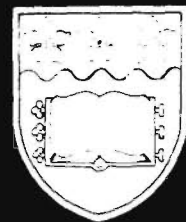


THE UNIVERSITY OF WOLLONGONG CAMPUS NEWS



November 20, 1990

Australian teams to train at pool

THE AUSTRALIAN women's water polo team and the Australian swimming team will be training at the University of Wollongong Aquatic Centre for January's world titles in Perth.

The water polo team will be finalising their preparation at the pool on November 24 and 25.

The team features Kerry Jones, a graduate from the Human Movement Department.

They will be training from 10am to noon and 4pm to 6pm on Saturday and from 9am to 11am on Sunday. Come down and see these elite athletes in action.

The swimming team will be training at the University pool from December 14-24 and staying at Weerona College.

Each day the team will be in the water from 7am to 10am and from 4pm to 8pm.

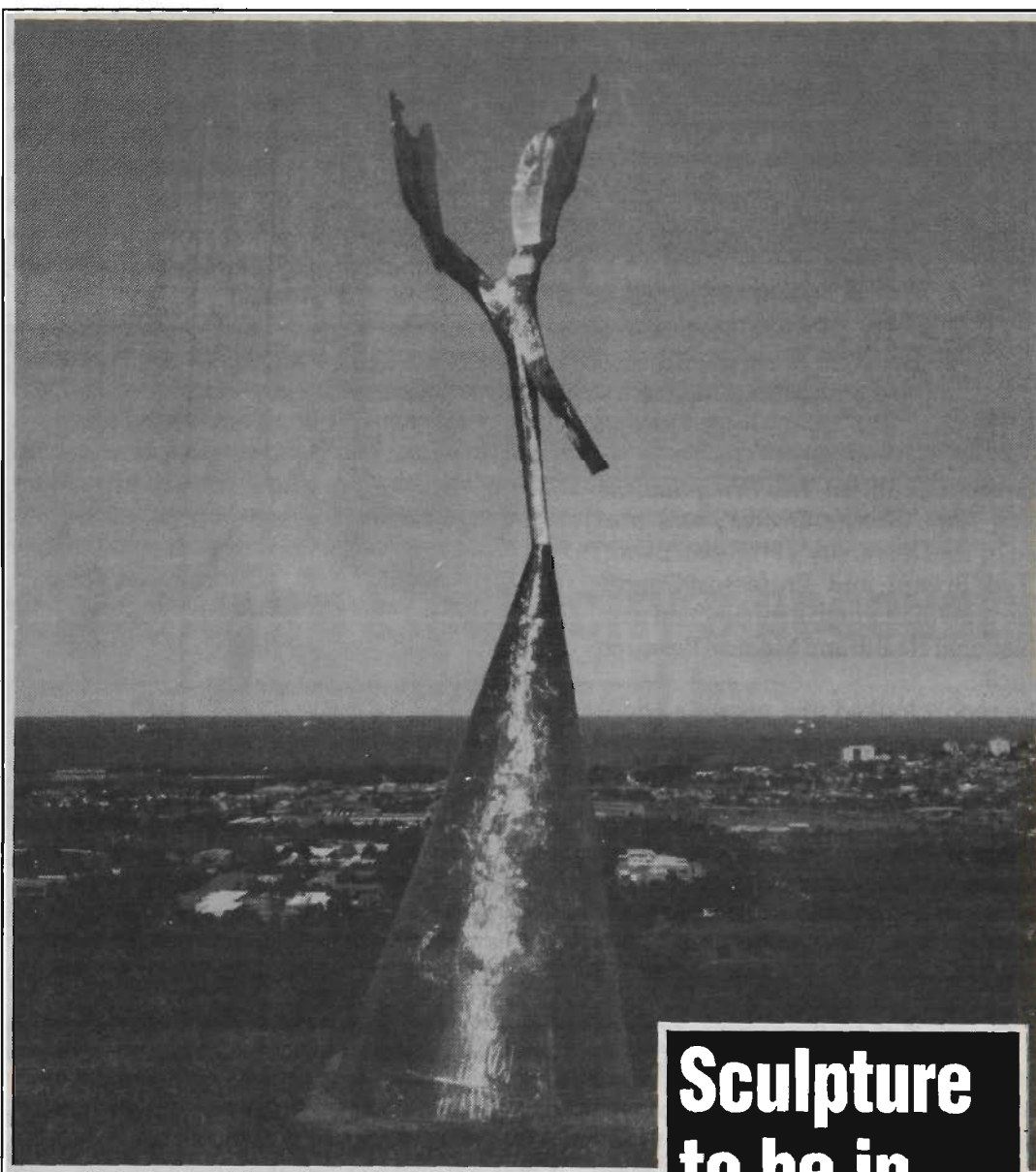
The squad includes Commonwealth Games stars Glen Housman, Haley Lewis, Julie McDonald and Andrew Baildon.

Spectators are welcome during the two teams' training, but public swimming will not be permitted.

Programmes normally held at times when the teams are training will either be cancelled or re-scheduled.

See the pool brochure stand or contact the pool office, tel. (042) 28 1266 or ext. 3361.

