# ANU Reporter Service VI 16 No. 20 Frida 6 December 198

# Venture deal on influenza

The ANU is to play a key role in a venture aimed at designing a drug to cure influenza.

An agreement has been signed between the ANU and Biota Holdings of Melbourne, which will initially provide the ANU's Influenza Research Centre (IRC) in the John Curtin School of Medical Research with about \$500,000 in equipment and funding.

The project will be undertaken in collaboration with the Victorian College of Pharmacy and the CSIRO's Division of Protein Chemistry which have signed separate agreements with the company.

The work at the ANU is carried out by the head of the IRC Dr Graeme Laver who is a leading authority on influenza and has been in the forefront of research for the past 20 years.

In the last five years he has crystallised an enzyme of the virus — neuraminidise. This had enabled Dr Peter Colman at the CSIRO to determine its complete structure.

Professor Peter Andrews at the Victorian College of Pharmacy will be using a technique involving computer graphics to design a blocking agent for the enzyme.

Dr Laver said that drug design using such techniques meant that it was no longer a process of 'hit and miss'.

'We are solving the exact structure of the active centre enzyme which should enable us to design substances to stop it working,' he said.

'If we succeed it will indicate that similar techniques can be applied to enzymes involved in other diseases, including cancer, and perhaps AIDS. Of course the technical problem of crystallising the enzymes in the first place are enormous,' he said.

Dr Laver has been trying to raise funds for this kind of research for some time and initially he approached the National Health and Medical Research Council (NHMRC). At that stage the council regretted it could not fund research within a Commonwealth-funded body.

Dr Laver approached the Prime Minister, Mr Hawke, who advised him to seek money in the private sector.

Independent of this a group of Melbourne businessmen approached the scientists involved in the research and within three months the company Biota was formed and agreements made.

Dr John Turner, the manager of technology marketing at ANUTECH, who negotiated the agreement, said the formation of Biota and its associated agreements with the team collaborating on flu research had been stimulated by the Federal Government's encouragement of a venture capital market and the 150 per cent tax deductibility for research and development investment.

'This is substantial funding at the embryonic stage of research and development — something which is very new,' he said.





# Second ANU scholar for diplomatic post in China

The Curator of the University art collection, Mrs Johanna Owens, with Architects Detachment, an oil and collage work by George Baldessin. That, and many other works from the University collection are on display in the Drill Hall Gallery. The Gallery is now open from 2pm to 5pm Wednesday to Sunday.

Dr Ross Garnaut, formerly a Senior Fellow in the Economics Department of the Research School of Pacific Studies, left for the People's Republic of China last week (20/11/85) to take up his appointment as Australian Ambassador.

He is the second ANU academic to be appointed to the post. In 1973 Dr Stephen FitzGerald became Australia's first Ambassador to China. Dr FitzGerald now has his own company based in Canberra. He advises Australian companies in their dealings with China on trade, technology and joint matters.

Dr Garnaut, 39, was until recently Senior Economic Adviser to the Prime Minister, Mr Hawke.

Educated at Perth Modern School, he graduated from the ANU and obtained his doctorate in 1972. He is married with two children.

A former Research Fellow with the ANU's New Guinea Research Unit in Port Moresby, he subsequently became First Assistant Secretary, General Financial and Economic Policy, in the Papua New Guinea Government on macro-economic policy.

Dr Garnaut's doctoral work at the ANU was an analytical study of Australia's trading relations with South-East Asian countries. In 1980 he became a Senior Fellow in the Economics Department of RSPacS, and was instrumental in the initiation of a large research program as director of the ASEAN-Australia Economic Relations Research Project.

His other professional interests include the analysis of resource development and taxation systems, international trade and adjustment, macro-economic management in open economies. He was adviser to Commonwealth Governments on Natural Resource Policies Technical Assistance Group Commonwealth Secretariat in London from 1980-1983.

As the Prime Minister's adviser he visited China with Mr Hawke in 1984, followed by a return trip to establish the Iron and Steel Joint Study Group.

'Ross Garnaut's impressive professional credentials and deep background in work on economic relations among Asian-Pacific economies will undoubtedly make a critical contribution at a very challenging and important stage in the development of Australia's relationship with China', commented Dr Peter Drysdale, Executive Director of the Australia-Japan Research Centre and Chairman of Australia's National Pacific Economic Cooperation Committee. 'It is difficult to imagine anyone with a better informed perspective on the complex economic and international issues that are part of the emerging relationships between China, Australia, and the Pacific in the world economy', he said.

#### Thank you

This is the last ANU Reporter for 1985. University Information would like to wish all of our readers a happy Christmas and New Year, and to thank all those who have contributed to the Reporter during the year.

We especially want to thank Photographic Services and Canberra Publishing and Printing for their patience and co-operation, and all staff members who have contributed.

The *Reporter* will be back next year and we hope it will be better and brighter than ever. Next year is significant in that the University will turn 40.

The first 1986 edition will be published on Friday 28 February, and copy must be into University Information by Wednesday 19 February.

### Success in combating **RSI** on campus

claims for RSI (repetition strain injury) at the ANU had continued to drop, the Vice-Chancellor, Professor Peter Karmel, reported to the University Council.

The Vice-Chancellor told the Reporter that a number of measures had been introduced to combat the problem. These included:

- the introduction of a number of work practice and other guidelines. These covered the need for work breaks, avoidance of unreasonable burdens on keyboard staff, the need for a greater variety of work for these staff, the importance of even work-flows, questioning the urgency of work and guidelines for those preparing material for wordprocessing or typing;
- · more intensive inspections of work stations;
- more systematic follow-up and review of staff with RSI;
- · commitment of more staff to overcome the problem:
- training activities, including the training of keyboard trainers in Schools, Faculties and other areas of the University.

He added that there were now several staff designated to assist those with RSI. These include

- Ms Melody Kemp and Mrs Jenni Knobel (Occupational Health and Safety Unit);
- Mrs Rosemary Semmens (Co-ordinator RSI Support Group);
- Miss Audrey Dargan (Personal Adviser to General Staff)

as well as staff in the Health Service. Particular problems would also be considered by the Acting Personnel Manager (Mr Derek Hindmarch) and the Secretary (Mr Warwick Williams).

Two major reports on RSI, the report of the Government's Task Force on Repetition Strain Injury and the interim report of the RSI

The rate of Workers' Compensation Committee, established by the National Occupational Health and Safety Commission, contained little new information, although the Commission's Committee concluded that 'the claim that RSI is an Australian phenomenon and reported at levels unheard of in other advanced countries, cannot be substantiated'.

Professor Karmel said that areas had been requested to avoid imposing excessive work loads on electronic keyboard operators and guidelines for good work practice had been issued. It had been recommended to him that he issue a directive that electronic keyboard operators spend no more than 31/2 hours per day at their machines. He was concerned about such a blanket proposal as the circumstances of operators varied from individual to individual and from area to area, it was not only a question of the number of hours at the keyboard but of the intensity of the work.

Among letters to the ANU Reporter following the article on RSI published on October 11 was a joint letter from the Health & Research Employees Association and the Association of Draughting, Supervisory and Technical Employees, and another from the Staff Officer (General) of the University of New South Wales, Mr W. Acott.

The letter from the unions said that there had been 13 new RSI cases reported to the ANU Health Service from August 24 September 27, and that the unions thought the high incidence of RSI at the ANU was attributable to the high rates of production expected of keyboard staff. They believed that the solution was to decrease workloads by increasing the number of keyboard staff, at least until the technological problems had been ironed out.

The very large number of people known to have contracted RSI at the ANU faced extreme difficulties in rehabilitating themselves at the workplace. Unions claimed that very few were deployed to duties which did not aggravate their injuries. Of the 188 who had lodged Workers' Compensation claims, 29 per cent had resigned or retired.

Mr Acott, of the University of NSW, wrote that his university could see RSI emerging as a serious problem in the second half of 1984.

He said in January 1985 strict guidelines were introduced for all word processing operators that no operator should spend more than one hour at a time at a keyboard, and each keyboard period was to be followed by an equivalent amount of time on non-keyboard duties. Logbooks were kept to enforce this where necessary and overtime was banned.

