

# CAMPUS NEWS

## School of Geosciences established

### Appointment of Professor

In 1991 the joint review of the Departments of Geology and Geography recommended discussions regarding the development of closer links between the two departments.

This has led to the establishment of a School of Geosciences which will contain the staffing and subject offerings of the two departments, Geology and Geography.

The School of Geosciences is considered to be a more coherent and effective structure that will link the compatible and often overlapping concerns of the two departments and enhance the University's teaching and research programs in the earth sciences.

Professor Allan Chivas has accepted appointment as Professor of the new School of Geosciences. He has also been appointed inaugural Head of this new school for four years.

Professor Chivas is currently Head of the Environmental Geochemistry Group within the Research School of Earth Sciences at the Australian National University.

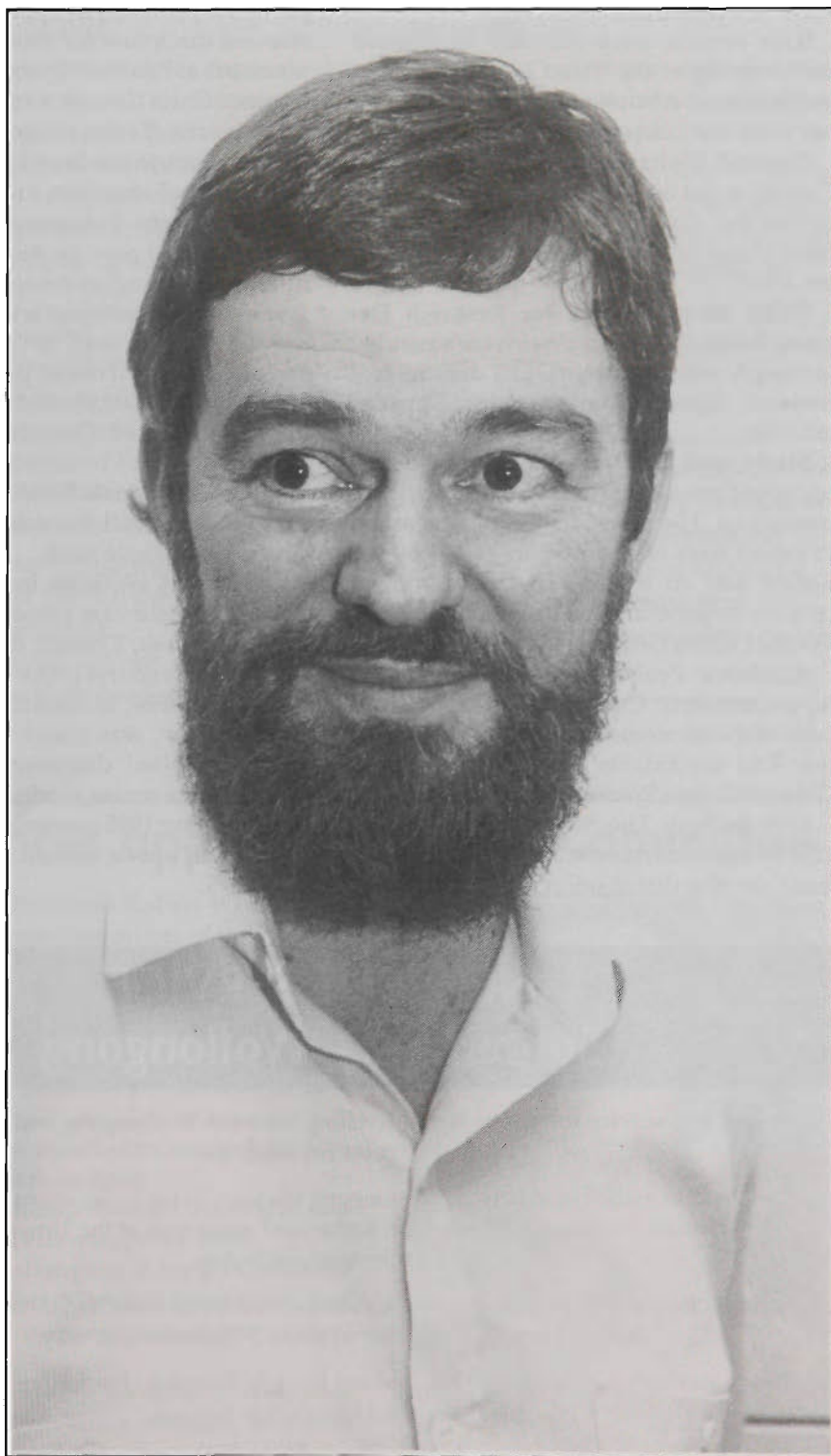
He was the foundation appointee to this group and has been responsible for its academic leadership and the development of its international reputation as well as the establishment of 12 operating laboratories.

