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Editor: George Wilson, tel. (042) 270926

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## CHINA AGREEMENTS

by the Vice-Chancellor

A delegation from the University of Wollongong recently visited the three universities in China with whom we have co-operation agreements. Besides myself, the delegation included Professor Ian Chubb, Deputy Vice-Chancellor (Academic and Research), Mr J. Thirlwell, Personnel Officer, BHP, and my wife Sue.

Members of the University community may be aware that over the past four years we have had visits from the Beijing University of Iron and Steel Technology, and North-east University of Technology at Shenyang. The current visit was essentially to reciprocate the visits made by the Presidents of those universities to Wollongong and the earlier visit to China made by a delegation led by Professor Clarke, the then Deputy Vice-Chancellor, during which an agreement was also made with Xian Institute of Metallurgical and Construction Engineering. Following the first round of visits, co-operation has grown to the point where there are now nearly 30 staff and students from China on the Wollongong campus and a number of Wollongong academic staff have made visits to one or other of the three institutions to lecture and exchange research information.

As I had last visited in late 1974, while the Cultural Revolution was still in progress, the visit also provided me with an opportunity to become acquainted with recent changes and the rate of progress and development in China.

Readers should be aware that the Chinese higher education system has been re-organised in the past few years (since late 1978) along lines which provide for a Western-type degree system and postgraduate studies. Similarly, although universities may be supported financially from a

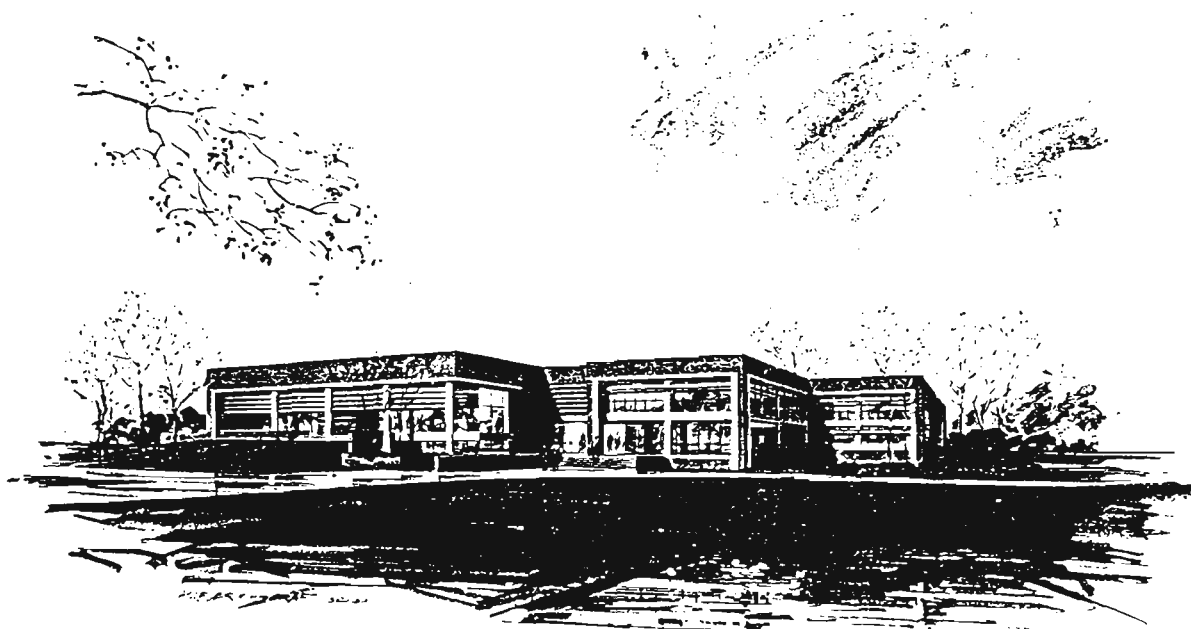
diversity of sources (the three with whom we have agreements are supported by the Ministry of Metals), the Education Commission of China is now exerting mechanisms of co-ordination and planning which determine the growth and status of institutions. Of the 1016 higher education institutions in China, 80 have been singled out as national institutions and 33 as institutions to offer postgraduate degrees (including our three). Even within the latter institutions, a PhD level program can be offered only with the approval of the Education Commission, so most universities at present usually offer only a few PhD specialisations. A specialisation is an area within a department in which the department is formally recognised as having enough expertise to offer a PhD program. Nevertheless, progress is spectacular. The number of postgraduate students was about 87,000 in 1985, having grown from 26,000 in 1982.

The universities we visited seemed to be typical of other universities in endeavouring rapidly to develop additional doctoral specialisations, involving research and postgraduate students. The emphasis is on strengthening the quality of universities as quickly as possible, while at the same time expanding enrolments.

