

CAMPUS NEWS

Research grants shaping up for best year ever

Funding for research projects has increased again this year, commensurate with the growing status of the University and strengthening research profile.

An 80 per cent success rate for the Australian Research Council Collaborative Scheme was achieved with all applicants who reached the final round receiving funding.

The new grants were:

- Professor Gordon Wallace/Dr Will Price (Chemistry) with CRA Adv. Tech Development;
- Associate Professor Roger Truscott/ Dr John Carver/ Dr Margaret Sheil (Chemistry) with AMRAD Corp Ltd;
- Dr Tara Chandra/ Professor Druce Dunne (Materials Engineering) with BHP SPPD;
- Associate Professor Kiet Tieu/ Dr Xiang Dong Fang (Mechanical Engineering) with BHP SPPD

Continuing grants under this scheme were:

- Professor Druce Dunne (Materials Engineering) with Bisalloy Steel;
- Professor Don Hindle and Professor Dennis Calvert (Public Health and Nutrition) with the Illawarra Health Service;

- Dr Masoud Samandi and Professor Druce Dunne (Materials Engineering) with David Brown Gears;
- Professor Gordon Wallace (Chemistry) with the Australian Defence Industries Ltd.

Fifty percent of submissions for the Australian Postgraduate Research Awards (Industry) were successful; an outstanding success rate in the face of ever increasing competition.

The programs to receive funding were:

- Dr Mark Baker (Biological Sciences) with Biotec Australia;
- Professor John Bremner (Chemistry) with Phytex Australia Pty Limited;
- Dr Tara Chandra (Materials Engineering) with BHP;
- Associate Professor Linda Viney with Wollongong Counselling Interagency;
- Dr Mark Walker (Biological Sciences) with CSL Limited.

Applications for ARC Large Grants (initials) yielded 16 successful programs, up from 11 last year.

The largest grant of \$120,000 was awarded to Dr Melanie Beresford (Department of History and Politics).

Thirteen of the 16 grants were multi-year grants compared to five of the 11 grants received last year.

The University ranked 12th nationally for initial grant funding for the ARC Large Grants Scheme.

ARC Small Allocations are up from \$257,000 in 1993 to \$395,100 this year.

The University performed well too in the allocation of National Health and Medical Research Council Grants with three continuing grants and four initials.

In 1993 the University received one initial valued at \$45,838. The four initials received this year totalled \$175,000.

Reward outstanding service: Nominations open

Whether you are a member of an outside organisation, a member of staff at the University or an individual in the community, if you become aware of a General Staff member of the University who provides outstanding service consider nominating them for the special Vice Chancellor's Award.

This award has been established to encourage and reward outstanding or exceptional work performance.

A nomination may be made by any three people. Only one of the nominators may be from the nominees own Department/Branch/School/Division/Centre. No more than one nominator may be an external client (with a demonstrated affiliation with the University).

Individuals and groups are eligible to receive the award.

The nomination will meet one or more of the following criteria:

- An outstanding and exceptional achievement or success, with a demonstrated value,
- Outstanding service to clients of the Branch/Department/University, with a definable benefit to the clients,
- An outstanding or novel initiative which has been implemented, and has a demonstrated value,
- Changes or improvements to work practices of a definable benefit to the Branch/Department/University

Continued page two

Super fund research grant won

Dr Michael McCrae, Associate Professor in the Accountancy Department, Faculty of Commerce has been awarded one of three prestigious 1993 grants made by the Australian Superannuation Funds Association.

Dr McCrae won the substantial grant against Australia-wide applicants for research into aspects of the superannuation fund industry that have direct significance for industry participants, including the Commonwealth government.

His research project focuses on the comparative performance of Australian fund managers.

The project analyses the long-run performance of the industry as compared with other investment vehicles, and then explores the critical factors associated with the performance of individual managers.

Dr McCrae commented that some fund managers have several funds under management totally in excess of \$100 million.

There had been a lot of speculation that the industry, as a whole, may not be performing as well as it might and that the performance of managers varies considerably.

'This study will shed a great deal of light on these issues,' he said.

The study also investigates the need for performance indicators other than the rate of return such as investment time horizons, the mix of permitted investments, fund characteristics and the accountability of various participants including managers and trustees.

