


THE UNIVERSITY OF WOLLONGONG



CAMPUS NEWS

Distributed each Tuesday

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Editor: George Wilson, Tel. (042) 270926

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Gender Studies - a challenging new area

A Gender and Education Unit has been established at Wollongong, within the School of Learning Studies, to provide a more structured focus for research and teaching in the area of gender studies within the School, the Faculty and the University.

The unit aims to act as a co-ordinating centre for researchers and teachers; it will be a clearing-house for the diverse range of materials increasingly produced by governments, private organisations, community groups and individuals on and off campus; and will allow for more efficient co-ordination of the present separate collections in the area of gender and education which now reside with individuals. The unit is particularly concerned to encourage and, when asked, to co-ordinate relevant aspects of honours and postgraduate programs.

Gender studies is an exciting and challenging new area of study. In recent years it has provided a major boost to intellectual developments in the humanities and social sciences. In developing new ways of understanding and investigating the world it has challenged old frameworks and methods of research. It has drawn attention to the gendered nature of knowledge itself.

The past two decades have seen major shifts in gender relations and in the public and domestic experience of both women and men. Intellectuals and policy-makers, managers and educators have been struggling to keep up with these changes. Anti-discrimination and Affirmative Action legislation have created a need, in both the public and private sectors, for trained staff working as Equal Opportunity officers and at all levels of planning, research and policy formation. In education such developments can be seen at school, departmental and university level.

In particular, teachers require access to training, research and resources in order to undertake special programs in schools. The non-sexist education policy, non-sexist education consultants in all regions, individual school or regional programs within the state system are clearly focused on gender studies in education, as are Catholic schools, the independent system, TAFE, colleges and universities. Our society as a whole requires graduates who have a thorough understanding of the nature and future implications of the changes currently taking place.

Members of the Gender and Education Unit include Dr Noeline J. Kyle (Deputy Head, School of Learning

Studies) who heads the unit; Ms Jan Wright (SLS), Ms Jan Black (SLS), Ms Dianne Snow (SLS), Ms Jillian Tresize (Director, Kids Uni), Ms Deslea Konza (SLS), and Dr Jennifer Jones (SLS). Links have been established with researchers working in the area of gender studies across campus, in the community, womens' studies centres and organisations in the public and private sector.

Two conferences have already been held in 1988. In June a conference was held in conjunction with the Australian and New Zealand History of Education Society on the theme of the history of women and education. The second conference was held in Bluestocking week on the theme of early child-hood and gender. Some 40 participants from Sydney, Canberra and Wollongong attended this second conference. Future conferences are planned to highlight research, postgraduate activity and publishing efforts of the Unit.

The Unit is actively promoting resource collection in the area of gender and education with the preparation of a non-sexist teaching kit for placement in the CRC. In addition a publication proposal on co-education and single-sex schooling in Australia is under consideration with a major publisher, a weekend retreat is planned for November where members and associates will work on

continued on page 2

The Piper's Promise

The bold new opera from the School of Creative Arts, *The Piper's Promise* (see *Campus News* for September 13 and 20), opens this Friday — September 30 — at the Illawarra Performing Arts Centre. After Friday, performances will be given on Saturday, Wednesday and Friday, October 5, 6 and 7, at 8 pm, and on Saturday October 8, at 2 pm as well as 8 pm. Tickets from the Performing Arts Centre, tel. 26 3366 — \$14, \$12 members, \$9 concession and \$37 for a family of four.

General Notices

Centre for Materials

The importance to the national economy of the development and usage of improved materials has been further recognised at The University of Wollongong by the creation of a Centre for Materials. Presently housed within the Department of Metallurgy and Materials Engineering, the Centre will be under the Directorship of Professor W.J. Plumbridge, head of that Department, and Dr A.L. Wingrove will be the full-time Manager. Dr Wingrove has had many years' experience in a broad range of materials-based activities and is a recognised expert in metallic-coatings technology. Last year his consultancy work in the Department of Metallurgy and Materials Engineering, concerning trailer towbars, made national headlines and has led to more stringent design guidelines for these components.

The Centre will operate over a broad range of activities and time scales, from routine testing to research programs lasting several years. It has received pre-priming funds from Wollongong Uniadvice Ltd, but aims to become self-supporting and profitmaking within two years. The facilities of any participating Department will be available to the Centre on a commercial basis.