The aftermath of the Cultural Revolution left universities with little or no strong and experienced leadership which is only now beginning to emerge. Part of the problem is one of how to shuffle aside less competent people appointed in bad times in favour of more competent people. Although by our standards Chinese universities are generously staffed, the best academics privately make clear that a

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*Architect's wash drawing of the University's new administration building. It is due to be occupied in the early part of next year*



# China agreements

from page 1

significant proportion of the staff are not of the calibre required for modern universities.

The three universities we visited are also typical of Chinese universities in providing housing for all students and staff; the campus is thus a self-contained community. At present, facilities for both students and staff are spartan, with up to six students sharing a room. Staff are similarly cramped for space and use has to be made of communal bathhouses because of lack of such facilities in residential quarters. Campuses are also self-contained in the sense of continuing to provide residential quarters for retired staff.

Academic buildings in the three universities present an appearance of solidity and age, having been built of solid masonry structures on rather heavy Russian lines. But shortage of funds apparently prevents them being kept well maintained, freshly painted and clean, so that one typically goes into an unprepossessing, gloomy, central, windowless corridor with academic offices and rooms opening off on each side. In contrast with the corridors and many of the academic facilities, some of those used for computing or scientific experiments are well kept and clean, evidently by the responsible academic staff; one has to change shoes for clean slippers to go into the computing laboratories or the electron microscope facility.

At Northeast University of Technology in particular, the equipment was at least as plentiful and modern as in this University. Modern equipment is coming in at a fair rate, mostly through World Bank equipment loans. It is probably more correct to say that specialised equipment for research seemed plentiful, whereas undergraduate resources seemed (at least to me) rather slim.

The generally open-to-foreigners stance adopted by China has led most universities to seek exchange agreements with foreign universities. BUIST, for example, has agreements with at least six universities in the same number of countries. The agreements are clearly giving them access to international research information and are important in defining the standards to which the universities should be working.

During the visit we reviewed the agreements made with each university (which appear to be working very well), although improvements and extensions were explored and agreed upon. One extension sought by the Chinese was in promotion of more collaborative research, which will require identification and direct collaboration of people working on similar topics in the two countries. Other areas were collaborative enrolment and supervision of students for higher degrees (which may involve a student working

for a Chinese degree spending part of the research period here or at another overseas university), exchanges to help improve the teaching of English as a second language, more staff exchanges and co-operation in computer software. Discussions with particular departments and individuals who may be able to be involved in future arrangements will be canvassed by the Deputy Vice-Chancellor as soon as possible, in order to finalise and exchange revised agreements.

During the time in China Professor Chubb also visited the Shanghai University of Technology to explore the feasibility of software production collaboration. Further exploration of the Shanghai proposal will be necessary, although there are some promising prospects.

In addition to the working meetings, we were very hospitably treated, personally, through formal banquets and through being shown places of interest. The incredibly rich and varied history of China, still accessible via buildings and artefacts, is made available for both tourist and local interest (two million people a year now to the Great Wall). The delegation certainly enjoyed both the exchanges and the visits to places of interest, especially because our Chinese hosts were attentive, relaxed, and informative. Currently informality in China exceeds even that of Australia; the sense of humour exhibited is not too dissimilar either.

The change in the demeanour of the people from the universal Mao jacket to colourful dresses and casual clothing is but the external evidence of great change. Other material improvements noticeable include good-quality shoes replacing formerly universal black cloth slippers, the variety and availability of consumer goods (although still of lesser quality than internationally available) and the evidence of private enterprise in the provision of a great profusion of foodstuffs in the free markets and in the stalls selling tourist curios. Reconstruction of Beijing is proceeding at an incredible pace. The old single-storey huts of Beijing are quickly giving way to broad modern roads lined with apartment blocks. Huge construction cranes dot the horizon, each indicating another new apartment block.

The highlights of the visit? Two, I think. One to see other members of the delegation "savouring" exotic dishes such as camel's foot, sea slug and fish intestines; the other, undoubtedly, the huge Entombed Warriors site at Xian — the 16,000 terracotta figures from more than 2000 years ago so far uncovered and only a small fraction of the site excavated. Sophisticated techniques for making special untarnishable weapons and ornaments were being used when Europe was still struggling with crude techniques.

China is not yet a tourist paradise, from the point of view of management of hotels and the quality of facilities, but our visit was a fascinating and memorable experience.

K.R. McKinnon  
Vice-Chancellor

## General Notices

### FELLOWSHIP AWARDS

#### *Challice Moldrich*

The Council of the University has resolved that Mr Challice Moldrich be invited to accept the award of Fellow of the University of Wollongong.

Mr Moldrich's association with the former Wollongong University College and the University spanned the years 1970 to 1985 before his acceptance of an appointment as Manager, Administration, in the Electricity Commission of New South Wales. His career at the University culminated in his appointment as University Secretary in 1981. This award is a recognition of Mr Moldrich's contribution to the University.