'Investment performance means different things to different people, de-

pending on the decisions they are making,' he said.

'Recent government initiatives, make disclosure a critical issue as superannuation funds account for an increasing percentage of total domestic investment funds.'

Mr Paul Klumpes of the Commerce Department, Australian National University will help with the research.

Additions to multi-storey car park

Several plans have been under consideration to increase the availability of parking in 1994.

It has been decided that an additional two levels will be constructed on the Multi-Storey Carpark.

This option is considered to be the best available since it is cost effective, does not use any "green" space or future building sites and causes fewer disruptions than most of the other options.

To enable the additional parking to be available from the start of Autumn Session 1994, it is necessary to begin construction immediately.

All levels, other than the reserved parking on the bottom levels 1 and 1A, are unavailable for parking until completion of construction at the end of February.

SRC elections

The successful candidates of 1993 by-election for the Students' Representative Council have been announced.

The office bearers are:

President Peter Knox; Vice-President Terrie Lynn; Honorary Secretary Hannah Couch; Honorary Treasurer

Krystyne Savivanh; Activities Officer Vanessa Badham; Education Officer Patrick Brownlee; Media Officer Kathryn Goldie; Welfare Officer Jodie Hoyer; Women's Officer Kate Connors; Environment Officer Frank Newman.

General representatives: Damien Cahill, Robert Mikhail, Craig Meade, Katherine Walsh, Anna Budden, Emilie Sutton, Vanessa Wong, Gareth Gillham, Prue Bolton, Megan English, Leo Nicholson.

A sorry story

Two plovers set up a nest on the mound near the University Lodge recently and for a month diligently protected their four eggs from real and imagined dangers.

The eggs began to hatch and the parents became doubly protective.

One day they flew at a young man who came too close and instead of respecting their territory the young man retaliated by throwing rocks at the nest.

A remaining egg was broken and one chick killed.

It may have been ignorance but this is certainly not the attitude the University hopes to encourage by providing a beautiful environment for staff and students and visiting wildlife.

The plovers have moved their remaining chicks to another location which is being carefully watched over by the gardening staff in the area.

Master class a treat

The Conservatorium of Music welcomed more than 1000 visitors at an Open Day on Sunday 7 November.

It was an opportunity to display the wealth of young musical talent in the region which is being carefully nurtured by the talented staff at the Conservatorium and School of Creative Arts.

A special treat this year was a piano master class conducted by the distinguished American Professor William Corbett-Jones, who is visiting the Sydney Conservatorium for a month as Artist-in-Residence.

He came to Wollongong especially for the occasion at the invitation of the Senior Music Administrator, Penny Chapple.

Professor Corbett-Jones gave a three-and-a-half hour master class that provided a wealth of information and encouragement for the young pianists and an entertaining and informative experience for those in the audience.

Ms Chapple plans to make master classes a feature of the Conservatorium Open Day.

Nominations open for outstanding service awards

From page one

Up to six awards a year, valued at \$1000 each, are available to General Staff.

The recipients will have the option of receiving the reward in the form of an amount of money, \$1000 (tax free), or attendance at courses or conferences of their own choice, to the value of \$1000.

Consideration may also be given to use the award to pay for the provision of equipment, eg: a personal computer for either work or home use.

All recipients will also receive an inscribed certificate, which will be awarded on University Day next year.

For information on the decision-making process and procedural matters, refer to the information brochure available from the Personnel Services Branch or Faculty Officers.

Alternatively, you may contact Ann Kiceluk, Personnel Officer, (General Staff), ext. 4284.

Nominations must be forwarded by 30 November to the Head or Unit Manager who must submit the nomination to the Vice-Principal (Administration) by 11 December.

Resources

**University of Wollongong
Environment Consortium Newsletter No. 3, November 1993**

Environment Research Institute established to coordinate future

At the Inaugural Allan Sefton Memorial Lecture on 23 September, Deputy Vice-Chancellor, Professor Gerard Sutton, announced the formal establishment of the University of Wollongong **Environment Research Institute (ERI)**.

The institute will play an important role in coordinating environmental research and consultancy work at the University.

