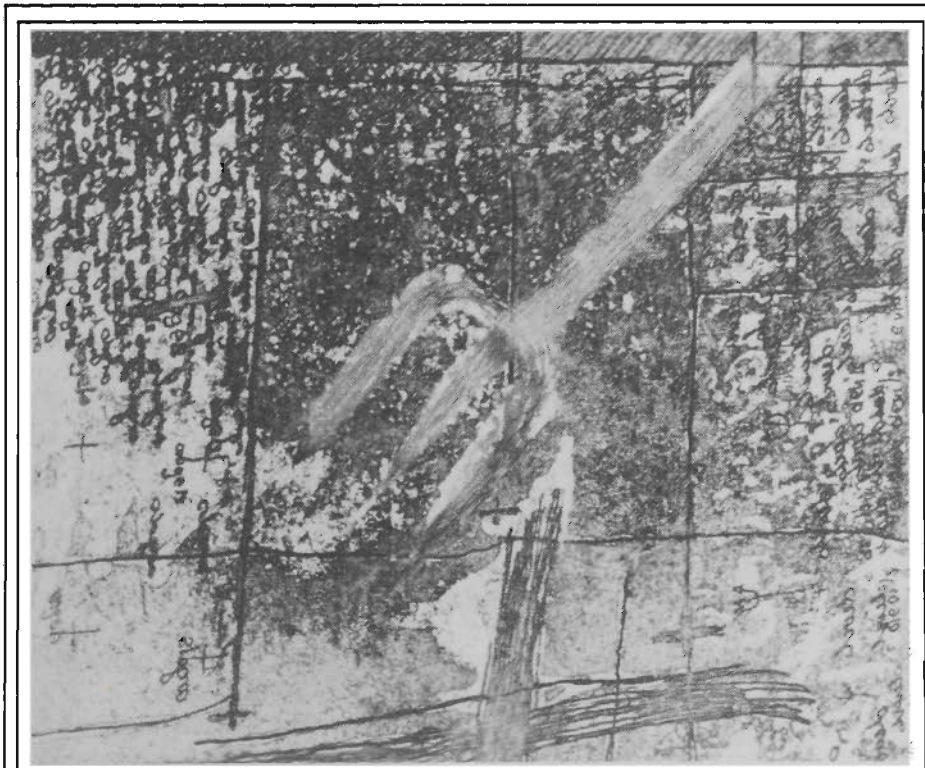
The last few decades have seen a massive transformation of the Asian Region.

One of the most significant aspects has been a substantial increase in international migration of all kinds, including labour migration, movements of highly-skilled personnel, family reunion, permanent settlement migration and involuntary movements caused by political or environmental factors.

Most research and policy debates in the Asian region have emphasised economic and administrative issues with little consideration of long-term effects for both the sending and receiving societies.

Yet, in most Asia-Pacific countries, migration and ethno-cultural diversity seem likely to be major factors in social, cultural and political change.

The aim of the APMRN is to develop awareness of such developments, and to provide a sound analytical basis for policy-making.



Lillian's Calleja's colour etching, *Celestial Being and the Tempter*, 1994

Boston, USA, collaboration in printmaking

In 1994 the Printmaking Department of the Faculty of Creative Arts, participated in the 1994-95 Five School Exchange Port-

Continued page two

**Exhibition
'Angels & Devils'
Five School Exchange Portfolio,
Long Gallery, F.C.A.
(4-28 May, 1995)**

From page one

folio, convened by The School of the Museum of Fine Arts, Boston.

Participating institutions included:-

- The School of the Museum of Fine Arts, Boston;
- The University of Florida, Gainesville;
- West Virginia University;
- Indiana University - Purdue University at Indianapolis Herron School of Art;
- The Printmaking Department of the Faculty of Creative Arts, University of Wollongong.

Five individuals from each institution contributed a print work to this exciting initiative, and were asked to address the theme 'Angels and Devils' in as broad and imaginative a way

Boston, USA, collaboration in printmaking

possible, using any medium of their choice.

The resulting portfolio was strong in the representation of both the etching and lithographic techniques, and many of the prints demonstrate a coupling of technical sophistication with peculiarly whimsical responses to the theme.

Participants from the University of Wollongong included Lillian Calleja (200 Major), Lucia Parrella (300 Major), Ron Stewart (300 IDP), Ken Orchard (Head of Printmaking) and Leonie Molloy (Lecturer).

Each in turn received a complete boxed set of prints, containing one print from each of the other 24 contributors.

These prints are now on display in the Long Gallery until 28 May.

The portfolio was conceived and co-ordinated by Craig Dongoski of The School of the Museum of Fine Arts, Boston, and was completed in the winter of 1994. This collaboration follows and builds on group projects and portfolios initiated and produced annually by students of the Printmaking Department at the University of Wollongong since 1992.

It is hoped that collaborations and exchanges of this type will continue between The School of the Museum of Fine Arts, Boston, and the Printmaking Department of the Faculty of Creative Arts.

Environmental management and economic development on atolls

The Director of the Environment Research Institute (ERI), Professor John Morrison, was involved recently in a study in Kiribati on the impact of environmental management on economic development.

This was part of an AusAID study of the economic situation generally in Kiribati which consists of 33 small isolated islands (almost all atolls) located in the central Pacific.

In recent years, increasing population and lifestyle changes have led to a departure from the traditional way of life for many I-Kiribati.

This is contributing to a depletion and degradation of the natural resources of the country, and the inability of these resources to sustain the residents in a productive and harmonious lifestyle.

The population is about 75,000 with a growth rate of 2.2 percent and an average population density of 85 persons/km².