The date of the conferral of the award is yet to be finalised.

#### *John Clark*

Mr John Clark, BHP General Manager (Human Resources) and formerly General Manager of Port Kembla Steelworks, will be awarded a Fellowship of the University of Wollongong.

Throughout his stay in Wollongong Mr Clark was actively interested in the University, was a member of Council and fostered links between the University and Port Kembla Steelworks.

The award will be conferred at the Graduation Ceremony on October 31. Mr Clark will deliver the occasional address.

### ANZAAS IN NEW ZEALAND

The 56th ANZAAS Conference will be held at Massey University, Palmerston North, New Zealand from 26–30 January 1987.

The theme is 'Science in a Changing Society' and the first circular is available for perusal in the Information and Publicity Unit, Administration Building.

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## OCTOBER GRADUATION

A Graduation Ceremony will be held at 10 am on Friday October 31 in the Union Hall. All six faculties will be represented, with diplomas and degrees being conferred at all levels from Associate Diploma to Doctor of Philosophy on candidates who completed their courses at the end of Session 1.

The response from graduands has been such that this will be the largest graduation ceremony ever held in the Union Hall, clearly indicating that second session ceremonies will need to be a regular feature in the University calendar.

The occasional address will be delivered by Mr John Clark, formerly General Manager of the Port Kembla Steelworks and now BHP's General Manager, Human Resources.

Academic staff have received invitations to the Ceremony, and they should return the response form if they wish to participate so that seating can be set aside for them.

Further details are available from Trevor Cuthbertson, ext 3928.

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## LAUNCH OF SCARP 9

The current issue of the magazine SCARP, produced by the Writers' Club at the University of Wollongong, was launched at the City Art Gallery on October 7.

The magazine contains graphics, poetry and prose fiction by writers and artists from all over Australia and beyond.

This issue — SCARP 9 — features an extract from *Kisses of the Enemy*, the new novel by Rodney Hall which is to be published in America and Australia next year.

Rodney Hall, noted Australian poet and novelist, was among those present at the launch. His previous novel, *Just Relations*, won the Miles Franklin Award for literature in 1982.

Other features of the launch included readings from the magazine, musical items, poetry/music/movement pieces and the announcement of the winning entry in the Philip Larkin Prize for Poetry.

## GOODBYE H.P.S. : WELCOME S.T.S.!

The History and Philosophy of Science Department is no more. Recently, the Administration Committee of Council exercised delegated authority to put the final seal of approval on the renaming of the Department. From now on, the Department is the *Department of Science and Technology Studies (STS)*.

'The new name is really welcome', said Associate Professor Jim Falk, Head of the STS Department. 'We have been increasingly unsatisfied with the old HPS label which describes only a part of what we're doing. A lot has happened to us over the past five years. A vast range of problems has been thrown up by contemporary scientific and technological change, and we have worked hard to develop the tools to meet them. Consequently, we now not only draw on history and philosophy but also on tools from politics, sociology, economics, political economy, anthropology and even linguistics.'

'STS describes what our task has, by now, become — to study science and technology in its social context using any disciplinary tools that are useful. And while we still are concerned with applying these to science, we are also equally concerned with technological change.'

A quick glance at current work in the Department demonstrates the spread of its current activity. Books either recently emanating from the Department or currently in the pipeline cover topics as diverse as the nuclear arms race; the suppression of dissent within universities; the concept of post-industrial society; Mendel and the



*Professor Barry Leal receiving the badge of the Palmes Academique by M. Georges Zask earlier this year*

## ANOTHER HONOUR FOR BARRY LEAL

The Council of the University has conferred the title of Emeritus Professor on Barry Leal, formerly Foundation Professor of French and Chairperson of the Department of European Languages in this University. Early this year, Professor Leal took up an appointment as Deputy Vice-Chancellor (Academic) at Macquarie University.

Professor Leal's distinguished academic career, highly regarded publications, active involvement in local affairs, the establishment of the *Alliance Francaise de l'Ilawarra*; membership of the *Dante Alighieri* Society (Illawarra Branch) and award of Officer of the *Palmes Academiques* by the French Minister for Education are considered more than adequate justification for this recognition by the University.

The University hopes that Professor Leal's interest in and association with Wollongong will long continue and that this award demonstrates the esteem and friendship in which he is held.

origins of genetics; the Australian video industry; the international information economy; the anthropology of a major medical research institution; the politics of the international conflict over nuclear power; the vitamin C controversy; Charles Darwin's visit to Australia; and the politics and rhetoric of scientific debate. As well, a number of staff members are actively engaged in consultancies with federal, state and private bodies.

