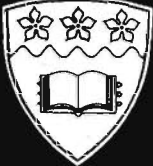


THE UNIVERSITY OF WOLLONGONG



CAMPUS NEWS

Distributed each Tuesday

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Editor: George Wilson, tel. (042) 270926

29 July 1986

EXPANSION OF INTERNATIONAL ROLE FOR TASC

In the week of July 21, Professor Hill, Co-Director of TASC and Head, Department of Sociology, was in Fiji, negotiating the development of a further International technology policy program for TASC of the University of Wollongong. Professor Hill was sent to Fiji by Unesco and will be acting on behalf of Unesco, the Australian government and the University in negotiation with the South Pacific Bureau of Economic Cooperation (SPEC). He is accompanied by an official representative of the New Zealand Government. The purpose of negotiation is to establish a high-level inter-governmental meeting of South Pacific nations to review their needs for technology policy assistance.

Professor Hill has been centrally located in the development of this international program over the past 12 months. He was a member of a Unesco mission that reviewed the needs for technology policy development in the region in mid 1985. Subsequently, commitment to the program has been obtained from member states of Unesco within the region, Unesco, the Foundation for International Training (Canada), the Australian Development Assistance Bureau, Australia's Department of Science, CSIRO, the New Zealand Government, and the Commonwealth Science Council. TASC is therefore playing a central role in both international negotiations as well as in new international initiatives to assist development planning within the Pacific region.

As Professor Hill commented:

'The possible development of a technology policy program for the Pacific region is an extension of work TASC has been doing for ASEAN nations over the past two years. The needs in the Pacific are however very different. The nations are very small and have virtually no developed science infrastructure except that which is provided under aid programs. Yet they are confronting very serious disruptions to economic and social development through the international high technology impact of telecommunications, computer systems, satellite-based television and even high technology fishing, such as by the Russians and Americans. Meanwhile, the nations are concerned with the development of agro-industries to capitalise on the sparse sources of agricultural wealth the nations depend upon. Many senior officials in the region now realise the need for integrating technology decisions into overall planning'.

TASC's involvement in this program is yet another demonstration of the Centre's high international standing.

WANTED-PONDS!

Jennie Chaplin is a PhD student in the Biology Department who is currently researching the ecological genetics of small freshwater crustaceans called ostracods. Ostracods are thought to be very common and widespread in Australian freshwater environments but almost nothing is known about their ecology or life history.

Jennie will be investigating the relationship between life-history tactics (eg, the reproductive mode and morphological form) and environmental conditions.

To conduct this study Jennie needs to have access to properties which have several farm dams or ponds (including temporary ponds). Anyone who can help please contact Jennie at the Biology Department, ext 3436.



At right: Jennie, hard at work collecting ostracods from a farm dam at Cullen Bullen



Staff Roundup

ACTING CHAIRPERSONS OF DEPARTMENTS

Biology, Dr. R. McCilley, until further notice.

Economics, Mr. R.G. Castle, June 18 to January 1,

European Languages, Dr. D.S. Hawley, until further notice

Geography, Dr. R.W. Young, May 1 to February 4, 1987

History and Philosophy of Science, Assoc. Prof. J.E. Falk, until further notice.

NEW TAXATION REGULATIONS

There have been a number of changes to requirements for proving taxation claims for work-related expenses, from July 1 this year. The Taxation office has produced a series of booklets to explain these changes, including **CAR EXPENSES, TRAVEL EXPENSES and WORK EXPENSES.**

Copies of the booklet may be obtained from the Personnel Services Branch (first floor, Administration Building).

SCHOOL HOLIDAYS 1987

The four term school year will begin in public schools from 1987. School holidays for next year are:

Midsummer 1986/87

December 19 to January 30

Autumn

April 16 to April 24

Winter

July 6 to July 17

Spring

September 28 to October 9

Midsummer 1987/88

December 21 to January 29

A list of school holiday dates from 1987 to 2000 has been placed on the Personnel Services Branch notice-board (first floor Administration Building) for the information of staff.

CURRENT VACANCY

Manager, Personnel Services, closing date August 6.
Further Details: Gary Graham, ext 3935.