• **Summer events and pool survey — Page 4**



BERT Flugelman's tribute to flight — The Lawrence Hargrave Sculpture — moves into the spotlight later this month.

The Friends of the University has commissioned new spotlighting at the sculpture site. This follows extensive testing and consultation with the artist. Switch-on is Monday November 26.

Wollongong City Council aldermen and other dignitaries have been invited to join in a public tribute to Lawrence Hargrave, the Australian aviation pioneer.

Other events on the night range from hang-gliding displays, exhibitions by students from the School of Creative Arts and musical recitals.

Several thousand people are expected to visit the Campus on the night.

**Sculpture
to be in
the
spotlight**

Greenhouse researchers predict new diseases

PROFESSOR Christine Ewan of the Faculty of Health and Behavioural Sciences has warned that the Greenhouse Effect may cause the introduction of new communicable diseases.

In presenting a draft report on health problems likely to be caused by the Greenhouse Effect to the National Health and Medical Research Council, Professor Ewan said that by the year 2030 rainfall could be 50 per cent more in tropical Australia but winters in the south of the continent could be drier.

'The resulting higher temperatures and humidity and increased incidence of storms, floods and heatwaves could be a particular threat to the elderly, young children and outdoor workers,' Professor Ewan said.

'The principal impacts of the Greenhouse Effect on health are likely to be incremental increases in existing health problems with the possibility of the introduction of new communicable diseases.'

The report, entitled '*Health implications of Long-Term Climate Change*', was prepared by the University's Professor Ewan, Dr Ted Bryant and Professor Dennis Calvert at Wollongong in conjunction with the National Health and Medical Research Council.

The report looked at a possible wider spread of water-borne and mosquito-borne diseases across Australia, including Australian encephalitis, epidemic polyarthritis and dengue.

Further depletion of the ozone layer could cause more skin cancers for Australians, more damage to eyes and lowered immune response.

Given the already high incidence of sun-related skin and eye damage in Australia this is a major potential health problem.

Professor Ewan said: 'A predicted increase in natural disasters could affect coastal communities in particular, bringing property damage, clean-up expenses and social dislocation.'

She said the report also addressed a range of possible strategies for confronting health impacts of the Greenhouse Effect.

'One of the more important outcomes is the recognition that many of the predicted

impacts on health can be minimised by what are essentially engineering and basic public health measures,' Professor Ewan said.

The report indicates that close co-ordination between the three levels of government in developing responses to coastal flooding, building design disaster relief and sewage and waste disposal can have major benefit in reduction of health problems.

'Integrating health considerations into planning strategies to cope with Greenhouse-related issues is seen as a key priority,' Professor Ewan said.

The National Health and Medical Research Council released the draft report for public consultation and set a deadline of February 28 for receipt of comments.



Earth Against Heaven editor Walter Tonetto with Bob Carr at the launching

Carr launches poetry anthology

NSW Opposition leader Bob Carr launched a historic international anthology of poems published by the University of Wollongong's Five Islands Press at Parliament House last month.

Staff members Ron Pretty, senior lecturer in the School of Creative Arts, and Robert Hood, a research assistant in History, as well as Wollongong poet Debbie Westbury, make up the board of management of Five Islands Press.

The press has published nine books, most of them poetry, a form of literature that is published less and less in book form these days.

The book, *Earth Against Heaven*, which is edited by Melbourne critic Walter Tonetto, is a response to the June 4, 1989 Tiananmen Square massacre of students and pro-democracy protesters.

Contributors include major poets from Australia, the US, Britain, Canada, Japan and Europe. The Australian contributors include Manfred Jurgensen, Fay Zwicky, Jeff Guess, Peter Kocan and Les Wicks.

The book was printed by the University Printery, who did an excellent job on a complex task — and to a very tight schedule.

Campus News is published weekly on Tuesday during the academic year — with breaks at Easter and Queen's Birthday 'long weekends'
Editor and Media Contact: Gillian Curtis

Telephone (042) 27 0110

Editorial Production: Kevin McDonald

Deadline for copy is noon on Monday of the week before that of publication

Material for *Campus New* can now be sent by Microsoft Mail to Editor Gillian Curtis. The new service is not available to all staff members as yet.

Those who have the facility are urged to use it. Those who haven't been connected, material for publication can be left, preferably, on a Macintosh-formatted floppy disk, or on hard copy in the *Campus News* tray in Planning and Marketing Branch, Administration Building. All material may be reproduced without permission.

Peter Bolton heads new organisation to support 'the clever country'

DEAN OF the Faculty of Science at the University of Wollongong, Professor Peter Bolton, has been named the chairman of the new National Council of Deans of Science.

The council, formed at a four-day conference of 25 Deans of Science at the Australian National University recently, aims to support and facilitate the thrust towards 'the clever country'.

Professor Bolton said the nation's technology trade deficit and a growing need for more scientists have been recognised in recent government policies.

'The faculties of science have the task of meeting this need as well as developing an interest in science across the community,' he said. 'The Council of Deans sees many tasks as urgent.'