In South Tarawa, however, this rises to more than 4000 persons/km², one of the highest recorded values anywhere in the world.

This high density is a major factor contributing to the environmental problems in South Tarawa.

Urban drift into Tarawa for both educational and employment opportunities has been significant, and this represents a major issue requiring attention by the government.



Environmental management issues that are impacting on economic development include:

- Coastal and lagoon management (over-exploitation of resources, causeways and reef passages, reclamation, coastal erosion and mangrove removal);

- Water supply and sewerage (limited freshwater resources, inefficient rainwater collection and storage, leakages, lack of maintenance, poor water quality creating health problems);

- Solid waste disposal (shortage of land leading to inappropriate dump sites, limited recycling, composting or reuse, and little control of imported packaging);

- Soil management (poor control of land clearing, limited use of compost and trash conservation);

- Biodiversity conservation (low natural diversity, major human impacts, decline in traditional marine tenure, feral cats, and the lack of a strategic plan for conservation of the few rare

and endemic species);

- Infrastructure and energy management (poorly planned and operated maintenance programs, use of alternative fuels, management of fuel wood resources);

- Land access for development (traditional ownership, low land rentals, getting all the interested parties involved in negotiations).

Other issues of concern include public knowledge (or the lack thereof) and perceptions about the importance of the environment, climate change and sea-level rise, lack of specific legislation for coordinated environmental management and that requiring environmental impact assessment (EIA) for all development activities.

The water supply issue is particularly important on Kiritimati (Christmas Island), as the Government is developing a resettlement program there in an attempt to move people away from South Tarawa.

The Government has implemented a policy of enhancing environmental education and public awareness, and this must be continued, as this is one way of changing peoples' attitudes, an essential component of better environmental management.

The full report on this project will be available later in the year, but Professor Morrison (ext. 4134) would be happy to discuss this with anyone interested.



Josephine Habak, winner of the ATMA Prize for Taxation Law and Practice, and the third member of her family to win this prize, receiving the award from Judge Blanch.

Awards for high achievers in Law

Chair of the Law Visiting Committee, Judge Blanch, presented prizes to students who excelled in their law stud-

ies in 1994 at a special function on 11 April.

These included students from the

Faculty of Law as well as students from other faculties who had included law subjects in their degree.

Prizes were made available by supportive external organisations and for the first time the Campus Alumni Group presented an Honours Year Book Scholarship prize.

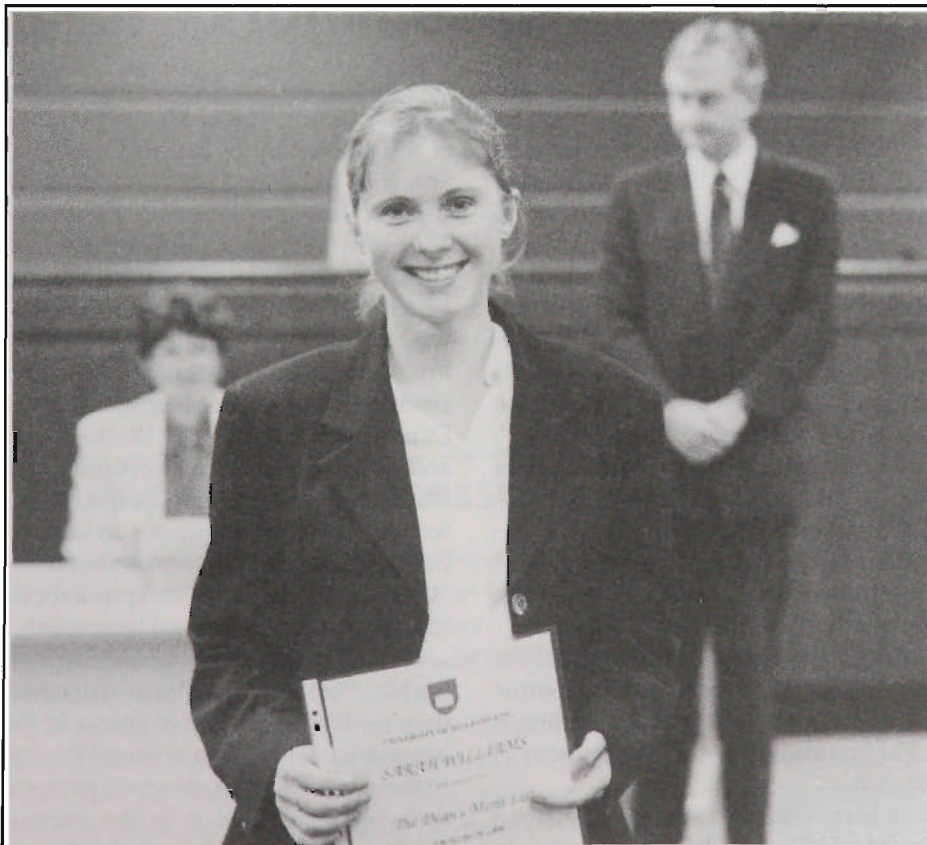
The Faculty of Law greatly appreciates the support of these organisations.

Butterworths Pty Limited Law Publishers Book Prize: Cathie-Jane Dahl, Lee Moerman, David Jones, Simon Etherington, Christina Brown, Natalie Gray, Jennifer Ford, Megan Webb, Sarah Williams, Ian Farrell, Austin Pitman and David Williams.

Australian Securities Commission Prize: John Pereira.