Mr Acott expressed the view that the introduction of the hour-on, hour-off policy had broken the back of RSI at his university. Ergonomic furniture was also purchased, work stations inspected by occupational health staff and supervisors and users of keyboard services attended lectures by an ergonomic consultant. However, he regarded these additional measures only as a bonus.

The unions said they were disappointed the Vice-Chancellor had rejected the recommendation of the Vice-Chancellor's Advisory Committee on Occupational Health and Safety that time spent by staff working on electronic keyboards, including electric typewriters, should be limited to no more than half the working time

A report to the ANU Board of The Faculties said that principal problems of students with RSI were difficulty in taking notes, inability to use laboratory equipment, laboratory safety, difficulty with written assessments and examinations and operating keyboards for both computing course work and word processing theses

Guidelines had been developed to assist RSI students in all ways possible without positive discrimination when modifying assessment requirements and examination conditions (e.g. oral examination). Students were asked for a medical certificate and special arrangements for invigilation could be made.

The Board encouraged the taping of lectures, but scientific equipment could not be modified to meet the needs of people without the full use of their hands.

Typing could not be done for students with RSI because it would result in increased pressures on keyboard staff.

The Board said every effort would be made to provide suitable furniture for student work stations and students would be warned about the dangers of RSI.

# **Professor Wang** goes to Hong Kong



Professor Wang Gungwu, Head of the Department of Far Eastern History, Research School of Pacific Studies, is leaving the University this month to become Vice-Chancellor of Hong Kong University.

Although sorry to leave the ANU, where he says he has spent the best days of his life, Professor Wang is looking forward to his new

'It will be a chance to see history in the making', Professor Wang told the ANU Reporter, referring to the agreed transfer of Hong Kong from British to Chinese control in 1999.

Born in Indonesia and educated in Malaysia, Professor Wang came to the ANU in 1968. His duties have included teaching, a term as Director of the Research School of Pacific Studies and research on his special subject, Chinese history. Professor Wang hopes to return to Canberra after his five year stay in Hong Kong.

### of the Classics Museum Friends

Former studies from the last twenty odd years and others interested in ancient Greece and Rome met in November to form a group called The Friends of the ANU Classics Department Museum. Anyone can become a "Friend" and supporter of the Museum through an annual donation to the University of \$15 (\$20 families; \$5 full-time students and pensioners).

The group plans to meet two or three times a year for an illustrated lecture or similar function. The aim is to build up and promote the already significant teaching collection in the A.D. Hope Building, which ranges from Greek vases to Roman tombstones. The collection is deliberately varied to allow the past to speak in many ways, whether through a set of corroded bronze surgical instruments, or a papyrus or a writing-board with the writing still visible in the wax, or whether it is through a shield from Sparta or an old Roman saucepan — with a hole in the bottom!

The museum is visited almost every week by groups from schools and, as it is on the route to the Chifley Library, many others stop to. look more casually. The model of Rome is always an attraction.

There is a catalogue to the collection prepared by Dick Green of the University of Sydney and Beryl Rawson of Classics at ANU. Called Antiquities, it is available through ANU Bibliotech or by asking in the Department.



Professor Dick Green (Archaeology Dept., University of Sydney) explains a terracotta of a comic actor in the role of a drunk slave to Anne O'Hehir, Ebenezer Banful, Ann Guster and Ann Moffatt (curator of the collection) in the Classics Dept. Museum.

# Growth in terrorism studied

Terrorism — the criminal act of violence against a civilian population for political motives — is the subject of a study by Joanna Wright, a PhD student from Northern Ireland. Ms Wright, who is in the Department of International Relations, RSPacS, told the ANU Reporter that defining terrorism is difficult in an era of wars of self-determination which allow murder, arson, kidnapping, taking of hostages and the mistreatment of captives. The difference is that acts in war are against military targets, terrorism is against civilians.

The first hijacking occurred in 1968, the year Ms Wright gives as the beginning of modern terrorism. It was a time when the Vietnam War was at its height, and the new Left movement was sweeping the United States and Europe.

The emergence of the Baarder-Meinhof group in West Germany, the Red Brigade in Italy, the Angry Brigade in Britain and the Weathermen in the US seemed to be influenced by the general state of world politics.

Ms Wright also gave other linking factors which she believes contributed to the upsurge.

Environmental: jet air travel which facilitates mobility and makes detection difficult. The activities of the Armenian group which between 1979-1983 maintained 100 groups in four continents and 17 countries is a good example offered by Ms Wright.

Mass communication: the use of mobile camera units and world-wide publicity has been argued as the glorification of the terrorists' acts. An estimated 200 million people watched the Munich massacre live. Ms Wright recalled a comment by British Prime Minister, Mrs Margaret Thatcher, who proposes a journalistic self discipline to deprive terrorists of what she termed 'the oxygen of publicity on which they depend'

The availability of sophisticated, accurate light weapons and the use of plastic explosives have also increased the effectiveness of terrorist attack. Ms Wright said these arms seem to have their origin in Soviet bloc nations

The increasing vulnerability of Western society was also commented on. The interdependency of a structured community on the existence of electrical power grids made it subject to an effective terrorist attack Water supply systems were also open to chemical abuse

One sensitive area of terrorist activity is the diplomatic service, and many new groups were singling diplomats as primary targets.

Collaboration between groups became publicly clear for the first time in 1972 with the Lod Airport massacre perpetrated by the Japanese Red Army on behalf of Palestinian groups. Training techniques, particularly in the field of explosives, could be attributed to specialist terrorist groups. Ms Wright illustrated this with the use of Provisional IRA (PIRA) expertise in training of Basque groups in explosives.

Sovereign state support for terrorists and aid supply were difficult to combat, Colonel Gadaffi's prominence as a political leader actively supporting acts of terrorism is well known, and during the time of the St James siege in London, he renewed promises of aid to the PIRA

Terrorism is well funded, mainly through bank robberies, but the logistical support received by terrorists through kidnapping and ransom is astronomic. Ouoting \$200 million US as a conservative figure raised through the ransom of business executives, Ms Wright said this was calculated only from those known to have been paid, there were others not reported.

Sympathy is another method used to obtain funds. In the US many people support the PIRA believing it to hold the values of the old IRA, thinking that Ireland has remained as remembered from 1922/23.

In recruiting there was a need for two differing personality types. The active, those prepared to shoot or plant a bomb, and the passive, those described by Ms Wright as 'the sea in which the fish swim — those allowing the active terrorist to exist'

Propaganda by terrorist groups shows that responsibility for crime is assumed collectively, promoting a high military profile. The glory of the prisoner image is used, and prominence is given to martyrdom and death. Illustrating the effective use of propaganda

is the use of incidents involving death which are immediately followed by a denial by the active group, but a media statement is

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Joanna Wright

# Good crop of ARGS grants for 1986

A grant of \$48,800 for a project in Papua New Guinea is the largest of 51 grants totalling \$844,000 awarded to members of the University under the Australian Research Grants Scheme for 1986.

Dr Donald Gardner and Dr Robert Attenborough of the Department of Prehistory and Anthropology will use their grant of \$48,800 to undertake a study of the Mianmin people of New Guinea.

A large proportion of the grant will allow the employment of a female graduate Research Assistant, preferably a New Guinean from the University of Papua New Guinea. This role is vital to the research being undertaken as it requires interviewing women about their reproductive histories, beliefs and practices, and possibly contraceptive and abortive practices which Mianmin women prefer to keep from the men.

A female co-worker is also regarded as essential by the team in surveying food consumption within the communities which have cultural values attached to food.

The Research Assistant will be employed for a full six months because the quality of information she is able to obtain will depend on her development of genuine social relations with Mianmin women, and this in turn depends on the time available to her.

The overall concept of the research planned by Dr Gardner and Dr Attenborough is to produce useful data for national and international agencies concerned with the development of policies oriented toward small scale societies in the tropics.

The team leaders have discussed the project with the Mianmin community leaders who are keen for it to proceed. The Mianmin people, among whom Dr Gardner worked for 20 months as a Ph.D student, occupy the northern fringes of West Sepik Province's central mountain ranges, close to the geographic centre of New Guinea.

The 2,000 or so Mianmin are hunterhorticulturalists whose main subsistence crop is taro. Living at population densities that rarely exceed two persons per square kilometre, they cultivate their gardens by land intensive methods in virgin forest or very old secondary growth. They move settlements regularly, and often over considerable distances, in response to the need to maintain access to good garden land and high hunting returns as well as to such social factors as local antagonisms.