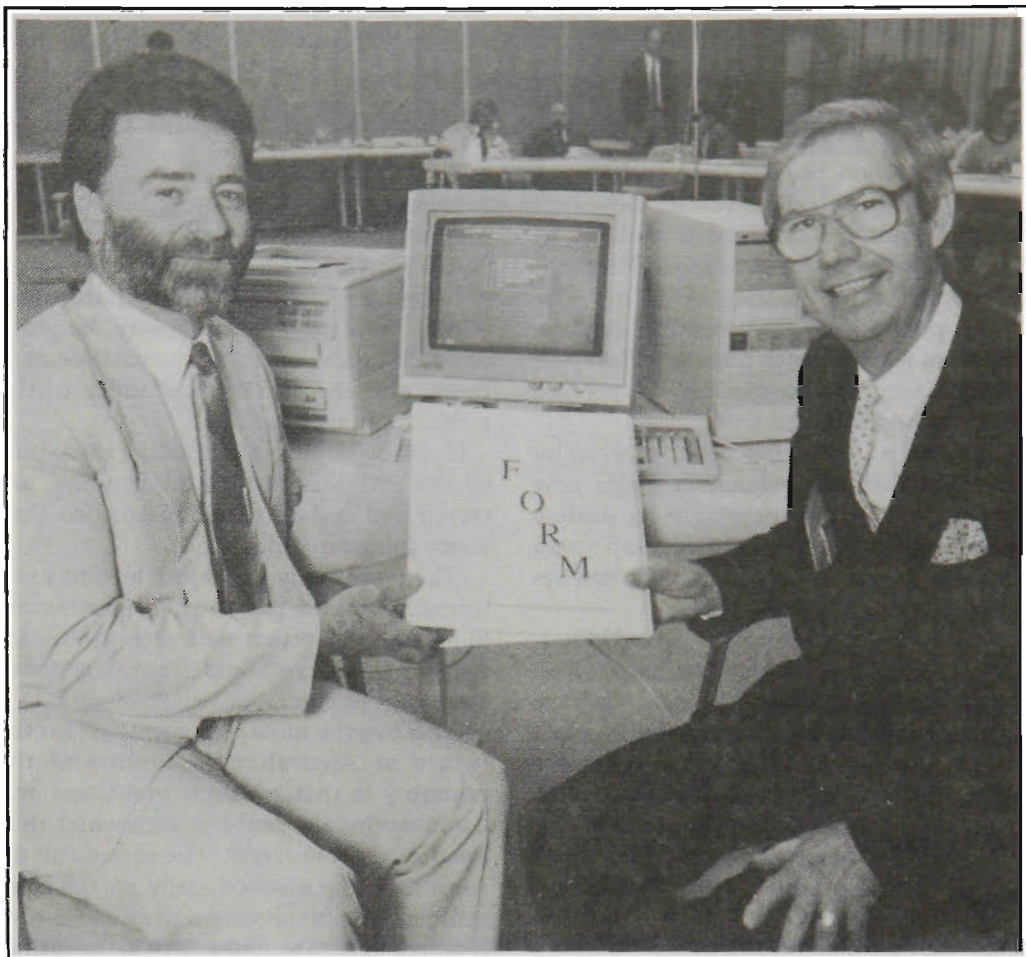
These are:

- Setting priorities for research and training to ensure a broad science and technology base for Australia's future; as a first step, the Deans have set up a working party to make recommendations to the Australian Science and Technology Council on what they see as the priorities and problems facing science in Australia today;
- Enhancing the quality of science and mathematics teaching in secondary schools; this includes an interest in current discussions on Australia-wide co-ordination of science curricula as well as in teacher training;
- Encouraging more women into science so as to take advantage of the full potential of Australia's young people.

Professor Bolton said: 'We have total confidence in encouraging young people to enter science courses.'

'Career prospects are improving significantly, thanks to changes in government and public awareness of the importance of science.'

'The clever country will only happen if Science Faculties can develop the programs and facilities to achieve the nation's objectives.'



Head of the Department of Business Systems, Professor Graham Winley (left), with General Manager of Illawarra Electricity, Mr Warren Greentree

Illawarra Electricity's account system streamlined by University software

SPECIALIST software developed by the Department of Business Systems at the University of Wollongong will mean greater productivity and cost savings for Illawarra Electricity.

The product is also marketable to the wider community.

Illawarra Electricity will initially use the new computer program to streamline its Customer Information System.

The program takes data from a billing file generated by their mainframe computers and places the information on to the appropriate parts of the bill.

Other sections of the system will enable the user to define the layout of a

form and the structure of a data record.

As well as producing customer accounts, this program will enable the generation of a wide range of forms, which can be used in other areas of the organisation.

Illawarra Electricity uses a company outside the Illawarra to print their accounts. Increased efficiency will result from printing the bills on-site and allowing users to experiment with form layout without consulting a third party.

Illawarra Electricity Information Services Manager, Geoff Gray, said several PC-based systems were evaluated but none had the flexibility that was required.

'What we have ended up with is a product that suits our requirements, and can also be extended to be used by the wider community,' Mr Gray said.