Professor Plumbridge says: 'The establishment of the Centre at Wollongong is both logical and timely. State and federal governments have identified New Materials as an area of investment because of their high potential to contribute to economic recovery. The Wollongong district

is a hive of materials-related industrial activity which, contrary to much popular opinion, involves many other metals apart from steel and, in addition, includes a considerable commitment to the new materials, ceramics and polymers. It is in these areas that growth in small companies (and employment) in the region is expected.

'Finally, in the materials sphere, the University of Wollongong has a very wide range of expertise. In addition to skills provided by the Department of Metallurgy and Materials Engineering, this includes the Development of New Polymers (Chemistry), Fundamental Studies in the Solid State (Physics), large Scale Mechanical Testing (Engineering) and Stress Analysis and Computation of Materials Behaviour (Mathematics). Two other University Centres, the Microwave Applications Research Centre and Centre for Biology Research, also have materials interests. At present, the extent of interaction between these groups is not high, but the existence of the Centre for Materials, open to anyone wishing to be involved, will act as a catalyst for much beneficial cross-fertilisation. This should facilitate one of the more unusual targets of the Centre —

'In the longer term, once the coherency of University and Industry activities in Materials has been demonstrated, the Centre will seek national recognition and funding.'

Gender and Education Unit Conference

An Early Childhood and Gender conference was held at the University of Wollongong on Monday September 19.

Keynote speaker was Ms Jan Kelly from the Institute of Early Childhood, Sydney; her topic was, 'The Compassion Trap: Women and Early Childhood.' Other speakers include Jillian Trezise from Kids Uni, Alison Elliott and Dianne Snow, from the Faculty of Education, and Carol Anderson (Illawarra Children's Services Action Group) speaking on 'The Current Political Scene in Early Childhood Services'.

Participants travelled from Sydney and Canberra— including Gillian Weiss from Nepean College of Advanced Education and Lynn Davies from Macquarie University.

The conference was one of the activities of the Gender and Education unit, School of Learning Studies. This unit intends to organise at least two such conferences in Wollongong each year. Papers will be published and distributed to interested individuals and organisations.

With child-care services undergoing some change at present it is important to keep the public, researchers and relevant agencies informed and alert.

Noeline Kyle.

Gender studies *from page 1*

setting objectives for the future, assess the year already gone and put together a research/teaching agenda for 1989.

The unit has received a Challenge Grant of \$3,190 to buy computing equipment to facilitate research. Dr Kyle and Ms Wright are currently engaged in funded programs of research. Dr Kyle is researching the educational contribution of Lady Caroline Edgeworth David to Australian schooling. Dr Kyle is also negotiating with the New South Wales Nurses Association with a view to that body funding a biographical study of the educational life experiences of Mary Kirkpatrick a midwife in the late 19th and early 20th century in NSW.

Dr Kyle is also producing a historical biographical register of women teachers. Ms Wright is collecting data on mixed and single-sex physical education lessons in private and government schools to assess the factors affecting the participation of girls in physical activity. The unit is currently canvassing funding within the Commonwealth Department of Education, particularly in the area of Girls and Maths/Science/Technology.

Members of the unit have offered an undergraduate subject, Gender and Education, for the first time in 1988 and a Masters Pass specialisation in Gender Studies will be offered for the first time in 1989.

N.J. Kyle, Deputy Head School of Learning Studies,
Head — Gender and Education Unit

Wollongong to host Ecology Conference

The University of Wollongong will host the 1989 national conference of the Ecological Society of Australia. This was confirmed at the 1988 symposium, held in Geraldton, WA, during the past mid-session break.

The 1988 Symposium, which attracted over 250 delegates, had the theme: *Ecosystems: 200 Years of Utilisation, Degradation and Reconstruction*. A striking feature of the symposium was the combination of contributors with a very wide range of interests and backgrounds. Ecology in its broadest sense was addressed over five days. Papers, posters and discussions included consideration of the political interaction with environmental science, social attitudes to conservation, techniques of ecosystem reconstruction following severe disturbance, such as waste disposal and open-cut mining, application of ecological theory to applied environmental

problems, and the development of fundamental ecological theory.