Malaria is a very important factor affecting the distribution and success of human settlement, but this factor is conditioned by aspects of settlement and subsistence practices as well as other cultural factors.

It is the intention of the research study in investigating settlement, demography, and the

productivity of subsistence in high and low altitudes to reveal the nature of the problems faced by lowlands Mianmin and unravel the inter-relationships between those problems as they present themselves within the context of Mianmin culture.

Other major grants under the ARGS were: • \$46,000 to Dr Bill Ramson and Ms Joan Hughes of the Department of English for the 'Compilation and editing of the Australian National Dictionary

• \$35,000 to Dr Bruce Chappell of the Department of Geology for 'Genesis of Granites', and

• \$33,254 to Dr Maureen Longmore of the Department of Geography for 'Palaeoecological-limnological record in two perched lakes on Fraser Island with special reference to evolution and management of perched lake catchments'

• A continuing project which also received funding allows Dr Mark Dickerson of the Psychology Department to continue his research on adult gambling and the psychological factors associated with persistent gambling.

The grant will enable Dr Dickerson to continue his project which will involve a study of 30 subjects for a period prior to Christmas, which will be available in the new year.

Further research following the patterns which evolve from the study will continue over a three year period and the results of the research will assist in providing better help for compulsive gamblers and add to the knowledge on the psychological factors which contribute to other addictions.

Commenting on the 1986 ARGS grants the Vice-Chancellor, Professor Peter Karmel, said that the ANU led the field in the rate of successful applications for grants. The ANU

staff members had a success rate of 62 per cent for new applications and 100 per cent for renewals compared with the national average of 44 per cent and 90 per cent respectively.

However, Professor Karmel pointed out that while the academic staff of The Faculties amounts to 3.9 per cent of the total Australian academic staff they make only 2.9 per cent of the proposals to ARGS. Staff members of The Faculties have tended to put forward fewer proposals than other institutions.

#### Campus mardi gras on again

After a highly successful effort last year, the University Union has decided to stage a follow-up New Year's Eve Mardi Gras.

Some 3000 people are again expected to invade Union Court and the Union Building for the massive end-of-year celebrations. Union Court will house a complete side-show with some twenty attractions, while inside the building six bands will compete for the crowd's favours.

Five bars and two food outlets will guarantee that no-one will have to enter the New Year either thirsty or hungry. A small army of security guards and traffic officers will be on duty, while in the early hours of 1986 the Union cleaning staff will have the dubious pleasure of removing the rubbish and restoring Union Court's grandeur.

For information contact Leo Huys at the Union on 2004.

### Briefly

#### **New ARGC Chairman**

Professor Don Aitkin, Head of the Department of Political Science, Research School of Social Sciences and Chairman of the Board of the Institute of Advanced Studies will become Chairman of the Australian Research Grants Committee on 1 January next year. Professor Aitkin, who has been a member of the ARGC since 1981, will succeed Professor Peter Sheehan.

#### **Gallery** exhibitions

The Australian National Gallery has announced two exhibitions to be held in the University Drill Hall Gallery.

*Lightworks* — works of art using light as a medium will be on display from 4 December until 23 February.

Are You Experienced? — an exhibition of San Francisco Acid Rock posters featuring some of the most famous rock bands of the sixties. This exhibition will open on 21 December through until 19 January.

#### **Reserve Bank post**

Dr Bob Gregory, Professorial Fellow in the Department of Economics, Research School of Pacific Studies, has been appointed to a five year term as a member of the Board of the

# Dr McCawley to ADAB

Dr Peter McCawley of the Department of Economics, Research School of Pacific Studies, is to take three years leave of absence following his appointment to a senior position with the Australian Assistance Development Bureau (ADAB).

ADAB is currently undergoing a restructuring following the presentation of the Jackson Committee Report to which Dr McCawley contributed as a committee member. The committee was concerned that ADAB needed upgrading as an effective aid organisation, and made clear recommendations to improve its effectiveness.

Dr McCawley said that the Minister for Foreign Affairs, Mr Hayden, would soon announce the government's official response to the Jackson Report, but one idea presented was already being put into effect and that was Reserve Bank of Australia. Dr Gregory has been appointed in place of Emeritus Professor Trevor Swan.

#### **Buddhist seminar**

A seminar arranged by the ANU Buddhist Society will be held from 9am-5pm on Saturday 7 December at the Asian Studies Common Room. The points of view and practices of four Buddhist traditions will be presented by teachers from Australia, Thailand, Korea, Vietnam and Tibet.

The seminar will be suited to people with only a limited knowledge of Buddhist practice.

A follow-up lecture, *Personal growth* — *a Tibetan Buddhist approach*, will be given by a Lama Choedak at 7.30pm on Monday 9 December at the Asian Studies Common Room.

Enquiries to Dr Tissa Rajapatirana x3223/ 3163 or Stephen Fisher 488475.

#### **Primate society**

At the annual meeting in Melbourne on 16 November, Dr C.P. Groves of the Department of Prehistory and Anthropology, Faculty of Arts, relinquished the Presidency of the Australian Primate Society (APS) to Mr David Langdon of the Zoological Gardens, Adelaide. Mr Vern Weitzel of the Department of Prehistory and Anthropology retained the position of Treasurer and Newsletter Editor. The APS promotes both responsible research and conservation of non-human primates.

the widening of arrangements to encourage the employment of qualified people from outside the Public Service. He said a number of ANU-trained people were presently employed, particularly those with experience in developing nations, and he sees his recruitment also in this light.

The restructuring of ADAB has resulted in the creation of three divisions within the Bureau: the Country Programs Division; Policy Planning and Management; and Community, Commercial and International Programs.

Dr McCawley will be Deputy Director General, at First Assistant Secretary level, to the Policy, Planning and Management Division, where one of his principal concerns will be the maintenance of policies consistent with the overall priorities of the foreign aid program.

During the term of his appointment Dr McCawley will maintain links with the University and academics working in developing countries.



Part of the ANUKIDS organising committee who gathered for the draw of the campus-wide raffle by the Assistant Vice-Chancellor, Mr Colin Plowman. The raffle was held to raise funds for the ANUKIDS Christmas Party at the Staff Centre. The prize of a \$150 credit union account was won by L. Brown who was present at the draw. The annual ANUKIDS Christmas party will be held on Sunday 15 December at 11am until 3pm in the grounds of the Staff Centre. Those wishing to attend should remember to apply by Monday 9 December.

#### **ANU-Beijing Exchange**

In December 1980, an Agreement for Academic Exchange between ANU and Beida was signed in Beijing. The two universities agreed to exchange academic staff as Visiting Scholars to engage in research and advanced study and to make all arrangements on the principle of reciprocity.

For ANU Scholars, it is expected that travel expenses to and from Beijing will be funded through the appropriate section of the ANU, while living expenses and fees in Beijing will be met by Beida.

Applications are now invited from ANU staff and postgraduate scholars who wish to undertake research in China in 1987. Applications from the natural science disciplines would be particularly welcome. Applicants do not have to stay for a full 12-month period, but it would be preferable if they could stay for reasonable fractions of that, say, three, four or six months. Expressions of interest and other inquiries are welcome.

Detailed applications including a description of the project and the reasons for being based at Beida should be forwarded for consideration by the Chinese Universities Exchange Committee by Friday, 11 April 1986. The Committee will expect the successful candidate to produce a written report on completion of the visit to Beida.

Inquiries may be directed to the Chairman of the Committee, Professor Wang Gungwu (Department of Far Eastern History, RSPacS).

Applications (in writing) should be forwarded to: Christopher Marshall, Assistant School Secretary, RSPacS/RSSS, Coombs Building.

#### **ABC-Universities debates**

The Australian Broadcasting Corporation will produce a series of nationally televised debates from Australian universities next year.

The series will consist of at least six debates on topics of current interest and will probably go live to air from university campuses. Academics from the universities will take part in the debates along with other prominent people.

The ABC wants the Chairman/Presenter to come from the university community and has asked Information Officers at each university to provide nominations.

If you are able to nominate someone who could fill such a role please contact University Information x2633/2229.