'The exercise has been a good blend of the skills from the two organisations.'

Cashier's hours over Christmas

UNIVERSITY personnel are advised that the Cashier's office will be open from 9.30am to 4.30pm on all normal working days with the exception on Friday December 21 and Monday December 24. On those two days the office will close at noon.

New venture in science policy

THE Australian Science and Technology Council and the Australian Research Council jointly sponsored a meeting of Setting Directions for Australian Research this month.

The purpose of this meeting held in Canberra was to launch the council's report on this issue and to explain the process which would follow.

The report, which has been received by the Prime Minister, signals a major new venture in the history of the Australian science policy to attempt to develop broad guidelines and targets for Australian research.

Among the contributors was the University of Wollongong's Professor Ron Johnston, the Director of TASC and the Centre for Research Policy, who is also a member of ASTEC and has been a member of the small working party which has drafted the document on direction setting.

These aims include:-

- The provision of broad guidelines for science policy, setting national agenda and formulating a national or institutional vision;
- The development of a system of 'anticipatory intelligence' concerning emerging trends and technology;
- Consensus generation resulting from the combination of analytical and consultative procedure among researchers and between researchers and policy/decision-makers;

- Advocacy - the development of foresight to promote policy decisions in tune with the preferences of specific stakeholders in the R and D system;

- Improved communication and education within the research community, between research producers and potential research users, and the wider community of the public, politicians etc.

It will be important that all of these outcomes and their attendant benefits, are recognised in the Australian exercise, Professor Johnson said.

'There are many important lessons to be learned from the previous failed attempts to establish direction setting processes for Australian research and from experience overseas,' he said.

'I believe the most important one for the future of Australian research and the economy is that research producers and users see this as a problem with which they are directly concerned. The success of direction setting rests critically on the commitment and involvement of all those with research expertise, and an eye to the future.

'This exercise in national research direction setting, given the supportive political climate, will succeed or fail depending on the extent to which researchers and users embrace, indeed take-over, the process to ensure that it works as well as possible for our mutual interest and futures.'

RECREATION AND SPORTS ASSOCIATION SURVEY

The Recreation and Sports Association want to know if you are interested in using the facilities over the Christmas-New Year Holidays.

Please fill in the survey below and return it to the Recreation and Sports Association either by internal mail or by sending the completed survey to the Recreation & Sports Assoc P.O. Box 1144, WOLLONGONG 2500.

Tick the most appropriate answer,

1. Do you intend using the following facilities between Christmas & New Year?

Squash Courts _____	Swimming Pool _____
Basketball Courts _____	Volleyball Courts _____
Badminton Courts _____	Gym /Weights _____

2. If so, how often?

Once _____	5-10 times _____
1-5 times _____	over 10 times _____

3. When are you most likely to use the facilities?

6am-9am _____	9am-noon _____
noon-3pm _____	3pm-6pm _____

The results of the survey will determine if we will open over the holiday period. If we do open it is likely to be from 9am to 5pm. The Centre will definitely be closed for Christmas and New Year's Day.

Aquatic Centre's summer programmes and events

THE Recreation and Sports Association is again holding interdepartmental competitions for the staff of the University.

This year's activities include both terrestrial and aquatic activities. If you want to get involved either see your Department sports organiser or contact the Recreation and Sports Association.

The following competitions are being run: basketball Monday, inner-tube water polo Tuesday, volleyball or softball Wednesday, aqua netball Thursday.

A swimming carnival will take place on December 14.

Aqua-aerobics classes are held at 5.30pm on Monday and Tuesday and 12.30pm Wednesday and Thursday.

Cost is \$3 to staff members and that includes pool entry. During the Australian swimming team's training all classes will be held at 12.30pm Monday to Thursday.

The University Aquatic Centre also offers learn-to-swim classes for all age groups (babies to adults).

This ranges from stroke correction to complete learn-to-swim packages.

Classes are held Monday to Friday from 4.30pm, mini-squad is at 4pm Tuesday and Thursday.

Classes are also available on Saturday mornings.

Cost for staff and children of staff is just \$3 per half-hour lesson. This includes pool entry and entry for a guardian to watch. To book tel. (042) 28 1266 or ext. 3361 and ask for Steve or Simmone.