The establishment of the Institute is part of the University's research development plan which envisages the creation of six to eight institutes across the University, with three coming into operation in 1993.

For more than 10 years the University of Wollongong has been carrying out teaching, research and consultancy activities with an emphasis on understanding and management of the world around us.

The University has gained a reputation for innovative teaching and quality research on environmental issues.

These interests have been located primarily in the Faculties of Science, Engineering, Law, Health and Arts, with more recent activities being found in the Faculties of Education and Commerce.

Since the late 1980s the University has had a very successful policy of encouraging researchers to work collaboratively to facilitate greater efficiency in the use of resources.

To expand this process, and to take advantage of the substantial environmental expertise available, negotiations have been in progress for more than two years into the establishment of an overall umbrella organisation of staff with environmental research, consultancy and teaching interests.

The Environment Research Institute represents the successful culmination of these negotiations.

The Institute encompasses or has close working relationships with the follow-

ing established research groupings:

- Australian Flora and Fauna Research Program
- Bulk Handling of Materials Research Program
- Centre for Maritime Policy (being established in 1993)
- Centre for Natural Resource Law
- Energy Efficient Research Centre
- Environmental Chemistry Research Group (being established in 1993)
- Environmental Health Research Group (World Health Organisation Collaborating Centre)
- Quaternary Studies Research Program
- Tasmanides and Fossil Fuels Research Group
- Technical Change and Environmental Strategies Research Group
- Water and Geomechanics Research Program
- Staff members in Economics, Mathematics, Philosophy, Physics and Sociology.

The Institute has been established to encourage maximum coherence and collaboration in the environmental research, consultancy and teaching at the University of Wollongong and to present a clear and unified picture of this activity to the outside world.

The initial membership of the Institute is about 70 staff, with members coming from 18 University departments.

The Institute is particularly well positioned to contribute to the research and policy challenges raised by the rapidly growing attention to the problems of environmentally sensitive development of the urban environment and its technological infrastructure, related questions of resource and energy management, impacts of change (including climate change) on the coastal zone, and the optimisation of human health and welfare.

The activities of the Institute will be

directed by a Management Board which has representatives from the major contributing research programs.

The current members of the Management Board are:

John Morrison, BHP Professor of Environmental Science (Director)

Robin Chowdhury, Associate Professor of Civil Engineering

Christine Ewan, Professor of Health Science

Jim Falk, Professor of Science and Technology Studies

David Farrier, Professor of Law

Malcolm Harris, Associate Professor of Education

Ann Hodgkinson, Lecturer in Economics

Brian Jones, Associate Professor of Geology

Jim Langridge, Managing Director, Illawarra Technology Corporation

Phillip Laird, Senior Lecturer in Mathematics

Arnold McLean, Associate Professor of Mechanical Engineering

Rob Whelan, Professor of Biological Sciences.

The Institute has already initiated several activities looking at issues of local, national and international importance.

These include assessment of the impacts of the new National Drinking Water Guidelines, assessment of the quality of government public information materials on climate change, rehabilitation of mined-out areas on Nauru, petroleum survey in Vietnam, community consultancy on preferences for effluent treatment in the St Georges Basin/Jervis Bay area, audit of environmental health in NSW, cadmium in Guangdong Province China, waste management in the Pacific Islands, management of NSW coastal lakes, and patterns of insect biodiversity in Eastern Australian forests.

Further information on the activities and services of the Environment Institute can be obtained from Professor John Morrison.

RESEARCH AWARDS/CONTRACTS

TCES to quiz community on water quality in the Illawarra

The Technical Change and Environmental Strategies Group (TCES) has recently been awarded a contract worth \$60,000 to carry out a community consultation on behalf of the Water Board (Illawarra).

This means that TCES will be simultaneously carrying out three studies (for the Water Board, the Commonwealth Department of the Environment, and the Public Works Department) over the remainder of this year.

Director of TCES, Professor Jim Falk, noted that the total work, amounting to some \$130,000 in contracts, marks a new level of attainment and challenge for TCES.

The Water Board project will be directed by Deputy Director of TCES Dr Greg Hampton.