#### **University House**

University House has long been anxious to make some of its facilities available to a wider section of the University community, while reserving the remainder for the use of financial members of the House and for residents and visitors from interstate and overseas.

Recent amendments to the University House Statute have enabled the House Governing Body to make an Order allowing access to the Cellar Bar and the adjoining Fellows' Garden as well as to the Bottleshop-Buttery to all members of the staff of the University, academic and non-academic, and to postgraduate students.

The Cellar Bar offers inexpensive selfservice lunch from 12 noon to 1.30pm and dinner from 5.30 to 7.30pm, Mondays to Fridays.

The Bottleshop-Buttery is adjacent to the Cellar Bar and offers a wide range of wines, spirits, beers, and soft drinks, as well as a range of groceries. House-baked pastries and flans are on sale and fresh salad rolls are available at lunchtime, Mondays to Fridays.

Beginning on Friday 29 November the Bottleshop-Buttery will be selling a packaged self-cook barbecue lunch every Friday which will include steak, sausage, herb bread baked on the premises, and an appetising salad.

A barbecue will be provided for this purpose in the delightful setting of the Fellows' Garden. Bargain-priced wines will be available from the Bottleshop as well as a large selection of soft drinks and fruit juices.

Financial members of the House will continue to enjoy its other amenities, notably the Bistro, the well-stocked Library and Record Library, the various Club activities, and reciprocal membership with a steadily growing number of interstate and overseas clubs

#### **Photographic competition**

More on that photographic competition University Information is running:

• The prize will be publication of the 100 winning photographs in a colour book about the University to be published next year when ANU turns 40.

• Any format will do but colour transparencies will be required, along with a print no larger than 200mm x 250mm.

• Don't forget the three themes — the site, the people and the work of the University.

For more information contact University Information x2633/2229.



Dr Desmond Brown, the Head of the Medical Chemistry Group, JCSMR, retires at the end of the year. He joined the University in 1949. Dr Brown has worked for thirty seven years on the chemistry and biology of the pryimidine and fused pyrimidine series of compounds and is the world authority on pyrimidine chemistry.

During his career he has supervised more than 20 PhD students and numerous postdoctoral workers. The Doctorate of Science degree (London University) was conferred on him in 1961.



Despite his retirement at the end of this month Dr Charles Price, a Professorial Fellow in the Demography department, RSSS, plans to continue with his life's research into modern Australia's immigration and ethnic policies. Dr Price has been with the ANU for over 33 years.



A major breakthrough in scribing and colour plotting which produces quality plates for accurate map production has been achieved through the work of Mr Simon Wild in the Department of Human Geography, Research School of Pacific Studies.

Mr Wild has worked on the software needed for the computer cartography and geographic analysis system for three years, and the results are now being utilised by the Department in a number of current projects.

The software was written 'in house' by Mr Wild to suit the specific needs of the Department and its hardware. The hardware consists of a Tektronix 4115B terminal and storage device and the Swiss Wild Lietz plotter which were selected by the team involved in the project after careful consideration. The possibility of increasing the systems capacity by the introduction of extra graphic terminals is being considered as this would provide a 'natural marriage' of the data base management software into a central store providing an accessibility to data, its management, storage and output in a powerful and useful tool.

The hardware was only recently acquired by the computer cartographic team, and it was purchased through a grant from the Boardman Committee which administers grants for university equipment.

The cartographic packages designed by Mr Wild have wide application, particularly the development of the colour technique which enables the cartographer to interactively 'paint' full colour thematic maps on the computer graphics terminal and then have it automatically plotted out as colour separates on the scribing plotter. The maps produced by this technique can be used to make colour printing plates using normal cartographic material with great savings in time and cost. Detailed map projections for any part of the world can be produced with changes in projection, scale or view through the cartographic system. Each map projection has an accompanying palate of 50 colours and by combining palates within the computer Mr Wild said it was possible to produce infinite colour variations. All colours used can be split into their primaries for easy print separation.

The application of the system in the field of geographic analysis, however, is where the system will reach its full potential. The system can be utilised in a multiplicity of disciplines including prehistory, geography, land use planning and mapping census statistics. Two major analysis packages are currently running. These are GIMMS developed by Tom Waugh of Edinburgh University and the Map Analysis Package developed by Professor Dana Tomlin of Harvard University. GIMMS is useful in the analysis of geographic distribution, statistical and demographic data, while MAP is orientated toward land use planning.

At present research by Professor Harold Brookfield, Head of the Department of Human Geography, on agricultural plotting in New Guinea is being used for a range of statistical analysis and interpretation. A mass of detailed information on regional activity can be broken into many varying subject areas to provide comparative analysis on population, land use, drainage, road systems and the cost effectiveness of future development in the area.

Computer cartography and geographic analysis are new subject areas in Australia and in overseas centres such as Edinburgh and Durham the techniques are being taught to undergraduates equipping them to deal with a shift in the applications of Geography.

The ANU Project will be reviewed toward the end of this year and although it appears unlikely to cease operation a wider use of its multifaceted facility would ensure its longterm viability.

### Summer science

The ANU will again participate in the National Science Summer School which provides a unique 'hands on' experience for final year secondary school students.

During the Summer School about 233 senior students from all over Australia will meet leading scientists, and visit scientific and national centres in a program aimed at stimulating scientific interest. Students are selected, following applications, on the basis of aptitude and proven abilities. Approximately equal numbers of boys and girls are selected and all areas of Australia are represented on an approximate population basis.

The two week program provides a broad overview of the whole spectrum of science and all students attend parts of the course designed for that purpose. In addition, about one quarter of the course time provides students with 'hands-on' experience in various specialised topics of their choice.



At a gathering in University House to launch three books published by the Australian Academy of the Social Sciences in Australia are Dr Greg Tegart, Secretary of the Department of Science (left), Professor Norman Feather, Flinders University of South Australia, Professor Jacqueline Goodnow, Macquarie University and Professor Don Aitkin, ANU. The publications were Women, social science and public policy (eds J. Goodnow and C. Pateman); Surveys of Australian political science (ed D. Aitkin) and Australian psychology — review of research (ed N.T. Feather). All three volumes were published by George Allen & Unwin.



Bruce Hall on the offensive against CRES in the 1985 grand final of the University touch football competition. CRES won 5 to 1.

# Meeting on forests highlights divisions

A national workshop on hardwood forests organised by the Centre for Resource and Environmental Studies (CRES) has pointed up the deep divisions between interested groups in Australia.

The fundamental objective of the three-day meeting was to see whether it was possible to find an agreed approach that could be taken across the broad areas of commercial forests, one that would take positive steps toward social, economic and environmental benefits.

The aim was to try to turn the confrontationist debate around from the 'stop it' versus 'log it' arguments to a more constructive approach.

More than 120 people attended the workshop including scientists from the CSIRO and universities, industrialists, conservationists and unionists. It was the first time a meeting of all such groups has been held.

An organiser, Dr John Dargavel, a Research Fellow in CRES, said the conference was the first step on a very long road to reconcile the resources and environmental issues in Australian hardwood forestry.

'It didn't succeed in turning the debate around,' he said. 'Perhaps this was overoptimistic. It has made me realise that there is an enormous amount of work that needs to be done to achieve better prospects for Australian hardwood.'

He said some positive suggestions did come out, one being the establishment of an Australian Timber Corporation, modelled on the Australian Wool Corporation. This could overcome the serious inadequacies in research and development, and marketing, within the industry at the present time.

Bright prospects for the industry included a lot of new technological advances which were underway and the potential for some exciting export opportunities. Also, on a positive note, regional advisory committees were being established.

'There is an industrial plan being prepared for the industry under part of the Manufacturing Industry Council', Dr Dargavel said. 'This is one of the developments flowing from the Accord, and one likely to provide significantly better prospects, and it appears, better relationships between the unions, industry and some State governments.

'The plan is from the Forestry and Forest Products Industries Council and appears to be one of the most positive developments in the sector'. Dr Dargavel said that although the workshop did try to get some positive projections for the broad areas of Australian hardwood, this was not achieved.

'There are deep divisions between industrial use and preservation for conservation value.

'People concerned with conservation suggested that plantations of eucalypt should be developed in order to take the pressure off the natural forests, and this would maintain employment.