His particular research interests are in low-temperature Earth-surface processes which commonly have societal implications and span areas of geochemistry, geology and geography.

He is enthusiastic about the establishment of the School of Geosciences.

'My vision is for a school which emphasises a holistic approach to the study of the earth, its resources and problems, and with strong links to other scientific disciplines,' he said.

He will take up this appointment in late June.



*Professor of the new School of Geosciences, Professor Allan Chivas.*

*NOTE: The edited minutes of the December meeting are available on the Public Information Server under "Agendas and Minutes". Where possible, the contact numbers of officers able to provide information on the items are provided below.*

At its December meeting, Council farewelled Professor Ken McKinnon after his 14 years of membership as Vice-Chancellor of the University.

In recognition of his 'outstanding service and achievement' and the role he played 'in the history and development of the campus', Council awarded Professor McKinnon an Emeritus Professorship of the University and officially named the building known as 'Keira View' the McKinnon Building.

Both awards were officially announced that evening at the Vice-Chancellor's farewell function. Also on the agenda for December were the following items:

**Council Visits to Faculties and Units:** Council noted that the visits would take place before the Council meetings for approximately one hour. Contact: Lynn Woodley, ext 3360.

**DEET Requirements for Research Degrees:** Several degree courses were amended to comply with the recent DEET definition of research degrees. Contact: Aapo Skorulis, ext 3386.

**Study and Conference Leave:** Council approved revised study and conference leave conditions. The Vice-Chancellor was asked to report back on the matters raised by the Senate and on training and development options for general as well as academic staff. Contact: Chris Grange, ext 3929.

**Academic Promotions and Continuing Appointments Committee:** Council approved the recommendations of the committee. The candidates have been notified. Contact: Robyn Weekes, ext 3929.

**1995 Budget:** The final summary of the 1995 Budget was received. It included a statement on the distribution of development

## Council News

funds. Contact: Susan Smith, ext 3919.

**Professorial Superannuation Scheme:** The 1995 financial statements were approved for submission to the Auditor-General. Contact: Susan Smith, ext 3919.

**SRC Budget 1995:** The Budget was approved with no fee increases for 1995. Contact: SRC Office, ext 4206.

**Professor of Public Health:** Professor Christine Ewan, Pro Vice-Chancellor (Academic), was appointed officially to a professorial position in her field. The Vice-Chancellor was asked to report on the policy for professorial appointments in the relevant discipline for those holding positions such as Pro Vice-Chancellor and Dean. Contact: Chris Grange, ext 3929.

**Illawarra Technology Corporation:** Nominations to the Board were approved. Contact: Jim Langridge, ext 5800.

**Replacement Testamurs:** Replacement testamurs will now be the same size (but different wording) as the original testamur. A replacement testamur will be issued after loss or damage and, in limited circumstances, change of name, provided that the statutory declarations and supporting evidence is produced. Contact: Kim Roser, ext 4136.

**Chair in Materials Welding and Joining:** Council approved the establishment of a Chair in the above field.

**Graduate Certificate in Legal Practice:** After noting the case presented by student representatives, Council deferred consideration of the course proposal. The Deputy Vice-Chancellor, in consultation with the Dean of Law, was asked to bring back a 'business plan' discussing options for mounting the course, for discussion at Council's February 1995 meeting. As a result, the course will not be offered in Autumn session 1995.

## Academy of Management to meet in Wollongong

The 1994 Australia New Zealand Academy of Management conference was held in Wellington, New Zealand in December.

Representatives from the University of Wollongong gave five papers or presentations and returned home with the academy's agreement to locate the conference in Wollongong in 1986.

## Special award from Apple

The Interactive Multimedia Learning Unit in the Faculty of Education was presented with a special award in December for leadership and innovation by Apple Computing.