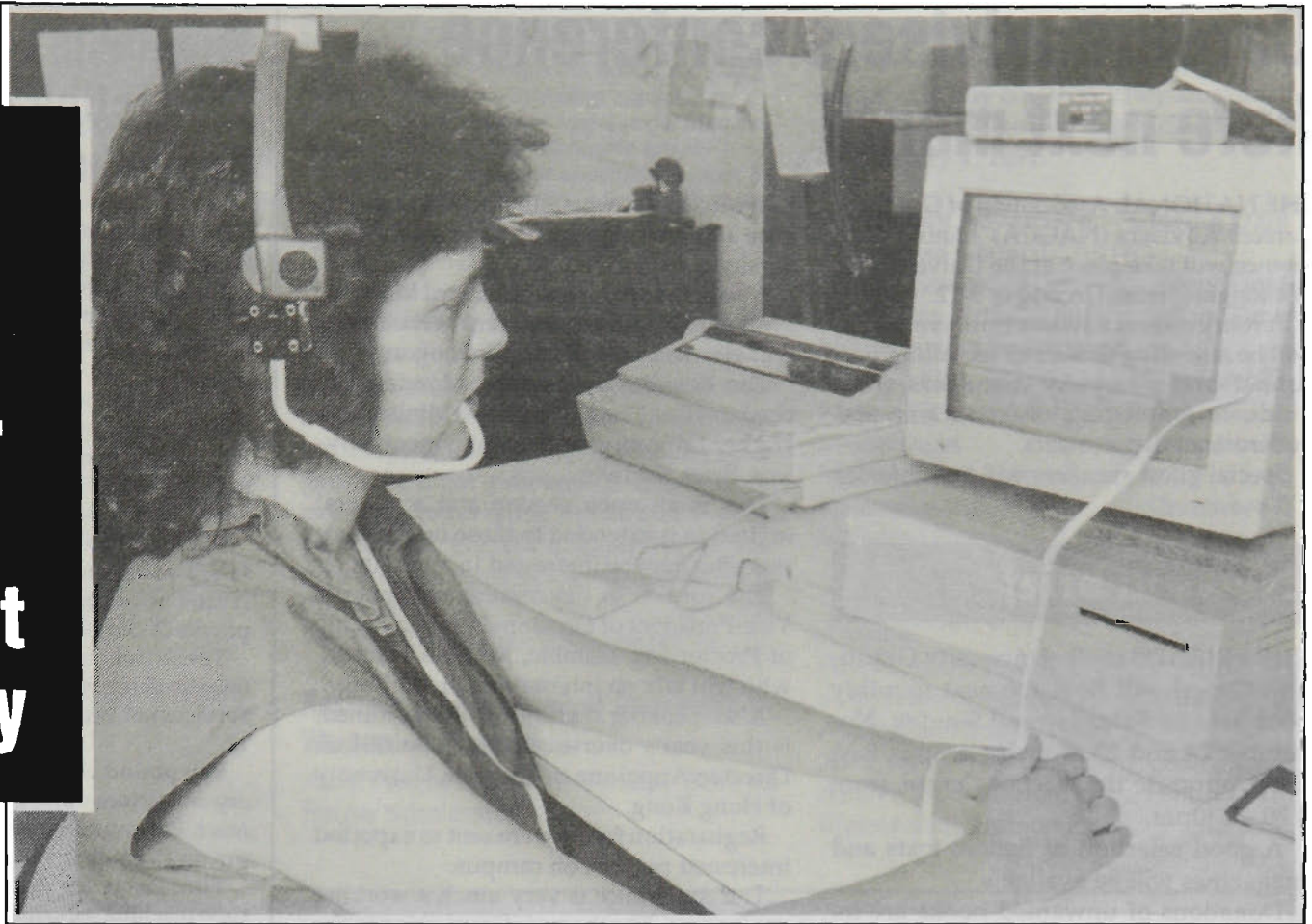
Classes for 1990 will cease on December 13.

Beijing consultancy for Dr Jayasuriya

Dr ROHAN JAYASURIYA, from the Department of Public Health and Nutrition, has been invited by the World Health Organisation, Western Pacific Regional Office (Manila), to undertake a consultancy in Beijing, People's Republic of China, from December 15 to January 17.

Dr Jayasuriya will assist the Ministry of Public Health in the development of its Health Information Systems.

Life gets much better for RSI-hit Tracey



LIFE FOR a postgraduate student suffering an RSI-related injury has been made much easier by the generosity of the University administration.

Tracey Fisher, a Commonwealth Scholarship holder, is enrolled in an experimental PhD program in the Department of Physics in the program 'Electronic and Vibrational Spectra of Solids'.

Because of the RSI ailment, Tracey finds writing difficult and often painful. She is unable to use a computer or word processor for any length of time and both are essential to her work.

Funds were initially provided for a computer writing tablet to assist with keyboard operation, but this became relatively ineffective after a period of intense experimental work and data analysis.

After an approach from staff in the Department of Physics to

the then Deputy Vice Chancellor, Professor Ian Chubb, seeking the purchase of additional computer appliances and aids designed for physically handicapped people, the request was referred to the EEO Disability sub-committee.

This committee considered that the application had much merit, not only would the computer aid be of assistance to Tracey to enable her to complete her PhD program, it would also be available in future for loan to other persons in the University community suffering from similar complaints.

A recommendation was made to the University administration by the Disability Committee seeking funds for the purchase of Headmaster equipment to enable her to operate a computer.

Tracey continues to use the computer writing tablet on occasion, but it has now been freed for loan to other staff and

students requiring its use. Arrangements have been made for both the computer writing tablet and Headmaster equipment to be loaned out through the Counselling Centre.

The purchase of the Headmaster equipment is further demonstration of the University's commitment in improving quality of university life for people with disability.

