Number 12, 1995

UNIVERSITY OF WOLLONGONG

Wednesday, 24 May

CAMPUS NEWS

# Families gather for graduation ceremonies

Family groups and friends from all over the world assembled on campus over the last two weeks to attend graduation ceremonies for 2200 graduands in nine faculties.

Many stories of dedication, achievement and enjoyment surfaced. The Chancellor, Dr Robert Hope personally congratulated each graduand as they came on stage and talked with them about their future plans.

Professor Gerard Sutton attended the ceremonies for the first time in his capacity as Vice-Chancellor.

Seated beside him was the newly appointed Deputy Vice-Chancellor, Professor Peter Robinson, who took up his appointment officially on 15 May.

Staff at all levels did their utmost to ensure the smooth running of the ceremonies and to make the guests welcome – a challenging task with 25 percent more graduands and eight ceremonies over two weeks.

The graduation of 56 senior officers from the NSW Police Service with Graduate Certificates in Management on Thursday 11 May was enhanced by performances by the NSW Police Band.

The Officers wore gowns over their uniforms and police caps in place of the traditional trenchers. They saluted the Chancellor rather than tipping their hats.

Guest speakers were: Dean Faculty of Creative Arts, Professor Sharon Bell; Campaign Director, Global Warming and Ozone campaign Greenpeace International, Ms Lynette Thorstensen; CEO BHP Minerals, Mr Jerry Ellis; Acting Police Commissioner, Mr Neil Taylor; Director General of School Edu-

