



BULLETIN

17/91

Reg. NBH3127

ISSN10033-3894

October 21, 1991

Benefit fund to aid students with a disability

There has been a great reaction to the news that Daryl Braithwaite is coming to town in aid of the University's students who have a disability.

Braithwaite is to perform live on stage at the Civic Theatre in early December and is giving \$2 from every ticket sold to the University's Committee For Students With A Disability.

The Civic Theatre has reported a rush on sales of tickets for the two concerts which will be held on Wednesday and Thursday, December 11 and 12. The performances are expected to be 'sell-outs' for one of Australia's veteran rock entertainers with tickets selling at \$26.90 for students and \$29.90 full price.

Patron of the Committee, Professor Keith Morgan, when announcing the concerts at a special media conference, said the initiative would result in the University building a stronger network of facilities to support students who have a disability.

Proceeds from the concerts will go towards establishing a benefit fund which will be administered by the committee.

"It's an event that I'm sure will win the support of the community in addition to our students," he said.

"More than 300 students - about 2% of the University's student body - has some sort of disability, including physical and intellectual disabilities.

"Money from the concerts will be used to provide individual students with equipment to help them in their University life, such as motorised wheelchairs for the physically disabled, braille computers for the blind or sign language translators for hearing-impaired students."

The promoter, Peter Anderson of Rock City Promotions, said the two concerts could net the committee up to \$6000 for equipment if all tickets are sold.

The Students' Representative Council has given full backing to the concerts and is asking

students to set aside one of the nights in early December.

Tickets are on sale at the Civic Theatre - but don't leave it too long, tickets for both nights are selling quickly.



Pictured at the media launch of the special concerts are (l to r) Chairperson of the Committee For Student With A Disability, Ms Marj Kibby, Ms Cathy Mahony, the Vice-Chancellor, Professor Keith Morgan, and Mr Peter Anderson of Rock City Promotions

Talented Student Wins Architecture Scholarship

The design of an imaginary Newcastle and Lake Macquarie Art Gallery at Charlestown has resulted in a third year architecture student being named joint winner of an inaugural scholarship offered by the NSW Chapter of the Royal Australian Institute of Architects.

Simon Dick was one of four architecture students from the University to enter the \$5000 James Hardie Scholarship which was established to encourage innovation among architecture students mid-way through the third year of their course, the idea being to stimulate the integration of design theory with research into construction systems and details of structure, materials and finishes.

The scholarship attracted 19 entries from architecture

students at the University of Technology, Sydney, the University of Sydney, the University of New South Wales in addition to Newcastle.

Simon, who shared the prize with Russell Rodrigo from the University of Sydney, said he was delighted at being named co-winner. Other local projects were entered by Andrew Lamond, Andrew Pell and Chris Doolan.

"The Faculty encouraged us to enter the scholarship, especially as drawings and models which we were producing earlier this year would be used for the judging," said Simon.

"To be eligible for the scholarship we had to submit drawings and models and also production drawings. My



Simon Dick - co-winner of the inaugural James Hardie Scholarship for Architecture

project was an imaginary Newcastle and Lake Macquarie Art Gallery to be built on the corner of Charlestown and Dudley Roads at Charlestown."

Simon comes from Victoria but elected to undertake the Bachelor of Science (Architecture) course at Newcastle after considering similar courses at universities in a number of States. He hopes to work in Sydney next year when he finishes his degree studies.

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\$4m repairs to Hunter Building

The Hunter Building is to have approximately \$4 million worth of earthquake repairs and improvements.

The rebuilding, expected to commence at the end of this semester, will be progressively done in this year's long vacation, next year and next year's long vacation.

Because the work includes some major repair jobs, there will be disruption of some Departments, and some work practices will have to be temporarily changed, according to the Director of Building Services, Mr Trevor Mowbray.

At a meeting called by the Buildings and Grounds Unit, Mr Mowbray spoke about the rebuilding project to representatives of Departments in the Hunter Building.

The McMullin Building had about \$3 million worth of earthquake damage, Mr

Mowbray said, and in the last year had been rejuvenated.

The Hunter Building was five times larger than any other building on the University's site. When the building was constructed in 1974, the builders, the Department of Public Works, did not have to comply with all local government building codes and some codes which the former University had to conform to.

"Under the terms of the present Act, we must now carry out more work - and also comply with regulations imposed by Newcastle City Council as a result of the earthquake.