'The idea of developing high value plantations was widely agreed upon, but generally the foresters and industry people thought these should be additional activities and not replacement activities.

'The foresters also believe that broad areas of natural forest outside National Parks could be maintained for many uses which included timber production, but this was not accepted by most of the conservationists,' he said.

It was from discussion on issues such as these that it could be seen that there was little prospect in the immediate future of broad agreement being reached by the different groups.

Dr Dargavel said however that the workshop did generate a degree of goodwill and developed a firm basis for constructive discussion to be undertaken in the future.

#### **Internships for students**

The ANU Careers and Appointments Service has organised a pilot program of vacation internships to provide final year students with on the job work experience.

The scheme has been used on an internal basis for some time and it was agreed in principle that an external experiment in seeking job placement should be conducted.

As a result an agreement with the Public Service Board for temporary positions at a higher grading, such as research assistant, has been arranged and several large companies in the private sector have also been contacted for their support in providing suitable positions. Competition for the internships is expected to be strong, with about 20 places available externally and a number to be found on campus.

Organisers said that the response to the internship program has been positive, particularly from the Public Service Board, some mining companies and a firm of architects.

#### Terrorism from page 3

presented in time to catch a late broadcast, and too late to allow government sources to reply.

Discipline within the terrorist organisation is maintained through intimidation and punishment shootings. Most terrorist groups work on a cell structure, with leadership of critical importance. In the case of the PIRA, changes in leadership can be reflected in the type of policy carried out with swings between violent or political actions observed.

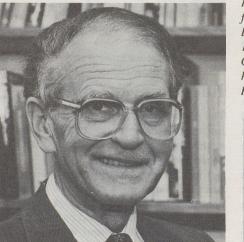
Terrorism can be countered on four levels. On a global level an effective approach is the hardest to achieve. The United Nations has failed to define terrorism and is plagued with differing ideologies and beliefs. Specific types of terrorist activities, such as hijacking, are easier to make agreements on, and the 1978 Bonn economic summit of seven nations agreed to deny a political haven to hijackers and to implement economic sanctions on those who do afford sanctuary. In May 1984 Western leaders at a London summit sought ways of ending violence promoted from behind a shield of diplomatic immunity. Ms Wright said prosecuting terrorists at this level was difficult, not through lack of communication but because of the individual legal systems which do not facilitate the law of extradition.

Regional co-operation, particularly between western European states, which record the second highest level of terrorist activity, has also proved difficult, due mainly to varying definitions of crime and problems encountered in ratifying agreements. The European Economic Community has signed an agreement between member countries on the restriction of terrorism. However Malta and Ireland refused to sign and France has shown reluctance in complying with the accord, perhaps due to a fear of economic reprisals, particularly oil sanctions, and this illustrates a failure to control terrorism through selfinterest.

Sovereign states, Ms Wright suggested, wishing to counter terrorist attack need to apply their legislative systems in unison. This she said, had proved most effective when Britain and Ireland passed identical acts in conjunction. This system is limited to smaller nations and requires close co-operation.

At a unilateral level the most obvious and proven guard against terrorism is improved security and greater public awareness. Ms Wright described the posters in the London

#### Retirements



Although Professor George Zubrzycki (above), of the Sociology Department, The Faculties, is retiring at the end of this month, he will continue his long association with the ANU as a Visiting Fellow (without grant) in the Sociology Department, RSSS.

Professor Zubrzycki first came to the ANU in 1956 to work as a Research Fellow in the Demography Department, RSSS. In 1970 he was appointed Foundation Professor of the Sociology Department, The Faculties and has filled that position until now. underground which provide constant graphic impact, and other countries require bag search on entering department stores or public transport.

This violation of civil liberties can have an adverse effect in public reaction to authority. The effect on democratic life is the greatest threat and challenge international terrorism represents. Free democratic societies need to find the balance between protecting their citizens, while also guarding against the loss of freedom.

Terrorism can only exist in a true working democracy or ineffectual dictatorship according to Ms Wright. Democracies through their very nature, provided an ideal breeding ground for terrorist activity and the financial systems made tracing terrorist funding almost impossible. Ms Wright said it was of utmost importance for governments to work toward the elimination of all forms of terrorism by the provision of liberal democratic values, the alleviation of economic and social distress, and adequate political representation for all sections of society.

No-one, and no country could become isolated from terrorism. Australia had enjoyed a peculiar lack of political violence which could be explained through its geographic isolation.

In concluding her thesis, Ms Wright will draw a comparative study between Australia and other nations where terrorist activity has become part of daily living. She said that the favourable position currently enjoyed may not last much longer, and she showed interest in the development of local terrorism and the strategies employed against it during her stay over the next two years.

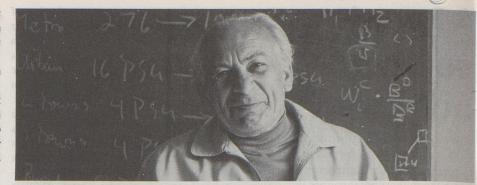


for Aboriginal Australia has been one of the most rewarding features of my work with the University,' Professor John Mulvaney (above) of the Prehistory and Anthropology Department, The Faculties, told the ANU Reporter. Professor Mulvaney is retiring this month. He first came to the ANU in 1965 to work in the Department of Anthropology, RSPacS. In 1971 he was appointed to the Foundation Chair of the Prehistory Department which he has filled until now. During his retirement, Professor Mulvaney plans to write several

books on Aboriginal Australia.



Mrs Sybil Thomas (above) will retire from the Research School of Chemistry after 17½ years this month. She started as a clerk grade 1 in 1968 and on her retirement has risen to acting Purchasing Officer. Friends at the School will miss her but Mrs Thomas plans to stay in Canberra.



Smiling at the thought of long days spent fishing Dr Lado Ruzicka, Professorial Fellow, Demography, RSSS, contemplates his retirement at the end of this month. Dr Ruzicka has spent 14 years with the ANU. In his spare time Dr Ruzicka hopes to finish several books, including Mortality Rates in South East Asia. Before coming to the ANU, Dr Ruzicka worked as a UN consultant at the International Institute for Population Sciences in Bombay and at the UN Population Division in New York.

# ANU Press out but not down

ANU Press is alive and well under the management of Pergamon Press Australia, Marketing Manager, Mr Don Bradmore said recently.

Several titles have been released under the new arrangement whereby Pergamon Press bought the backlist, works in progress, and the ANU Press imprint. The acquisition of ANU Press was formalised on January 1, 1985, and under a contractual obligation, this arrangement will continue for the next 20 years.

Already three ANU Press titles have been published — Merinos, Myths and Macarthurs by Garran and White; A History of Forestry in Australia by L. Carron; and Metaphors of Interpretation by Barwick, Beckett and Reay. Just before Christmas another book of wide

Dr Leslie and Margaret Carron have announced their 'his and her' retirement plans for next year. Dr Carron, a Reader in the Forestry Department, Faculty of Science, first joined the Forestry unit in 1949 when it was still administered by the Commonwealth government. He is the author of a number of books, including the acclaimed *History of Forestry in Australia*. Dr Carron hopes to continue his long association with the ANU as a Visiting Fellow.

Mrs Carron, a research assistant in the Director's Section, RSPacS, has been with the ANU for nearly 18 years. She previously worked as the research assistant for ANU's former Vice Chancellor, Professor Anthony Low. Next year Mrs Carron plans to start a local editing business.

Mr Wolf Krause, a Workshop Supervisor at the Research School of Biological Sciences, will be retiring in February next year. He has been with the ANU for nearly 17 years.

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Professor Kenneth Le Couteur, of Theoretical Physics (RSPhysS), is retiring this month. He has been with the ANU for 29 years.

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Ms Olga Tognella is retiring from the ANU at the end of December. She has worked as a cleaner at the University for more than 16 years.

\*

Dr Robert Brown will be retiring this month from his position of Professorial Fellow, History of Ideas, RSSS, after 29 years service with the University. Dr Brown will continue his association with the University as a Visiting Fellow. appeal will be released. Entitled, *Dear Fanny*, it is a collection of letters from early women settlers to friends and relations. Edited with an introduction to each letter by Helen Heney, the work gives a vivid insight into social customs and mannerisms of early settlers.