STAFF CHANGES

New Starters

Mr. I.S. Jawahir, Lecturer, Mechanical Engineering

Ms. C. Alcorso, Research Fellow, Multicultural Studies

Staff Office is now

known as

PERSONNEL SERVICES BRANCH

General Notices

SPECIALIST IN METALLURGY AND MATERIALS ENGINEERING JOINS THE UNIVERSITY

The University has announced the appointment of Dr William John Plumbridge, an academic of international repute.

Dr Plumbridge will take up the position as Professor of Materials Engineering in the Department of Metallurgy and Materials Engineering in 1987.

Dr Plumbridge was born at West Bromwich, UK, in 1941. He is married with one daughter. He obtained from the University of Manchester a Bachelor of Science Honours degree in 1963, a Master of Science in 1964 and his Doctorate of Philosophy in 1966. In 1970 he was awarded a Master of Arts from Cambridge.

Academic appointments held have been as a Post Doctoral Research Fellow at the University of Manchester Institute of Science and Technology 1966-1970, as a Senior Assistant in Research at Cambridge 1970-1973. He was promoted to Reader in 1983.

Dr Plumbridge enjoys an international reputation and has published extensively in prestigious journals. He is editor of *Fatigue of Engineering Materials and Structures*. Funding for research has been considerable and from such areas as The Science and Engineering Research Council, Rolls Royce Limited and the UK Ministry for Defence. Consultancies include Rolls Royce Limited and Ampep Limited. Dr Plumbridge has moved from early research in Physical Metallurgy, via mechanical behaviour, to design and life assessment of engineering components.

NEW PROFESSOR OF EDUCATION

Dr Millicent Eleanor Poole, Associate Professor of Education at Macquarie University, has been appointed to a Chair of Education at Monash.

A graduate from the University of Queensland, she did an MA at the University of New England and gained her PhD from La Trobe University with a thesis titled 'Linguistic, cognitive and verbal processing styles: A social class contrast'.

She has taught at La Trobe and Macquarie universities, and held Visiting Fellowships at Berkeley, Oregon, Harvard and Melbourne.

Professor Poole is editor of the *Australian Journal of Education* and a member of the executive of the Australian Council for Educational Research.

Her research is centred on the role of education in human learning and development, and on issues relating to education and social policy.

She has recently focussed on multi-culturalism and her work has led to a series of cross-cultural studies examining the part played by society in shaping the future of individuals.

RESEARCH GRANT AND CONFERENCE PRIZE AWARDED TO BIOLOGY PHD STUDENT

Miss Sue Carthew has recently received recognition from two sources for her PhD research: The Breeding System of *Banksia*. Sue was awarded a prestigious Australian Museum grant of \$986 to fund the continued use of automated photographic techniques to monitor animal pollinators visiting *Banksia spinulosa*.

In addition Sue was the joint winner (with Mr Ed Slater) of the photographic competition at the recent Adelaide conference of the Australian Mammal Society.

Sue's project involves an integration of several aspects



Sugar glider visiting a Banksia inflorescence (see 'Research Grant')

of biology; genetics, plant reproductive biology and animal behaviour. This intergration is necessary to establish how pollinator behaviour determines plant seed production in Banksia species. One major difficulty is that mammals are important pollinators and they are nocturnal. Indirect techniques are therefore required to monitor mammal activity.

The results of the automated trip technique developed by Sue Carthew and Ed Slater speak for themselves in the accompanying photograph which shows a sugar glider visiting a Banksia inflorescence.

friends

**Campus Community
Interface**

GRADUATE REUNION DINNER

The 1986 Graduates Reunion Dinner will be held specially for the graduating classes of 1980 and 1981.

The Dinner, following tradition, will be held on University Day Friday August 8 at 7.30 pm in the Union Hall. The Dinner will follow the University Day Address in Pentagon 1 at 6 pm. The guest speaker at the Dinner will be Mr Hugh Hudson, Chairman of the Commonwealth Tertiary Education Commission.

Staff are urged to renew their ties with the graduates at this important reunion.

It is expected that a large number of graduates will return to the University, as a special group of volunteer graduates who are rostered to look after the Graduates Room in Friends House, will be telephoning graduates of 1980 and 81 to encourage attendance.

Staff or Graduates or Friends who wish to attend should sent \$16 per head to the Graduates Group at the Friends House, c/- Box 1144, Wollongong East, NSW 2500.