"Therefore, we will make structural improvements to the building at the same time as we repair the earthquake damage."

A lot of damage was done to the eastern end of the Hunter

Building in the 'quake, Mr Mowbray said, 16 columns now showing cracks.

To achieve target strengths in the new walls, an estimated 150 metres of good brick walls would have to be knocked down and replaced with new reinforced block walls, and additional walls would have to be erected to support roof beams during the period of rebuilding.

The "first cab off the rank" was the Huxley Library. Two external walls and an interior wall of the library had to be demolished and replaced with new walls.

Repairs to the library and the Main Concourse would hopefully be completed in the 1991-1992 vacation.

The western wall of the Bowman Building had to receive similar treatment as the walls of the library.

It would be necessary to carry out extensive excavations in the Basement using bobcats. Fortunately, Mr Mowbray said, only lesser repairs had to be done in the Computer Unit, but the Industrial Arts area had to have a lot of work done on it and, to minimise disruption, this would be achieved during "a downturn period".

Mr Mowbray said experienced removalists would be hired by the University to handle the packing up of equipment and the relocation of Departments to temporary premises.

The Building and Grounds Unit has arranged for every one of the Departments in the Hunter Building to select a staff member to be a contact person so that updates on the rebuilding programme can be progressively passed on to his or her colleagues.

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New Courses in Health Services Management

The University of Newcastle has just announced two new courses in the field of health services management which are aimed at preparing health professionals for responsible leadership and management roles.

The Graduate Diploma of Health Services Management and the Master of Health Services Management will also aim to develop analytical and innovative approaches in the use of scarce health resources at local, state and national level.

Course Director, Catherine Wong, said the Graduate Diploma would be offered over two years part-time study while the Master degree would take three years of part-time study. Both courses will have their first intake in 1992.

Catherine said the increasing complexity of the health care industry has resulted in an increased demand for appropriately qualified managers and that many senior health managers were now expected to hold a qualification at the Graduate or Master level.

"The need for these higher qualifications is strongly supported by the Australian College of Health Service Executives, the Royal Australian College of Medical Administrators, and the Royal Australian College of Nursing Administrators," she said.

"Managers from the Hunter Region have had to rely on courses offered by universities outside this region and have had to rely on leaving the area to undertake further study, or rely on distance education.

"Regional health personnel also have been disadvantaged due to limited health service management research which might contribute to improvements in management practice.

"The changes in the health care industry, including the increases in technology and the changing expectations of the public, have underlined the need for managers to develop and manage quality services that are cost effective, accessible and equitable.

"To deal effectively with these

changes it is necessary for managers to develop competence in epidemiology, health service management, health economics and finance, social sciences, health service planning, employment relations, health service law, statistics and research methodology. The two courses will develop competencies in these areas at the respective academic levels," Catherine said.

The courses, which are a joint venture between the Faculty of Health Sciences, the Faculty of Economics and Commerce and the Centre for Clinical Epidemiology and Biostatistics in the Faculty of Medicine, are expected to attract strong interest from regional health managers.

Catherine said the Master program was specifically designed for enhancement of skills of senior managers in the areas of organisational analysis, management of change, quality improvement and health services evaluation.

Applicants for either qualification should hold a Bachelor

degree or other qualification acceptable to the University's Board of Studies and have a minimum of two years health services work experience.

"In special circumstances, entry to the Graduate Diploma may be approved for competent practitioners who do not have the necessary formal qualifications but who have substantial professional experience and can demonstrate the academic ability to successfully complete the course. These applicants will be required to obtain a satisfactory result in an objective test," Catherine said.

Applications should be lodged with the University by Friday, November 1 for the Graduate Diploma and by Friday, November 29 for the Master degree.

People requiring further information or application forms should contact Catherine on (049) 216714 or Jenny Hughes in the Faculty of Health Sciences on (049) 216527.

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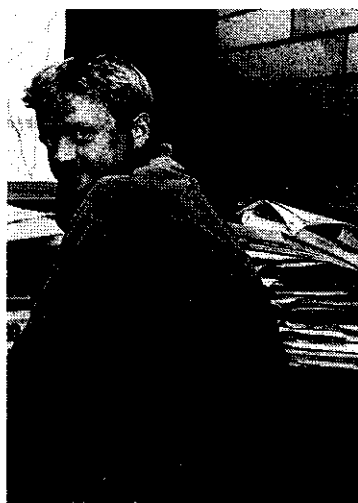
Collaboration for Specialised Software

The Department of Chemistry is currently being visited by a representative of an specialised instrumentation company in England as a result of academic research being carried out in the Department.