The ATMA Prize for Taxation Law and Practice: Josephine Habak

Dean's Merit List: Natalie Gray (also winner of the Campus Alumni Prize), Simon Etherington, Sharon Miskell, David Jones, Sarah Williams, Ian Farrell, Adam Piggott, Sinead Campbell, Jennifer Ford, Catherine Holz, David Williams, Marnie Prater and Donna Trembath.



Sarah Williams, one of 13 students on the Dean's Merit List

Cross-cultural awareness for law graduates

A submission by the Faculty of Law for the development of a training module for pre-admission law graduates on cultural matters affecting Aborigines and Torres Strait Islanders has been successful.

The proposal was developed by Associate Professor Ainslie Lamb from the Faculty of Law for the Council for Aboriginal Reconciliation (CAR).

Development of the module will be 'cross-campus', involving Dr Rogelia Pe-Pau from the Centre for Multicultural Studies and Ms Liz Ellis from the Centre for Staff Development, as well as Professor Jack Goldring, Mr Damien Considine, Professor David Farrier, Ms Jane Innes, Mr Luke McNamara and Associate Professor Robin Handley from the Faculty of Law.

The consultancy team also includes Mr Ted Tuckerman of the South Coast Aboriginal Legal Service, and Aboriginal and non-Aboriginal lawyers with practical experience of how the Australian legal system affects Aborigines and Torres Strait Islanders, and who are aware of the need for lawyers to be sensitive to cultural and communication issues.

The project brief is to prepare prototype materials for a cross-cultural awareness training program for law graduates undertaking pre-vocational training before admission to practice in NSW.

The training is intended to provide awareness of cultural issues arising in the context of the provision of legal services to or affecting Aboriginal and Torres Strait Islander people.

It is to be designed in four two-hour sessions, utilising existing videotape and audiotape materials, and

supplemented with additional print material from the Council for Aboriginal Reconciliation.

The module is to be available by late May 1995 as a pilot in the College of Law practical legal training program.

It is also intended to be used in any practical legal training program conducted by the University of Wollongong, and CAR hopes it will eventually be used in all Australian practical legal training courses.

In today's Australia, many situations can arise in the context of legal practice, where an awareness of and sensitivity to cultural matters affecting Aborigines and Torres Strait Islanders will be important.

This awareness may be necessary whether the lawyer acts for or assists indigenous people in legal situations, or is engaged on behalf of a government department, a private corporation, a policy maker, or any other person who is dealing with indigenous people.

It could be in the context of a criminal charge, a commercial transaction, a land rights claim, a family situation, an environment or natural resource issue, or the protection of native heritage.

The aims of the training module are to provide an understanding of indigenous cultures and histories, including the treatment of indigenous peoples in Australian society after colonisation; examine the current position of indigenous people in Australian society; examine legal issues of particular importance to Aboriginal people; and develop awareness of specific issues involved in communication with indigenous peoples, kinship responsibilities and cultural obligations.

Department of English research seminars

The Department of English and the Centre for Research in Textual and Cultural Studies (CRITACS) are hosting a series of research seminars during this session on Tuesdays at 12.30pm in Building 19, Room 1095.

The Centre for Research in Textual and Cultural Studies is a new research centre in the Faculty of Arts which incorporates the well-established New Literatures Research Centre.

CRITACS is maintaining the international reputation of the New Literatures Research Centre, and developing a research program in areas such as women's writing, literature and the law, linguistics and language studies, and electronic texts.

The seminar program presents work in progress from members of CRITACS and papers from visiting academics.

Visitors to the CRITACS seminar so far have included Honorary Research Fellow at the University of Sydney, Gavin Edwards, and a distinguished

Canadian scholar, Professor Sandra Djwa.

Future international visitors include Sally Mead Hands-Bascom Professor. Joseph Wiesenfarth, and Professor of English at the University of Wisconsin-Madison, Nathan S. Blount, who is visiting Australia in May to conduct research on Australian artist Stella Bowen and her relationship with novelist Ford Madox Ford for his current book to be entitled 'Ford among the Moderns'; Tineke Hellwig from the University of British Columbia, and Douglas Barbour and Stephen Scobie, who are performance poets and professors of Canadian literature, working in the context of 'the postmodern' and 'the post-colonial'.

The program is: 16 May: Jeanette Stirling, 'Medical Discourse and Dementia: Who Did I Become?' Jeanette Stirling is a PhD candidate in the Department of English.

24 May (This is a Wednesday, not a Tuesday): Tineke Hellwig 'Women in Dutch Colonial Literature' (presented in

conjunction with the Department of History & Politics) Tineke Hellwig teaches at the University of British Columbia. She has published *In the Shadow of Change: Images of Women in Indonesian Literature*, and her *Adjustment and Discontent: Representations of Women in the Dutch East Indies* is forthcoming.

30 May: Louise Ravelli, 'Text Writing Project with the Australian Museum'. Louise Ravelli teaches linguistics in the Department of English, Wollongong, and with the PAGE consortium. Her research interests are in the use of systemic-functional linguistics to explain how language functions to make meaning. She is working on workplace applications, and verbal-visual interaction.

6 June: Douglas Barbour and Stephen Scobie, Performance Poets. Together, they perform a variety of pieces in the international tradition of Sound Poetry. In their presentation, they will perform their work and set it in the various contexts out of which it emerged.

Inquiries: Dr Kate Newey, ext. 3689.



Team leader Sonia Tiong-Aquino was welcomed by Professor Stephen Hill

Phillippine Women in Science and Technology visit Centre for Research Policy

In March, the Centre for Research Policy (CRP) conducted a half-day seminar for the Asian Alliance of Appropriate Technology Practitioners (APPROTECH ASIA).