The award was the result of favourable responses in Australia and the US to the CD multimedia package 'Investigating Lake Illuka' which was developed by the unit.

It was presented during the Innovative Technology Schools Conference.

The University of Wollongong has had a long-standing relationship with Apple Computing Australia which has resulted in the University playing a key role in the early use and testing of Apple software products.

The Innovative Technology Schools Conference (previously known as the The Technology High Schools Conference) is a venture between Apple, the University of Wollongong, and teachers from around Australia.

The sixth annual conference in December catered for up to 170 delegates including high school principals, teachers, software developers, university academics and schools' consultants.

Held each year at the University of Wollongong, this conference has become a landmark in the technology calendar for many teachers.

## NEW BUS SERVICE Sutherland – Wollongong

**A new bus service for commuters travelling between Wollongong and Sutherland will start on February 22.**

Designed to assist University of Wollongong students living in Southern Sydney and Illawarra commuters, buses from Sutherland will arrive at the University in time for lectures each day.

The pick-up points in Sydney will be railway stations en route to Sutherland. This direct service should take approx. 50 minutes one way.

Times and pick-up points will be finalised in early February. For further information please contact Dion's Bus Service.

Tel 042 - 28 9860.

# Landfills and agriculture contribute to Greenhouse gases

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The greenhouse gases methane and nitrous oxide have mainly biological sources in soils, wetlands and the guts of animals. They are not very well understood or quantified.

In late 1994, members of the Environmental Chemistry Research Group took part in two extended field campaigns to measure the rates of emissions of greenhouse gases from a municipal waste land fill and an agricultural environment.

Associate Professor David Griffith, Dr Ian Jamie and Mr Fred Turatti have developed a mobile, dual-beam Fourier transform infra-red spectrometer for fast, high-precision measurements of such atmospheric trace gas concentrations.

The system is housed in a caravan and combines with micrometeorological sampling techniques in collaboration with external group colleagues Dr Tom Denmead and Dr Ray Leuning of the CSIRO Centre for Environmental Mechanics.

The first set of measurements was at the Mugga Lane tip in Canberra.

Emissions of methane and carbon dioxide were recorded for two weeks in August 1994.

Preliminary analysis suggests that the total emission of methane from the landfill is of the order of 10kg methane per tonne of refuse per year.

If this is typical of other landfills, municipal waste could account for up to 10 percent of all global methane sources.

The second set of measurements was in an agricultural environment at Charles Sturt University at Wagga Wagga as part of OASIS, a large-scale investigation of the exchange of heat, water and trace gases between the atmosphere and the earth's surface.

Measurements were made continuously for the three-week duration of the experiment.

Fluxes of nitrous oxide were initially very low because of the drought

and consequent low level of biological activity, but after a heavy thunderstorm near the end of the period, significant nitrous oxide emissions began to occur.

Methane emissions were detected continuously from the cattle and sheep around the landscape.

The group plans further measurements in these and other ecosystems which contribute significantly to atmospheric trace gas budgets.

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*This is the first of a weekly series of articles provided by members of the Environment Research Institute to give an overview of the wide range of research activities being undertaken by the Institute*

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## Head of Biological Sciences appointed to ARC Committee

Head of the Department of Biological Sciences, Professor Robert Whelan, has been appointed to the Research Training and Careers Committee of the Australian Research Council (ARC).

The committee coordinates the allocation of funds for Postdoctorate Research Fellowships, Queen Elizabeth II Fellowships, Australian Research Fellowships and Senior Research Fellowships.

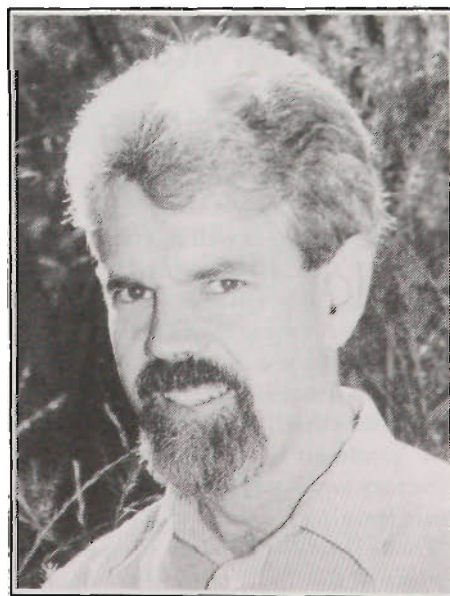
The committee is responsible for \$4.9 million in funds allocated to 85 new Research Fellowships in 1995.