It involves an extensive series of focus group consultations throughout the region and a week-long telephone survey.

The Water Board wants to find out the thoughts of local people regarding water quality in the region and to hear their views on what action, if any, the Water Board should take with regard to water quality in the future.

The project will run until the end of the year.

It is being conducted concurrently with work that TCES is carrying out for the Federal Department of Environment, Sports and Territories which involves building up a data base on greenhouse educational material released since 1988, and a survey on behalf of the Public Works (NSW) regarding public preferences for effluent treatment in the St Georges Basin/Jervis Bay area.

TCES has an on-going interest in the inter-relationship

between security and environmental issues.

Professor Falk has just returned from a week-long speaking tour of New Zealand at the invitation of the New Zealand Government's Peace Trust and International Physicians for the Prevention of Nuclear War (IPPNW).

During an intensive week of activity Professor Falk spoke at conferences and meetings in Auckland, Wellington and Christchurch and at several Universities.

He was interviewed on national radio and television about regional security issues and the issues related to nuclear technology which were the main subjects of his tour.

Lake Iluka Project on Lake Ecology

Dr Barry Harper (Education) and Professor Rob Whelan (Biological Sciences) are about to start a project in environmental education funded by a CAUT Grant.

This will be a modification of the Lake Iluka project on Lake Ecology that Dr Harper has just completed.

The modifications will build into the interactive computer package a range of functions designed to teach skills in environmental evaluation, ecological surveys, survey design, statistical analysis and data presentation and interpretation.

National Teaching Development Grant for 1994

Dr Sharon Beder was successful in securing a grant for \$49,700 to develop a flexible computer-based learning package designed to teach students about the social and political dimensions of environmental issues.

New subject offerings

In 1994, the Department of Biological Sciences will offer a new second year subject - **BIOL251: Principles of Ecology and Evolution**.

This subject will lead into the third year subjects on Conservation Biology and Terrestrial and Marine Ecology.

It will also become a central subject (replacing BIOL240: Organisms and their Life Cycles) in the Environmental Science degree.

The Bachelor of Mathematical Sciences has been proposed for introduction as a four-year degree in 1995.

It is a mathematics degree which emphasises the relationship between mathematics and science, and is designed to produce a rounded and informed graduate.

Mathematics and Science graduates are employed in a wide variety of occupations.

For many of these occupations, both a mathematical and scientific knowledge is relevant to performing well.

The production of graduates with this

background hitherto has not been explicitly recognised at Wollongong, and the present proposal addresses this situation.

There are four proposed strands, each leading to the award of the degree.

Three of the strands, Geoscience/Mathematics, Mathematics/Ecology, and Statistics/Ecology, are meant to enrich the University's offerings in environmental science by providing expertise in mathematical modelling of the environment.

This proposal is in line with the establishment of the Environment Research Institute and was prepared with the advice of BHP Professor of Environmental Science, Professor John Morrison; Dean, Faculty of Science, Professor Murray Wilson; Professor of Biological Sciences, Professor Rob Whelan; and Professor of Science and Technology Studies, Professor Jim Falk.

The fourth strand, Mathematics-Statistics/Science provides a very solid background in mathematics and/or statistics — as available in the Bachelor of Mathematics — plus study in an area of

science.

A key feature of the new degree is that all students study a Science and Technology Studies subject.

Environmental Economics (ECON309 and ECON 938).

The Economics Department has added a specialist subject in environmental economics which is available at both undergraduate and postgraduate level.

It covers both mainstream environmental economics and ecologically sustainable development approaches, measurement of externality costs, and a wide variety of applications.

The course ran for the first time in spring session 1993 with an enrolment of 42.

The course has been designed to allow access to students from a wide range of disciplines with only a first year knowledge of economics.

Students from outside the Commerce faculty are encouraged to enrol.

More information is available from the lecturer, Ann Hodgkinson, ext. 4026.

CONFERENCES/STUDY LEAVE

Dr David Griffith: Measurement of Emission and Uptake of Greenhouse Gases (N₂O, CH₄) by Soils

Dr David Griffith returned from study leave in September after spending time with the Max Planck Institute (MPI), Mainz Germany; the Swedish Environmental Research Institute (IVL), Gothenberg, Sweden; and in Hövde, Denmark at a multigroup meeting of the European Community's Environment Program.