The group of 20 women – senior staff from government and non-government organisations in the Philippines – is on a science and technology study tour of Australia funded by AUSAID (AIDAB).

The seminar involved several centre staff and was led by Director of the Centre, Professor Stephen Hill, and his deputy, Associate Professor Tim Turpin.

The session focused on science and technology policy and commerciali-

sation strategies in Australia.

Information about Australian science and technology policy initiatives provided both an orientation to the group's subsequent experience in Australia as well as an opportunity for discussions of issues related to the Philippines situation.

The group was also briefed on the CRP's international programs.

CRP has developed a strong program linking Australia's research and technology policies with Asian countries and their development.

This program is based on very extensive experience of the director and senior staff on research and technology policy within Asia and on the

centre's acquired role as regional centre for major Asia-wide networks on research policy and industrial technology – namely the Science and Technology Policy Asian Network (STEPAN) and APEC's Industrial Technology HRD Program (HURDIT) for which the CRP is the Australian National Lead Institution (NLI).

The group will have the opportunity to meet with counterpart Australian groups to further enhance their knowledge in general terms in the areas of food technology and processing; marketing technologies and technology development from a research output to a commercial commodity.

Three of the participants (J. Navarette, D. Duran and C. Santiago) are inventors of local Philippine herbal products (edible and cosmetic) recognised by the world intellectual property organisation of Geneva, Switzerland.

The output from this study program will form part of the data to be presented by women participants from the Philippines in the forthcoming International Symposium on Women Empowerment Through Science in Technology in Beijing, China.

AIDS prevention session

Suzanne Punton Butler, from the Department of Nursing, will present an AIDS prevention information session for staff on safe practices to prevent disease transmission in the workplace.

The information session will be held in Function Room 2, Union Building, from 10-11am on Monday 22 May.

This session offers an opportunity to ask any questions and address any concerns about HIV, Hepatitis B, Hepatitis C and the likelihood of contamination. Tips on how to adopt safe working practices such as avoiding needle-stick injuries will also be covered.

Register by contacting Janene Sunderland, ext. 4876.

Collaboration with Area Health Service enhances intelligent materials research

The University of Wollongong and the Illawarra Area Health Service (IAHS) have established the Intelligent Biopolymer Research Unit (IBRU).

It is already evident that intelligent polymer research will have a tremendous impact on the design and development of enhanced performance materials with medical applications.

The development of advanced polymer materials for controlled drug release for artificial organs, artificial muscles and even for control of cell growth and differentiation to facilitate nerve repair is feasible.

The University's Intelligent Polymer's Research Laboratory (IPRL) and the IAHS have combined strengths and facilities recently to position this joint effort as a strong and effective contributor to this exciting area of research.

This success has been made possible by the development of strong collaborative links with the PathCentre of the Illawarra Area Health Service.

IAHS provides a fully-equipped tissue culture facility; medical, haematological and scientific expertise; access to biological testing equipment; microscopes, computers and a medical library.

There are four full-time staff as well as students working on projects.

An impressive international network involving other world leaders in Japan and USA, who are working in this area, has also been established.

The two main areas of research are:

- **Control of cells using dynamic 'intelligent' polymers**

This is a fundamental research project investigating new ways of 'communicating' with cells, to influence their growth, differentiation and

functioning.

This is achieved by stimulating the polymer by applying small electrical signals.

By designing the polymer in appropriate ways, this electrical stimulus can be used to trigger specific chemical changes, such as controlled release of cellular signal molecules, such as hormones and growth factors that cause the cells to change their activity.

These fundamental studies will have two long-term outcomes.

First they will generate new tools and concepts that will help to understand the processes involved in cell growth and differentiation and how these processes become deranged in diseases such as cancer.

Second, they could lead to the development of new biomaterials for biomedical implants.

- **Intelligent biomaterials for surgical treatment of atherosclerosis**

New materials that are compatible with human blood and suitable for the construction of vascular grafts and stents would lead to great advances in the treatment of atherosclerosis (e.g. in coronary artery disease).

The major problem with conventionally-used materials, such as polyurethane and teflon, is that they are static materials that cannot adapt to the constantly changing environment in the body.

The polymers that can be produced are dynamically active and able to 'communicate' with the cells of the body.

They can release growth factors that encourage the growth and multiplication of endothelial cells (the cells that line blood vessels) and induce the formation of a 'natural' living cell on the surface of a polymer tube.

IBRU is working on the construction of such polymer tubes that have the correct balance of structural, mechanical, biological and dynamic properties and is testing these for their usefulness as arterial grafts.

IPRL recently has attracted funds from the US Army Research Office, the Australian Research Council and a commercial grant from Gamma Biologicals in Houston, Texas, USA.



CELL & MOLECULAR EVENING SEMINAR SERIES

The University of Wollongong
Department of Biological Sciences and Biological
Macromolecules Research Centre

Held on Monday evenings from 6pm in the Department of Biological
Sciences, University of Wollongong, Building 35, Room 105.

SPEAKER LIST

- 22 May: **Professor Adrian Lee** (University of NSW)
The cell and molecular seminar on *Helicobacter pylori*
Host: Dr Mark Walker
- 7 August: **Professor Rolland Skollay** (Centenary Institute)
The Life Technologies seminar on T cell immunology
Host: Associate Professor Ted Steele
- 14 August: **Dr Simon Easterbrook Smith** (University of Sydney)
The BioRad seminar on complement regulation
Host: Dr Mark Wilson
- 11 September: **Professor Adrian Gibbs** (Australian National University)
The Bresatec seminar on virus evolution
Host: Associate Professor Ted Steele

Inquiries: Associate Professor Ted Steele, Associate Professor Ross
Lilley, Dr Mark Walker, Dr Rhen Zhang or Dr Mark Wilson, phone: (042)
213 013, fax: (042) 214 135.