This includes five Senior Research Fellowships awarded to researchers who have made the most outstanding contributions in their field.

The Universities of Adelaide, NSW, Queensland, Western Australia and Wollongong were awarded the Senior Research Fellowships for 1995.

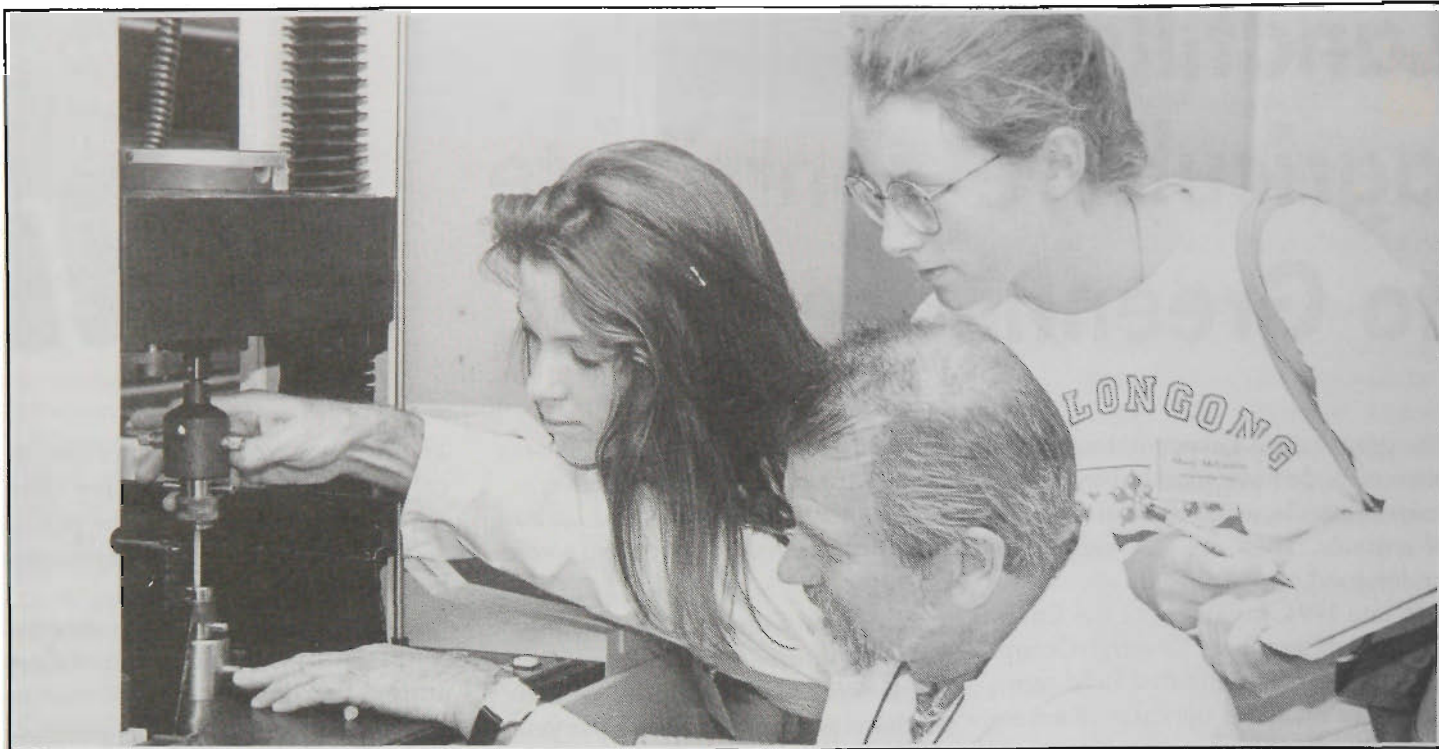
The Senior Research Fellowship awarded to Wollongong is for the Centre for Superconducting and Electronic Materials project 'Ceramic processing and fundamental study of high-Tc superconductors for energy storage and nuclear magnetic resonance applications'.