Dr Griffith carried out further work in measurement of atmospheric composition by solar Fourier transform infrared (FTIR) spectroscopy. This work developed existing collaboration with MPI and the National Institute for Water and Air Research (NIWAR), New Zealand.

During his leave Dr Griffith also developed long-path FTIR spectroscopy for measurement of fluxes of atmospheric trace gases between soils and the atmosphere.

Through this work Dr Griffith tested the instrumentation before building a similar apparatus for use at the University of Wollongong. This is the subject of a major proposal to the Australian Research Council (ARC).

Dr Colin Woodroffe

Dr Woodroffe attended the IPCC Eastern Hemisphere workshop on sea level rise and coastal zone management, as a part of the Australian delegation, and as a member of the steering committee.

The workshop attracted a wide range of participants from eastern Asia and the Pacific. It was in Tsukuba, just outside of Tokyo, Japan.

One of the major outcomes of the meeting with which he was involved, was a report, being prepared for the World Coasts conference in the Netherlands in November.

There was a high level of concern to develop integrated coastal zone management from most of the countries in the region, and Australia is taking a leading role in modifying earlier rather rigid methodological approaches to coastal zone studies in the tropics.

John Morrison: Report on South Pacific Regional Environment Programme (SPREP) Meetings, Suva, Fiji, 15-22 September 1993

Three meetings were held successively:

1. Contracting Parties to Apia Convention (15 September)
2. Contracting Parties to SPREP Convention (16-17 September)
3. Sixth SPREP Meeting (20-22 September)

Apia Convention meeting

Only four (Australia, Fiji, France, West Samoa) of the contracting parties participated. Cook Islands did not attend.

The meeting reviewed activities since the last meeting and developed reporting procedures.

In addition strategies for encouraging more countries to become parties and to give greater support to conservation activities were discussed.

SPREP Convention meeting

This meeting was attended by eight countries (Australia,

Fiji, France, Marshall Islands, New Zealand, Solomon Islands, USA, Western Samoa). Much of the discussion was on consolidating administrative and financial issues relating to the operation of Convention meetings and activities.

Again full participation by all SPREP member countries was encouraged and several initiatives were developed.

The meeting also discussed improved reporting procedures on activities and initiatives of the contracting parties.

Sixth SPREP Meeting

This meeting was attended by 59 participants from 21 countries together with 30 observers from national, regional and international organisations.

The University of Wollongong was the only Australian University represented (others were USP, University of Auckland).

The agenda was extremely long covering a wide range of administrative issues, together with review of the 1992-3 work program and determination of the 1994-5 work program.

Items in the 1994-5 work program that would be of interest to University of Wollongong staff are climate change, waste reduction and management, coastal management, environmental education and environmental legislation.

Additional items to note include:

- Development of SPREP Treaty (July 1993);
- Preparations for Meeting on Sustainable Development of Small Islands States, Barbados 1994;
- Draft Convention on Transboundary Transport of Hazardous Wastes.

The current Director of SPREP, Dr Vili Fuavao was re-appointed for a further three years. (Dr Fuavao has been approached to be an Honorary Fellow of the Environment Research Institute (ERI) along with the SPREP Climate Change/Coastal Management Office, Dr Chalapan Kaluwin).

Arrangements have also been made for establishment of a Memorandum of Understanding between SPREP and the University of Wollongong for cooperation on environmental issues in the South Pacific Region.

Professor John Morrison & Dr Siva Sivakumar: Stormwater Forum, Sydney on September 29 1993

The initial invitation indicated that the objective of the Forum was to review the problem(s) and assist in decision-making with regard to possible activities to find solutions and subsequently in determining priorities for funding.

At the beginning of the Forum the objectives were stated as:

1. To gain increased understanding of the problem and issues.
2. To better understand the roles of organisations and individuals.
3. To facilitate a renewed determination to do something about the problem.

