Number 3, 1996

UNIVERSITY OF WOLLONGONG

Wednesday, 28 February

CAMPUS NEWS

Signatories to the agreement after the historic signing

Agreement with South-Eastern Sydney Area Health Service

A memorandum of understanding has been signed linking the South-Eastern Sydney Area Health Service and the University of Wollongong.

This linkage will prove of particular value to the Management Development Program of the service and the Postgraduate Health Policy and Management Program of the Department of Public Health and Nutrition.

Signatories to the memorandum, were Chief Executive Officer South Eastern Sydney Area Health Service, Dr John Campbell; Director, Southern Sydney Conference Centre, Ms Barbara Scheutrim; Dean, Faculty of Health and Behavioural Sciences, Professor Charles Watson; and Coordinator, Health Policy and Management Program, University of Wollongong, Ms Mary Harris.

Other people participating in the signing ceremony included Area Director of Nursing and Community Services, Ms Rita Creegan; Senior Training and Development Consultant, Ms Robyn Fisher; General Manager, the St George Hospital and Associate Professor, Dr Chris Kennedy; and Head, Department of Public Health and Nutrition, Associate Professor Ross Harris.

The service has an extensive, high quality staff development program for its managers.

The professional development modules offered by the service include an assessment of each manager's performance in several core competencies, involving self-assessment and peer assessment.

The memorandum of understanding facilitates the articulation of the professional development modules offered by the service with the award courses offered by the University of Wollongong in health policy and management.

Potential benefits of the partnership include:

- Opportunity to pursue collaborative research and service evaluation projects;
- Enhancement of the service's objective to develop a high quality learning organisation; and
- Enrolment by the University of appropriately experienced and qualified candidates in postgraduate award courses.

This is a beautiful campus. Help to keep it clean

A new phase in equity for University

After the restructuring of the academic support services reporting to the Pro Vice-Chancellor (Academic) a new position has been created within the Dean of Students Office.

The position is Manager Student Equity and it has been accepted by Maxine Lacey, who started in that role on 26 February.

The creation of this position signals a new phase in the University's development of its student equity programs and profile, and formalises a role that had been shared informally between the Dean of Students, the EEO Unit and the Access and Equity Consultative Group.

It acknowledges the growing responsibilities in this area and underlines the University's commitment to provide the highest quality academic environment for its diverse range of students. The main responsibilities of the position will relate to:

- development of the University's Equity Plan (as required annually by DEET);
- assistance to the Dean of Students in the prevention/management of student grievances and the monitoring of grievance procedures in relation to students;
- assisting faculties to develop equity strategies and programs for students;
- developing educational support networks and training programs and materials in relation to student equity matters and student/staff equity issues;
- supervising the Student Disability Adviser and the Regional Disability Liaison Officer and overseeing the Disability Action Plan;
- providing advice and assistance to units on the development, implementation and evaluation of access and equity programs.