Early next year an impressive work by joint authors, J.O. Langtry and Desmond Ball will be published. Titled, *The Vulnerable Country*, it details the Australian Civil Defence resources and includes a foreword by the Prime Minister, Mr Bob Hawke.

The authors are from the ANU Strategic & Defence Studies Centre and Desmond Ball is co-author of another book to be published next year, *The Future Role of Arms Control*, by Desmond Ball and Andrew Mack.

Andrew Mack is also publishing a book, *Peace Research in the 1980s. Our Daily Fix. Drugs in Australia* is a title of topical interest by Valerie A. Brown et al. Dr Brown is a member of the Capital Territory Health Commission, Division of Health Promotion.

Other books to be published by ANU Press in 1986 include Colin Hughes' Handbook of Australian Government and Politics; and Lech Paskowski's, Poles in Australia and Oceania 1790-1940.

#### Visit by Nobel laureate

Professor Roald Hoffmann of Cornell University, winner of the 1981 Nobel Prize in Chemistry, will spend the week beginning January 20 at the Research School of Chemistry.

The main purpose of his visit will be to present the Sixth A.J. Birch Lecture Building Bridges between Inorganic and Organic Chemistry, although he will also give a lecture on the History and Development of the Orbital Symmetry Concept based on research for which he shared the Nobel Prize in 1981 with Kenichi Fukui from Kyoto University.

Professor Hoffmann, who was born in Zloczow in Poland in 1937 and who unlike most of his family was lucky enough to escape the ravages of the Nazi occupation, is also a keen student of the humanities and will give a public lecture on *One Culture*, a critique of C.P. Snow's analysis of the rift between scientists and technologists on the one hand, and humanists on the other.

For further information concerning Professor sor Hoffmann's visit please contact Professor Mander, ext 3761.



# Thus spake the grape

## The 1985 Poets' Lunch

Once again the Poets' Lunch, held at the Staff Centre last week, proved that weather most foul cannot dampen the spirits of Canberra's great poets, nor hinder the thirsts of the University's poetry buffs.

As the rain lashed the leafy environs and the tarpaulin top, the dozen poems on offer that afternoon — composed to celebrate the Staff Centre's Christmas Wine List — ranged rather haphazardly in taste, tone and temerity.

The selection began with a full-bodied and very spicy contribution by Alec Hope to be followed by some cheeky verse by Lyle Cullen. Some most excellent odes to the grape, some acidic, others presumptious, and not all with a clean finish, came from Anne Edgeworth, Bob Brissenden, Timoshenko Aslanides, Peter Kent and Mary Lang. John Rowland in his poem apologised on behalf of his gender for the unfortunate line; 'Wine and Women', and concluded that 'You're a person, not a piece of cheese? — And I'



Undoubtedly the most loudly applauded and perhaps the most appropriate poem unravelling some of the mysteries of academe came from Philip Grundy, titled *Acton Activities*.



Philip Grundy

from page 8 epigraphy from Prehistoric to Islamic period. Closing date 1 February 1986.

Tokyo Foundation Scholarships to non-Japanese Postgraduate Students 1986. Closing date 20 December 1985.

Royal Dutch Shell Scholarship in Geology or Geophysics. Closing date 28 February 1986.

Mate 28 February 1960. Metalliferous Mining Scholarship; James Capel Bursary; William Selkirk Scholarship; Marston Fleming Memorial Bursary; Haarlem E. West Scholarship. Imperial College of Science and Technology. Closing date 30 June 1986.

Department of Education Fellowships for Venetian Research. Closing date 20 January 1986.

Marten Bequest Travelling Scholarships. Painting, Sculpture and Architecture. Closing date 31 December 1985.

Details on the following scholarships may be obtained from the *Graduate Students Section* loto cated on the lower ground floor of the Chancelry Annex.

ANU Postbachelor Travelling

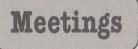
Scholarships 1986. Closing date 31 December 1985.

R.G. Menzies Scholarship to Harvard 1986/87. Closing date 31 December 1985.

Royal Commission for the Exhibition of 1851. Research Scholarships in Pure and Applied Science and in Engineering. Closing date 14 February 1986.

St John's College Cambridge. Research Studentships. Closing date 1 March 1986.

Foreign and Commonwealth Office Scholarships and Awards Scheme, The London School of Economics and The European Institute for the Media, The University of Manchester, Contact: British High Commissioner, Canberra, ACT.



International Summer Session, Uppsala University, Sweden 1986, Closing date May 15 1986, Contact: Uppsala University, International Summer Session, PA Box 256, S-751 05, Uppsala, Sweden.

The British Council, Effective teaching in higher education: an international seminar, 8-20 June 1986, Edinburgh, Scotland.

R,F. Brissenden



Anna Assel cuts the cake which marked her resignation from University House. Anna has left, after more than 20 years, to open a patisserie in Kingston with her husband.



The Gardening Staff recently celebrated the retirement of Walter Sawicki (third from right) by planting a Silver Maple, Acer saccharinum pyramidale, in the garden of the Vice-Chancellor's residence. With Walter are (from left) Stephen Fox, Leo Sawicki, Rose Karmel, Mrs Lena Karmel, Bob Fitzgerald, Rainer Rehwinkel and Ron Piatkowski.





Advertisements are restricted to staff and students of the University and members of Convocation, and to 20 words each. Normally, only one advertisement per person can be accepted for each issue. Typed advertisements should be sent or delivered to ANU Reporter, University Informa-tion. The envelope should be marked 'Advertisement'. No advertisements can be accepted over the telephone. The closing date for next issue is 5 pm Wednesday, 19 February, In-quiries 2229.

#### For Sale

*Mazda Capella*, 1972, 1600cc, reg Feb 1986, gd cond, \$900 ono; x3245.

Alfetta GTV 2000, 1977, immac. Alpha red, recond engine, gear-box & brakes, air cond, rad/cass, towbar, sunroof, \$7950; 541210 (ah)

*Caravan*, Viscount, 23', large fridge freezer, aluminium annexe, carpets, curtains, \$8000 ono; (044) 786113.

Campervan, 1980, Toyota Hi-Ace, ex cond, gd tyres, chrome wheels, inspection a must; 863797

Bush gear, children's, packs, X-C skis, boots etc, suit 8-12 years; x4570/814214.

Stove, Fisher Price & kitchen set, Kits, teach your baby to read/ teach your baby maths, Mattres-ses, (2) foam, 5' x 2'6'', all cheap; 383364 (ah).

Doona, child's, 130 x 84 cm, plus two covers, \$30; x3287. Swinging settee, outdoor, with canopy, vinyl cushions, gd cond, \$70; x4674.

Vacuum cleaners, GE, \$20; Hitachi, \$40; TV, National, B/W \$25: 888755.

Violin, full size, Austrian make, recond by G. Caldersmith & approved by School of Music teacher, \$400 ono; x4357/480337 (ah).

*Computer*, Sinclair QL, 32 bit, 128K, multi-tasking, integrated software suite, almost new, ½ price, \$550; x2539/417946.

Torana, LH, 1976, manual \$1250; owner going o'seas, Raymond Mau, Burton/Garran Hall, rm D168, x3083.

Bed, dble, pine with foam mat-tress, \$85 ono; Lounge chair, ex cond, \$25 ono; x4032/498742 (ah).

*Bike*, child's Cyclops Candy, 12" gd cond \$35; car radio, Clarion, press button, AM/FM stereo, ex cond \$30; x3101.

Blouses, (2) Sussan's, long-sleeved, grey & cream, 1 worn once, 1 unworn, size 16, cost \$28 ea; sell \$14 ea; x2106.

Stereo amplifier, Pioneer 12W, 2 speakers, Sony tuner, AM/FM, \$130; 512420.

Hardwood woodchips, \$40 per ute load delivered, approx 11/2 mtrs: 366382.

Weathershield Mazda, left hand, suit any 929 s/wagon since 80 L series, still in wrapper, \$15; x4035/515338 (ah).

Holden Sunbird, 1980, very gd cond, \$2750 ono; Typewriter, elec, Adler, \$350 ono; TV, Mitsubishi, color, \$170; Clock radio, Sanyo \$15; x3150/824731. Lodge, Jindabyne lake area, 3 br west cedar lodge, lge verandah, carport, shed, f/f & carpet, close to snow & lake, ex renting pot, \$78,000 or best offer; 861240 (ah).