The speakers were: NSW Minister for Planning and Housing, Hon. R.J. Webster; Manager, Master Planning, Sydney Water Board, Dr David Robinson; President, Local Government Association, Mr Peter Woods; Manager, Beachwatch, Mr Joe Donnelly; Mr Gary Sturgess (Sturgess Australia); Director, Dept of CALM, Mr Warwick Watkins; Ms Sue Salmon (ACF); Mr Micheal Neall (Blue Mountains Total

Continued page four

From page three

Catchment Management Comm.); Assistant Director, NSW Dept of Planning, Mr Neville Apitz; Director Gen., NSW Dept of Water Resources, Mr Peter Millington; President Aust. Inst. Environmental Health, Mr Murray McCafferty; Executive Dir. (Operations), NSW EPA, Dr Warwick Forrest; NSW Minister for the Environment, Hon. C. Hartcher; (Acting Executive Director, NSW EPA, Ms Lisa Corbin, participated in one panel discussion).

The forum did facilitate an airing of the issues and the current problems.

However, the discussion on solutions was not clearly focussed and no attempt was made to determine funding priorities for future activities. In effect, the forum turned into a good exercise in data gathering and community consultation on behalf of the recently established EPA Stormwater Task Force. This was the first forum of this kind and it appears that such meetings may become an annual event. There was a clear indication that there will be another forum within the next 12 months.

The overall conclusion of the Chairman of the forum (Sir Laurence Street) was that "the solution to the stormwater

pollution problem is a caring, well-informed and educated community that is well led".

It was obvious that there has been a distinct lack of cooperation between agencies working on the management of stormwater. Some are legislative in origin but the cause of others is less clear.

Full community consultation is required and certainly has not occurred in the past although a number of positive comments were presented at the forum.

In any new activities, clear lines of accountability are required. There is still much to be done on the administrative aspects of this issue since the forum clearly showed the difficulties arising from the different perceptions held by local and state government.

Interactions between state agencies need to be improved and a combination of political, technical and social actions is required to adequately address the overall problem.

A compilation of the papers presented is not yet available, but these, together with a summary of the discussion, will be posted to all participants.

Notification of the arrival of these documents will be circulated.

Environmentally-related research projects at the University of Wollongong

In the first two issues of *Resources* research projects associated with the Bachelor of Environmental Science and the Honours Masters of Environmental Science were covered.

In this, and future issues of *Resources*, information about other environmentally related research student projects in various departments and faculties at the University of Wollongong will be given.

As can be seen by the examples below, the areas of environmental interest at the University are broad-ranging and have a direct link to current environmental concerns in industry and society, particularly in the Illawarra region. ERI intends to further promote this emphasis.

FACULTY OF ARTS

Department of Philosophy

- Bud Nasteviski, PhD: *Do We Need a Distinctive Environmental Ethic?* (provisional title). Bud is investigating the question whether traditional ethical theories are adequate to accommodate the relatively new and escalating concerns about environmental issues. He will also examine the proposals of those who think that we need to rethink traditional theoretical ethics in order adequately to accommodate these concerns. Supervisor: Dr John Burgess

FACULTY OF COMMERCE

Department of Economics

- Jenni Davidson, Honours: *The development of the economic growth debate and its application to modern environmental thought*. Supervisors: Ms Ann Hodgkinson, Associate Professor Rob Castle

- Paul Budgen, Honours: *Ecologically sustainable development in a political and*

applied economic development framework. Supervisors: Ms Ann Hodgkinson, Professor Ted Wolfers, Associate Professor Rob Castle

FACULTY OF HEALTH AND BEHAVIOURAL SCIENCE

Department of Public Health and Nutrition

- Deanne Condon-Paoloni, PhD: *The Social Construction and Management of Risk*, in relation to pollution in Port Kembla. Supervisors: Professor Christine Ewan, Dr Lindsey Harrison

FACULTY OF INFORMATICS

Department of Mathematics

- Maureen Edwards, PhD: *Exact Solutions of Nonlinear Diffusion Equations*, with applications to soil-water flow. Supervisor: Professor Phillip Broadbridge

- Janine Stewart, Honours: *Exact Analysis of Evaporation from an Initially Saturated Soil*. This study will contribute to improving the modelling of water behaviour in soils. Supervisor: Professor Philip Broadbridge

FACULTY OF SCIENCE

Department of Chemistry

- Michael Esler, PhD: *Precision Measurement of Atmospheric CO*. This project entails the development of FTIR spectroscopy for high precision measurements of atmospheric trace gas composition in clean air. Such information aids the understanding of phenomenon such as global warming. This project funded by the University, CSIRO Division of Atmospheric Research and the Bureau of Meteorology through the Cape Grim Baseline Air Pollution Station in Tasmania. Supervisors: Dr David

Griffith, Dr Stephen Wilson, Dr P. Steele (CSIRO).