A university with no students

When asked how different being at Wollongong University is from his previous position at a UK university, Laurie Shine said: 'There are students here!'

On a work exchange from The Open University, Mr Shine is replacing Wollongong University staff member Ann Kiceluk who will be working in Britain for the next year.

Last year, Mr Shine responded to an e-mail from Ms Kiceluk, who was keen to take part in a work exchange.

After a video conference to discuss details, he was on his way to Wollongong.

He is now filling Ms Kiceluk's position as a senior personnel officer looking at specific projects, while she is working in the employment area of The Open University.

Originally, Mr Shine and his wife had looked at going to America on exchange.

But many years ago, Mrs Shine lived in Cronulla, Sydney, and was keen to return.

So when the opportunity arose to come to Wollongong, they had no hesitation.

Mr Shine and his wife also have brought with them their two children, aged 10 months and two years.

Home for the Shine family is Milton-Keynes, 60km north of London, a town not unlike Wollongong in size, but it is more spread out in a flat country setting.

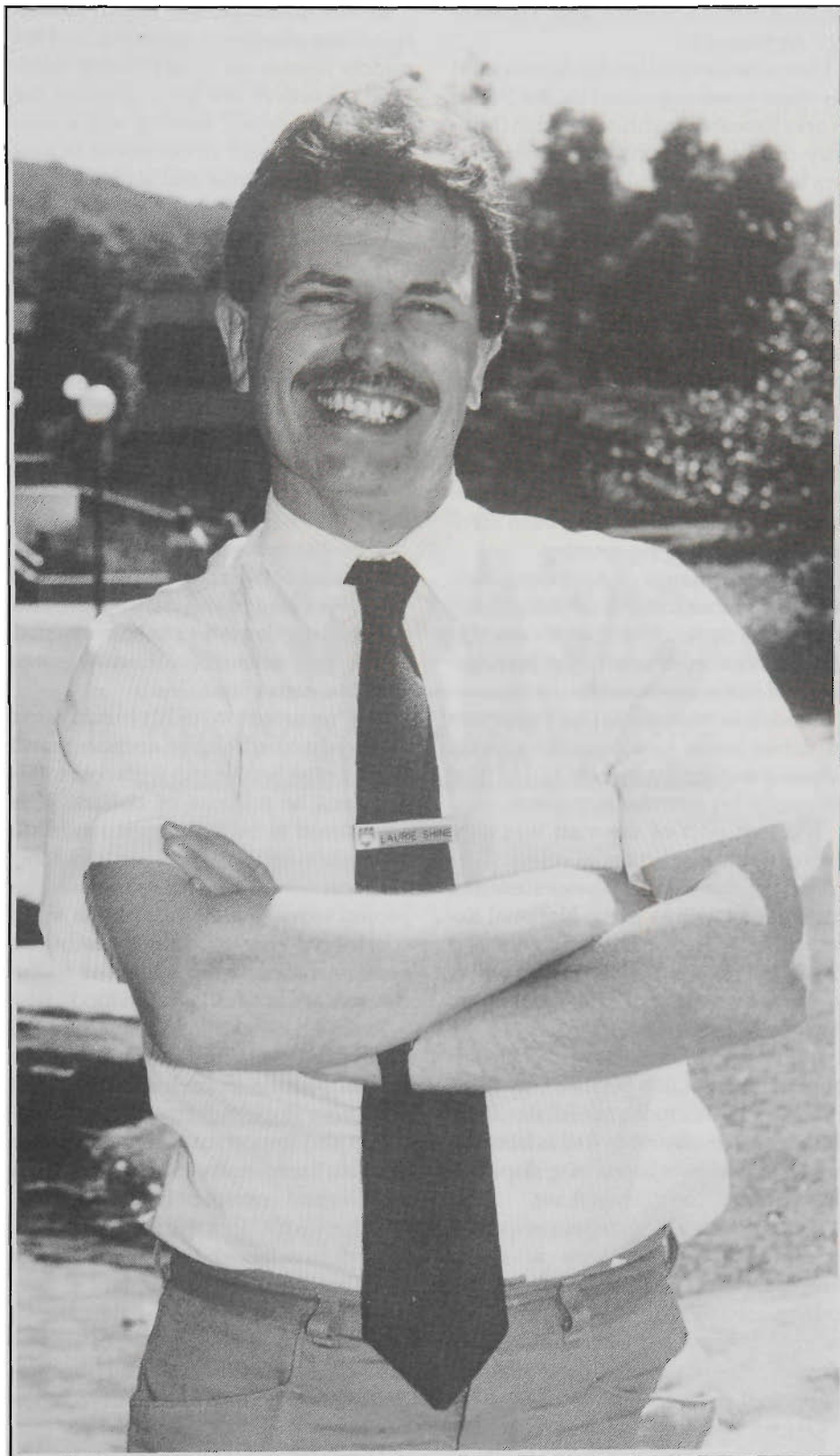
The Open University is located in Milton-Keynes.

The Open University provides distance education and is the first university in the world entirely dedicated to distance education.

It has a staff of 3500 and 90,000 undergraduate students, highlighting its popularity as a preferred mode of study. The University is in its 25th year of operation and courses are broadcast on BBC television.

Mr Shine said there are no on-campus courses and having no students on the campus certainly makes parking easier.

Mr Shine is looking at his exchange in Australia as a refreshment type course so he can get new ideas to take home.



Mr Laurie Shine

'The Personnel Office at the University of Wollongong is well advanced in their use of computer technology,' he said.