Clearly, Science and Technology Studies, much more aptly describes this wide ranging work. In choosing the STS name, the Department will not be alone. It has joined some other front running departments in the discipline. The discipline's international journal has just been renamed STS. In addition, there are units, departments and programs at Rensselaer University (US), Oxford University, Edinburgh, and Bath Universities bearing either the name STS or Science Studies. In Australia, there is also likely to be a sister department close by. The new Professor of HPS at the University of New South Wales has already said that he will press for his school to change its name to the School of Science and Technology Studies.

## SAVE MONEY BY DOING YOUR OWN WORD PROCESSING

The University Computer Centre has established for the use of ALL students a network of SPERRY Personal

## ISN'T THIS RACISM IN REVERSE?

### Question

If it's illegal to discriminate on the ground of race, why do I see advertisements where Aboriginality is a desirable or even an essential qualification for a job?

### Answer

It is normally illegal to employ or refuse to employ people on the basis of their race. Race is usually irrelevant. However, the Anti-Discrimination Act grants exemptions where it can be shown that race is a 'genuine' qualification for the position.

This means that, for example, an advertisement for a community worker in a Turkish welfare agency may ask for a person with Turkish language and cultural understanding because this is essential to best perform the job.

Similarly, it is now accepted widely that for some positions which require expertise in Aboriginal culture, the insight that can only come from being an Aboriginal person is essential. No matter how educated or sensitive a non-Aboriginal person is, it is difficult, if not impossible, to possess the required knowledge and skills to the same degree.

At a government department where I worked, I asked managers to nominate if there were any positions in their areas of responsibility, where Aboriginality would be an advantage to performing the required tasks. These are called 'identified positions'.

One insightful manager responsible for rental and tenancy matters, realised that Aboriginal people had used the services provided by the office while there was an Aboriginal person working there, but that when that person was promoted to another department, Aboriginal people stopped coming.

He identified a counter worker's position where Aboriginality was a desirable qualification and the service that the office provided to its clients immediately improved when an Aboriginal person was recruited.

Like all matters concerning the nature of discriminatory job requirements, it came back to the basic question of what are the genuine qualifications of the position. There is nothing discriminatory about stipulating criteria which are real and based on the genuine requirements of the job. This applies to formal qualifications, experiences, skills and even occasionally sex and race.

Kathy Rozmeta  
Ext 3917

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Computers in Building 4, Room G20.

The aim of this is to encourage students to use Word Processing and other software available with these machines.

To get students started in the use of this facility, it is now offering a two-hour class introducing the WORD Word Processing package.

Classes of up to six students are now being run at a cost of \$15 per person. Booking in advance is required, and further information can be obtained from Ms J. Lombardi in Computer Reception on the Ground Floor of the Austin Keane Building or on ext 3850.

When? Wednesday 3 pm, or  
Thursdays 10.30 am or 2 pm

Cost? \$15

Info? Computer Reception, Ext 3850

Note: Classes are subject to sufficient demand, and if there is call for more advanced tutoring, classes could be arranged.

## ESTABLISHMENT AND FUNDING OF NEW UNIVERSITIES

The Australian Vice-Chancellors' Committee (AVCC) is not opposed to the establishment of new universities, either public or private, but it believes it is essential that certain criteria are met before such universities proceed.

The new AVCC Chairman, La Trobe University's Professor John Scott, said it should not be possible for anyone simply to establish an institution and call it a university or rename existing institutions as universities.

'The Australian Vice-Chancellors' Committee has considered the implications for the Australian higher education system, and the university sector in particular, of the wave of current proposals for the development of new universities both public and private and has adopted a seven point policy in regard to the establishment and funding of new universities', Professor Scott said.

The Governments of New South Wales and Western Australia have unilaterally announced the establishment of new universities in those States. In addition there have been reports that some colleges of advanced education may seek to have their names changed to universities.

It has also been announced that the Bond University of Applied Technology is to be established by the Bond Corporation, apparently with the approval of the Queensland Government, as Australia's first privately funded university.

In regard to private universities, Professor Scott said that prestigious universities in the United States of America were often quoted as models for similar institutions in Australia. The AVCC believes that they are inappropriate analogies. They were established with large endowments but many have subsequently become publicly funded institutions; and Harvard University, one of the richest US private universities, has one quarter of its budget provided by Government. A more appropriate analogy for Australia is the University of Buckingham in the United Kingdom which operates under a Royal Charter. It has about 600 students.

The term 'private university' implies that any such institution will operate for profit. If this is the intention, the AVCC believes that it must demonstrate social responsibility and not only mount popular courses or undertake research which is likely to realise a profit. In their planning they must take account of the course offerings and research being carried out in other institutions.

## CHRISTMAS HOLIDAY FAMILY ACCOMMODATION

### CHISHOLM COLLEGE, LA TROBE UNIVERSITY

Good, low-cost, family accommodation in self-contained units of 6 to 12 bed/study rooms, carpeted and furnished, a modern well-equipped kitchen, separate bath, shower, toilet and laundry facilities. Linen and blankets included (no towels provided).