THE FRIENDS CALENDAR

Wednesday 30	Friends Visit to the School of Creative Arts, 12 for 12.30 pm
Thursday 31	Friends Presentation of the Queensland Marionette Theatre to Schools and Friends Members, 11 am and 1 pm, Wollongong Town Hall

August

Friday 8	University Day
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Friday 8	Graduates Reunion Dinner 7pm, Union Common Room
Sunday 10	Town v Gown Rugby Match 3pm, University Oval
Wednesday 13	Projects Committee 5pm, Board Room

September

Wednesday 18	Graduates Group 6pm, Board Room
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October

Saturday 18	University Regiment Annual Dinner Balgownie Collegians Club
Sunday 19	Town v Gown Cricket Match

GRADUATES GROUP INFORMATION SERVICE

Situated in Friends House, 49 Northfields Avenue. Telephone 270082.

Volunteer graduates will be present between 10 am and 4 pm in accordance with the roster below:

July

Wednesday 30	Sandra Stanley
Thursday 31	Kath Condell

August

Tuesday 5	Wilma Furlonger
Wednesday 6	Norman Mitchell
Thursday 7	Marjorie Macdonald
Tuesday 12	Margaret Reid
Wednesday 13	Anne Young
Thursday 14	Winifred Ward
Tuesday 19	Melvà Merletto
Wednesday 20	David Roberts
Thursday 21	Noeline Burt
Tuesday 26	Michael Arrighi
Wednesday 27	Sandra Stanley
Thursday 28	Kath Condell

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.

Adelaide	Co-ordinator, Cancer Prevention and Education Unit, Administrative Officer Grade 2 Behavioural Scientist, Cancer Prevention and Education Unit, Research Officer Grade 2 Lecturer in Mechanical Engineering Tenurable Research Associate in Medical Biotechnology, National Biotechnology Program Equal Opportunity Officer Lecturer in German, Tenurable Computing Officer Grade 3
Massey, NZ	Chair of Agricultural and Horticultural Systems Management Lecturer in Microbiology
Newcastle	Lecturer, Tenurable, Department of English
Queensland	Specialist Tutors in Occupational Therapy Lecturer in Government, three positions, Tenurable Lecturer in Music, fixed term Lecturer in Zoology, Tenurable

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.

AGRICULTURAL RESEARCH AND EXTENSION INVENTORY 1985-86

The Department of Primary Industry is compiling an inventory of agricultural research and extension for the year 1985-86. The inventory will provide early information on the level and movements of rural research and extension resource allocations.

Any Departments or Schools wishing to record relevant agricultural research are asked to contact Mr Tom Moore (ext 3386) by August 15.

AUSTRALIA COUNCIL

CRAFTS BOARD

Projects grants for organisations—assistance is available for projects responding to identified professional development needs, and projects which assist the interaction of professional practitioners and the community, creating new opportunities for craft development and furthering the professional status of the crafts. Established organisations and institutions, local groups and associations, local government bodies and trade unions are eligible to apply.

Contemporary craft acquisitions—assistance is available in the form of a subsidy towards the cost of contemporary Australian craft acquired for a public collection during the period 16 September 1985 to 15 September 1986. State art

galleries, regional galleries and organisations or institutions which have public collections are eligible to apply.

Challenge grants for equipment—assistance towards the purchase cost of major items of equipment. Craft groups and organisations are eligible to apply, and applicants are required to raise 50% of the cost of acquiring such equipment. Priority is given where craft development is being inhibited by lack of access to major equipment.

The Crafts Board accepts applications at any time for the following programs:

* **Special projects**—assistance towards projects which respond to particular need, which reflect the Board policy priorities and which do not readily fall within the guidelines of other programs of support.

* **Craft in public places**—assistance towards cost of commissioning of major craft works for permanent display, or for integration as architectural elements in public places or buildings. Local and state government bodies, universities, schools and non-profit making groups and organisations are eligible to apply. Assistance is essentially of a seeding or supplementary nature towards fees or other costs such as a feasibility study.

DESIGN ARTS BOARD

Furniture design—special grants to encourage greater use of designers in the furniture and furnishings industries.

Assistance is available to manufacturers of contract or domestic furniture, floor coverings, upholstery textiles, and curtains, for up to 50% of the costs of designers fees or designers salaries for innovative design projects.