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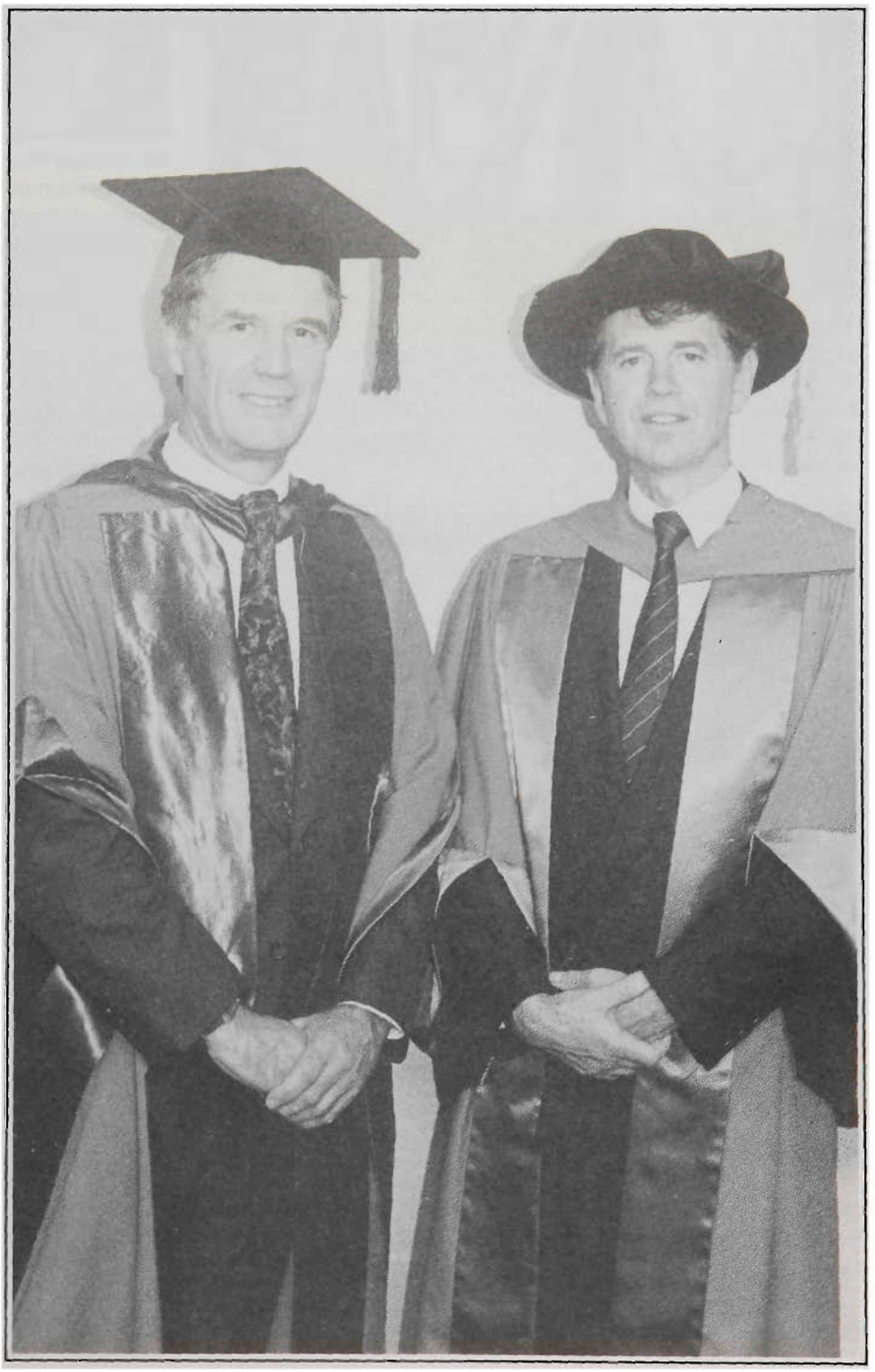
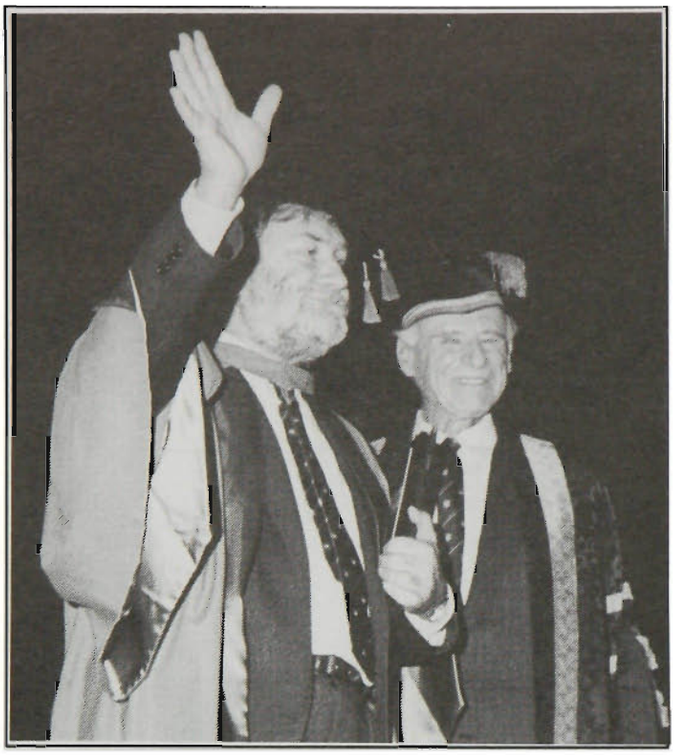
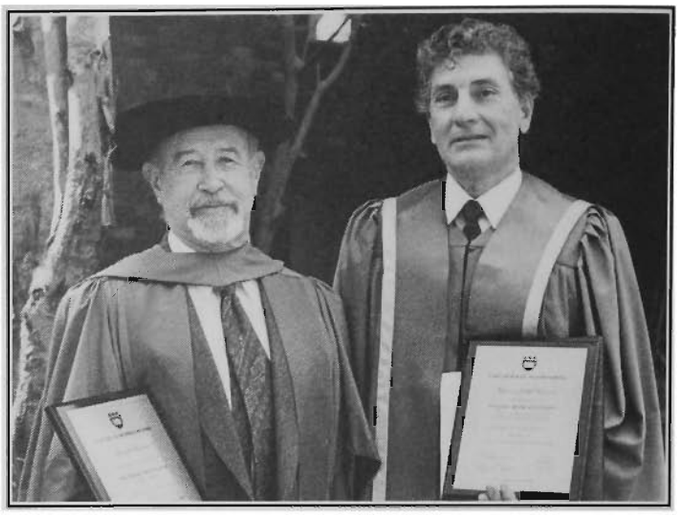