Adult \$17 per day; \$95 per week

Child (under 17) \$8 per day; \$45 per week

Infant (under 12 months) No charge

Cots provided.

Ample carparking including locked compound, TV and games, regular bus and tram service to city, University tennis and squash facilities, gymnasium, pool, cinema, banks, shops.

Further information from the Bursar, Chisholm College, La Trobe University, Bundoora, 3083. Tel. 4783122, ext 2899.



## friends Campus Community Interface

### SENIOR CITIZENS WEEK

The Friends Committee that organises Senior Citizens Week each year has announced the following program and display for Friday 20 March 1987, in the Union Hall.

- 10 am Official opening
- 10.10 am ***The University of the Third Age***, an exciting new concept in Adult Education which is being considered for introduction to Wollongong. Speaker: Barry Russell of the University of Wollongong.
- 10.40 am Morning Tea.
- 11.10 am ***Grandparents and their grandchildren***, an address by Stan Duncan of the NSW Council on the Aging.
- 11.30 am ***The older person's garden***, an illustrated address by Valerie Swain of the Australian Broadcasting Commission.
- 12.15 pm ***Money Management in Retirement***. A speaker from our sponsors – the National Australia Bank.
- 12.30 pm Lunch.
- 1.30 pm The Great Debate: ***That there should be no compulsory retiring age***. Debating teams: Nowra Toastmasters versus International Training in Communication.
- 2.15 pm Concert – Courtesy of the University of Wollongong Union.
- 3.00 pm Close.

#### Display:

Dr Winifred Mitchell will conduct a display of local history material and will talk to people about the Wollongong Oral History Project.

Any student or member of staff who would like to become involved with this Committee should contact Giles Pickford at the Friends of the University on ext 3073.

### THE FRIENDS CALENDAR

- October
- Saturday 18 University Regiment Annual Dinner  
Balgownie Collegians Club
- Tuesday 28 Visiting Anglican Scholar  
12.30 pm Union Common Room

## Concerts, Exhibitions and Entertainment

### HUNG, DRAWN AND UNDER—EXPOSED

An exhibition of drawings and sculpture by Lis Johnson at Art Arena Gallery, Central Chambers, 15/157 Crown Street, Wollongong, from October 14 to 21. Open 12–4 pm daily, 10–4 Saturday and Sunday, till 8 pm Thursday.

### SCHOOL OF CREATIVE ARTS AN EVENING CONCERT

The University Chamber Music Ensemble, conducted by John Stender, in the Music Auditorium (Building 24) – access from entrance 4 – Wednesday October 29 at 7.30 pm.

Program will include: Mozart - Divertimento K136; Vivaldi - Guitar Concerto; Wren - Serenade for Strings; Haydn - String Quartet, Op. 3, No. 3; Schubert - 'Trout' Quintet and song; and first performance of new works by Marie Waalkens, Terry Moran and Peter Bloor.

Supper will be provided after the concert.

Adults \$2, students \$1.

Information: Sheila Hall, School of Creative Arts, telephone 270996.

### AN EVENING WITH RODNEY HALL

Hear Rodney Hall discuss modern writing and read from his work.

Enjoy a four-course meal at the Northbeach International Hotel on October 16. Choice of menus, table wines included in the price. \$30 per ticket.

Rodney Hall – Novelist, poet, musician – is writer-in-residence at the University of Wollongong. His novel ***Just Relations*** won the Miles Franklin Award in 1982. His latest novel, ***Kisses of the Enemy***, will be published in Australia and America next year. He has published 11 books of poetry and edited several anthologies. He has run an early music workshop at the University of New England for many years. He has written radio drama for the ABC. A man of many talents, and one who can speak perceptively and entertainingly about his work.

An evening to enjoy – and remember.

The Penthouse Room can seat 80 people in comfort, so only 80 tickets will be sold.

### PIECES OF THEATRE

Writers, actors and musicians have combined talents to present ***Pieces***, an entirely original concept of Wollongong.

***Pieces*** has been coming together since June, and includes two entirely different shows of comedy/drama produced by the Wollongong University Union Writers' Club.

The first is a collection of original plays, sketches and music – some experimental, some satirical, some simply entertaining – by the School of Creative Arts writers.

The second is an unusual live audiovisual performance of a radio play by Sydney playwright, Rob Hood. The play is called ***On Getting to the Heart of the Monster or, The Reviewer's Revenge!*** and is about a writer getting his characters confused with reality. It is also a send-up of the heroic fantasy genre, in the Douglas Adams style.

The play should be both funny and challenging to the senses. Sound effects will be performed live and the whole effect should leave audiences thoroughly entertained, and even a bit confused about what they have actually just witnessed.

***Pieces*** opens on Friday October 17 at 8.30 pm (after the launching of the SCA Students' Art Exhibition) as well as Saturday October 18, also at 8.30 pm. It will be performed in the Music Auditorium, Gate 4, Wollongong University campus. Tickets, \$4 and \$2 concession, are available at the door.