PREVIOUSLY REPORTED IN CAMPUS NEWS

Name	Closing Date With Agency
Australia/China Exchange Fellowships	July 30
Postdoctoral Fellowship in Telecommunications	July 30
Wright Prize in Poetry	July 31
Apex Foundation — Mental Retardation	July 31
Bureau of Labour Market Research	July 31
Law Foundation — Travelling Fellowship	July 31
National Occupational Health and Safety: Research Grants	July 31
Northern Territory Literary Awards	August 4
Australia Council: Community Arts, Literature and Visual Arts Boards	August 15
Australian Sports Commission	August 15
National Occupational Health and Safety: Special Purpose Grants	August 29
Harkness Fellowships	August 29
AINSE Research Fellowships	August 31
1987 Science Exchange Visits	September 1
Australia/Greek Fellowships	September 1
Grants for Industry R&D	September 30
Research Into Drug Abuse	N/A
Carnegie Corporation	N/A

RURAL COUNSELLING GRANTS

The Minister for Primary Industry announced in his Statement on Economic and Rural Policy on 15 April 1986 that \$900,000 a year would be provided to assist rural communities with the cost of employing rural consellers.

Local non profit groups are now invited to apply for grants for this purpose.

Applicant groups should represent the range of local interests in a particular area having the commitment and ability necessary to successfully manage a rural conseller. Grants will be directed primarily to severely depressed rural areas where there is a need and a demand for a rural counsellor.

Closing date August 20.

LITERATURE BOARD

Playwrights-in-residence—(in conjunction with the Theatre Board) applications from theatre companies for assistance towards the salaries of nominated Australian playwrights-in-residence.

Commissions—applications from theatre companies to commission writers for particular works.

Publishing subsidies—occasional publishers registered with the Literature Board are invited to apply for specific title grants to publish creative writing of a high quality. Applications are not accepted from writers who wish to publish their own work.

MUSIC BOARD

The Alliance Francaise/French Government Fellowship is offered by the French Government in association with the Federation des Alliances Francaises d'Australie and the Music Board for an Australian musician to undertake a program of study in France for up to 12 months during 1987-88.

National and International Study Grants of up to \$10,000 are offered to assist outstanding professional or student composers, performers, conductors, musicologists, educators and instrument makers to undertake a program of advanced study in Australia or overseas.

Applications close September 15.

QUEENSLAND EQUINE RESEARCH FOUNDATION

Submissions are requested from institutions or individuals for projects on equine research to be carried out in Queensland.

The Foundation will consider proposals in any area of equine research but it would welcome particularly submissions in the areas of:

- (a) Reproduction
- (b) Factors affecting growth and performance
- (c) Pharmacology
- (d) Treatment of injuries in Performance Horses

Application close on August 31.

THE NEW SOUTH WALES STATE CANCER COUNCIL

Travel Grants-in-Aid, usually of three to four months duration, will be awarded to graduates in medicine and/or science engaged in the clinical investigation and treatment of cancer.

Closing date September 1.

eEO news....

TOO OLD? WRONG RELIGION?

Question:

Why isn't it illegal to discriminate on the grounds of age and religion in NSW?

Answer:

In the real and imperfect world, there are many grounds for unfair and less favourable treatment. Sometimes it's personality, the way you dress, the club you belong to or your political views. Sometimes it's your age or your religion.

The Anti-Discrimination Act (1977) originally covered as grounds for discrimination only sex, race and marital status.

There was evidence that in the workforce and the market place, these were the main sources of widespread discrimination.

Later the Act was amended to include physical and intellectual impairment and homosexuality, as a result which indicated a high priority need to render these grounds as illegal, as well.

Three more in-depth reports have been carried out by the Anti-Discrimination Board—on age, religion and political conviction.

So far they have not been included under the terms of the Act even though there is a great deal of evidence to indicate that unfair treatment is often received on these grounds.

People over 50, for example, are often overlooked for employment because "they would be burnt out"—an

assumption as dangerous as those ascribed to certain races; eg: "they're all lazy", or to women, "they're too emotional".

We eagerly await a change which will assist those disadvantaged in this way but until then, we must rely on the principles of equal opportunity to permeate all employment practices so that individuals are considered on their job-related merits rather than categories like moslems, women, over fifties, or homosexuals.

NOMINATIONS FOR EEO COMMITTEE

It is proposed to establish an Equal Employment Opportunity Committee which will function as a broadly based advisory body representing members of target groups and other interest groups affected by equal employment initiatives.