THE ANNUAL GENERAL MEETING OF THE

UNIVERSITY OF WOLLONGONG ALUMNI ASSOCIATION INC

will be held on

Saturday 9 March
6.00pm-7.30pm

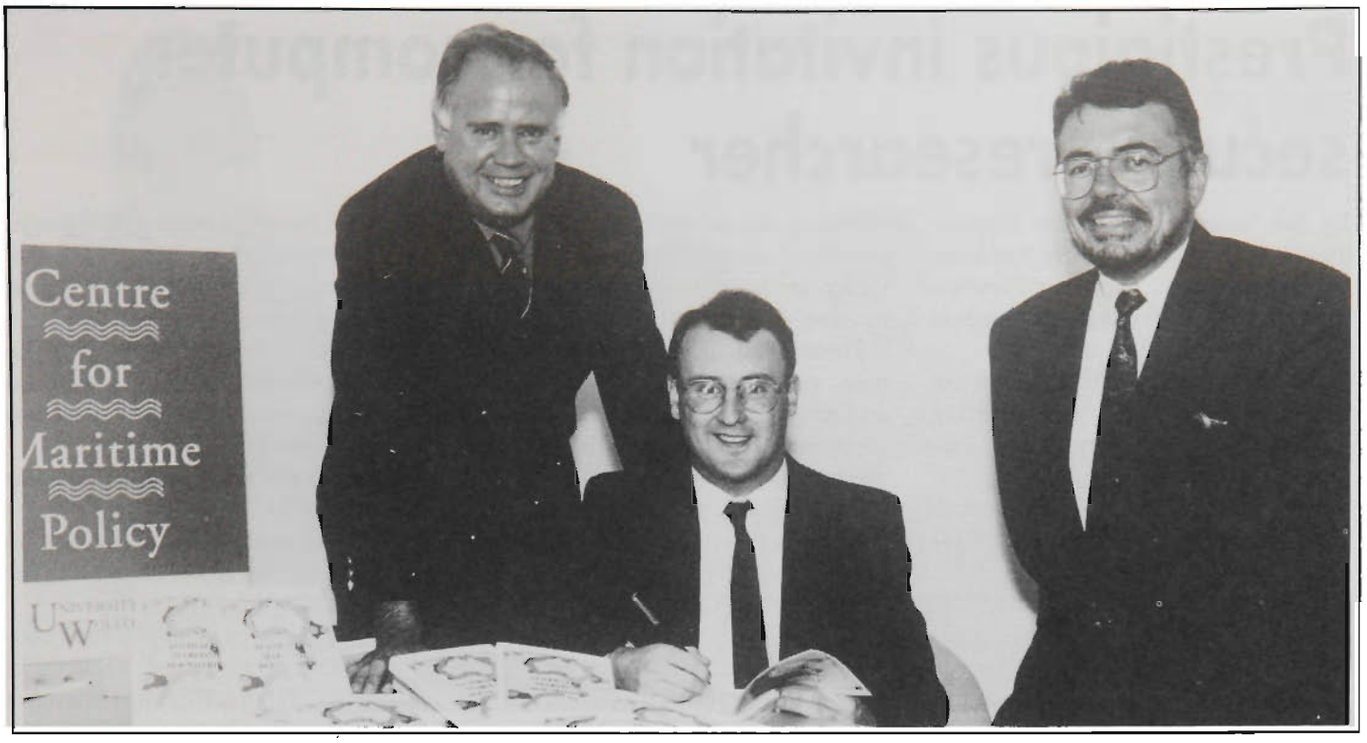
in Lecture Theatre 104, Level 1, McKinnon Building (Bld 67)
at the western end of campus

GUEST SPEAKER:
Dr Dale Spender AM
Dale Spender and her sister Lynne both graduated with MA(Hons) in 1972 as the University's first female masters graduates. Dale is now well-known as a researcher, writer, editor, broadcaster and teacher, and will undoubtedly touch on her current interest in the Internet and information technology during her talk.

Light refreshments will be served afterwards in the Food for Thought Restaurant, also on Level 1 of the McKinnon Building.

Four of the Alumni Association's Chapters (Campus, Commerce, Education and Engineering) will hold their AGMs at 5.30pm, immediately before the main meeting. Details are being sent to the relevant members.

If you wish to attend, contact the Alumni Office before Tuesday 5 March.
Tel: (042) 213 249 or 213 169; Fax: (042) 214 299.



Sam Bateman, from the Centre for Maritime Policy, author Stuart Kaye and Commodore Willis, Officer in Charge of the Australian Hydrographic Office at the launch

Timely publication of maritime boundary book

The book *Australia's Maritime Boundaries* by Stuart Kaye was launched on 16 February .

It is the latest in the series of Wollongong papers on Maritime Policy published by the Centre for Maritime Policy.

Australia's Maritime Boundaries is a comprehensive and contemporary review of issues associated with the determination of Australia's maritime boundaries, and the geographical limits of Australia's jurisdiction at sea.

It is an essential reference for anyone concerned with Australia's offshore rights and responsibilities.

Its author, Stuart Kaye, is a lecturer in Law at the University of Tasmania and was a research fellow at Dalhousie University in Canada.

The book launch was conducted by the Hydrographer RAN, Commodore Bob Willis.

Commodore Willis recently took up his posting in charge of the Australian Hydrographic Service with his headquarters at the Hydrographic Office in Wollongong.

The publication of this book is timely in view of the greater attention being paid in Australia to offshore areas.

This attention is reflected in the announcement by the Prime Minister in December 1995 of the Government's plans to develop a national oceans policy.