*Professor Peter Robinson, who took up his appointment on 15 May as Deputy Vice-Chancellor, presented his colleague from the CSIRO, Dr John Stocker, to the Chancellor to receive the award of Doctor of Science (honoris causa).*



*Professor Barry Jones, Visiting Professor at the University, politician and National President of the Australian Labor Party, was awarded a Doctor of Letters (honoris causa) for his seminal publications on historical, social and scientific change and his visionary contribution to the Australian community.*



*Mr Herbert Flugelman, prominent Australian artist and retired lecturer from the Faculty of Creative Arts, was awarded a Doctor of Creative Arts (honoris causa) in recognition of the major contribution he has made to sculpture and painting in Australia, and his enthusiastic and dedicated contribution to teaching and artistic endeavour during his 10 years with the Faculty of Creative Arts and Professor Vincent Cincotta, who was created a Fellow of the University in recognition of his pioneering work as Foundation Lecturer in Italian Studies, his outstanding contribution as a teacher and his generous contribution to community life which led to a high level of community goodwill towards the University.*

*Mr Jerry Ellis, Chief Executive Officer, BHP Minerals and Member of the University Council 1986-1989, was congratulated by Mr Laurie Kelly and his wife Rhonda after receiving the honorary award of Fellow of the University for his services to the University and the Illawarra and as a business leader with foresight and commitment.*

*from page one*

cation, Dr Ken Boston; Mr Gerry Moriarty, Telecom Australia; Dr George Rubin, NSW Department of Health; and Mr Richard Gould, CEO Illawarra Area Health Service.

Recipients of honorary degrees and fellowships were Mr Herbert Flugelman, Dr Vincent Cincotta, Professor Barry Jones, Mr Jerry Ellis and Dr John Stocker. Retired Dean of Arts, Professor Jim Hagan, was awarded an Emeritus Professorship.

## The other side of graduation

**In her address, Lynette Thorstensen from Greenpeace related a story about an occasion when she was the 'token woman' speaker at a male-dominated conference.**

**After speaking she sat down on her chair on the stage feeling rather hot in a warm hall and pulled off her jumper – forgetting that she had not put a shirt on underneath. For some reason, she said, 'I have been in great demand as an after-dinner speaker ever since.'**

# Graduation May 1995

*The Police Band added a welcome note to the graduation ceremony which included 56 senior police officers.*

*Graduands who successfully completed the Graduate Certificate in Management held in conjunction with the Goulburn Police academy wait their turn to receive their testamurs from the Chancellor.*

*Chief Inspector Bob White, Detective Inspector Ian Kennedy and Inspector Jack Williams, three of the graduating 56 senior police officers, were congratulated by Acting Police Commissioner, Mr Neil Taylor, who gave the occasional address.*

# Collaboration with US researcher on fly ash usage

Dr Uschi Graham, from the Centre for Applied Energy research (CAER), University of Kentucky, Lexington, USA, visited Geology, School of Geosciences, for three weeks during April-May.

During her stay, Dr Graham presented two seminars in the Geology Earth's Environments and Resources Group (EERG) seminar series.

The first seminar related to pyrite formation and the second seminar focussed on her current waste management research and was given as a joint EERG/ Environmental Science seminar.

Waste management of power station products is especially relevant to present environmental debates because fossil fuels, and coal in particular, are commonly singled out as the main source of pollutants deleterious to global warming and the ozone layer problem.