The membership of the Equal Employment Opportunity Committee will comprise:

- the Vice Chancellor/Director of Affirmative Action
- the EEO Co-ordinator
- one representative from Staff Office
- four women representatives:
 - one from general staff
 - two from faculty sector
 - one from Advanced Education sector
- four union representatives
 - one from FAUSA
 - one from Lecturers' Association
 - one from PSA
 - one from FMWU
- one Aboriginal representative
- one person representing staff of non-English speaking background
- one person representing disabled staff.

Nominations have been called for these positions, and will close on August 15. All academic and administrative heads and unions have been advised of the establishment of the committee, and have been asked to notify staff accordingly.

If you are interested in being on this committee, or would like further information, please contact the EEO office, ext 3917 or 3030.

Kathy Rozmeta
ext 3917

The changing note of women in society was the theme chosen by Sally Bowen, for her lunchtime address under the fig tree on Monday of last week, July 21. Questions she posed were: has the position of women improved? Is there no longer a need for women's Liberation? are the advances being made by the women's movement being eroded? Sally Bowen has lived and worked in industry in the Illawarra since 1941. Her talk was organised by the University Union



Seminars

DEPARTMENT OF BIOLOGY

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

Date: Tuesday July 29

Speaker: Ms Ruth Ballardie, Department of Biology

Topic: Reproductive success in *Macrozamia communis*: the influence of spatial and population synchronicity.

Date: Tuesday August 12

Speaker: Dr David Ayre, Department of Biology

Topic: Coral Chimeras/Self-recognition in Coelenterates.

POSTGRADUATE SEMINAR IN HISTORY

July 31 — Dr Ray Markey — Populism and the Establishment of the NSW Labor Party 1890-1900

August 14 — Dr Stuart Piggitt — Towards a Bicentennial History of Australian Evangelicalism

DEPARTMENT OF MATHEMATICS

Speaker: Dr Jonathon P. Seldin, Odyssey Research Associates and Concordia University, (Montreal, Quebec, Canada)

Date: Thursday July 31

Place: Room 15.204 (Austin Keane Building)

Time: 1.30 pm–2.30 pm

Title: "Manipulating Proofs"

DEPARTMENT OF PHYSICS

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

Date: Thursday July 31

Speaker: Dr John Storey, School of Physics, University of New South Wales.

Topic: Infra Red Astronomy.

Date: Thursday August 14

Speaker: Dr Stephen Collocott, CSIRO Div. of Applied Physics, Lindfield.

Topic: Low Temperature Heat Capacity of Some Glasses and Glass Ceramics.

PERCEPTIONS OF DECEPTION IN SCIENCE

Tuesday August 5, 12.30 pm, University of Wollongong, building 19, room 241.

Dr Sapp is a lecturer in the Department of History and Philosophy of Science, University of Melbourne. His book, *Beyond the Gene: Gytoplasmic Inheritance and the Struggle for Authority*, will appear this year by Oxford Moewus and the origins of molecular genetics.

AUSTRALIAN INSTITUTE OF MANAGEMENT — THE EXCELLENT AUSTRALIAN MANAGER

Seminar led by Wilfred Jarvis — November 24 and 25.

Wilf Jarvis has asked thousands of employees — from shop floors to board rooms — to give opinions about their job experiences and their managers.

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: August 6

Speaker: Dr W.J. Peacock, Chief, CSIRO, Division of Plant Industry, Canberra.

Topic: Gene Engineering in Plants

Date: September 10

Speaker: Dr J.A. Sved, School of Biological Sciences, University of Sydney.

Topic: Hybrid Dysgenesis in *Drosophila*.

DEPARTMENT OF MECHANICAL ENGINEERING

Speaker: Dr G. Goodwin, Senior Lecturer in Instrumentation, Department of Mechanical Engineering, Brighton Polytechnic, United Kingdom.

Date: Wednesday August 6

Place: Building 4, Room 138

Time: 11.30 am

SCHOOL OF INDUSTRIAL AND ADMINISTRATIVE STUDIES

Date: Thursday August 7

Place: Building 22, Apple Lab 3 (ground floor)

Time: 11.30 am to 12.30 pm

Speaker: Alex Zelinsky, Lecturer in Computing, University of Wollongong.

Title: The Robotics Revolution.