Another University of Wollongong staff member, Dr Stephen Little, from the Department of Business Systems,

is also on exchange at The Open University Business School.

Mr Shine would recommend a work exchange to anyone and said it has great advantages both in terms of work and the opportunity 'to act like tourists every weekend'.

Collaborative research with Japan on landslides

Professor Robin Chowdhury has recently returned from a visit to Japan as part of a collaborative project under the Japan-Australia Science and Technology Agreement.

He visited several landslide areas and his visits were organised by the Public Works Research Institute of Japan (Ministry of Construction) with headquarters located in Tsukuba Science City.

Professor Chowdhury also visited the Kobe area to study some of the effects of the damaging earthquake which rocked that area in January.

Understanding the mechanisms that lead to slope movements and landslides is fundamental to further progress in geotechnical engineering.

Many methods of landslide control have been developed and used successfully in Japan. Tens of thousands of landslide danger areas have been identified throughout the country.

The performance of highways, railways and other infrastructure in many hilly areas depends on the efficiency in the prevention, control and management of slope movements.

Landslide research is also important in urban areas to safeguard existing housing and infrastructure and to plan rationally for new developments.

The first part of the visit was concerned with inspection of research facilities in the Public Works Research Institute, as well as in the National Research Institute for Earth Science and Disaster Prevention (NRIEDP) which is part of the Science and Technology Agency of Japan.

Both organisations have their headquarters in Tsukuba Science City.

The facilities include a rainfall simulator, the largest in the world as well as laboratories for model tests concerning slope failures, landslides and debris-flows.

A significant landslide area inspected in Shizouka prefecture was the Kuchisakamoto landslide. There are four major landslide blocks near each other and the mechanism involves block movements of a whole mountainside along well-defined slip surfaces.

One of the objectives was to inspect the major control measures such as drainage wells, horizontal drainage systems, anchor systems, retaining structures and drainage tunnels.

Changes cannot be predicted accurately. Consequently, the success of major drainage works cannot be guaranteed, although it is widely recognised throughout the world that such works are the only means of reducing pore

water pressures and thereby preventing the reduction of shear strength of soil and rock masses.

In this landslide, the upper masses have been effectively stabilised, and the middle masses are close to being stabilised. However, the toe regions of the landslides are still moving and a considerable amount of sediment is also threatening facilities and settlements in nearby areas.

Retaining structures and check dams at the toe of the landslide have been constructed to mitigate the consequences of small and medium-size failures in the lower regions.

At the Public Works Research Centre in Tokyo discussions were held with Professor Masami Fukuoka, a veteran landslide expert.

A video concerning the 'Jizukiyama landslide' has been made.

This disastrous landslide involving the failure of Mt Jizukiyama caused considerable damage and destruction, and the nearby villages had to be evacuated before comprehensive countermeasures could be carried out.

The 'resurrection' of Mt Jizukiyama involved major drainage, anchorage and slope protection works with cost totalling tens of millions of dollars. It is considered to be the largest landslide restoration work carried out in Japan.

Discussion of this landslide and the project involving its restoration were considered very important because the fundamental processes that led to the disaster are not fully understood.

Research concerning the mechanism of progressive failures is important for further success in understanding and analysing slope movements.

It is also important to develop better and less inexpensive measures for prevention and control of landslides.

Other inspections during the visit included two landslides caused by the Kobe earthquake of 17 January.

Failures due to this earthquake of many old-style houses and of several modern, engineered buildings, bridges and other structures have received wide publicity.

The geotechnical aspects have largely been ignored in such publicity because, relatively speaking, damage to life and property due to geotechnical failures was not significant.

Yet there were many small and medium-sized landslides. Movements of many debris-flow masses have also been identified.

It is considered fortunate that many

reservoirs associated with dams were not full; otherwise some disastrous dam failures may have occurred.

However, several reservoirs did lose most of the stored water during the earthquake, but this was a consequence of failure of pipelines.

One landslide which did cause loss of life was Nigawa landslide in Nishinomiya city causing 34 deaths and destroying 12 houses.

The failed slope had an inclination of only 21 degrees and the landslide mass was 290m long, 130m wide and about 14m deep (maximum depth estimated).

What is interesting about this landslide concerns the history of formation of a large bench at the top of the slope to develop a large water-treatment works/facility.

As investigation proceeds and data are analysed, it may show that physical developments that occurred several decades back were critical in the occurrence of this failure although the immediate trigger was an earthquake.

Another earthquake-induced landslide inspected during this visit was the Takarazuka landslide in Takarazuka city in Hyogo prefecture.

This failure is significant because of the mechanism which appears to be related to two relatively thin sand layers in the slope.

The speed and extent of travel of landslide mass and its movement as a block with little or no internal deformations points to 'liquefaction' (total loss of shear strength) of these sand layers which obviously had access to underground water, the seepage from which can be seen even now after partial restoration of the slope.

Although the landslide mass has moved a considerable distance, several trees on it stand vertical even today.

Other interesting phenomena associated with liquefaction were observed during and after the earthquake in reclaimed islands (e.g. Rokko Island in Hyogo prefecture) near Kobe.

Where sand piles had been used in the filled land, liquefaction did not occur. Also buildings located on pile foundations performed well although the ground surrounding these buildings settled almost uniformly by a significant amount.

This visit provided a sound basis for future work as well as for collaboration between Japan (PWRI) and the GEM Engineering Research Centre, Department of Civil and Mining Engineering at the University of Wollongong.