The USA Government introduced new environmental limits on the nitrogen oxide and sulphur oxide emissions from combustors.

These combustors burn coal at lower temperatures with a consequent increase in the carbon content of the fly ash produced.

Whereas previously the fly ash, with lower carbon, was used in industries such as the cement and ceramics industries, the new generation fly ash is no longer suitable.

The CAER is leading research aimed at removing the carbon from the fly ash and finding uses for both the mineral and carbon components.

*Bryan Chenhall, Aivars Depers, Dr Adrian Hutton and (seated) Dr Uschi Graham discussing their research on roof dust*

Geology at Wollongong University has a long history in fossil fuels research and postgraduate training, especially in coal research. More recently research has focussed on environmental aspects of resource geology and geochemistry, including issues such as industrial wastes in Lake Illawarra and around mine sites, and contamination from geological materials.

While at Wollongong, Dr Graham was involved in collaborative studies on the composition and lead isotope signatures of roof dust with Bryan Chenhall, Aivars Depers and Adrian Hutton.

Roof dusts contain various components ranging from extant wood, grasses and dust, as well products from combustion and industrial processes near the building.

The objectives of the collaborative research are to determine the levels of lead in the samples and determine the speciation of the lead and other metals.

The results will be fundamental to understanding implications for lead contamination in the community.

Continued collaboration with Dr Graham and the CAER is planned with other areas of collaborative research between Dr Graham and Wollongong academics including the characterisation and uses of fly ash products from Australian power utilities.

Dr Graham is organising the 1995 International Ash Utilisation Symposium in Lexington, Kentucky, from 23-25 October.

Delegates will be drawn from all continents with several representatives from Australia.

For more information on this symposium contact Dr Adrian Hutton of Geology, phone (042) 213 832 or fax (042) 214 250, or contact Dr Graham at CAER, fax 1-606-2570360.

## NAIDOC WEEK ABORIGINAL BALL

**TIME:** 7.00pm SATURDAY 8 JULY

**COST:** $20 per person

Entertainment provided
MIXED RELATIONS plus SUPPORT

**VENUE:** PORT KEMBLA LEAGUES CLUB
Wentworth Street, Port Kembla

**THEME:** Old Deb's Ball
(We need Debs 40-plus)

For further information, contact Dorothy, Tess or Rhonda at the Illawarra Aboriginal Corporation on (042) 281 585

Tickets available now

# New-look student awards

It's that time of the year again when we have the opportunity to recognise outstanding students in a range of areas.

The St George Youth Endeavour Awards for 1995 are now offered in six categories to young men and women aged 16-25 of the Illawarra, Southern Highlands and Shoalhaven.

For the Academia category, the teaching staff of the University and TAFE can nominate students.