TERTIARY ADMINISTRATION, CURRENT TECHNOLOGY AND OFFICE AUTOMATION

Seminar for senior administrative and academic staff — Broadway campus, NSW Institute of Technology, August 15 to 19 — presented by Professor Wallace Ewart, from the University of Ulster. Residential fee is \$700, non-resident option \$550. The program is conducted under the National Staff Development Program of the Australian Institute of Tertiary Educational Administrators in conjunction with the Sydney College of Advanced Education. Inquiries to Ms C. Gaud, NSW Institute of Technology, Broadway, NSW, 2007 (tel. 2189062).

Sport

TOWN Vs GOWN RUGBY MATCH ON AGAIN

The Town Vs Gown Rugby match will be played on Sunday August 10 at the Vikings Rugby Field, Swan Street, Wollongong, kick-off at 3 pm.

This is the second match to be played between the Vice-Chancellor's fifteen and the Lord Mayor's fifteen and will follow the pattern set in 1985 (when, incidently, Gown won by 10–3). The Gown team will include present and former members of the university club with special guest players, Peter Lucas and Bob Egerton. Peter is a former student and Australian international and Bob is the current Sydney University fullback, who, in 1985, was the leading try scorer in the Sydney first grade competition. Two of his brothers are presently students at Wollongong and play with our club.

The Town team will consist of present and former players from district clubs with special guests Barry Stumbles and Jim Hindmarsh, both of whom are former internationals.

It is hoped that a "Golden—Oldie" game will precede the main game. All are welcome to come along and support the Gown side (or even the Town) at what I am sure will be a great afternoon of rugby. It is also a chance to see a few old faces going around again and repeat all the tall stories of earlier years.

Ian Lowe
University Club President

RESULTS

MEN'S SOCCER

1sts v Corrimal lost 9—0
Reserves v Corrimal lost 2—0
U/19's v Corrimal lost 6—0

RUGBY UNION

1sts v Vikings won 16—0
Reserves v Vikings won 7—3
3rds v Vikings won 6—0

MEN'S HOCKEY

1sts v North Wollongong drew 1—1
2nds v North Wollongong won 2—1
3rds v Albion Park won 3—0
4ths v Albion Park lost 1—0
5th Uni Red v Albion Park won 4—1
5th Uni Blue v Towradgi Park drew 0—0

Sunday

5th Uni Red v Uni Blue drew 2—2

Inter Departmental entries for:

1. Volleyball
2. 7-a-side Unisex Soccer for session II must be in by Friday August 1.

Make sure your Department is entered.

PERMENT SQUASH AND TENNIS BOOKINGS

For all enquiries call into the recreation and sports association office.

Scholarships and Prizes

MPhil (DEVELOPMENT STUDIES) 1987 - 89

The Institute of Development Studies is inviting applications for its two-year inter-disciplinary MPhil in Development Studies for the October 1987 intake.

Preferred candidates are those who have a genuine interest and potential involvement in the formulation of policies to define, foster and channel the development process. It is desirable, but not essential, that candidates should have studied some economics, and have had some relevant work experience after their first degrees.

Applicants should write directly to the University of Sussex Admissions Office for application forms. Potential applicants who first wish to have more information about the course should write directly to the undersigned at this Institute. The address is: Admissions Officer, Sussex House, University of Sussex, Falmer, Brighton, BN1 9RE, England.

CSIRO DIVISION OF OCEANOGRAPHY VACATION SCHOLARSHIPS FOR 1986/87

Vacation scholarships are offered in CSIRO Divisions of the Institute of Physical Sciences, at their various locations in NSW, Victoria, the ACT and Tasmania during the December—February university vacation period.

Scholarships are offered to currently enrolled undergraduate students who have completed not less than three years of a full-time undergraduate course. These scholar-

ships are intended to provide students with the opportunity to undertake an appropriate research project in a field of interest relevant to one of the Divisions and the successful applicant.

The scholarships are offered for a minimum period of eight weeks over the December—February period. Vacation scholars will spend their scholarship periods within the CSIRO Division of Oceanography, Hobart and will be supervised by members of the research staff.

Students who wish to be considered for the award of a vacation scholarship in 1986/87 at the Division of Oceanography should lodge applications as soon as possible with The Chief, CSIRO Division of Oceanography, GPO Box 1538, Hobart, Tasmania 7001.

Closing date is September 19 1986.