The University has other members of staff serving on ARC committees: Professor Hugh Bradlow is a member of the University-Industry Research Collaboration Committee and Professor John Bremner is a member of the Research Grants Committee.



Professor Robert Whelan





*Tensile testing in Materials engineering (from left): Lisa Mitchell, Caringbah High School (Southern Sydney); Max Cunningham, Professional Officer, Department of Materials Engineering; Mary McLaurin, Billabong High School (near Albury).*

## Girls in Engineering Summer School

The fourth Girls in Engineering Summer School was held at the University from 15-18 January.

Girls from schools across NSW and the ACT who showed interest in engineering as a career and who are entering Year 11 in 1995 were encouraged to apply.

The three-day residential Summer School was attended by 86 girls free of charge as sponsorship was provided by the Faculty of Engineering and generous donations from the RTA Southern Region, Water Board, The Illawarra Technology Corpo-

ration Limited, Property Services Group, BHP Slab and Plate Products Division, Illawarra Electricity, BHP Engineering, Kembla Coal and Coke Pty Ltd, Scobie and Glover and Metropolitan Collieries Ltd.

During the Summer School the participants stayed at International House and attended the University each day.

This gave the girls a chance to experience life on campus, as many came from isolated areas of the state and had never seen a university before.

They came from a wide range of

high schools across the Riverina, Central and Southern Tablelands, the Blue Mountains and the far South Coast as well as from the Illawarra and Sydney's western and southern suburbs.

Four groups of girls participated in workshops in four disciplines of Engineering – Civil and Mining, Mechanical, Electrical and Materials.

They also experienced laboratory work, toured the BHP steelworks on 17 January and visited the Science Centre at Campus East.

Sixty-one participants from the 1992 and 1993 Girls in Engineering Summer Schools were recently surveyed.

Thirty had left school and were attending University, 21 were awaiting HSC results and 10 had chosen other careers. Of the 30 attending University, eight had enrolled at the University of Wollongong, four in engineering and four in science-related subjects.

Of the 21 girls who have recently received their HSC results, nine indicated they intend studying engineering, while three said they were seeking to enrol in courses in the sciences.

The Faculty of Engineering is encouraged by these initial figures and, with continued industry support, intends to foster the tradition of the Girls in Summer Engineering Summer School as an annual event.

## Campus services directory to be established

In response to staff and student enquiries for an up-to-date directory of services available across the campus, ITS, the Union and university administration are supporting the establishment of a new service on the Campus Wide Information Service (CWIS).

This new service will in effect become the electronic uni yellow pages and will be accessible via Mosaic and Netscape.

The directory will allow for units, faculties, departments and groups across campus to promote those services that they offer to staff and students.

The directory will be designed with the users in mind, with an easy-find style index and the ability to support colour graphics should they be required. The only cost to users will be the time that it will take to prepare the entry for the directory.

A hands-on training session will be conducted by ITS staff to explain the directory and how to prepare entries and keep them up to date. It is envisaged that these training sessions will be run monthly until they are no longer in demand.

Those interested in knowing more about the new directory or wishing to book a place at the first training session on Monday 13 February should call Wendy Smith, ext. 3191.



# 'Why' campaign has an effect



*The Faculty of Health and Behavioural Sciences handled a steady stream of enquiries at the Information Session.*

The University ran a 'Why Wollongong? Come and see for yourself' campaign during January through TV, newspapers and direct mail.

Many prospective students and their parents expressed their appreciation at the range of opportunities the University had organised to provide them with information during the week between receiving the HSC result and the last day for change of preferences.

During the week students were able to go on campus tours, attend an information session, phone in on a general enquiries number or talk to an adviser at the University Centre in Sydney.

Five hundred and sixty-two students and parents went on campus tours and around 400 attended the information session.

The quality of the students taking up these opportunities was generally high and an analysis has shown many changed their preferences to favour Wollongong.

Health and Behavioural Sciences and Arts were particularly busy taking enquiries.



*Di Kelly from the Department of Economics made sure students really understood what was ahead of them*

Main Round offers were released by the Universities and Colleges Admissions Centre on 27 January.

Enrolment of new students will take place between Tuesday 31 January

and Monday 6 February.

Students were notified the time and date they have to attend depending on the course in which they have been offered a place.