The range of contributions from the Wollongong contingent at the conference was almost as broad. Dr Ros Muston (Centre for Applied Biological Research) presented a paper entitled 'The dynamic structure of a Hawkesbury Sandstone plant community in relation to the objectives of fire management'; Ms Toni O'Neill (Geography Department) presented two papers, one on 'Satellite monitoring of the Willandra Lakes World Heritage Region' (co-authored by A.K. Milne) and the other on 'Habitat mapping and fauna predictive modelling through the integration of satellite imagery and other geographical information' (co-authored by J. Hibberd, R. Sim and J. Marthick); and Dr Rob Whelan (Biology Department) presented a paper, with Ross Goldingay as co-author, entitled 'Competition and Pollination'.

This symposium was in many respects a great success. This was the first time in recent years that an Ecological Society conference has incorporated such a wide range of themes, from politics and sociology at one end to experimental, theoretical ecology at the other. Contributions were made by politicians (eg, Senator Richardson), political advisers, representatives of mining companies and other industries, environmental consultants, land managers (eg, National Parks services) and academic ecologists.

This milestone in the history of the Ecological Society indicates the way in which environmental science must develop. Finally, the theme of this conference and the range of disciplines brought together provide an excellent stepping-stone for the next one—in Wollongong.

The University of Wollongong is now widely identified as an active centre of research and teaching in both fundamental and applied ecology. The decision to hold the 1989 conference in Wollongong will strengthen this impression and give those involved in all aspects of environmental science at Wollongong an opportunity to build on the example set at Geraldton.

The Long Arm of the CMS

Mary Kalantzis, Research Fellow at the Centre for Multicultural Studies, had an interesting telephone call on Monday August 29. It was from the Department of Foreign Affairs, who requested that she get herself, at their expense, to Paris by the following Saturday.

Mary has been chosen to run the Australian end of a six-nation comparative project co-ordinated through the OECD. The aim of the project is to compare the goals and benefits of the various multi-cultural education strategies in these six countries. The Australian segment will be funded to the tune of around \$40,000.

This project is one indication of the increasing international links and reputation of the CMS, but there are others. For example, Michael Morrissey, Associate Head of the Centre, spent two weeks in Havanah last October as a guest of the Cuban government, engaging in intensive consultations with educators and administrators. And Professor Stephen Castles was recently commissioned by the Agnelli Foundation to produce a paper on demographic development and multiculturalism in Australia. The Foundation will fly him to Turin to present the paper in October.

As the integration of the world economy proceeds, substantial permanent ethnic minorities are increasingly recognised as a feature of all industrial societies even those, such as Japan, which have previously been regarded as ethnically homogeneous. The sheer size of

Early Press Date

Because of the long weekend (October 1, 2, 3) the issue of *Campus News* for October 11 will close for press at noon on Friday September 30.

Australia's ethnic minorities and the relatively early and imaginative responses of Australia to this situation have resulted in increasing international interest in Australian multiculturalism.

As the biggest and best-known unit of its kind, the CMS naturally benefits. Recently discussions have been held with Professor Ochi of Tokyo University and Professor Sekine of Keio University about joint projects, possibly leading to an integrated study of the socio-economic effects of migration in the Pacific region.

It is also hoped that the Centre will act increasingly as a focus for visiting scholars in its area of expertise. The first such is Dr Annie Phzacklea, an eminent commentator on race relations in Britain, who will take up a Visiting Fellowship at the Centre in October.

Monograph Initiatives Fund

Submissions from Faculties for a share of the Monograph Initiatives fund for 1989 are now being sought. This fund is intended to enable Faculties to purchase some monographs for new degrees, diplomas or courses which would otherwise receive inadequate provision from recurrent allocations. New directions initiated by new staff members may also be included.

Submission forms have been forwarded to Deans, Heads of Departments and Library Liaison officers. Staff members wishing to make submissions should obtain a form and make the submissions through their Faculties. Submissions should be returned to the Acquisitions Librarian by October 31.

In the Long Gallery

1st and 2nd year BCA students cordially invite you to inspect their work created in 1988. The exhibition to be



opened by Laurens Tan continues until Sunday October 3 and is open Monday to Friday 10-4 pm, Sunday 1.30-4 pm.