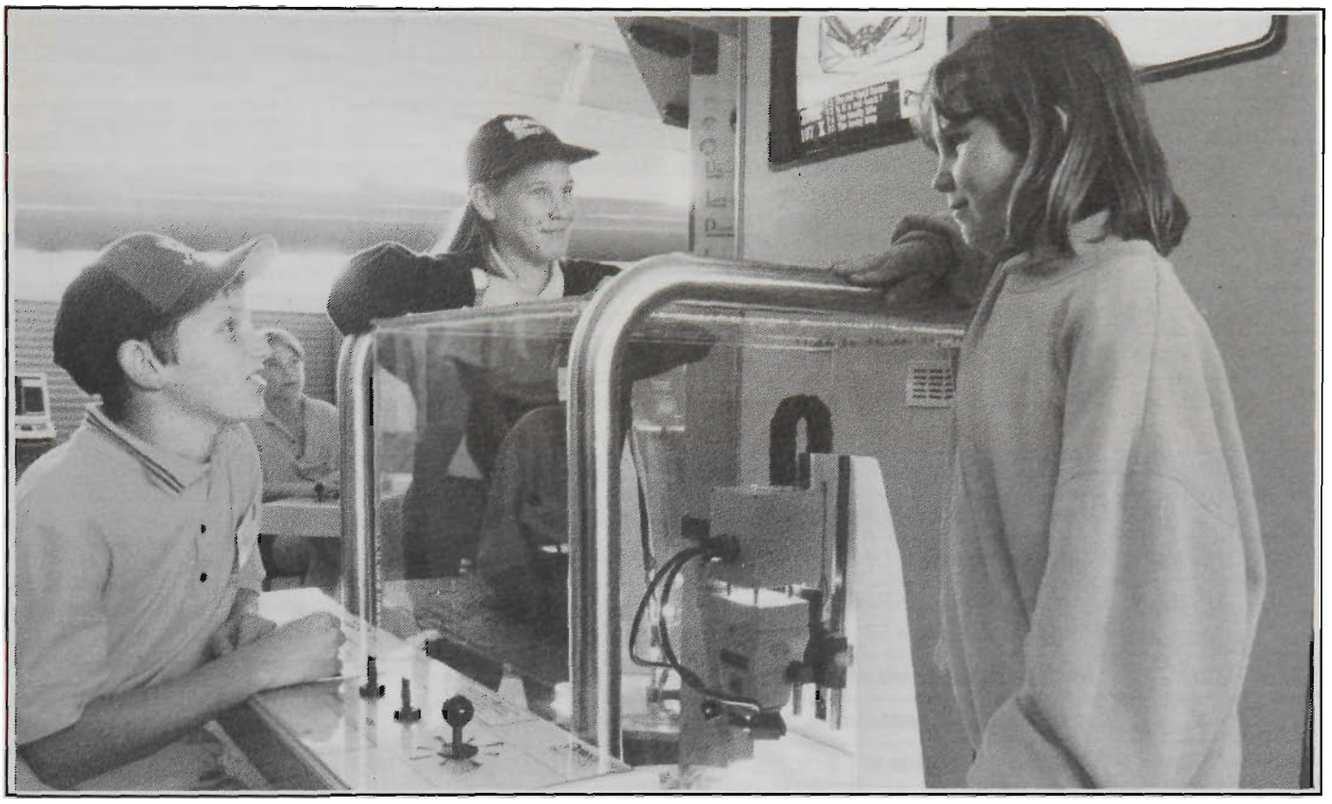
For the Visual and Performing Arts category, nominations can be received from academics from the Faculty of Creative Arts and members of the general public.

There are also the Community Service awards, Secondary Achievement, Business and a new one for 1995, Special Endeavours. This category recognises people who have committed an act of bravery or heroism.

Get your pen to paper and tell everyone about these excellent achievements! Our students who won last year have certainly appreciated the support and recognition (and prizes).

Inquiries and nomination forms: Fiona Baikie, Planning and Marketing, ext. 3248.

Nominations must be received by 31 May.



## Great new science exhibition

The Science Centre's major travelling exhibition for 1995, ICI Microcosm, was opened on Tuesday May 9 by Ted Amor of ICI Australia, the major sponsor for this exhibit.

Microcosm is a $500,000 collection of six robotic Cyberscopes which allows visitors to zoom into the microscopic world of Plant Structures, Bugs that Bite, Printing Techniques, How Rocks are Formed, From Egg to Animal and an Evolution of Living Things.

The exhibition will run until 16 July.

The Science Centre is open to the general public on Fridays from 7-9pm, Saturday and Sunday from 1-5pm and by appointment at all other times during the week. Enquiries, phone (042) 215 591.

## Life-saving effort

Ambulance officers praised two Faculty of Education, Physical and Health Education students recently when they carried out cardio-pulmonary resuscitation on an unconscious man found floating in the University pool

Anna-Lisa Imbriano and Ranay Hall, who work as pool attendants, dragged the man from the pool after he apparently suffered a seizure and worked on him until the ambulance arrived.