Many initiatives have been taken in this regard in recent years, including the purchase of the electric scooter to help staff and students with disability to move around the campus, provision of a rest room in the Pentagon, and a new initiative by the Graduate Group of The Friends in providing a free scribe service to students requiring this assistance at examination time.

Inauguration ceremony for Faculty of Law

A SPECIAL ceremony to celebrate the inauguration of the University's Faculty of Law and the conferral of the first honorary Doctor of Laws degree on the University's foundation Chancellor, the Hon R.M. Hope, will be held on February 19.

The ceremony will be like a Graduation Ceremony. Academic and Administrative Heads and all interested staff are being invited to attend.

They will join guests from the judiciary, other universities' Chancellors and Vice-Chancellors, the legal profession, the community and the student body.

The ceremony will begin with an academic procession at 6pm in the Union Hall. It is expected to take one hour and will be followed by a reception for guests in the Kemira Room, Union Building.

This will be a significant ceremony for the University, marking as it does a landmark in the University's academic development.

It also offers members of the University an opportunity to thank and applaud the work of our Chancellor.

If you would like any further information, please ring Lynn Woodley or Olena Cullen in Academic Services, ext. 3360.

Careers advisers conference here next month

THE NATIONAL Association of Graduate Careers Advisers (NAGCA) Annual Conference will take place at the University of Wollongong from December 9-12.

Tertiary careers advisers from every state will be attending as well as recruiting personnel and company managers from graduate employing organisations and government departments.

Special guest speakers will be Professor

News in brief

THE FRIENDS of the University Graduates Group will hold the next monthly book sale on Saturday and Sunday, November 24 and 25 at their Campus East shop, opposite the Science Centre, from 1.30 - 5.30pm.

A good selection of fiction, texts and magazines will be available.

Donations of unwanted books are invited.

Please mark 'Friends Book Sale' and leave these at the University Library (Audiovisual Room on ground floor at rear) or at the Student Enquiry Desk in the Administration Building during the week, or at the Science Centre (weekend afternoons only).

Enquiries, tel. (042) 27 1951 or 61 2714.

THE ILLAWARRA Committee for Overseas students has organised a coach trip to Australia's Wonderland on Saturday December 1.

The cost will be \$15 for overseas students and \$10 for children aged four to years old.

Tickets and details are available from ICOS office in the Union Building, next to Careers and Appointments Service, on Tuesday, Thursday and Friday from 9am to 2pm. Tel. 270158 or ext. 3158.

THE ILLAWARRA Choral Society is organising a choral festival for Wednesday December 12 in Wollongong Town Hall from 8pm.

The concert will feature five choirs: the Puka Puka Aussie Choir, the Dirndl Singers, the Dutch Australian Choir, the AGA Choir Germania and the Illawarra Choral Society.

Tickets are available at the Performing Arts Centre.

Ken McKinnon who will open the Conference and welcome participants to the University.

Also at the opening will be Lord Mayor of Wollongong, Alderman Frank Arkell, who will give the welcome to Wollongong.

The Keynote Speaker on Monday December 10 at 11am will be the Minister for Higher Education and Employment Services, Peter Baldwin.

This is an open session and a general invitation is extended to those on the campus who may be interested in attending.

The speaker at the conference dinner is Vice-President of Personnel — Asia Pacific of Procter and Gamble, Mr Stan Hanson, who will talk on international recruiting.

Also speaking at a time to be determined, is this year's overseas guest, Louisa Lui, Director, Appointments Service, University of Hong Kong.

Registration forms were sent to expected interested persons on campus.

The conference is very much a working conference. The theme is Developing in the '90s and of particular interest will be the national review of careers services in higher education for which a report is soon to be released.

There will be a focus on developing mechanisms for international graduate recruitment, an important phenomenon in the era of greater numbers of international students on campuses.

The major aspect each year is the development of the interactions between campus careers services and employers of graduates.

The conference functions as a major training opportunity for careers service staff, who often work in small units with limited opportunity for professional sharing and development.

The workshops meet this need and also the needs of recruiting personnel who may face similar problems.

For further details regarding any aspect of this conference contact the Careers and Appointments office, ext. 3324 or 3325.

Timetable for payroll production during December 1990

DUE TO the limited time available for salary production over the Christmas period the following timetable of pay office requirements has been prepared for the pay periods December 20 and January 3.

Would you please ensure that any casual or part-time teaching authorities which require processing are forwarded to the Salaries Office as early as possible and definitely before the stated deadlines.

Pay period ended December 20: All salary variations and overtime sheets to reach Personnel Services not later than 4 pm on December 7.

Timesheets for casual staff and part-time teaching returns to reach Personnel Services not later than 4 pm on December 12.

Pay period ended January 3: All salary variations and overtime sheets to reach Personnel Services not later than 4 pm on December 14.

Timesheets for casual staff and part-time teaching returns to reach Personnel Services not later than 4 pm on December 20.

Any payroll documentation received after the respective deadlines will not be processed until the next available pay.

Because of the restricted timeframe it is possible that new deduction authorities and changes to banking details may not be processed until the pay period ended January 17.

In this regard please do not close accounts until you are satisfied that your salary is being deposited into the correct account.