Prominent Lawyer to establish Chair of Legal Studies

Chairman of the NSW Law Reform Commission, Ms Helen Gamble, has resigned her position. She has done so to establish a Department of Legal Studies at The University of Wollongong. And so that she may concentrate all her attention on the new job, she has also resigned from the Australian National University where she is senior lecturer in Law.

After taking up her position at Wollongong, and establishing a chair of Legal Studies, Ms Gamble will develop a Department to prepare a fresh course. This is a new Department--the first of its kind in Australia--in a young and vigorous university. Both are factors which have provided the magnet to draw this eminent lawyer from the NSW Law Reform Commission. Her role at Wollongong will be to teach non-law students about the law: to increase legal awareness among students from a range of Faculties. What she will be teaching in 1990 is not Law, *per se*, in the sense that she will not be turning out lawyers. That will come later. What she will be teaching to Wollongong students initially will be legal awareness--what the law is all about.

The Australia/Southeast Asia Program

BA degree courses are being offered in Australian History, Australian Politics, Australian Studies, Labour History, Economic History, Southeast Asian History and Politics, Southeast Asian Languages, North/South Relations in Asia, and the Pacific: the Australia/Southeast Asia Program (ASEAP) in the Department of History and Politics at the University of Wollongong, offers unique undergraduate Arts degree majors. The study focuses on 11 countries of the Southeast Asian and Australasian regions.

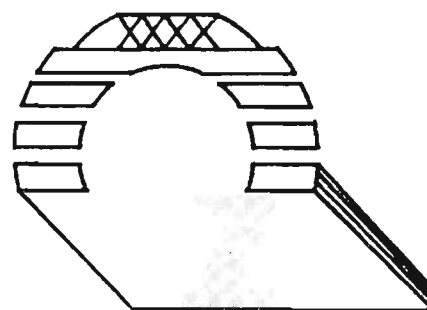
No other university offers such a detailed Program in Australian History. A full major sequence of three years of study is available, ranging from early Australian history to modern Australian economic history. This is backed up by additional courses in Australian Politics and Australian

Studies, and by a special seven-week Winter School (for foreign students in Australian Industrial Relations).

Similarly, the Department offers a unique three-year major in Southeast Asian History. All ten nations of Southeast Asia, and their ancient and modern histories, are studied in detail. This major, first established at the University of Wollongong in 1987, is now backed up by seven-week Summer School courses in modern Indonesian History and language, and by proposed three-year majors in Indonesian and Malay language and literature and in Thai language, making a comprehensive *Program in Southeast Asian Studies* available for the first time in Australia.

Well done, Civil and Mining

The first custom-designed Departmental logo, in response to our plea of some weeks ago, has arrived. Its arrival is the more encouraging since it is entirely new--the result of a design competition held in the Department of Civil and Mining Engineering.



Civil and Mining

Principal elements of the design (shown here) are the shape of a bridge structure supported by concrete foundations. These foundations are supported by a book of learning; a mine entrance is also present, with the M for Mining identifiable in the bracing of the bridge.

Senior Citizens Day at the University

A Festival of Wollongong event sponsored by The University of Wollongong and The National Australia Bank, Friday October 28, at The University of Wollongong Union. Admission \$2.

Ald. Norma Wilson will welcome the participants and officially open the day.

Talks: *Stay at home or move to a retirement village?* An address and video presentation by Anna Pratten, Assistant Director of the Senior Adult Unit, Chatswood District Community Hospital.

Staying Healthy in Old Age: An address by Tracey McDonald of the School of Health Sciences (Nursing) at the University of Wollongong.

The University of the Third Age (U3A). An exciting new development in senior adult education presented by a participant in one of the recent programmes.

Lunch: A smorgasbord lunch provided by the University of Wollongong and the National Australia Bank.

More talks: *Money Matters.* An address about investment, money management, and tax by a speaker from the National Australia Bank.

The great debate, Voluntary Euthanasia Speaker for--Speaker against. Discussion and questions of the panel.

Entertainment: The Don Harper Jazz Trio will conclude with a medley of songs from 'yesteryear'!

GRADUATION ON OCTOBER 13

The next graduation ceremony has been arranged for 2.30 pm on Thursday October 13. The ceremony will take place in the Sports Hall and awards will be made to graduands from all faculties by the Chancellor, Mr Justice Hope. The occasional address will be delivered by Dr G. Ramsey, Interim Chairman of the Higher Education Council of the National Board of Employment, Education and Training.