Dr Peter King, from Applied Photophysics, is paying the University a five-week return visit as a result of a trip by Dr Marcel Maeder earlier in the year.

Dr Maeder's visit was sponsored by the company, to finalise purchase and delivery arrangements of a stopped-flow spectrofluorimeter and also to negotiate the implementation and commercial use of software developed here at the University with this equipment.

Dr King said the company was



Dr Peter King

the commercial offshoot of the Royal Institution of London

which was established by the Nobel Prize winner, Sir George Porter, in 1981 and produces kinetic instruments for chemistry and bio-chemical research as well as designing and writing software for data acquisition and analysis.

"My visit is a spin-off from Marcel's visit earlier this year. His research is of great interest to my company as the instrumentation area is moving along so fast in terms of development and in terms of more sophisticated data acquisition methods," Dr King said.

"More sophisticated data processing techniques are needed to keep up with the advances in the hardware capability of these systems," he said.

Dr King, who is primarily a chemist, moved into instrumentation development three years ago.

He said that his company saw an application for Dr Maeder's data reduction techniques and invited him to discuss possible collaboration.

"The purpose is to evaluate and understand reaction mechanisms and intermediate species as well as collect time dependent optical spectra. All that information provides a characterisation of the chemical reaction taking place.

"Marcel's techniques allow a more effective and accurate determination of the important reaction parameters," he said.

Visitors from Thailand Discuss Exchange Proposal

The University's Special Education Centre played host to two visitors from Thailand recently and discussed a dynamic proposal which could have important implications for academic staff.

The visitors, Dr Niched Suntornpithug, Director General of Teacher Training in Thailand and Dr Tanom Intarakumnerd, Director of Planning in the Department of Teacher Education, enjoyed their visit to the University of Newcastle and entered into the discussions enthusiastically.

The purpose of the visit was to discuss the possibility of lecturers in Thai teachers colleges enrolling in the Master of Special Education course at this University as preparation for their teaching of special education courses in Thai teachers colleges. Whilst at the University, Dr Niched and Dr Tanom met with senior academic staff and attended a dinner hosted by the Vice Chancellor.

The visit follows four years of discussions between the University and the Department of Teacher Education in Thailand. These discussions commenced during a visit in 1988 by special education teacher, Dr Bob Conway, to Suandusit Teachers College, the main special education teachers college in Thailand.



Pictured during the visit are (l to r) Dr Jack Caldwell, Dr Tanom Intarakumnerd, Dr Lorna Chan, Dr Niched Suntornpithug and Dr Bob Conway

Strong support from Dr Les Eastcott, then Acting Principal of HIHE, and initial discussions with the Rector of that College, Prof. Lampong Bouchay, and a member of the special education staff, Dr Benja Chonlatanon, were followed by a meeting with the then Directors General, Dr Siut and Dr Tanom.

Subsequent visits in 1990 and 1991 led to a joint proposal being prepared by Dr Conway and Dr Chonlatanon in June 1991. The proposal formed the basis for discussions

during this visit.

During their visit, Dr Niched and Dr Tanom also visited the Hunter Regional Office of School Education and held meetings with Mr Alan Beard and Mr Ian Shepherd, and visited the University of Technology, Sydney and Macquarie University as well as schools in Sydney. Meetings with the NSW Department of School Education staff in Sydney as well as the executive of the Australian Association of Special Education were also held during the