### CONCESSION TICKETS

A limited number of A Reserve tickets at \$33 (a saving of \$9 per ticket) are available at concession prices for performances by the Australian Opera during its Winter Season.

Die Fledermaus	Friday October 24	7.30 pm
Eugene Onegin	Saturday November 1	1 pm

For further information, contact David Vance, Music Development Officer, ext 3617.

# Sources of Funds

The following sources of research funds are now available to members of academic staff. Further information including application forms, where these are to hand, may be had from Ian Strahan on ext 3079 or Tom Moore on ext 3386. Intending applicants are reminded that all research applications must be forwarded through the Research Office.

The Deputy Vice-Chancellor (Academic and Research) Professor Ian Chubb, is happy to discuss aspects of applicat-

ion strategy, including design and presentation, with researchers. To render this process as efficient and productive as possible, intending applicants should first consult widely, for example, with their relevant Head(s) about the content of their application. They are then invited to send a full draft to Professor Chubb for comment before final typing. Please allow sufficient time for consultation and reference to the Research Office while meeting the closing date given by the funding body.

## SPECIAL RESEARCH GRANTS

The Research Grants Committee of the Board of Research and Postgraduate Studies is calling for applications for Special Research Grants tenable in 1987.

With a recent policy change the Research Grants Committee is now distributing funds for research equipment. Applicants may apply for funds under the headings: Personnel, Equipment, Maintenance, Travel and Other.

The Research Committee recently resolved to discontinue its practice of funding for two-year terms full-time Research Associates and Assistants. Applicants may apply for full-time research assistance on their Special Research Application.

Duties and rates of pay for Research Assistants may be had from Ian Strahan, ext 3079, or Tom Moore, ext 3386. Application forms may be had from them also.

Applications will close on October 31.

## THE ASHTON SCHOLASTIC 1987 PICTURE BOOK AWARDS

In keeping with their commitment to foster Australian writing and artistic talent, Ashton Scholastic announces two awards for new writers and illustrators. The awards are offered to those who have not previously written or illustrated a published picture book.

Writers — a chance to win an advance of \$2,000 and a publishing contract.

Illustrators — a chance to win an advance of \$2,500. (\$500 on signature of a publishing contract and \$2,000 on completion of the artwork).

Closing date not given.

## WORLD WILDLIFE FUND

World Wildlife Fund Australia invites project submissions for possible inclusion in its 1987 Conservation Program.

Proposed projects should be relevant to Australia and/or near neighbouring islands and the Antarctic region.

Projects should be of a high priority nature and should be directly related to the well-being of threatened or endangered species and ecosystems or should lead to greater public awareness of the need for wildlife conservation.

Projects which address the interaction between agriculture and/or feral animals and wildlife will also be considered.

## RESEARCH ASSISTANT SALARY RATES 1987

Researchers preparing research applications for 1987 are asked to contact either Mr Tom Moore, ext 3386 or Mr Ian Strahan ext 3079 regarding the method of classification and rates of pay for Research assistants. In view of the large increase in salary rates it is essential that researchers make contact before finalising applications.

Tom Moore  
Office of Research and Postgraduate Studies

Preference will be given to projects falling within the \$10,000 — \$20,000 cost range.

Closing date November 30.

## VICTORIAN COLLEGE OF PHARMACY LTD SUMMER SCHOOL IN MEDICAL CHEMISTRY RESEARCH SCHOLARSHIPS

In conjunction with the newly formed pharmaceutical company Australasian Drug Development Ltd, The Victorian College of Pharmacy is now offering up to 10 scholarships for attendance at a 6-week Summer School in Medicinal Chemistry commencing on January 5 1987.

The purpose of the scholarship is to provide an opportunity for outstanding students in Chemistry, Biochemistry, Pharmacy, Pharmacology or Computing to gain additional training and research experience in the field of medicinal chemistry. Students currently enrolled in 3rd or 4th year of a Science of Pharmacy degree in any Australian University or College of Advanced Education are eligible to apply.

Each student will be paid \$160 per week and interstate or country students will be reimbursed 50% of the return fare from their home to Melbourne.

Closing date October 20.