If you have any queries regarding the ceremony please ring Trevor Cuthbertson ext 3928, Moira Bowman ext 3360, or Marie Cooper ext 3947.

School of Policy and Technology Studies in Education Workshop



Mr Peter Grant at the conference

Held at The University of Wollongong on September 14 and 15, the Policy Workshop was informative and stimulating—as might have been expected of it bearing in mind the calibre of the speakers.

Speakers and their topics were:

Mr Peter Grant, Department of Employment Education and Training, *Changing Federal and State Relationships: Higher Education, TAFE and Schools.*

Mr Alan Ruby, NSW Department of Education, *An*

International Project on Performance Indicators in Education.

Mr Jeff Franklin, Centre for Technology and Social Change, University of Wollongong, *The Myth of the Positivist Paradigm.*

Mr Peter Manuel, Education Department SA, *Public Policy and Curriculum Processes in South Australia, 1968-1981.*

Mr Ray Gillies, NSW Department of Education, *Resolving Vocational Vs General Education: Anything new in the debate?*

Mr John Henderson, NSW Department of Education, *Policy Issues in Secondary School Staffing.*

Mr Mark Scott, Policy Adviser to the NSW Minister of Education and Youth Affairs, *Approaches to Educational Policy in Government.*

Discussions on University's Educational Profile

Eight representatives from the Department of Employment, Education and Training led by Drs Russel Linke and Barry Sheahan visited the University on Friday September 16 to hold discussions on the University's educational profile. The discussions were frank and useful, and centred on the University's current position and under what conditions the University could consider growth in the next triennium.

The University will be submitting some minor revisions to DEET regarding its profile as a result of the discussions, but full details of Commonwealth funding for 1989 will not be available until mid October.

Wollongong University ties and scarves are available from the Union Shop. They are excellent as presents to those travelling overseas, or as gifts to colleagues, friends, and graduates.

Associate Professor T.S. Ng prominent at International Conference

Associate Professor T.S. Ng of Electrical and Computer Engineering has just returned from Beijing, P.R.C., from a successful international conference, the 8th International Federation of Automatic Control Symposium on Identification and System Parameter Estimation.

This was a five days, tri-annual affair with over 450 participants from 43 countries. Over 250 participants came from outside China. An outstanding technical program of 67 sessions had been organised to survey, present and discuss both theory and applications of identification, system parameter estimation, digital signal processing and adaptive control. Previous conferences were held in 1967 - Prague, 1970 - Prague, 1973 - The Hague, 1976 - Tbilisi, 1979 - Darmstadt, 1982 - Washington, and 1985 - York.

Associate Professor Ng was invited to chair session '10.4 Parameter Estimation' in which six papers from five different countries were presented. Topics ranged from Smoothing in Markovian models to estimation in radar data processing.

He was also invited to present a paper entitled 'An IIR structure for digital tunable frequency response filter, adaptive notch filtering and line enhancers' in a special session on Digital Signal Processing organised by Professor A. Nehorai of Yale University, Professor P. Stoica of Polytechnic Institute of Bucharest and Professor T. Soderstrom of Uppsala University.



Associate Professor T.S. Ng

In addition he also presented a regular paper entitled 'On-line model order determination and parameter estimation' and one of his PhD students, Mr Hu Xiheng, also presented a joint regular paper entitled 'Robust self-tuner for variable time delay systems'.

Judging from the size of audiences and responses, it was clear that Associate Professor Ng's research work is well regarded internationally.

Mathematician Key Software Developer for award - winning design

At the recent inaugural National Engineering Excellence Awards of the Institution of Engineers, a punch press known as the QUTEC 60 CNC won the Engineering Products Division. In a joint development between the Queensland Institute of Technology and Universal Engineering a machine was developed, needing only preventative maintenance, and competitive in overseas markets.

An estimated 200 machines will be sold in the next five years, according to the journal, *Engineers Australia*, and could provide the School of Mechanical and Manufacturing Engineering with royalty payments of up to \$1.5 million.