COMING EVENTS

A SYSTEMATIC APPROACH FOR UNDERSTANDING MATHEMATICAL PROOFS

This series of about ten one-hour lectures is designed to teach you how to read, understand, think about and "do" mathematical proofs. As you will learn, all proofs consist of a sequence of about ten proof techniques which will be illustrated using elementary problems requiring no knowledge beyond high school mathematics. You will also be shown when to use each technique. Specifically, you will see that the problem under consideration often contains "key words" that suggest using an associated proof technique. A second objective of these lectures is to teach you how to read proofs by identifying which techniques have been used. Doing so will enable you to read almost any mathematical literature (and to understand your mathematics instructors)!

Professor Solow is an Associate Professor in Operations Research at Case Western Reserve University, with major interests in Mathematics and Computing Science education. His book, "How to Read and Do Proofs, John Wiley 1982" which has been translated into several languages, can be ordered from the bookshop (\$37.40). Two copies of the book will be on closed reserve in the library. This series of lectures represents a unique opportunity for students at Wollongong University to profit from Professor Solow's stay in the Computing Science Department. The lectures are scheduled on Thursdays, 12.30 to 1.30 pm, in lecture theatre 14.0, beginning on Thursday July 31. The lunch time has been chosen to avoid timetable clashes with scheduled subjects.

BAROQUE TODAY

There will be a special lunchtime concert of Baroque Music by the students of the School of Creative Arts today, Tuesday July 29, at 12.40 pm in the Music Auditorium.

The new Robert Deegan harpsichord will be featured in a program of works by Bach, Handel, Telemann and Pepusch.

Advertisements

FOR SALE

One G.E. Fan Heater \$15; One Sunbeam Vertical Griller \$50; One London Stroller \$20. Phone 287836 after 4 pm.

Husqvarna model 3200 sewing machine, 18 months old, almost never used, \$200 (half price of a new one!). Contact Marilyn on 3541.

Concerts, Exhibitions and Entertainment

'NO FRILLS' ART SCHOOL EXHIBITION

'No Frills' Art School Exhibition is the title of a display of works now being staged in the School of Creative Arts Long Gallery. It remains open until August 10.

The exhibition consists of works produced by staff from the School of Art and Design at Wollongong West College of TAFE.

A broad range of works is on display. Paintings, drawings, etchings and lithographs, photographs, ceramics, sculpture and a computer graphics installation are shown.

The title 'No Frills Art School' sums up conditions at Wollongong West TAFE School of Art and Design.

The buildings are over 50 years old and students and staff must work in conditions which are less than luxurious.

Despite this, the spirit of the school is healthy and vital. This vitality is reflected in the diversity and quality of art to be included in this exhibition.

Open to the public: Monday to Friday 10 am to 4 pm
Sunday 1 to 5 pm.

ONE O'CLOCK JUMP CONCERT AND WORKSHOP

Workshops will be held in the Music Centre Auditorium, Entrance 4.

Workshops will be conducted by Neil Slater, Head of Music at North Texas State University.

First he will rehearse the One O'clock Lab Band, then

he will rehearse Don Harper's Wollongong Conservatorium Big Band.

The various sections will then go to different rooms, ie saxes on one, brass in one, rhythm in another, when general discussion takes place: section playing, teamwork, phrasing, dynamics and so on.

1. 2 pm to 5 pm, Saturday August 9

2. 9 am to 12 noon, Sunday August 10

Concert

Concert (featuring both bands), 8 pm — Sunday August 10, University Union Hall, Entrance 2, Northfields Avenue, Keiraville.

Tickets are available from: Wilsons Record Bar, Crown Street, Wollongong, phone: 291470; University Creative Arts, phone Jenny Stewart 270987 or Sheila Hall 270996; Wollongong Conservatorium, phone 281122; or at the door.

Concert: \$6 adult, \$4 concession; workshops: \$6 each. All inclusive — concert and two workshops \$15.

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.

La Fille du Regiment*	Saturday August 16	1 pm
The Magic Flute †	Thursday August 21	7.30 pm
Macbeth	Friday September 5	7.30 pm
Manon Lescaut	Saturday September 20	1 pm
Rigoletto	Saturday October 11	1 pm
Die Fledermaus	Friday October 24	7.30 pm
Eugene Onegin	Saturday November 1	1 pm

*No concession available. Tickets \$50.

† Premium reserve tickets only \$45.

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

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