## PREVIOUSLY REPORTED IN CAMPUS NEWS

Name	Closing Date With Agency
Visual Arts Board Grants	October 15
Charles A. Lindberg Fund	October 15
Gold Coast City Art Prize	October 17
Victorian Ministry of Education	October 31
Special Research Grants	October 31
Moet & Chandon Australian Art Fellowship	October 31
Martin Bequest Travelling Scholarship	October 31
Special Research Grants	October 31
Rural Women's Access Grants	October 31
Honey Research Council	October 31
Chifley Essay Prize	November 1
McNamara Fellowships	November 1
Dominique Segar Drawing Prize	November 1
Aboriginal Overseas Study Awards	November 14
Capital Grants for Arts Facilities	November 21
ATERB Project Grants	November 28
Australian Wool Corporation	December 5
Aust. Meat & Livestock R&D	December 31
Japan and China Exchange Agreements	February 1
Registration as Road Safety Research Consultant	N/A
Research Into Drug Abuse	N/A
Carnegie Corporation	N/A
Criminology Research Grants	N/A
Utah Foundation	N/A

## AUSTRALIAN PRODUCTION AND INVENTORY CONTROL COUNCIL

National Fellowship and Grants – Up to \$20,000 for Research and Development. Inventory Management and Manufacturing Control Systems.

Interested parties, individuals, organisations or companies, are invited to submit written applications for the inaugural APICS Research Grant.

The successful projects will have an emphasis on the application of inventory management and manufacturing control systems in the Australian industrial environment and be aimed at one or more of the following:

- application of modern techniques
  - systems development
  - education and training methods.
- Closing date November 28.

## TERTIARY SCHOLARSHIPS FOR 1987

Rension Goldfields Consolidated Limited is a major and diverse Australian mining company.

The Company awards a number of scholarships each year to students studying in tertiary institutions in Australia. The scholarships are available to assist students to pursue degree courses in disciplines of interest to the mining industry. These include mining, mechanical and electrical engineering, geology, metallurgy and accounting.

These scholarships, which have a value of \$3,000 per annum plus a living away from home allowance of \$1,000 per annum if applicable, are provided for the completion of courses already commenced and candidates are required to have achieved good academic results and have concluded at least their first year of study.

Closing date October 17.

## AUSTRALIA COUNCIL

The Boards of the Australia Council invite applications for the following programs of assistance:

### ABORIGINAL ARTS BOARD

Assistance is available for Aboriginal and Torres Strait Islanders to promote and develop arts activities. Applications will be considered in the following general categories:

Music; Dance and Drama; Visual Arts; Literature; Multi-arts; Aboriginal Community Arts Officers; Film, Video and Radio.

Closing date November 15.

### MUSIC BOARD

Composer Commissions; Composer-in-Residence; Recording; Publishing; Research; Community and Regional Music Co-ordination; Community Music or Arts Centres; Visiting Teachers; Innovative Projects.

Closing date November 15.

### VISUAL ARTS BOARD

Grants for Publications – to assist the publication of periodicals and scholarly works on the visual arts in Australia.

Closing date November 15.

## AUSTRALIAN DEVELOPMENT ASSISTANCE BUREAU

### TONGA CURRICULUM DEVELOPMENT PROJECT

As part of Australia's Aid Program, which seeks to assist developing countries in promoting the economic and social advancement of their people, the Australian Development Assistance Bureau requires the services of a consultant or managing agent capable of undertaking a three year program of assistance in curriculum development in Tonga.

The project aims to assist the Tongan Government to:

- a) revise the Mathematics curriculum at primary level;
- b) commence or extend curriculum development at secondary level in Mathematics, Science, Rural Science and Tongan studies;
- c) develop the efficiency and effectiveness of the Curriculum Development Unit.

The estimated cost of this project, which will commence in January 1987, is \$500,000.

The closing date for expressions of interest is Wednesday October 15.

## CHICKEN MEAT RESEARCH COUNCIL

The Chicken Meat Research Council invites applications to conduct research relating to the chicken meat industry in the 1987/88 financial year.

Closing date December 31.

## Job Vacancies

Details of the positions listed below are on file in the *Campus News* Office – room G24A, on the ground floor in the administration building.

Newcastle	Lecturer (fixed term), Department of Electrical and Computer Engineering
Melbourne	Chair of Management
Otago	Lecturer or Senior Lecturer in Information Systems Lecturer or Assistant Lecturer in Russian
Queensland	Lecturer/Senior Lecturer in Mechanical Engineering, Lecturer in Mechanical Engineering (tenurable) Lecturer/Senior Lecturer in Psychology (Multivariate Methods) (tenurable) Senior Tutor in Physiotherapy Specialist Tutor in Physiotherapy

NSW State Conservatorium of Music,  
Newcastle Lecturer in Singing

## Advertisements

### FOR SALE

House, Ramah Avenue, Mount Ousley; 4 min from University; modern living room outlooks on to superb bush garden; modern kitchen; 4 large bedrooms and office; excellent location. Offers invited. Jim Falk 3691; 840978.

### FOR SALE

Keiraville, b/v, 4-bedrooms, ensuite, 3 BIWs, lounge, dining, sunroom, double brick carport, large storage room, established trees. \$115,000. Phone 288024.

### ELECTONE ORGAN

Model BK20BI. Excellent condition. \$1200 ono. Phone ext 3075 or a/h 284075.