Australia has some of the most extensive maritime boundaries in the world.

These boundaries determine the extent of Australia's jurisdiction in areas where such jurisdiction potentially overlaps that of our neighbours.

Indonesia, Papua New Guinea, New Zealand, the Solomon Islands and France are the countries with which Australia needs to agree on maritime boundaries.

Some of these boundaries have been agreed while others have not.

New CRC Executive Director

The Board of Directors of the Cooperative Research Centre for Materials Welding and Joining has announced the appointment of Mr Leigh Fletcher as the next Executive Director.

Mr Fletcher is well known in the Australian and international welding community and was manager of the Pipeline Research Centre of Tubemakers in Melbourne.

Mr Fletcher has been an active member of the Welding Technology Institute of Australia, a Core Partner of the CRC and is Vice President and President elect of WTIA.

He has played an active role in both WTIA and the CRC, having served as chairman of the WTIA Research Board and a member of the Research Advisory Committee of the CRC.

As Chairman of WTIA Panel 7, Pipelines, he was responsible for the significant CRC research projects in pipeline weldability and defect assessment.

Mr Fletcher will replace Dr Norman Eaton, the founding Executive Director of the CRC and who is returning to Canada after the first three years of the CRC.

Prestigious invitation for computer security researcher

Dr Rei Safavi-Naini in the Department of Computer Science has been invited to attend the Isaac Newton Institute for Mathematical Sciences in the UK from 29 April to 11 May.

The Institute is hosting the Computer Security, Cryptology and Coding Theory program during the first six months of 1996.

This Isaac Newton Institute research program will bring together people working on several related mathematical and engineering topics which are fundamental to a growing number of applications.

These applications range from payment networks through satellite TV and mobile communications to the construction of dependable distributed computer systems.

Participants will include Ross Anderson, Tom Berson, Whitfield Diffie, Peter Landrock, Roger Needham and Gus Simmons, who are among the most well-known security specialists.

Attending the Institute is a valuable opportunity to meet and exchange ideas with the best researchers from all over the world.

The Newton Institute, formally part of Cambridge University, is run as a national institute. Inaugurated in 1992, it is the first of its kind in the United Kingdom.

At a major international conference on computer security in New Orleans, USA in December last year, only two papers come from Australia. Both of these were presented by Dr Safavi-Naini.

The aim of the conference was to explore applications of the latest hardware and software tools and techniques in securing civil and military systems.

Attendees were researchers, system designers and company representatives who were presenting their work in the form of a proposal or a finished product, to various buyers of technology for civil and military sector.

War was the subject of a plenary discussion.

Dr Safavi-Naini said that how to defend national/organisational/personal interest in an information world integrated by superhighways is what has made security one of the four main requirements of a computer system these days.

Dr Safavi-Naini's major paper was titled 'A secure voting protocol using threshold schemes'.

It was co-authored by A. Baraani-Dastjerdi and J. Pieprzyk.

A second paper, a short position paper on 'Micropayment schemes for multimedia applications', was presented to a conference workshop on Electronic Commerce.

The latter paper was co-authored by S. Bakhtiari, P. Beadle and R. Gonzales.

Both presentations were received well.

UNIVERSITY OF WOLLONGONG

STUDY ABROAD OFFICE

AUTUMN SESSION 1996

STUDENT EXCHANGE PROGRAM INFORMATION SESSIONS

The following information sessions for students interested in the Student Exchange Program will take place at 12.30-1.30pm in the Communications Centre, Building 20, Lecture Theatre 4.

Wednesday 28 February 1996	University of California, USA; California State University, Long Beach, USA; Humboldt State University, USA; University of Illinois, Urbana-Champaign, USA; University of Colorado, Boulder, USA.
Tuesday 5 March 1996	University of Massachusetts, Amherst, USA; University of Miami, USA; University of Nebraska, Lincoln, USA; Montana State University, Bozeman, USA.
Thursday 7 March 1996	University of Exeter, UK; Université d'Orléans, France; Uppsala University, Sweden; Politecnico di Milano, Italy
Friday 8 March 1996	Council on International Education Exchange programs:- Argentina, Chile, Belgium, The Netherlands, Spain, Indonesia, Japan, Vietnam
Monday 11 March 1996	University of Alberta, Edmonton, Canada; University of Kansas, Lawrence, USA; University of North Carolina, Chapel Hill, USA; Indiana University, Bloomington, USA

Each session will include general information about the Student Exchange Program together with specific information on the universities covered in the particular session. Wollongong students who have been on exchange and exchange students from these institutions currently studying at Wollongong will be available to provide information and answer questions.