The key software developer for the computer control element was Dr Ross Paull, a mathematics PhD of the University of Queensland. Dr Paull is now the computer and software developer for Universal Engineering Development Company (in Archerfield, Queensland), set up to produce and further enhance the QUTEC 60 CNC. Renault of France is interested in marketing the press in Europe. Dr Paull is remembered for his research into the aerodynamics of sails during a period spent in the Department of Mathematics at Wollongong University.

Recreation and Sports Association

Unirobics

No need to go off campus if you want to get involved in Aerobics. We have--

- Unirobics classes Monday-Friday
- All class supervised by qualified instructors
- Emphasis on fun and participation
- Each class designed to your level of fitness
- Staff and students only \$2 a class

Cheapest in the Illawarra!

Unicircuit

Why not try working out with Hydra Gym to music? All classes are--

- Fully supervised by qualified instructors
- Emphasis on body toning and improving overall fitness
- staff and students only \$2 a class

Timetable

Unirobics (45 min)	Unicircuit (40 min)
Monday 5.40 pm	Monday 12.40 pm
Tuesday 12.40 pm, 5.40 pm	Tuesday 4.40 pm
Wednesday 5.40 pm	Wednesday 12.40 pm
Thursday 12.40 pm, 5.40pm	Thursday 4.40 pm
Friday 5.40 pm	

For more information telephone 28 1266, ext 3361, 3362.

THE ART OF LUNCH

Free Lunch-time Performances

in music, theatre, film and readings

Every Thursday - 12.35 to 1.25 pm

Music Auditorium

EEO news....

Emphasis on the "Shalts" not the "Shalt Nots"

You will be aware that the EEO Unit has a role to investigate grievances and to try to co-ordinate strategies which ensure that policies, practices and people's behaviour are not discriminatory--that they are fair and based on job criteria, not irrelevant personal criteria.

However, most of our time is NOT spent in dealing with the "Shalt Nots" of the Anti-discrimination legislation (thou shalt not harass, intimidate, deny equal job opportunities etc.) but with the "shalts".

These are the positive steps that organisations such as ours are taking to improve employment opportunities for staff (like providing job rotation positions, training programs and more flexible study leave criteria).

This University is now being seen as a leader in the field of Staff Development and Training, and our initiatives for both academic and general staff are being sought and used as models for other universities in Australia and overseas. Sue Chapman, the Manager, Personnel Services, while attending seminars and visiting universities in Canada recently, was inundated with requests for information about our staff development programs.

Fourteen of the EEO strategies in the 1988 Management Plan relate to staff training and development; I look forward to reporting, at the end of 1988, on the steps which have been taken by this university—including the now-successfully-functioning Staff Development and Training Consultative Committee — to improve equal employment opportunity through staff development.

Programs for 1989 are in the process of being planned so anyone with thoughts or suggestions for suitable programs, please contact the new Staff Development Co-ordinator, Shirley Jorgensen, who started last week. Welcome Shirley.

Kathy Rozmeta,
EEO Coordinator.

Illawarra Committee for Overseas Students (ICOS) Program for second session, 1988

The following activities have been suggested for Session 2. The student representatives on the committee have more details about these activities, and questionnaires for you to indicate what you would like to do. If you do not know who your representative is, please telephone Enid or Arthur Sherwin on 84 8341.

- (1) Trip to Canberra for one day by coach to see the old and new Parliament Houses and other places of interest.
- (2) A Bush Dance. This will probably be combined with dinner and will be somewhere in the Wollongong district.
- (3) A Bush Walk. This may be either a one-day bush walk (fairly easy) and a barbeque, or an overnight camping trip, sleeping in tents. The overnight trip would be for adults and older children only.

Please let us know soon what activities you would like us to arrange for you, and then come along and join in the fun.

Research Funds

The sources of research funds given below are available to members of academic staff. Further information including application forms may be obtained from Kim Harriss (ext 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Research and Post-graduate Studies.

Wool Research Grants--1989/90

Applications are invited for grants from the Wool Research and Development Fund to support research in the textile industry.

Applications close with the University on November 18.

Kobe Steel Postgraduate Scholarships

Applications are invited for the Kobe Steel Postgraduate Scholarship to the University of Oxford. Applications are open to graduates of Australian Universities and the scholarship is tenable for two years.

Applications close with the University on October 17.