## Dagstuhl Seminar on Informatics and Semiotics

Rodney Clarke, a lecturer in the Department of Business Systems, has been invited to the Dagstuhl Seminar on Informatics and Semiotics to be held in Germany in February 1996.

Participation in a Dagstuhl Seminar is only possible through a personal invitation from the centre.

The International Conference and Research Centre for Computer Science at Schloss Dagstuhl is devoted to the stimulation of research in computer science.

The centre regularly organises high quality workshops, known as the Dagstuhl Seminars.

These seminars are a meeting place for scientists of an internationally approved rank and promising young scholars in one specific area of computer science from all over the world.

Mr Clarke has been invited to speak on his research on information use in organisations. Inquiries: (042) 213 752.

# Symposium: Biomedical Research in Wollongong

**In Association with Medical Research Week**
**Tuesday 6 June**
**The Union Building, University of Wollongong**

*Sponsored by: The Australian Society for Medical Research; Molecular Recognition Institute, University of Wollongong; Metabolic Research Centre, University of Wollongong.*

**Submissions of abstracts for communication as posters are invited. Poster presentations by students will compete for travel awards**

## Provisional Program

| | |
|---|---|
| 8.30-9.30am: | Registration and poster set-up (Foyer) |
| **9.30-10.30am:** | **Opening plenary session (Function room 4)** |
| 9.35am: | Opening address, Professor Peter Robinson, Deputy Vice-Chancellor, University of Wollongong |
| 9.45am: | The Aims of the Australian Society for Medical Research, Dr Kieran Scott, Treasurer, Australian Society for Medical Research |
| 10am: | Keynote address: The Institute Approach to Medical Research Performance and Funding in Australia, Professor John Shine, Executive Director, Garvan Institute of Medical Research |
| *10.30-11am: Morning tea and poster viewing (Foyer)* | |
| **11am-12.45pm: Invited oral presentations 1 (Function room 4)** | |
| 11.05am: | Oils aint oils: the role of cellular lipid composition in insulin resistance, Dr Arthur Jenkins, Metabolic Research Centre |
| 11.25am: | Strategies for intervening in cancer metastasis, Dr Mark Baker, Department of Biological Sciences |
| 11.45am: | Gestational diabetes mellitus, Dr Bob Moses, Diabetes Education Centre |
| 12.05pm: | Title to be advised, Dr Anthony Hodgson, Intelligent Biopolymers Research Laboratory |
| 12.25pm: | Cytomegalovirus infection of human cells: perturbation of cellular function and its role in vascular diseases, Dr Salwa Woodroffe, Department of Biomedical Science |
| *12.45-2pm:* | *Lunch and poster viewing/judging (Foyer)* |
| **2-4.05pm:** | **Invited oral presentations 2 (Function room 4)** |
| 2.05pm: | Bioactive molecules in medicine, Professor Leon Kane-Maguire, Molecular Recognition Institute |
| 2.25pm: | Environmental exposure to lead in Illawarra children, Dr Victoria Westley-Wise, Environmental Health Unit. |
| 2.45pm: | Regulatory mechanisms modulating plasmin-dependent proteolysis, Dr Dwayne Owensby, Illawarra Area Health Service. |
| 3.05pm: | Food, fat, fatness and heart disease. Professor Dennis Calvert and Dr Barbara Meyer, Medical Research Unit. |
| 3.25pm: | Genetic engineering and vaccines. Dr Mark Walker, Department of Biological Sciences. |
| 3.45pm: | Progress on the major cause of world blindness, Dr Roger Truscott, Australian Cataract Research Foundation, Department of Chemistry. |
| *3.05-4.35pm:* | *Afternoon tea and poster viewing (Foyer)* |
| **4.35pm:** | **Closing address and student award presentations (Function room 4)** |
| *4.50-6pm:* | *Mixer function (Foyer)* |

**Inquiries: Arthur Jenkins, phone: (042) 213 345.**

**Registration:** Deadline for abstracts and registrations: 30 May

**Registration fees:** Student $10, others $25.
Send payment by non-negotiable cheque (payable to Biomedical Research Symposium) to A B. Jenkins, Department of Biomedical Science, or to V. Sarantis, Department of Microbiology, Wollongong Hospital. Students are encouraged to seek sponsorship from their department or research group to cover their registration fee.