Staff proceeding on leave and requiring payment in advance, in accordance with the Universities leave provisions, are reminded that applications, with supporting documentation where necessary, should reach Personnel Services as early as possible but not later than three weeks before commencing leave.

If there are any problems with these arrangements contact the Salaries Office, exts. 3914 or 3930.

Seminar coming on academic research network

INFORMATION Technology Services is holding a seminar on the Australian Academic Research Network (AARNet).

AARNet gives users access to other academic institutions for library enquiries and file transfer.

The network is worldwide and is available at the University of Wollongong.

The seminar will be held on December 13 from 12.30-1.30pm in Pentagon Room 1. Any enquiries to Karen Scott, ext. 3191 or 3850.

Research Funds

Innovative Rural Education and Training Program

DEET is seeking applications to develop and implement innovative projects relevant to the training and educational needs of rural people. The University closing date is December 14.

National AIDS Council

Multi-Centre Program Grants

These grants are for three years funding of two-three separate approved research institutions in collaboration under the responsibility of one Chief Scientist. The University closing date for Expression of Interest is February 1, 1991.

Australian Meat and Livestock R and D Corporation

Core Project Funding

AMLRDC has allocated money towards a number of special grants in core areas for

University's big use of re-cycled paper

QUESTIONS have been asked regarding the University's attitude towards the use of natural resources, and possible use of re-cycled products.

Paper was one product especially mentioned. Office Services has advised the following statistics regarding paper products purchased:

Writing pads A4 size — 100% re-cycled paper

Computer paper 15" x 11" — 80% re-cycled paper

Envelopes Goldkraft (all sizes) — 80% re-cycled paper

Envelopes white — 100% re-cycled paper

Note pads — made of off-cut materials

Packaging — re-used until end user places in re-cycling bins.

Photo-copy paper used is not made from re-cycled paper. The most recently released product is only suitable for single-sided copying in low volume machines.

This does not meet the University's needs. As better products become available their use will be considered.

Toilet paper and hand towels purchased are unbleached paper made from the thinnings (normally considered waste) of the pine plantations grown to provide housing timber in South Australia.

Laser toner cartridges are re-cycled for further use. Each re-cycling re-uses approximately 2kg of plastics and metal which would normally be scrapped.

Bins are provided for paper which can be re-cycled. Staff and students using them can do their bit to assist the environment.

The sources of research funds given below are available to members of academic staff. Further information, including application forms, may be obtained from Lyndal Manton (ext. 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Postgraduate Studies.

Universities to encourage postgraduate and post-doctoral training and research. The core areas are as follows; Restructure meat products; Food safety in the meat industry; Robotics and artificial intelligence in meat processing; Behavioural aspects underlying consumers' food preferences; Genetic engineering of pasture and fodder species of importance to the Aust. livestock industries. The University closing date is December 14.

Australian Federation of University Women — Victoria

Amy Hughes Scholarship and Beatrice Finger Scholarship

These scholarships are available to all members of the AFUW for study in any area and in any country. They are valued at \$5000 each. The University closing date is February 1, 1991.

Previously Advertised	Closing Date
The British Council	
Travel Grants	Any Time
Australian Arts Council	Any Time
Netherlands Government	
Scholarships	November 23
Natural Sciences & Engineering	
Fellowships	November 30
National Academy of Education	December 7
NHMRC Burnet Fellowship	
& Eccles Awards	December 14
CSIRO P/Grad Project	
Awards	December 14
Australian Federation of University Women	January 18
Australian-Greek Travel	
Awards	February 1
AFUW SA Inc Bursary	February 15
Illinois State University	March 1



Sale by Tender

Pianos

(Tender No 90/04) - eleven electronic Baldwin 88 note. 1976 models. Ideal for use by children and learners.

Enquiries to Faculty of Education - Telephone 270961

Piano

(Tender No 90/05) - Bijou 117cm upright - good playing condition.

Tender should be placed in a sealed envelope with the tender number on the outside and addressed to:

Office Services

University of Wollongong

PO Box 1144

WOLLONGONG NSW 2500

Tenders close on 23 November 1990.

Seminars

Centre for Advanced Manufacturing and Industrial Automation

December 4: Professor Günter Arndt, *An introduction to total productive maintenance — putting quality into maintenance*, Wollongong Surf Leisure Resort, Fairy Meadow.

December 6: Dr Y Yao, Lecturer in Manufacturing Engineering at Wollongong University, *Condition monitoring and diagnostics of machines and processes*, Wollongong Surf Leisure Resort, Fairy Meadow.

December 10: Dr D P Saini, of the Department of Mechanical Engineering at Wollongong University, *Strategic Maintenance for optimisation of equipment availability*, Wollongong Surf Leisure Resort, Fairy Meadow.

Booking and enquiries to: tel. (042) 270354 or fax (042) 270101.

Department of English

New Literatures Research Centre Seminar Series

November 23: Graham Tucker, *Mermaid Singing, the genesis of the Charmain*

Clift persona. All seminars are held in room 19.1083 from 2.30pm.