Packer Cambridge Scholarships

Applications are invited for Scholarships at the University of Cambridge commencing in October 1989. Applicants must be Australian citizens holding a First Class Honours Degree from an Australian university or equivalent.

Applications close with the University on December 1.

Jose Miguel De Baradianan Foundation

The Society for Basque Studies, in tribute to Jose Miguel De Baradianan, invites applications for the Jose Miguel Baradianan Society of Basque Studies--Eusko Ikasuntza Research Scholarship. The fields of research covered will be alternatively the archaeology and ethnology of the Basque country. The Scholarship is open to Basque people, is tenable for two years and is valued at approximately \$A24,785.

Applications close with the University on December 16.

1989 Fulbright Awards

The Australian-American Educational Foundation invites applications for Fulbright Awards in 1989 for Postdoctoral Fellows, Postgraduate Students and Senior Awards. Applicants must be Australian citizens and resident in Australia at the time of application. Awards are tenable in The United States and successful applicants will be required to return to Australia at the completion of the program.

Applications close with the University on September 30 for Postdoctoral/Postgraduate Students and November 18 for Seniors.

Pig Research Council Grants 1989/90

The Pig Research Council (PRC) invites applications to conduct research related to the pig industry in the 1989/90 financial year.

Applications close with the University on October 17.

Canadian Studies - Faculty Enrichment Awards

Applications are invited from academics holding a PhD or its equivalent interested in receiving a Faculty enrichment

Previously Reported in Campus News

Internal Closing

Wool Research and Development Fund	
1989/90	October 1
Menzies Scholarships	October 14
Maxwell Ralph Jacobs Fund	October 17
Gowie Scholarship	October 17
Nursing Research Grants	October 17
Pig Research Council Grants	October 17
AVCC Visiting Fellowships 1989	October 17
NHFA Science Research Scholarships	October 17
Robert S. McNamara Fellowships	October 18
Rebecca L. Cooper Medical Research Grants	October 28
Benians Fellowships	October 30
Lionel Murphy Scholarships	November 16
Canada Australia Bicentennial Research Awards	November 16
Academy of Science China Exchange	November 17
Canadian Faculty Awards	January 17
Amy R. Hughes Scholarship	February 1
IDP Research Funding	Any time
Utah Foundation	Any time
Criminology Research	Any time
Pig Research Council -- Support for Eminent Visitors	Any time
MERA Project Grants	Any time
Clive and Vera Ramaciotti Travel Grants	Any time
James N. Kirby Foundation	Any time
Telecom Research Laboratories	Any time
NSW State Cancer Council	
Travel Grants-in-aid	Any time
Spencer Foundation	Any time
Visual Arts/Craft Board	Any time
Earthwatch - Grants for Field Research in Science or Humanities	Any time
Science and Industry Endowment Fund	Any time

award to assist in devising and teaching Canadian content at their employing institution.

Applications close with the University on January 17.

NHFA Science Research Scholarships

The National Heart Foundation invites applications for a limited number of scholarships for full-time research studies in science concerned with cardiovascular function or disease or related problems, leading to the degree of PhD at an Australian university.

Applications close with the University on October 17.

The Amy R. Hughes Scholarship

The Australian Federation of University Women invites applications for the Amy R. Hughes Scholarship. The scholarship is open to all members of the AFUW for study or research in any country on any subject, and is valued at \$3,500.

Applications close with the University on February 1.

Book Supply

British library suppliers are now forwarding books to the Library by airmail post, at no extra charge. Negotiations are proceeding with North American suppliers, and it is expected that they will soon provide the same service. This arrangement should dramatically improve the service the Library can provide in acquiring overseas publications for university staff and students.

Seminars

Department of Science and Technology Studies

Date: Wednesday, September 28, 1.30 pm

Venue: Building 19 room 2061

Topic: Huxley and Woman's Place in Science: The 'Woman Question' and the Control of Victorian Anthropology

Speaker: Evelleen Richards

Department of Biology Biomedical Evening Series

Each 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 (042) 27 0434, so that appropriate bookings may be made. Seminars begin at 8 pm in Lecture Theatre G19 Building 35. (The assistance of Dr Stephen Andersen is acknowledged.)