### GOING ON STUDY LEAVE IN 1987?

Let me mind your house, and water your pot plants. Please contact Mary Greenwell, Department of Accountancy and Legal Studies, ext 3727.

# Seminars

## BIOMEDICAL EVENING

Seminar will be preceded by a char grill dinner at 6.30 pm in the Union Bistro. Those interested in attending the dinner should contact Dr E.J. Steele before the designated evening so that appropriate bookings can be made.

Seminar will begin at 8 pm in Lecture Theatre, G.19, Building 35.

Date: October 29

Speaker: Professor G.L. Ada, John Curtin School of Medical Research, Canberra

Topic: Modern Approaches to Vaccines.

## DEPARTMENT OF MECHANICAL ENGINEERING

Title: The Pneumatic Transportation of Bulk Solids

Speaker: Mr P.W. Wypych, Lecturer, Department of Mechanical Engineering, The University of Wollongong

Date: Wednesday, October 22

Time: 12.30 pm

Venue: Building 4, Room 120

## GENERAL STUDIES DEPARTMENT RELIGIOUS STUDIES: HINDUISM

Speaker: Ajayaprana Mataji, President of Ramakrishna Sarada Vedanta Society of NSW

Topic: Great Utterances of the Upanishads

Date: Monday, October 20

Time: 10 am

Venue: Room 107 — Building 19 Social Sciences (in Psychology Department)

## DEPARTMENT OF CHEMISTRY

Speaker: Dr Graham Batley, Atomic Energy Commission, Lucas Heights

Topic: Environmental Applications of trace element speciation

Friday October 24, 10.30 am in Room 18.206

Speaker: Dr Steven Krilis, St Georges Hospital, University of NSW

Topic: Leukotrienes as Mediators of Disease

Friday October 31, 10.30 am in Room 18.206

## POSTGRADUATE SEMINARS IN HISTORY

Thursdays, 5 pm, Building 19 Room 2092.

October 16 — Dr Damaso Marengo — The Korean War

October 23 — Bishop Harry Goodhew — Factors Affecting Church Growth in Australia: Some Methodological Problems

## OPEN SEMINAR SERIES — THE BRAIN AND LEARNING

Pentagon 4, Monday evenings, 7.30 — 9.30 pm

October 20: The Social Content of Scientific Knowledge (STS). Dr John Schuster, University of Wollongong.

October 27: Somatic Evolution and Refinement of the Species (Biology). Dr Ted J. Steele, University of Wollongong.

November 3: Symbolism in Creative Arts (Creative Arts). Professor Edward Cowie, University of Wollongong.

## DEPARTMENT OF PHYSICS

To be held in the Physics Lecture Theatre Bldg. 18 Rm.118.

Date: Thursday October 16

Speaker: Dr Don Nicol, Chief of Technology Development, Technology Division, OTC, Sydney.

Topic: Developments in Submarine Optical Fibre Communications.

## DEPARTMENT OF BIOLOGY

Seminars to be held 4–5 pm, Ground Floor Lecture Theatre, Building 35, Science 11.

Date: Tuesday October 21

Speaker: Mr Rod Kavanagh, Forestry Commission, Wood Technology and Forestry Research Division

Topic: Ecology of Arboreal Marsupials.

Date: Tuesday October 28

Speaker: Mr Keshav Singh, Department of Biology

Topic: Clumping characteristics and polyphosphate degradation in *Pseudomonas* sp. isolated from sewage sludge.

## DEPARTMENT OF GEOLOGY

Seminars are usually held between 12.30 pm and 1.30 pm in the lecture theatre on Thursdays. Building 35 G.19.

Thursday October 16

Dr Brian Jones

'Low-gradient streams in crocodile country'.

Monday October 20, 3.30 pm

Dr Evan Leitch (University of Sydney)

'Tectonics of the cratonic margin of the Tasman Fold Belt in far western New South Wales'.

Monday October 20, 8 pm

Dr Evan Leitch (University of Sydney)

'The Permian history of the New England Fold Belt'.

Thursday October 23

John Bamberry

'Depositional Environments of the upper part of the Sydney Sub-group of the Permian Illawarra Coal Measures'.

Thursday October 30

Dr Adrian Hutton

'Torbanites of the World'.

## FACULTY OF ARTS INTERDISCIPLINARY METHODOLOGY

Dr Laleen Jayamanne from the English Department and recently returned from the Edinburgh Festival will screen her controversial film *A Song of Ceylon* and talk about theoretical issues involved in the making of it.

Thursday October 16, 5.30 pm, Sociology Department Seminar Room.

Inquiries: Ariel Salleh, Lecturer in Sociology, ext 3614.

## DEPARTMENT OF ECONOMICS

Topic: Industrial Democracy in Australian Retailing

Speaker: Mr Stewart Carter, TASC

Date: Thursday October 23

Time: 12.30 pm

Venue: Room 19.216 (Economics Chairperson's Office)

All welcome.