*Typewriter*, Brother, electric BP30 as new, features correction, graphs, calculator, mains & bat-teries, \$288 ono; Electric frying pan, \$10 ono; x3245.

Caravan, avail for renting, Broulee Beach Caravan Park, Jan 1986, max 5 persons, Margaret Gray, x4565/489820.

Tent, Jamet, family, 2 > sleeping compartments plus liv-ing area, \$200 or best offer; Sloane x3424 (mornings), 976607

*House*, O'Connor, dble brick, 3 brm BIR, dble carport, studio flat, solar HWS, well kept, large yard, quiet street, \$105,000; 489949.

*GTR Torana*, 1970, collector's item, ex cond, 30,000 miles only, Lim, slip diff, TEAC sound, towbar, colour, burgundy, \$7,000; 542119.

*Garage sale*, speakers, fluores-cent lamp, elec heater, fan, clothes, mirror, law & economics texts, bike, helmets, Sat 14 Dec, 18 Lochbuy St Macquarie, 512006

Rear window, louvre sunshield for Holden HQ-HX-HZ, \$25; Seat covers, pair, highback, stretch, front covers, very gd cond, \$25; Repair manual Holden HX-HZ V-8, \$8; x2480/514797 (ah).

Electronic keyboard. Casiotone MT-65 \$180; Flanger & distor-tion pedals, \$50 ea; 733922 (bh), 514797 (ah).

Gemini SL, 1976 manual, four doors, \$2500 ono; x3163/ 953750.

*Cortina TD*, wagon, T-bar, auto, very gd cond, reg Oct 1986, \$2750 ono; x4671/822860.

Datsun, 200B GX, wagon, 1980, manual, low 87,000 km, 8 mths reg, ex mech, FM stereo, extras, avail Dec 20, \$4400; 494461/ 825391 (ah).

Ford Falcon, XA station wagon, 1972, reg end Jan 1986, very gd engine, colour brown, avail mid December, owner going o'seas, \$1200 ono; 822501.

Camper trailer, Coleman 9' ex cond, Aug 1983 model, 6 berth, \$4,300 ono; x2045/543520.

House, Page, 3 brm spacious lounge/dining, well est garden, quiet street, handy to shops, schools, Belconnen T.C. freshly painted throughout, \$82,500; x4676/545541 (ah).

Sailboat. Cobra 16' catamaran. as new, complete with trailer, sails in ex cond. Harken blocks, many extras, \$1700 ono; 884799 (bh), 887544 (ah).

Datsun 200B, ex cond, reg July 1986, \$5,600 ono; Washing machine, Hoovermatic \$100; Beds, dble & single, mattresses \$30; x4230/479357.

*Carpet*, beige colour, in gd cond, 2 pieces, 5.6 metres & 3.5 metres & some underlay, \$75 the lot; 583603.

*Computer*, Apple II compatible, disk drive, joystick, word-processor, games, softwares, \$450 ono: Toyota Corona, 1976, \$2000 ono: Rm B352. Burton/ Garran Hall, 3083.

Furniture, lounge/dining vacuum cleaner, fireplace equip-ment, curtains with extra mate-rial, f/length; x3034/951761 (ah).

Desk. antique reproduction, 45cm x 91cm with 1 large drawer & 4 small drawers, recently stained & revarnished profes-sionally, as new, \$270 ono; x3754 afternoons, 497092.

Highchair, baby, sturdy, collapsible, plastic & steel, ex cond, \$45; x3754 afternoons, 497092.

Hotplate, Malley's Whirlpool, benchtop 4 coil \$80; Padded table for massage or patterning,  $1870 \times 1140 \times 950 \text{ mm}$ ,  $\$90; \times 2433/$ 542688 (ah).

Windsurfer, Windrush Clubman Sailboard with mast & rainbow sail, ex cond, ideal learners sail, ex cond, ideal lea board, \$700; x3462/959543.

Diskettes, Memorex DS/DD 51/4, \$30 per box of 10, bargain price for this top brand, free sticker; x3764/477281.

Lawnmower, quiet, powerful 4 stroke, latest model Masport,

perfect cond, \$350; x4480/ 587378. Desks, (2) large, 164cm x 88cm

(with return), 80cm x 132cm, suit post grad; 470800 (bh).

*Falcon*, 1975, auto, ex cond \$3000; Bike, men's \$100; Sew-ing machine \$50; Various household items, avail end Dec 1985; x4234/417936.

*Electronic keyboard*, Yamaha PortaSound PS-400, 10 mths old, in case, AC power adapter, excond, \$150 ono; x2214/882176. Bike, suit 7 yr old girl; 478785 (ah).

Sewing machine, Empisal & cabinet, ex cond \$70; Folding bed \$25; x3106/413225 (ah).

*Stereo*, Pioneer, graph EQ, met-al, dolby, port \$230 ono; AIWA walkman, dolby record, metal etc, \$120; Speakers, Phillips, beltdrive turntable, \$120; Kean Wong; 493083.

Townhouse. Wybalena Grove. Cook, private landscaped complex in bush setting with two tennis courts, 2 br, study, car-port, \$95,500; 513646.

*Catamaran*, Stingray with trailer, 18', cotter sails, ex cond, \$3,800; x4473/543439 (ah).

Camera, Fujica AX-3, Tramron SP28-80mm zoom, new; Olympus 28-48mm zoom, new; x4770 *Bike*, Peugot, 10-speed, \$120 ono; Steel scuba tank plus back-pack \$120; Honda 250 \$200 ono; x4392/821770.

Windsurfer, Dutour wings suit beginner, \$375; 480651.

Kittens, delightful part Persian, grey, grey/white, toilet trained, \$4 donation RSPCA; x4619/ 489752.

Nissan Vanette, 6/8 seater, July 1983, 35,000 kms, reg March 1986, avail 11 Dec 1985, \$5800 ono; x3829/957607.

*Washing machine*, Whirlpool 1490, two speed, four cycle, heater, \$150 ono; x3829/957607. *Canoe*, Adam 12' inflatable \$250; Hills three-piece swing \$50; Hand flour mill, Retsell, \$50 ono;

Flokati rugs, 2 white and 1 grey, approx 3m x 2m each; \$100; x2633/2229.

Flute, De Ford, \$200; Violin \$200; Suzuki 3/4 size; x3689/ 485634 ah.

Camera Flash, Sunpack Auto 36FD for Nikon cameras, \$120; 474888 bh.

*Ford Falcon 500*, 77, rego 9/86, vcg, \$2500 ono; x3723/271829

*Mini Moke*, 82, rego 8/86, 42,000 km, \$3000 ono; x3723/ 271829 ah.

*Volvo 144 Deluxe*, 74, 135,000 km, \$3000 ono; x3762/542278 ah.

Accommodation available

Mossy Point, comf cottage for rent, Feb, \$140/week; 486335 evenings.

Ainslie, 3 bdrm unf house, 6 mths lease; 470136.

Rosedale Beach, ff holiday house; 470136. House, Mar-Oct 86, low rent, 10

mins city; x2632/544050.

Red Hill, comfortable centrally heated house, f/f, avail late April — Dec 1986 mod rental for suitable couple/small family, willing care garden/spaniel; 492134/953390.

*Queanbeyan*, 2 br new home, est garden, avail mid April 1986 — end March 1987, \$160 p.w.; 20 mins to campus; x3557/978784. Balmain, house avail 18 Dec

1985 for 6-8 weeks; 493451.

Aranda, 3rd person sought for group house, \$47 p.w., \$15 for food kitty, conversation & good music; 511493.

Surfside, waterfront home on quiet sandy beach, avail for holidays from 7 Dec 1985, no TV or washing machine, \$500 for 2 weeks, longer periods, neg weeks, lon 477629 (ah).

Dickson, garden flat, self con-tained, f/f, in quiet street, close to shops, suit single person, \$75 p.w. avail after Xmas; 480236 (ah).

*Cook*, modern, split level, 3 br, unfurn townhouse, internal ac-cess to garage, ex position, avail Dec 6 1985, \$160 p.w.; 540468. Hackett, house, f/f, 3 br, 2 studies, or 4 br, 1 study, lounge/ dining, avail 8 Feb-4 Oct 1986, children welcome, \$160 p.w.; 488171.