# Wollongong University supports Australian Science and Technology partnerships with China

The Centre for Research Policy (CRP) and the Faculty of Law led a delegation of Australian CSIRO scientists to China in April to develop new opportunities for linking Australian science and technology to Sino-Australian joint ventures.

At a workshop convened in Shanghai between 5-7 April, Australian and Chinese scientists and potential Chinese business partners discussed ways of making the most of opportunities for collaboration between the two countries.

Discussion during the workshop sessions identified key problem areas and options for overcoming current difficulties in managing science and industry joint venture collaboration.

Although the Chinese Government has sponsored bilateral discussions in the past with other countries on scientific collaboration and on commercial collaboration, this was the first time that China had officially been involved in bilateral discussions that sought to integrate science and business expertise

Associate Professor Tim Turpin and Ms Heather Hill from the Centre for Research Policy and Ms Natalie Stoianoff, lecturer, from the Faculty of Law at the University of Wollongong, the State Science and Technology Commission (SSTC) of China and the Shanghai Municipality Science and Technology Commission jointly developed the workshop.

The idea for the workshop emerged from more than three years of research collaboration between the Centre for Research Policy and Peking University, Qing Hua University, the China University of Politics and Law, Wuhan Institute for Science Policy and Shanghai University.

A major focus of this work has been on documenting the underlying structural changes in China's and Australia's science institutions and assessing the impact of intellectual property law on innovation.

The workshop was jointly chaired by Associate Professor Turpin, who is also working on a major study on the impact of market reforms on China's science and industry linkages, and Professor Duan Ruichan from SSTC and Shanghai University.

Professor Duan is one of the major architects of China's intellectual property law and was the leading negotiator in China's recent dispute with the US on copyright law enforcement.

Participants from Australia included senior scientists and commercial managers from the CSIRO and representatives from Australian new technology-based small businesses.

From the China side, participants included representatives from science and technology commissions at state, provincial and municipal level, science policy specialists from Shanghai and Peking universities and a wide range of industry leaders from China's rapidly developing 'new enterprise zones'.

Funding for the workshop was provided by 'Market Australia' and the China SSTC.

The timing of the workshop coincided with the launch of a major Australian initiative to promote the potential of Australia's science and technology for dealing with many of the fundamental problems faced by developing countries throughout the Asia-Pacific region.

During the last few years, Australian companies have established nearly 200 joint venture agreements with enterprises in China and the number is growing rapidly.

The focus of business for these ventures varies from mineral processing, food production, telecommunications, environmental management and primary production through to finance, banking and law.

At the same time, many Australian and Chinese scientists are engaged in joint research projects concerned with the leading-edge of science across a wide range of scientific fields.

The potential benefit for both countries from linking Australian science and technology to future Sino-Australian joint ventures is immense, but there are several barriers that tend to inhibit the formation of such linkages.

The rate of change in China's move toward a market economy is generating major changes in the linkages between China's scientific institutions and industrial enterprises.

Research institutions and university research departments have been undergoing major structural reform for nearly 10 years.

An intellectual property regime has been established and is already radically transforming the way technology is transferred through Chinese industries.

The devolution of authority in many areas of business and trade from state, to province, to municipality and to individual institutions is creating a level of enterprise autonomy that was hardly imagined only a decade or so ago.

It is difficult to keep up with the pace of institutional change in China and it is all the more difficult for business and research managers located in foreign countries.

As a result, many potentially productive partnership opportunities for Australian research and development agencies in China, and the region generally, remain untapped or do not achieve their full potential.