- Kerrie Nichols, Honours: *Emissions of nitrous oxide from biomass burning*. As nitrous oxide is an important greenhouse gas, better knowledge of its sources is important information. This project is based on lab measurements from the Department of Chemistry's instrumented combustion laboratory. Supervisor: Dr David Griffith, Dr Stephen Wilson

Australian Flora and Fauna Research Program

Department of Biological Sciences

- Mick Gregory, PhD: Impact of urban development on the aquatic ecology of streams. Mick will be examining streams in and around the Stage 1 release area in West Dapto. This project is funded by an APRA(I) award in collaboration with Wollongong City Council. Supervisors: Dr David Ayre, Dr Andy Davis, Dr Iradj Yassini (WCC)

- Nick de Jong, PhD: The dynamics of wetland ecosystems in the Shoalhaven region. Nick will be examining the range of plant species occurring in a set of wetlands and temporal variation in these species. He plans to examine the implications of his findings for the design of constructed wetlands in the Illawarra. Supervisor: Professor Rob Whelan.

- Justine Cox, PhD: The potential of steelworks waste products to support plant growth and to develop into fertile soil-substitutes. This project is funded by an APRA (I) award. Justine is working in collaboration with BHP at Port Kembla. Supervisor: Professor Rob Whelan.



Darryl Gibson is seen here receiving his scholarship from Professor Brian Gillett (left). With him is Margaret Valladian from the Aboriginal Education Centre and Peter Rose from the Cooperative Education Program. Brendon Fitzgerald was absent on this day.

Susan Owen Scholarship winners

The Susan Owen Memorial Scholarship has two recipients this year, Brendon Fitzgerald and Darryl Gibson.

Brendon, from Wollongong's northern suburbs, gained entry to the University this year as a mature age student via the Gateway program.

He is undertaking a Bachelor of Arts majoring in Industrial Relations and Politics. Brendon is aspiring to a career in the Human Resource field.

Darryl Gibson is also a mature age student from Mossman in Northern Queensland.

Darryl came to the University of Wollongong via the Alternative Admissions Program late last year and is enrolled in a broad-based Bachelor of Arts program.

Darryl hopes to specialise in Aboriginal Education after graduation and then plans to return to his home state where he is keen to undertake a career in teaching, with the view to studying law in the future.

The Susan Owen Scholarship is valued at \$250 per annum and was initiated by Dr Peter Rousch in memory of his secretary for many years, Susan Owen.

RAAF band returns to town

The RAAF Air Command Band, under the direction of Flight Lieutenant David Worrall, will perform at the Hope Theatre, at 4pm on Sunday 21 November.

The band has a wide variety of musical duties including Royal visits, Vice-regal functions, public concerts, school recitals and parades.

Their repertoire includes classical, jazz, rock and pop music.

The Air Command Band's component groups are the concert band,

Swing Wing (a full stage band), Touch and Go (a 7-piece Combo), Jet Stream (a brass quintet), Windshear (a woodwind quintet), a fanfare team and even a piper.

Sharing the program with the RAAF at this exciting concert are the Wollongong Conservatorium Youth Choir, Corrimall East Public School Choir and vocal soloists Elsin Meyer and Janet Morris, accompanied by David Vance.

Come and hear Rossini's famous

'Comic Duet for Two Cats', a choral tribute to George Gershwin and a rousing Tommy Tycho arrangement of 'Waltzing Matilda' performed by both choirs with the RAAF Band.

Tickets are \$10 (adults), \$6 (concession and children up to 16 years) and \$20 (family of four – two adults, two children)

Bookings can be made by ringing the Conservatorium, Glennifer Brae, (042) 281122. Tickets will be available at the door.