Enquiries about the Student Exchange Program should be directed to the Study Abroad Office, Ground Floor, Administration Building, telephone: (042) 213 170. Opening hours: 9am - 5pm Monday to Friday.

From left: Catriona McGurk, David Griffiths, Lynne Wright, David Simpson and Josie Castle. The sixth researcher, Ian Pirie, is absent.

Strategies to produce skilful and marketable graduates

A group of staff has been working under the auspices of the University Education Committee to study the realisation of the University's goal to produce graduates who are computer literate, information literate and statistically literate.

They have just received a $20,000 research grant from the University's Strategic Development Fund for investigating the integration of comprehensive information literacies into the University's curricula.

The effective use of information and information technologies is internationally acknowledged as essential to the development of lifelong learning skills.

Instructional methods that enhance lifelong learning depend on a student-centred approach, make use of problem-based teaching and require that students develop a more independent approach to learning.

Therefore it is a prime objective of this working group to promote the integration of comprehensive information literacies within the curricula, achieving practical outcomes for the whole University.

The researchers will be organising cross-disciplinary focus groups to assess academics' needs regarding resources and training, and to make recommendations to the University Education Committee.

This will lead to the identification of subjects where integration could be implemented on a trial basis.

As a result of the research and the outcomes of focus groups, the group plans to develop an effective model for integration.

The principal researcher is Catriona McGurk, who can be contacted on extension 3332, or by email. Any other members of the group are happy to answer queries.

Abdul Abdullah in the Long Gallery

Master of Creative Arts student, Abdul Abdullah, has dedicated his installation 'Survival' to the indigenous people of Malaysia.

These people protested vigorously about the logging of their forests on which they depend for their livelihood and survival.

Abdul said the sincere determination and concern for the natural environment of these people is an example to us all.

He hopes that the visual images of 'Survival' will contribute to building a better understanding and bridges between the mainstream and those on the margins.

A major influence on Abdul's work has been his traditional beliefs and practices.

The focus of his imagery stems from the environment and his visual surroundings as well as political aspects of our contemporary environment.

He believes that visual creativity can be used as a form of communication and to create an awareness of different lifestyles and preferences of society.

'Survival' can be seen in the Long Gallery, Faculty of Creative Arts, from 8-17 March.

Gallery hours: Monday-Friday 9am-5pm, Sunday 1.30pm-4pm.

Enquiries: (042) 213 996.

Developments in humanoid robotics

The concept of humanoid robots sounds futuristic, the stuff of science fiction writers like Isaac Asimov.

But Dr Yasuo Kuniyoshi feels that we can learn a lot about robotics by looking at human intelligence, behaviour and movement, and trying to mimic it. In other words, by developing a humanoid robot.

Dr Kuniyoshi is a visiting Senior Fellow at the University of Wollongong.

In Japan he leads the Cognitive Robotics Group in the Autonomous Systems Section, Intelligent Systems Division of Electrotechnical Laboratory, Agency for Industrial Science and Technology (AIST) in the Ministry of International Trade and Industry .

The University of Wollongong has strong links with AIST, and Dr Kuniyoshi's visit is sponsored by the Australian and Japanese governments.

He is working with Dr Alexander Zelinsky, who has spent many years working in Japan, in the University of Wollongong's Intelligent Robotics Laboratory.

'A humanoid robot will take some time to build, but we have made a lot of progress by breaking the task down into smaller sub-programs,' Dr Kuniyoshi said.

'We are working, for example, on a system that can observe a task, recognise the action and copy it in a different workspace.

'Normally, assembly line robots have to be painstakingly set up to do a specific task, with each robot being individually programmed.

'We are designing robots that can observe either a human instructor or another robot, work out what is being done, and mimic this behaviour, all without explicitly communicating.

'Humans learn by observation, why not robots?