## Hands-on Science School for Year 10 students

The University of Wollongong was one of 27 venues across Australia for the 1995 Siemens Science Schools for Year 10 Students held for three days from 17 January.

The schools are held to broaden students' knowledge of science and technology as they move into Year 10 and have to make important decisions about electives.

In order to fascinate 15-year-olds, programs combined stimulating lecture material by first class communicators with hands-on practical work and site visits.

Enrolments this year at Wollongong totalled 55 and

include approximately equal numbers of males and females from across the state.

Students attended a Magic Chemistry Show, toured BHP to see the Environmental Division and their work on controlling pollution, had a fitness assessment and participated in activities in Geography, Geology, Physics, Chemistry and Biology.

The group seen here collected samples from the duck pond and took them back to the laboratories in Biological Sciences for identification.

## Technology and health care in the 21st century

The Faculty of Informatics at the University of Wollongong is organising the fourth Health Informatics Association of NSW Conference (HIANSW'95) on 11-12 February at the Oasis Resort, Primbee.

The association has always aimed to provide a forum for the acquisition of information on developments in information technology and the dissemination of this information to health care professionals, thus providing technical and educational support through seminars, tutorials, conferences and documentation.

The theme for the conference is 'Health Care in the 21st Century - Technology bringing people together'.

The conference will cover Computerised Medical Records, General Practitioners and Information Technology, Clinical Nursing Systems,

Clinical Support Systems, New Innovations, Management Systems, Privacy and Ethics.

Keynote speakers are:

Dr Paul Collett, Medical Director, Rural Doctors Resource Network.

Topic: Relate to Communications between rural doctors in Australia with emphasis on satellite technology.

Ms Robyn Kelly, EDIS Project Manager, NSW Department of Health.

Topic: An overview of the introduction of the Emergency Department Information System in NSW.

Mr Arno Franz, Deputy General Manager, ISM, NSW Health Department.

Topic: What is driving the NSW Government's Policy in Health Information Technology.

There will be two demonstrations: Peter Black and Quisinh Tran, from the University of NSW Department

of Industrial Design, 'Prototype of Mobile Computing - Hospital Environment & Community Health Care'.

Jo Holman, Head of Medical Records, The Children's Hospital, Camperdown, 'The Allocation of ICD-9-CM codes to AN-DRGs'.

Speaker of the House of Representatives and Member for Cunningham, The Hon Stephen Martin, MP, will open the Conference on Saturday 11 February.

Dean, Faculty of Health and Behavioural Science, Professor Charles Watson, will speak at the conference dinner on Saturday 11 February.

The conference is sponsored by: Prometheus Information, Med-e-Serv, McDonnell Information Systems Pty Ltd, Pen Computing Systems Pty Ltd and Computer Power Group.

Additional information is available from Karen Williams, Conference Secretariat, phone (042) 213 606.



*Enid Sherwin of the International Friendship program on a day out with a Chinese postgraduate student and his family.*

## International Friendship Program

The University of Wollongong operates an International Friendship Program to provide cultural exchange between its International students and members of the Wollongong community.

Many International students arrive in Australia without other family members and often without any personal support or contacts in the country.

Their stay in this country can be greatly enhanced by contact with local families.

Local participants have found the experience of friendly contact with an overseas student very rewarding.

If you are learning a foreign language, have travelled overseas or intend to travel, this is a good way to learn first-hand about a particular country, culture and language and to develop a friendship at the same time!

The students come from many different countries, with the largest groups being from the United States,

India, Hong Kong, Sweden, Indonesia, Malaysia, the Pacific Islands and China, although our International students represent more than 60 different countries.

Through the IFP, participants are linked with one or two international students and encouraged to meet them two or three times during session.

Typically this would be to invite the student for a home-cooked meal, or some other simple activity such as a picnic, shopping or game of tennis.

To kick off Autumn Session, the University has organised a free wine and cheese get-together in February, so you'll get to meet your student in a friendly, informal atmosphere.

After that, it's all up to you and your student.

Hosts are urgently required for students arriving for Autumn Session.

If you would like to participate, please contact Denise Hull, International Office, University of Wollongong, phone (042) 213 173.