Call for submissions on learning development

Professor Murray Wilson has been asked by the University Education Committee to chair a Working Party enquiring into and prioritising the needs for learning development support on the campus and ways of enhancing the capacity of the Learning Development Centre to respond to these needs.

This is a follow-up call for submissions which must be in this week.

These submissions should be addressed to Linda Maher, Secretary to the LDC Working Party, Academic and Student Services (Admissions) Building 36.

If you have any queries concerning the enquiry contact Professor Murray Wilson on 213 512.

Terms of reference:

The Learning Development Centre was reviewed in October 1991. An extract of the key findings and recommendations of that review is available from the secretary of the Working Party.

The Working Party is asked to pay particular attention to:

- identifying and placing priority upon the University's current and anticipated needs for learning development support with particular reference to:
 - international students
 - students in equity categories
 - students making the transition from one learning environment to another and seeking coping strategies for that change.
- the extent to which the LDC has been able to 'enhance the skills of academic staff' through collaborative programs with CSD, and to propose ways in which such activities could be enhanced
- assisting the Centre to develop its capacity to offer a responsive and effective consultative service to meet the needs of staff.
- exploring the implications of the University's teaching and learning policies on the activities of the LDC with particular reference to:
 - internationalisation
 - language and presentation skills
 - fostering a reflective culture
 - enhancing skills in effective student learning and study skills

- assistance to thesis writers and their supervisors
- basic numeracy and literacy skills
- exploring the extent to which the Centre could increase its reach and impact by increasing its attention to larger group activities as well as its small group and individual assistance to students.
- reviewing the continued need for the Gateway program including a consideration of:
 - its place in the University's student recruitment strategy especially for equity groups and Aboriginal students
- the diversity of target groups and selection of participants
- appropriate levels of resourcing
- an analysis of the overall benefits to students and to the University in the context of other similar programs run by the TAFE sector.
- assisting the Centre to prioritise its activities in line with the priorities of the faculties and the University.

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Sixth Annual WOLLONGONG ANTIQUÉ FAIR

WOLLONGONG TOWN HALL

MAY 26th - 28th 1995

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★

Saturday May 27th - 10:00am to 6:00pm
Sunday May 28th - 10:00am to 5:00pm

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★

ADULTS - \$4.00
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PREVIEW



★

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(Bus.) 042 261 046 (Home) 042 287 074


★ **FAIR CO-ORDINATOR** ★

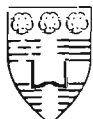
Ray Green - Phone: 042 717 781

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University Centre News

New conference facilities

The University Centre in Clarence St, Sydney has new conference facilities on level four.

There is seating for up to 30 people in the seminar room, and up to 80 in the conference room.

The rooms are equipped with audio-visual resources such as a video player and monitors, an overhead video projector, microphone and sound systems.

A feature on level four is a dedicated video-conferencing centre equipped with twin monitors, document camera, a graphics tablet and a video camera.

'The level of our equipment and video-conferencing services make The University Centre one of the best equipped sites in Australia,' The University Centre Manager, Ray Hand, said.

The system also is operating with a multipoint bridge that can accommodate up to eight sites around Australia or around the world.

'We also have recently performed a cascading video conference where we connected to a second bridge in the United States that allowed many more sites to participate,' Mr Hand said.

'The establishment of level four and its use enhances the teaching role of our partner universities in Sydney and strengthens the ties with industry and corporate clients.'

New arrivals

Open Net Pty Ltd has established its head office at The University Centre.

Open Net is establishing an Australia-wide computer network to allow electronic access to universities and TAFE systems.

This will benefit the provision of communications and course delivery for distance education institutions.

Open Net will also enable its subscribers to connect to the Internet.

Services for distance education students

The University Centre has Macintosh and IBM-compatible computers with word processing and spreadsheet packages loaded.

The computers allow access to library catalogues and to campus mainframe computers.

The services are free of charge to Charles Sturt University, The University of New England, Southern Cross University and University of Wollongong students.

There are also meeting rooms where students can arrange to meet each other and their lecturers in tutorial groups. These can be organised through course coordinators.

The University Centre is open 9am-5pm on weekdays.

Wollongong's high profile in TPM

Through its Centre for Advanced Manufacturing (CAMIA), the University of Wollongong is supporting Australia's first national Total Productive Maintenance (TPM) case study and networking forum at the Hotel Nikko, Darling Harbour from 19-20 June.

A member of the CAMIA Board, Mr Ross Kennedy, has organised the conference.

Keynote and feature speakers are Americal TPM expert, Mr Edward Hartman, Director of CAMIA, Professor Gunter Arndt, and Mr Rex Honey from Coopers and Lybrand.

The aim of the conference is to bring together what we know in Australia about TPM and how far its implementation has gone compared to other countries, and also to provide a forum for networking among TPM practitioners

For information about registration contact Synergy Conventions 008 644 845.

By special arrangement: *Suddenly Last Summer*

The Theatre Strand within the Faculty of Creative Arts is presenting Tennessee Williams' classic play, *Suddenly Last Summer*.

Williams' chilling play deals with power, and how it can be used in order to achieve one's ends.

Violet, disturbed by the death of her son Sebastian, will stop at nothing to ensure Catharine does not ruin his reputation. As the play progresses, what we see is an unveiling of reality to reveal how deceptive appearances can be.

The concept of power and deception is what makes this play still relevant to a contemporary audience.

Special arrangements had to be made with Tennessee Williams' copyright agents for permission to perform the play.

The play runs from 17-20 May at 8pm, with a Saturday matinee at 2pm.

It will be held in the Performance Space, Bld 25. Tickets are \$16/\$8. Bookings: (042) 214 214.