'Other components we are working on include: developing mobile robots that can cooperate by observing each other and offering appropriate help - much in the same way that a human will, without asking, open a door for someone with an armful of books; and robots that can navigate through an unknown environment, defining landmarks as they go.

'The type of mapping we are using is very flexible, which means that if the layout of the room changes, the robot can cope.

'Also we have developed a binocular active vision system that is equipped with specially-designed optical lenses.

'Lens calibration and gaze control are learned through self-exploration, and the system is capable of real-time target tracking and grabbing, something that is surprisingly difficult for a robot.'

But why humanoid, rather than just intelligent, robots?

'Learning about how humans do things, and developing robots that can mimic them, actually teaches us a lot about how humans make sense of the world,' Dr Kuniyoshi said.

'At first sight, building a robot that mimics humans appears to have few applications, but if we can achieve it, than we will have robots that can do tasks that are not pre-programmed and well defined.

'For example, when a human carries out repeated actions, each one is slightly different, although it is still the same task.

'Studying the reasons for this gives us insights into the way that humans learn and perform tasks.'

Dr Zelinsky, whose specialty is intelligent mobile robotics and cooperative robotics, said: 'Our laboratories are collaborating on many of these projects.

'Dr Kuniyoshi is one of the key young players in the world in this field, and he has won many awards for his work.

'He will be here for about a month, brainstorming ideas and keeping us in touch with his latest work.'

Dr Kuniyoshi said he is strongly pursuing an integrated approach, including a humanoid robot system, with visual, auditory, and motion learning.

'My ultimate goal is to build a child-sized humanoid, which starts off with random body motions and noises and gradually learns to mimic actions and sounds at higher levels,' he said.

During his visit Dr Kuniyoshi gave a public lecture entitled 'Robots that Watch, Learn, and Cooperate'.

long **gallery**

UNIVERSITY OF WOLLONGONG FACULTY OF CREATIVE ARTS

ABDUL ABDULLAH

INSTALLATION AND PERFORMANCE OF RECENT WORK

TO BE OPENED BY PROFESSOR SHARON BELL
DEAN FACULTY OF CREATIVE ARTS

FRIDAY 8 MARCH 1996 AT 12.30PM
EXHIBITION CONTINUES TO 17 MARCH

Gallery hours: Monday-Friday 9am-5pm Sunday 1.30-4pm
Enquiries: (042) 213 996

University rugby union Mallee Bulls begin training

After a highly successful 1995 season when all five grades including the women's team made the semi-finals and the club received the University club of the year from 25 other clubs, University has begun training on Tuesday and Thursday nights at 6.30pm at University Oval.

The club is seeking new players, who do not have to be a Uni. student.

The club has an outstanding coaching staff with exceptional credentials. They include:

First grade: Peter Rowles, former Australian player and Level 2 coach.

Second grade: Paul Kipp, Physical Education teacher, Illawarra Academy of Sport coach and Level 2 coach.

Third Grade: Simon Iliffe, former Illawarra player and Level 1 coach.

Under 19: Glenn McGuiness, South Coast Primary Schools and coaching course presenter.

Women's: Marcus Caton, Level 2 coach.

The club again will be offering scholarships to players to meet tertiary expenses (e.g. University and any other post-secondary course). This includes fees, books etc.

The closing date is 31 March and players should include a copy of their sporting background and the names of two referees to Dr. Paul Webb, Faculty of Education, University of Wollongong, Wollongong 2522. His phone is: (042) 213 373.

The club is also increasing its administration skills by having five members attend a Sports Administration Level 1 course.

Any prospective players can contact Dr Webb.

University of Wollongong Rugby Club

Rugby Scholarships for 1996

The University of Wollongong Rugby Club is offering a number of rugby scholarships for university and other tertiary students in 1996. These scholarships, ranging in value from $400 to $1500, will be used to meet educational expenses.

Applicants should include a copy of their Curriculum Vitae/Playing Record plus the contact details of two referees.
The closing date for applications is 31 March 1996.

Applications should be forwarded to:
Dr Paul Webb, President,
University of Wollongong Rugby Club,
c/- Faculty of Education,
University of Wollongong
Northfields Avenue
WOLLONGONG NSW 2522.

Further details can be obtained from either
Dr Paul Webb (042) 21 3887 or
Canio Fierravanti (042) 268822.