Lili Pilli, charming cottage in bush setting close to two beaches, 2 br (1 up, 1 down), sep shower & toilet downstairs, f/f & equipped, avail Dec-Jan: 516007 (ah). From November to February cheap accommodation able at Burton and Garran Hall for individuals or groups. Room only, with shared kitchen facilities if desired. For details, con-tact the Bursar, Mrs Powell, on ext. 3083.

Lyneham, 2 br unit, furn/unfurn, clothes dryer, carport with stor-age space, courtyard, avail early Jan 1986, long lease; x4584/ 497342.

Griffith, house, avail mid Jan 1986, 3 br, separate lounge/ dining, eat-in kitchen, recently painted throughout, close shops & schools, \$185 p.w.; 950221 (ah).

*Turner*, house to share, non-smoker, lovely garden, \$57 p.w.; 488087.

Dickson, 1 br in share house with two grad students, close to shops & transport, avail now, \$45 p.w., \$180 bond, Nathan x3424/ \$180 473353 (ah).

*Spence*, f/f, 2 br house (with study), avail 21 Dec — 10 Jan 1986, \$140 p.w. 587700 (ah).

South Coast, seafront home now available for holiday renting to responsible adults; (044) 725240

(ah). Huskisson, house 3 br, f/f close shops, beach, avail 21-27 Dec 1985; 546001 (ah).

**Accommodation Wanted** 

Share accommodation, or willing to mind house. Ph.D student returning to Canberra mid De-cember 1985, Miss A. Filloux, C/- Dept of Indonesian & Malayan Studies, Sydney Uni-versity, 2006, or phone (02) 3324890 versity, 20 (02) 3324889.

*Male*, non-smoking, quiet re-sponsible, professional (lawyer) would like to mind/rent f/f home for 12 mths from Jan 1986; 896332.

House, 2/3 br to mind/rent for professional couple with one small child from 2 Jan — 8 March 1986, City or Braddon area pref, will care for garden/ pets; 473103 (bh).

Unit/Home, needed near ANU and/or transport for visiting Fin-nish married couple from Dec to end March 1986, will carefully look after home, pets, plants etc, in return for low to minimal

#### Secretarial

Wordprocessing, on top equipment, manuscripts, theses, essays, CV's, accurate work, schedules met; 479465/571236.

rental; x4035/514254 (ah).

*Typing*, quick, cheap, all types of work, free pick-up & delivery if required; 470839.

Typing, theses, reports, assignments etc, professional service, any quantity; 586758 (ah). Wordprocessing, for theses, re-

ports & essavs etc. drafts given for editing, finals on daisy wheel printer; 544233.

*Typing*, theses typing on IBM golfball machine; 814540.

Group Travel to UK, in June

Typing, essays, theses, on IBM golfball machine; 811163.

#### Miscellaneous

(high season) 1986, considerable savings on return fare to London are avail to several people by

joining a bulk booking being organized by ANU Scientists for last week of June 1986; contact: 4261/313892 (ah). Airline ticket, to Malaysia, eco-

nomy class, cheaper than normal price, avail between Feb-May 1986, J. Lee; 493083 (leave

Scuba divers, marine biology courses starting Jan 1986; 546001

ANU Skindiving Club, marine

biology, underwater naturalist course starts 15 Jan 1986, 6.30-10pm; 546001 (ah).

ANU Skindiving Club, Diving Intervarsity, 1-7 Feb 1986, all week Jervis Bay, Bristol Point; contact: Chuck Young, x5111.

Roger, free until 14 December 1985; x3779 for appointment.

Academic

Diary entries for the next issue

Field States and State

ALL diary entries on forms available from University In-formation, x2229.

Urban Research Unit. RSSS sem.

Max Neutze — Urban studies in Australia: Ten years on, 2pm,

Demography, RSSS sem, Dr Charles A. Price — The Wander-

ANU Women's Club Christmas

*Party*, Final coffee morning of the year will be the club's Christmas Party. Members are invited to attend the festivities,

10am-noon, Molly Huxley rm, University House, children wel-

Economics RSPacS/RSSS sem. W. Max Corden — The deprecia-

tion of the Australian dollar, the current account and wages, 2pm,

RSSS School Seminar, Philip

view of the state, 2pm, sem rm

Pacific & Southeast Asian His

*tory, RSPacS sem,* Ranajit Guha — Idioms of dominance and subordination in Colonial India,

Demography, RSSS sem, Dr K. Srinivasan — Recent large-scale

sample surveys relating to fertil-ity, mortality, and health in India:

(2) Characteristics and correlates of contraceptive use in Orissa

State, India, 3.30pm, sem rm A,

University Toastmasters Club,

Christmas Party, visitors wel-come, 12.30pm, sem rm, Chifley

International Relations, RSPacS sem, Panel — SDI, 11am, sem rm B, Coombs.

RSC, Lecture course, Professor R. Hoffmann — Introduction for

organic and inorganic chemists to solid state, extended structures,

RSC, The Sixth A.J. Birch Lec-ture, Professor R. Hoffmann —

Building bridges between inorga-nic and organic chemistry, 8pm, RSC LT.

RSC School Lecture, Professor H. Taube — TBA, 4pm, RSC

RSC School Lecture, Professor

**Monday 20 January** 

9am-12.30pm, RSC LT.

**Tuesday 21 January** 

3.45pm, sem rm E, Coombs

**Thursday 12 December** 

A social democratic

sem rm C, Coombs.

A, Coombs.

Coombs.

Library.

LT.

Wednesday 11 December

Spirit, 3.30pm, sem rm A,

**Monday 9 December** 

sem rm D, Coombs.

Coombs.

come.

**Tuesday 10 December** 

Diary

message).

(ah).

R. Hoppe — To describe — A bridge between to know and to

understand? (Starting with the problem of Picasso), 2pm, RSC LT.

RSC Public Lecture, Professor R. Hoffmann — One Culture, 8pm, The Ian Wark Theatre, Academy

RSC Lecture Course, Professor R. Hoffmann — Introduction for

organic and inorganic chemists to solid state, extended structures, 9am-12.30pm, RSC LT.

RSC, Organic Chemistry sem, Professor R. Hoffmann — R.B. Woodward, the history of the

development of the orbital sym-metry concept, 11am, RSC LT.

Entertainment

Entries for the next issue close

at 5pm on Wednesday 19 February and will be for the period Monday 3 March to Friday 21 March inclusive. Each notice should be typed on

a separate piece of paper. Publication is restricted to

ANU Skindiving Club, meeting & Xmas party, Steve Harding, 513134 (bh), 512834 (ah).

Canberra School of Music Beethoven Piano Sonatas VII

Ffrangcon Davies Recital, 4pm,

ANU Skindiving Club, Club Dive, 21-22 December, The Tun-

nel, South Coast; x2764/411281.

Awards

Hydrological Society Canberra

Inc, Burton Memorial Prize, The Canberra Hydrological Society

has decided to award a prize for the best theses prepared on a hydrological topic offered for examination to the Society.

Undergraduate honours theses, Masters theses or Ph.d theses are eligible. Contact: The Society Chairman, Mr Tony Shaw, 458504 or The Secretary, Mr Ian

Details on the following scho-

larships and awards may be

obtained from the Careers and

Appointments Service located on

the ground floor of the Chancelry Annex.

AAUW Educational Foundation

1986/87 International Fel-lowships. Applications close 10 December 1985.

Australian Federation of Uni-versity Women — Vic. and W.A. Closing date 15 February 1986.

Australian Federation of University Women — S.A. Closing

Department of Education. Opportunities for study in China. Scholarships and self-funded places. Closing date 31 Decem-

Great Barrier Reef Marine Park

Authority. Research Support 1986. Closing date 20 December

Rio Tinto-Zinc Corp Postgradu-ate — Research Bursaries. For

discovery, mining and beneficia-tion of minerals. Closing date 31

Jerusalem Research Scholarship 1986/87. For Levantine archaeol-

ogy, history, architecturer,

continued page 7

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date 28 February 1986.

ber 1985.

1985.

March 1986

Bergman 458229.

events on campus only.

Saturday 14 December

Sunday 15 December

Saturday 21 December

to

Thursday 23 January

Arts and

Wednesday 22 January

of Science.