## What's On

### Union Activities

- 23 February: Clubs & Societies Market Day Entertainment at lunch.
- 27 February-3 March: Welcome Week.
- 28 February: Exhibition opening at Food for Thought.
- 1 March: Comedy at lunch.
- 2 March: Clubs and Societies Market Day. Entertainment at lunch. Garden Party - big band night.
- 20-21 March: Opening night for CDs - guest speaker, giveaways to launch CDs on Wollongong University campus.
- 3-7 April: Heritage Week.
- 4 April: Exhibition and smorgasbord in the Bistro.
- 6 April: Market Day with bush band.
- 27 April: Band Competition Heat 1, Uni Tavern.
- 1-5 May: International Week.
- 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.

## 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.



# FOR SALE



## Quality home in most sought-after area KEIRAVILLE

Quality family home comprising three bedrooms (all with built-in wardrobes, main with en-suite), parents retreat or fourth bedroom, rumpus, formal dining, new kitchen and huge family room.

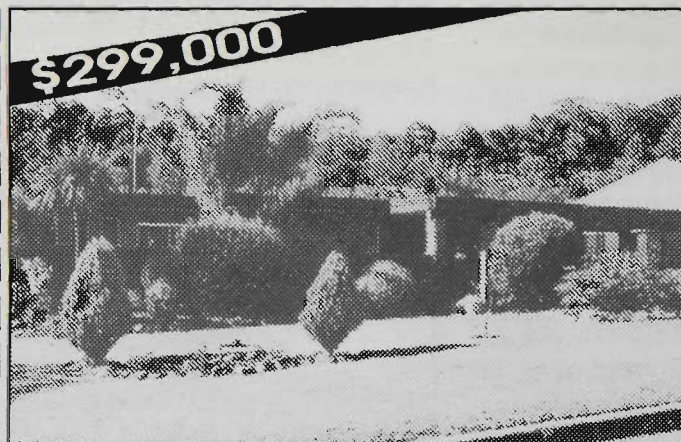
Also features in-ground pool with paved entertainment area and delightful gardens and trees. Owner transferred — must sell.

## Tranquillity and space BALGOWNIE

Nestled amongst the foothills of Balgownie in a tree-lined street is a lovely family home awaiting the growing family to buy it.

Offering four generous sized bedrooms, main with en-suite, a rumpus room for the kids and bathroom, large formal lounge and dining room, two family rooms, on either side of the brand new kitchen.

Forget the heat this summer, this home has ducted air-conditioning too. Well worth an inspection at a realistic price.



## Stunning rainforest garden setting MT PLEASANT

Architect designed single level residence, set on one third of an acre of magnificent rainforest gardens.

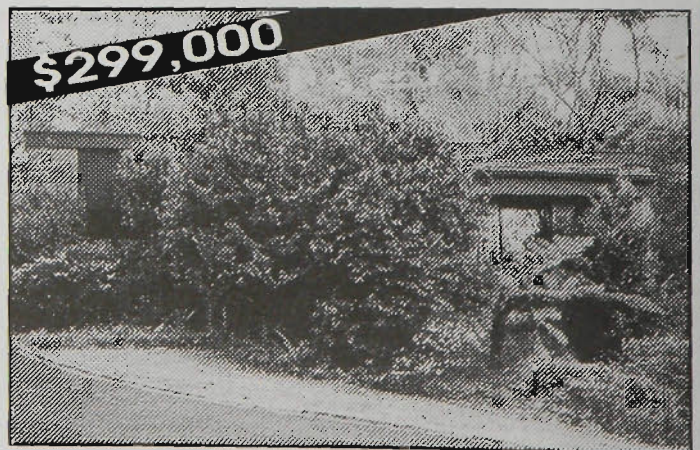
Prestige lifestyle features include generous living areas, modern decor, central court yard, three car accommodation, and tranquil bushland setting.

**CALL TODAY FOR A PRIVATE INSPECTION OF ANY OF THESE PROPERTIES OR OTHER LISTINGS NOW AVAILABLE THROUGHOUT THE ILLAWARRA**

## Irreplaceable at this price BALGOWNIE HEIGHTS

Superior architect-designed family residence featuring open plan design.

Offering four bedrooms (two with en-suites), formal lounge and dining, sunroom, two rumpus rooms, car accommodation for two cars, and magnificently large concrete in-ground pool with solar heating.



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