September 28. A *Millipore* seminar on Molecular and Cellular Immunology. C. Goodnow, Clinical Immunology Research Centre, University of Sydney. *Immunological tolerance in transgenic mice.*

School of Learning Studies Staff and Postgraduate Series

All seminars in Room 21.104 (Meeting Room), 12.30-1.30 pm

September 28

Speaker: Graeme Hendry, PhD student, School of Learning Studies

Topic: A constructivist theory of learning.

Geography Department Student Series

Room G027, 12.30 to 1.30 pm each Wednesday.

September 28

Speaker: Jia Shu Shen

Title: 'Sediment transport in the surf zone'. (PhD progress report).

Department of Biology Seminar Series Session II

The Department of Biology seminars are held at The University of Wollongong on Wednesdays at 3.30 pm in Room 19, Building 35.

September 28

Speaker: Professor Michael Archer, Department of Biological Sciences, University of New South Wales.
Title: Riversleigh: new insights into the evolution of Australian vertebrates.

October 5

Speaker: Dr S. Robbins, CSIRO Division of Wildlife and Ecology.

Title: Enhancing the efficacy of myxomatosis: application of molecular biology to an environmental problem.

Department of Metallurgy and Materials Engineering - Session 2 Series

Wednesdays 4.30 to 5.30 pm Building 1, Room 134

Date: September 28

Speaker: Liquan Xu, University of Wollongong
Title: Wear of Materials

Date: October 5

Speaker: Udo Buecher, University of Wollongong
Title: Polymers

Geography Department Staff and Visitors' Series

Room G027, 12.30 to 1.30 pm each Thursday.

September 29

Speaker: Dr Lesley Head, Geography Department, University of Wollongong.

Title: 'Aboriginal use of temperate wetlands -- evidence from pollen'.

Department of Economics

Tuesday October 11:

E. Wilson - Modelling risk, uncertainty and economic "news" in foreign exchange markets.

All welcome!

Please bring your lunch to room 19.2100 at 12.30 pm.

The seminars are informal and speakers will report on completed research as well as work in progress.

If you would like to present a seminar or nominate speakers from off-campus, please contact Charles Harvie (ext 3702) or Sandra Mark (ext 3654).

Concerts, Exhibitions and Entertainment

Macbeth

How does one remove the Shakespearean text from the realm of critical analysis to performance in the eighties? The answer, according to Jeff Kevin, the director of *Macbeth*, which opens at the Bridge Street Theatre on October 7, is to set the production 'out of time'.

The first recorded performance of *Macbeth* took place at the Globe Theatre in April 1611. By any standard, *Macbeth* is a theatre 'classic'. The theme recognised strongly in *Macbeth* is a potential for evil in all men. The idea is no less relevant to Shakespeare's time than it is today: an idea which Jeff Kevin has chosen to implement in the concept for his *Macbeth*. The trick, then, is to be relevant to history and simultaneously remind a modern audience that corruption of power and ambition is still part of the society today.

The evil in *Macbeth* manifests itself in the violation of the bonds that exist between ruler with subject, friend with friend and man with nature, destroying natural order. The idea still holds sway today...we need only turn on the nightly news. This production of *Macbeth* by the School of Creative Arts will bridge that gap between the theatre classic and a modern audience.

Music Tuition

Highly experienced and qualified piano and musicianship teacher with Kodaly skills recently arrived from Sydney accepting pupils as from 4th term (Monday October 3). Pre-schoolers welcome. Telephone 28 3143 (evening after 7 pm).

Pregnant couple looking for pre-loved 'start-up kit' for their first baby. Contact ext 3455 or 26 8868.

Wanted

Wanted to rent. Apartment/House in the Wollongong/Northern suburbs area for month(s) of January, February and/or March. Contact ext 3455 or 26 8868.

For Sale by Tender

The University has one Thorpe Counter Marche Loom eight shafts, 42 inch weaving width, available for sale by tender. No guarantee is offered. Terms of sale are cash or bank cheque. For further information, contact Liz Jeneid (042) 27 0048.

Tenders close October 31. Tenders should be placed in a sealed envelope addressed to: Supply Office, The University of Wollongong, PO Box 1144, Wollongong NSW 2500. And noted on the outside front 'Tender for Loom'.

Car needed

Motor vehicle wanted for hire by visiting professor for approximately two months from mid-October. Telephone ext 3012, or 28 9475 (home).