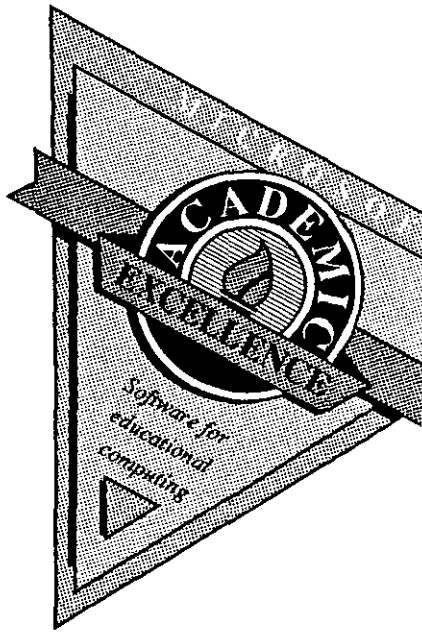
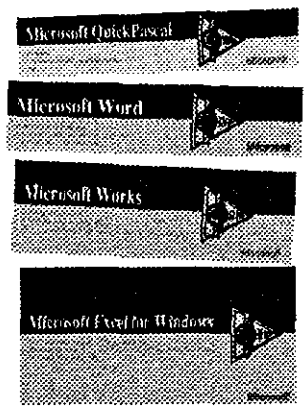
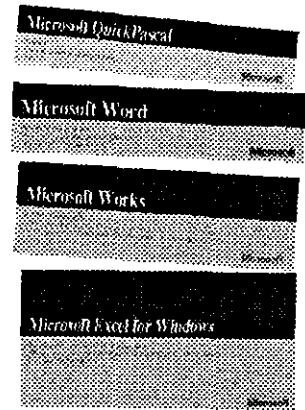
visit.

Dr Conway said that teacher training in Thailand was the responsibility of the Department of Teacher Training within the Ministry of Education.

He said the agreement was reaching fruition and was hopeful that the first students from Thailand would be enrolling at this University soon. "It's a very exciting proposal and could provide the basis of a valuable interchange of resources and ideas," Dr Conway said.

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Senators Study Open Foundation

Members of the Senate Standing Committee on Education, Employment and Training visited the University late in September to look at the Open Foundation Course offered by the Department of Community Programmes.

Senators Nick Sherry, John Tierney and Olive Zakharov are members of the "Aulich Committee" inquiring into the provision of adult education. The committee's chairman, Senator Terry Aulich, was prevented by other duties from making this visit.

After inspecting facilities at Cessnock Corrective Centre, Kurri Learning Store, WEA

and educational facilities for psychiatric patients, they finished their day in the Hunter by meeting Mr John Collins, Director of Community Programmes, and Professor Frank Clarke.

They also had the opportunity to meet a number of students who had begun their tertiary education through the Open Foundation Course, including one whose doctoral program is now nearing completion.

Mr Collins said the Senators were understandably not in a position to comment on what they had learned, but he was encouraged by the fact that they asked questions and



Pictured during their visit to the University are (l to r) Senators Olive Zakharov, Nick Sherry and John Tierney with the Director of Community Programmes, Mr John Collins.

extended their stay beyond the time allotted in their schedule.

After the meeting, the Senators were the Vice-Chancellor's guests at dinner.

Visiting Academic praises Uni site

After experiencing the University's tree-studded site during two months in the Department of Physics, Dr Roger Smith, of the Loughborough University of Technology, said he associated the University with the University of Santa Cruz, in California.

"I've marvelled at your tall eucalypts, which are just as impressive as the redwoods at Santa Cruz," Dr Smith said. "Both campuses are very attractive and very conducive to study."

Dr Smith teaches physics in the Department of Mathematical Sciences in the School of Pure and Applied Science at

Loughborough - a young university (for the UK) in the East Midlands - which was founded in 1966 and now has students numbers of approximately 6000.

At this University, he collaborated with Dr John O'Connor and Dr Ellak von Nagy Felsobouki for two months on research into computer modelling of physical processes in surface structure science.

The research group plans to write a scientific paper on molecular dynamic simulations of grazing incidence ion scattering.



Dr Roger Smith (left) and Dr John O'Connor - research into computer modelling of physical processes in surface structure science

Canadian Visitor Explores Religion and Law



Taking a break on campus are Professor Edward Brunet, Professor Frank Bates and Professor Stephen Waddams

The University has received a visit from one of the world's leading authorities on the assessment of legal damages, Professor Stephen Waddams.

Professor Waddams, a Fellow of the Royal Society of Canada, is the Malleons Stephen Jaques Visiting Professor of Law at the ANU. He visited the Universities of Sydney, NSW and Wollongong as well as

coming to Newcastle to meet Professor Frank Bates.

At his "home" university, Toronto, Professor Waddams lectures in contract, legal remedies and law and religion.

He said this last field was of considerable importance in Canada, and he could see many similar issues developing in Australia.

"The Canadian Charter of Rights contains six references to religion: for example, it guarantees freedom of religion. This has an impact on questions such as Sunday closing, the financing of Catholic education, custody and access cases."