Hope Theatre

21 November: 4pm **Concert with the RAAF Air Command Band** and the Conservatorium Youth Choir. Bookings at the Conservatorium Office 21 3533.

General

18 November: **Faculty of Law Plain Legal Language seminar:** US plain legal English expert, Associate Professor Joseph Kimble, will give a seminar on 'Language Preferences of Judges and Lawyers in the United States.' Associate Professor Kimble teaches legal research, writing and drafting at the Thomas M Cooley Law School in Lansing, Michigan. He is internationally recognised for his work in the plain legal language movement. He is editor of the Plain Language column in the Michigan Bar Journal, a member and Vice-Chair of the State Bar Plain English committee, and writing consultant to the Committee on Pattern Criminal Jury Instructions, Sixth Circuit District Judges Association. Professor Kimble is in Australia as the guest of the NSW Law Foundation Centre for Plain Legal Language, and is giving seminars on plain legal language across Australia and New Zealand. 12.30pm in Building 40, Room 126.

23 November: 7.30pm. **Meeting of**

What's On

the Women's Issues Group, Union Building Function Centre. Speaker Sharon Makin, Senior Engineer, Waste Management Environment Division of BHP. All welcome. Cost \$2.50. Non members \$3.50 Enquiries Moira Bowman 84 3741

2 December: 6.30pm **Department of Management dinner** for graduating students and staff. Fraternity Club, Fairy Meadow \$18. Enquiries 21 3707 or 21 3749

3 December: **Applications for General Staff Development Leave** close. Enquiries Ann Kiceluk, Personnel Office, ext 4284

3 December: Department of Accountancy presents the **Annual Val- edictory Dinner** to be held at Portofino International, 26 Atchison Street Wollongong from 7.30pm. Cost: \$35 includes 3 course meal, beer, wine and soft drink. Dress formal. Limited tickets available from Anne Mitchell, Room 40. 333, phone 213609. Enquiries: Mary A Kaidonis, phone: 213681.

4 December: **Illawarra Committee for Overseas Students** final event for year, Australia's Wonder-

land. Tickets and details are available from ICOS office, 3rd Floor, Union Retail Centre on Tuesday, Wednesday and Friday from 9.30am to 2pm or phone 21 3158.

Animal Experimentation Ethics Committee meeting dates, with agenda deadlines in brackets, are: 22 November (12 November).

Human Experimentation Ethics Committee meeting dates with agenda deadlines in brackets are: 21 December (7 December).

Considering further study or just some recreational reading? Visit the **Campus Alumni bookshop** and gallery book sale at Campus East, Fairy Meadow. The stock of used books covers: Science & Engineering, Social Sciences, Arts & Music, Education, Fiction & Non-Fiction, Young Readers' Stories & Classics. Open every fourth Saturday and Sunday of the month from 1-5pm, the bookshop is located at Cowper Street, Fairy Meadow (opposite the Science Centre). Your donations of any material are invited. These may be left any weekend afternoon at the Science Centre (Please mark 'Booksale'), or The Library or Students Enquiry Desk during the week.

Stop Press

INTERACTIVE MULTIMEDIA WORKSHOP

JANUARY 31 - FEBRUARY 11 1994, MONDAY TO FRIDAY 9AM - 6PM

COST: \$2,500

WHERE: UNIVERSITY OF WOLLONGONG,
FACULTY OF EDUCATION,
MULTI MEDIA LABORATORY, FLOOR 1

ENQUIRES: MARGARET CAMERON
FACULTY OF EDUCATION
UNIVERSITY OF WOLLONGONG
NORTHFIELDS AVENUE
WOLLONGONG NSW 2522
FAX 042 213 892 OR PHONE 042 213 971

The workshop is intended for Macintosh literate communicators who want to learn to design and create interactive multimedia projects for education and training. Participants will build on interactive design examples using a variety of media. Drawing on the individual skills of the participants, they will storyboard, script, shoot, video edit and program the project using Hypercard, MacroMind Director and other interactive software. Working under the guidance of experienced interactive multimedia producers, a hands-on team approach will be used to experience a project from concept to completed CD-ROM.

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