Department of Physics

Colliquium

November 22 at 12.30pm: Dr Peter E. Metcalfe, Medical Physics, The Wollongong Hospital, *The New Medical Linear Accelerator at the Illawarra Cancer Care Centre*. Physics Lecture Theatre (18.118)

Abstract: The Radiotherapy Department at the Wollongong Hospital is in the process of commissioning a Varian 2100 Medical Linear Accelerator. This is used to treat cancer patients.

The Linear Accelerator is capable of producing radiotherapy beams consisting of high energy X-rays (6MV and 18MV) or a variety of electron energies (6 MeV to 21 MeV).

The klystron, waveguide and bending magnet technology used to produce these beams will be discussed.

Once the beam leaves the linac port and interacts with patient tissue such as lung and bone the dose prediction exercise becomes complicated. Because of this the patient dose distribution is predicted using a Radiotherapy treatment planning computer (GE Target, Sun 4/370 Workstation). Accurate electron density

information is essential for the calculations. This can most accurately be obtained from CT scans (Hounsfield 1973 *Brit.J. Rad.* 46, Metcalfe *et al* 1988 *Aust. Phys. Eng. Sci. Med.* 11(3)). However, the computer models presently used to predict doses are sometimes inaccurate.

More accurate methods such as Monte Carlo techniques (Murray 1990 *Aust. Phys. Eng. Sci. Med.* 13(3)) and Superposition methods (Metcalfe *et al* 1990 *Phys. Med. Biol.* 35) are under development.

Once commissioning is complete a small number of student projects in physics, computing and electronics are likely to be available.

Sponsored by the Department of Physics and the Australian Institute of Physics (NSW Branch) Further information contact Dr RA Lewis, ext. 3518.

School of Human Movement Science

November 23: Tom Penrose, *Some functional aspects of ballet dancers*, 12.30pm

November 30: Mark Brown, *Bioelectric correlates of inaccurate motor performances*, 12.30pm

*Post-graduate student seminars

All seminars are held in the Recreation Laboratory in Building 8. All enquiries to Mark Brown, ext. 3495.

Advertisements

HELP AVAILABLE

Going overseas on a sabbatical or a holiday? Who will look after your humble abode, pets and garden? Look no further!!

A professional married couple, experienced in housesitting, will 'look after' your house from Feb 1991. Excellent references from university staff. Tel. Gary or Mary (042) 378626.

WANTED TO RENT

Caravan to put in yard in Keiraville December 22 to January 4. Tel. Di, ext. 3612 or (042) 292061 ah.

TO LET

Fully-furnished, 3br house in Mangerton from January to July 1991. Convenient location and rent negotiable. Further information tel. ext. 3340 or 3254 or (042) 29 9969

TO LET

Fully-furnished 2br unit with l.u. garage 100m from North Wollongong beach. Available all December and January (dates and rent negotiable). Further information call ext 3872 or (042)294986.

TO LET

FERNTREE near Hobart. 4-5br family home avail. early Dec. 1990. \$165 pw. Lease negotiable up to 1 year. 10 km to Tas Uni and City Centre. Glorious water and mountain views.

Enquiries ph. 002 294170 (Hobart) 065 527129 (Taree)

TO LET

Furnished 3br bv house in Keiraville, 10 minutes walk to Uni. Available from mid-Nov '90 to mid-Feb '91. Ideal for small family or 2-3 students. Contact Tran, ext. 3659 or tel. (042) 262450 (home).

TO LET

New, unfurnished, 2br unit. Hindmarsh Gardens, next to International House, \$150 per week. Ext. 3113 or 3830.

TO LET

4-berth caravan with annex at Swan Lake Caravan Village. Contact Gaye, ext. 3958.

TO LET

Available early February until July 1991, 3-br house in Corrimal. Suit visiting academic. Contact Toni O'Neill, tel (042) 270765 (w), (042) 833764.

WANTED TO LET

Visiting professor and spouse from US need furnished home to rent July-Dec 1991. Preferred near rail or walking distance to campus. Phone Dr Mark Anshel, ext. 3023 or message ext. 3881 or write Dept of Human Movement Studies.

FOR SALE

One LOOK Carbon Fibre 55cm Racing Frame & Forks (Bernard Hinault Team Issue) Never been ridden. Still in factory box from France. Will also consider swapping for 53cm carbon fibre frame. \$1000 ONO Call Lyndal

on (042) 270 201 or home on (042) 288219.

FOR SALE

Datsun 200B sedan 1980. Rego 7/91. Good condition and running order. \$2500 ono. Tel (042) 711464 (work), 711735 (home).

FOR SALE

1975 Ford Falcon, 5 months rego, \$950. Ext. 3642 (8am-5.30pm)

FOR SALE

One wardrobe and dressing table, one entertainment unit, one Brother sewing machine. Contact Frances, ext. 3456

Advertisements for Campus News should be left at the Planning and Marketing office in the Administration Building by noon on the Monday the week before publication.

Stop Press

Reserve Parking

HAVE you booked your place yet? The best spots are selling fast.

Contact Janine Gray, ext. 3219, or Tony Clapham, ext. 3916.