During the course of the workshop, intellectual property law and taxation law lecturer of the Faculty of Law at Wollongong, Natalie Stoianoff, met with Professor Tao Xi-Liang of the Intellectual Property Institute of Shanghai University with a view to developing collaborative research and teaching programs focusing on the development of intellectual property laws in China and Australia.

Plans are being developed to hold a China-Australia Intellectual Property Symposium between Shanghai and Wollongong universities within two years.

It is anticipated that representatives from other Asia-Pacific Universities will be invited to participate.

Ms Stoianoff and Professor Tao also discussed developing a program of student and academic exchanges between the University of Wollongong and Shanghai University.

One of the features of the Shanghai workshop was that it underscored the extent of change that is occurring in the Chinese economy and just how far behind Australia is in building effective long-term science-based links between Australian and Chinese enterprises.

The potential benefit for Australia and China is immense, but as yet there are not the appropriate structures in place to support linkages that bring together both science and commercial opportunities.

This is particularly evident in the areas of environmental science, food processing and building and construction.

In the follow-up to the workshop, CRP is exploring a range of options for taking a longer-term role in developing Sino/Australian science and industry-based linkages, particularly in the area of 'environmental technologies'.

Since the workshop, the Centre for Research Policy has already been approached by both Peking University and the Shanghai Municipality Science and Technology Commission to collaborate in the development of long-term, multidisciplinary research and development projects that could involve departments in at least three faculties of the University of Wollongong.

Further information: Tim Turpin, ext. 3270.

## Union Activities

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

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 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.

## Long Gallery

Exhibition program for 1995:

Until 28 May: Print Show - 5 School Exchange Portfolio. University of Wollongong; University of Florida, Gainsville; 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.

# What's On

## AIDS Prevention Awareness Week

24 May: 11.30am-3.30pm, Union Bistro, exhibition by Sue Barnet.
12.30-1.30pm, Hope Theatre, Hypothetical – Chair Professor Goldring, Dean, Faculty of Law – 'Safe Sex. Whose Problem? Whose Responsibility?'
12.30pm, Amphitheatre, 'All My Honey Sunsets'.
4.30pm, Union Bistro, video 'Stories from the Quilt' for staff. Wine and cheese afterwards.

25 May: 11.30am-1.30pm, Union Bistro, exhibition by Sue Barnet.
12.30-1.30pm, Market Day, organised by Union.
1.30pm and 3.30pm, Union Bistro, 'Stories from the Quilt' for students.
12.30pm, Union Hall, Film 'Philadelphia', free, sponsored by Uni Movies,
12.35pm, Creative Arts Music Auditorium, Art of Lunch, 'All My Honey Sunsets'.

26 May: 12.30pm, Union Common Room, 'All My Honey Sunsets'.
11.30-3.30pm, Union Bistro, exhibition by Sue Barnet.

All week:

- Information pamphlets available in Union outside Caf-The Fish Bowl.
- Library display of ACON and HIV prevention posters.
- Library lunchtime workshops – CD ROM screenings on 'Spreading AIDS'. Registration necessary. Book in advance at the Information Desk. 30 students/staff per session.
- Everywhere 'Wandering Condominiums' collecting money for Illawarra AIDS Task Force for people living with AIDS in the Illawarra region

Inquiries: University Counselling Service, Second Floor, Union Building, phone: 213 445.

## Cell and Molecular Evening Seminar Series

Conducted by the Department of Biological Sciences and Biological Macromolecules Research Centre

7 August: Professor Rolland Skollay (Centenary Institute), The Life Technologies seminar on T cell immunology.

14 August: Dr Simon Easterbrook Smith (University of Sydney), The BioRad seminar on complement regulation.

11 September: Professor Adrian Gibbs (Australian National University), The Bresatec seminar on virus evolution.

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

Inquiries, phone: (042) 213 013, fax: (042) 214 135.

# Stop Press

**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.**