General

Meeting dates for the Human Research Ethics Committee and the Animal Ethics Committee for this year are: Human Research Ethics Committee: 19 March, 23 April, 21 May, 23 July, 20 August, 22 October, 19 November, 17 December. Animal Ethics Committee: 22 May, 21 August, 20 November. Agenda items are due two weeks before meetings. Enquiries Karen McRae, Office of Research, by email or on ext. 4457 on Tuesday, Wednesday or Thursday.

Creative Arts

Creative Arts productions '96
Each year students and staff in the Faculty of Creative Arts produce a diverse range of performances. They are presented in numerous venues across the campus depending on the nature of the performance.
Following is the provisional timetable for this year. Watch *Campus News* for confirmation and more details.
'Lion in Winter' – 27-30 March, director Ian McGrath, Hope Theatre Apron.
'Music-Theatre, Lillian Helman's 'Children's Hour' – 15- 18 May, director Houston Dunleavy. Performance Space, north-western end of Campus.
'Graduation Production' – 11-14 September, Hope Theatre and 18-21 September, Newtown HSPA, director Janys Hayes, producer Jeff Kevin and assistant producer Jacqui Clarke.
'Stretching Exercise' – 5-8 June, directed by Janys Hayes and/or Jeff Kevin, Black Box Production, Hope Theatre.
'Classic Production' (Shakespeare, Marlowe, Jonson etc) – 23-26 October, directed by John Senczuk and Jeff Kevin, Performance Space, Black Box Production.
'Australian One-Act Plays or excerpts' – 4- 8 November, Kate Newey, Sharon Bell, Peter Shepherd possibly to direct. Performance Space.

What's On

Derrick, get off the florist!

'Derrick, Get Off The Florist' by second-year Creative Arts student Scott Bradburn, is a black comedy about a hypertensive florist and Derrick, the manic-depressive he meets on top of a cliff.

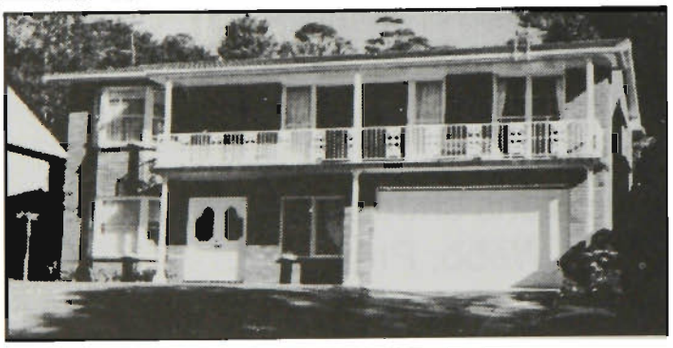
It is part of the Playwright's Workshop which was the joint initiative of lecturers in Theatre and Creative Writing from the Faculty of Creative Arts, Janys Hayes and Clem Gorman.

It is a summer session program which aims to develop new scripts by student writers through a process of readings and rehearsed workshop performances by acting students.

Performances have been happening in the Amphitheatre (outside building 36). You can still catch this performance at 7.30pm on 28, 29 February and 1 March. All welcome. Admission is free, but donations will be appreciated.

PAID ADVERTISEMENT

FOR SALE



• KEIRAVILLE •

Outstanding panoramic views over city to coastline from this large 5 bedroom 2 storey family home.

- Rumpus room
- In-ground pool
- Double garage
- Ensuite
- Formal dining room
- Family sized kitchen
- Breakfast/casual meals area
- Five bedrooms + study
- It's got the lot!

Elevated sought after quiet street with bushland backdrop. If you like bay windows, colonial columns, solid brick and tile construction. Priced to sell at $299,00

Look no further than this high capital gain area.

McPhail REAL ESTATE

Contact: David Meikle
65 Market St. Wollongong
29 9877

Stop Press

Toastmasters Group

The University of Wollongong Toastmasters group next meetings: Tuesday 5/3/96 and Tuesday 19/3/96 at 7:30pm in room 20.5 (Communications Building)

The University club is in the process of being established and new members are very welcome. You can just come along and observe.

Enquiries to Neil Harper on 213772 or Jan James on 213562

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 3500. 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.