THE ANGLICAN CHAPLAINCY AT THE UNIVERSITY OF WOLLONGONG & RICHARD JOHNSON COLLEGE

invites you to attend the

ANNUAL UNIVERSITY SERVICE

to be held on
Sunday 14 May, 1995
commencing at 7 pm in

ST JOHN'S ANGLICAN CHURCH, KEIRAVILLE
cnr. Eastern St & Moore St, GWYNNEVILLE

Speaker: Mr Justice Peter Young

Supper to follow

You are invited to robe and join the academic procession.

RSVP by 10 May, phone (042) 259 526.

Union Activities

All members of the Union, students and staff are invited to attend.

- 11 May: Band Competition Heat 2, Uni Tavern.
- 25 May: Band Competition Heat 3, Uni Tavern.
- 27 July: Band Competition Final.
- 7 August: Union Art Award.
- 4-8 September: Union Week.
- 8 September: Union Dinner.

General

The Campus Alumni Bookshop will open on the second and fourth weekends of each month. Come and browse through a wide selection of preloved

What's On

textbooks and fiction. Campus East, Cowper Street, Fairy Meadow (opposite Science Centre). All proceeds directed towards Campus projects. Donations of material are invited. Enquiries to Alumni Office, phone 213 249 or 291 951 (anytime).

16 May: 7.30pm Women's Issues Group. Professor Joan Cooper, *Informatics*, Karen Jeffrey, *In the Steps of Warburton*. Function Centre Union Building Members \$2.50 Non members \$3.50 Enquiries Moira Bowman 843 741.

Joshua takes the Cup for second year

Great sportsmanship, a range of prizes and perfect weather contributed to a winning day for all the players in the 1995 Vice-Chancellor's Cup Golf Day.

For the second year running, Civil Engineering student Joshua Taylor won the cup with a fine score of 72, beating Commerce student Shane Bourke and NAB Regional Manager Neil Frost into second by five strokes.

For the first time, visiting players came from the Universities of Sydney and NSW, as well as two Regional Managers of the National Australia Bank.

The event was sponsored by Tom Rankin Electrical who supplied trophies for all winning players.

Trophies were presented by the District Commercial Manager for the National Australia Bank, Phillip Diprose.

Results:

Vice-Chancellor's Cup: Joshua Taylor 72. Runners-up: S. Bourke/ N. Frost 77.

Inter Departmental Trophy: Chemistry 221. Runner-up: Commerce 225. Club Handicap Event: Neil Frost 69 nett. Runners-up: P. Sara/ G. Tarrant 73 nett.

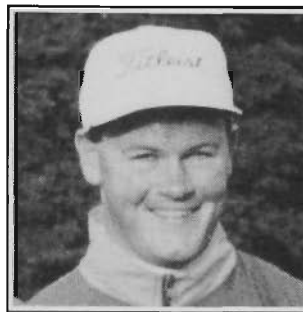
Calloway winner: Daniel McGoldrick 74.

'Bradman Event': Paula Iannitta 155.

There were 45 starters this year and any interested players can pencil themselves in for 1996 at Port Kembla Golf Club. It will be held on the Friday after the Easter weekend as it is every year.

The University Golf Club is also looking for keen Wollongong players to compete in the Australian Universities Golf Championships to be held in Brisbane in September.

If you are interested contact the Recreation and Sports Association soon.



Vice-Chancellor's Cup winner Joshua Taylor

Long Gallery

Exhibition program for 1995:

- Until 28 May: Print Show - 5 School Exchange Portfolio. University of Wollongong; University of Florida, Gainesville; West Virginia University; Indiana University; Purdue School of the Museum of Fine Arts, Boston. Cambodian Textiles from the collection of Neil Manton. Monoprints: Jane Hall.
- 1-25 June: Mumblings - Patricia Prociv, Fiona Davies, Davida Wiley. Country Blues - watercolours Jelle van den Berg; Landscape Aspects - Vivien Haley block and mono prints on fabric.
- 29 June-30 July: NAIDOC Exhibition - Works by Aboriginal artists.
- 3-27 August: Artist Made Furniture.
- 1-24 September: Postgraduate Works - Eileen Dillon Smith, Marcie McConville, Enis Tan, Taskin Gencag, Hue Lin Zhu, Alan Spackman.
- 2 October-5 November: Archaeologies: Structures of Time - Diana Wood Conroy and Sharon Marcus. Reciphering - Katharine Nix. Pathways - Paper works by Ian Arcus.
- 13 November-10 December: BCA Graduating Exhibition.

Stop Press

MCA recital - Theresa Chen, soprano

Soprano Theresa Chen, a Masters of Creative Arts candidate, will present a public recital of songs by Schubert, Wolf-Ferrari and Poulenc on Wednesday 17 May at 8pm in the Hope Theatre.

Also included in the program are several of the acclaimed *Dead Songs* by Associate Professor Andrew Schultz, who set texts found on tombstones in the Coledale cemetery.

Theresa will be joined by associate artist, Josephine Allen, on piano, and a small instrumental ensemble for the Schultz.

The recital lasts about one hour and is free. Enquiries: ext. 3591.

Campus News is published weekly on Wednesdays. Send material, preferably by Microsoft Mail or on disk, to E-Mail account 'Campus News' by noon on Monday of the week before that of publication.

For any other enquiries contact the Editor, Gillian Curtis (042) 21 3926. Campus News has a circulation of 3000. It is distributed on campus to staff and students. 1000 are mailed to the community and overseas including schools in Illawarra, southern Sydney and Canberra; local, Sydney and Canberra media; Friends of the University; business representatives; MPs and numerous individual requests.

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