However, he said the major developing area of complexity concerned the rights of native Canadians, both Eskimo and so-called "Indians", such as the Mohawk people.

Like the Aborigines of Australia or Maoris of New Zealand, native Canadians held religious beliefs inextricably linked to the land, Professor Waddams said.

Looking at the legal structures which try to accommodate religion, property and the State had led him to particular study of a 19th century English judge, Stephen Lushington.

Lushington was Lady Byron's adviser during her divorce, and Queen Caroline's defender in the House of Lords when she was accused of adultery.

From this sensational career at the Bar, he became a judge in the ecclesiastical courts and in Admiralty, where he laid down many of the principles of assessing damages employed today.

Professor Waddams's book on Lushington is to be published this year by Cambridge University Press.

Opportunities from the Department of Community Programmes

One-day seminar Long Term Waste Planning and Management

(jointly presented by the Board of Environmental Studies and The Department of Community Programmes)

Friday, October 25 (8.30 am to 4.30 pm)

Venue - Lecture Theatre EF02, Engineering Complex

\$125 per person (\$65 for students) - includes a bound copy of the proceedings which will be made available on the day as well as lunch.

Telephone enquiries - 21 5551 or 21 6019

Workshops on Assessment Techniques

by Ken Miller and Barbara Tyler (leading U.K. Psychologists visiting Newcastle)

Thursday, November 7.

Venue: For both workshops - W202, Education Department. Behavioural Sciences Building.

Systematic Selection Procedures - The Effective Use of Tests (8 am to 12.30 pm)

Assessment Centres: Uses, Benefits and Costs (2 pm to 6.30 pm)

Telephone enquiries - 21 5551

A half-day Seminar Franchising - Reality & Myths

Tuesday, November 12 (1.30 pm to 4 pm)

Venue - Mike Nelson Room, Upper Level, Shortland Union Building.

This seminar is supported by Franchise Counselling Centre. \$45, refreshments provided.

Telephone enquiries - 21 5558 or 21 5551 or Mr David O'Brien (043) 43 3095.

Key Factors for Success in Business

Presented by Professor Alan Williams.

Tuesday, November 19 (9 am to 5 pm)

Venue - Audio Visual Theatre, Auchmuty Library

\$105 per person, including lunch and refreshments.

Telephone enquiries - 21 5551 or 21 5558

One-day Seminar - Evaluating your Training Programmes

Tuesday, November 26 (9 am to 5 pm)

Venue - Audio Visual Theatre, Auchmuty Library.

Conducted by Dr Roy Killen

\$105 per person (includes lunch and refreshments)

Telephone enquiries - 21 6017 or 21 5558.

Terminal Access to the Newcastle University Student System

A timetable has been submitted for implementing a test environment for the proposed Newcastle University Student System (NUSS) by the end of October 1991. It is expected that this test environment will be run in parallel with the Interim Student Information System (ISIS) at least until the end of the year.

Although computer access to ISIS will be maintained until December 31, 1991, staff located in the Hunter and Bowman Buildings with PT200 terminals (terminals which previously accessed the PRIME and which are not PC based) will have difficulty connecting to the VAX and the Powerhouse software. It is therefore advisable that staff who will require access to NUSS purchase a VT220 compatible terminal (minimum requirement is a VT100) compatible terminal.

More information is available from University Computing Services if staff have any particular questions they wish to have resolved.

Call for Expressions of Interest

Grievance Advisers Council at its August meeting approved a revised and simplified Grievance Procedure for use throughout the University.

The University now needs new Grievance Advisers, to enable the Procedure to be used. We are looking for a reasonably small number of committed people, who are keen to do something constructive, on a voluntary basis, to help make the University a better place to work in.

We need people who can demonstrate

- * understanding of and commitment to the principles of EEO
- * good communication skills, especially listening skills
- * objectivity and commonsense

- * an ethical approach to interpersonal relationships
- * the ability to maintain confidentiality

Note - staff members who have acted as Grievance Advisers in the past are welcome to again express interest

- * there will be a selection process, carried out by an appropriately constituted committee
- * there will be a training workshop, which all Grievance Advisers will need to attend.

Expression of interest, by way of a short note saying why you are interested in being a Grievance Adviser, may be lodged with the EEO Unit at any time up to 31 October 1991. Any queries can be directed to me on extension 6552.

*Susan M Jones
EEO Co-ordinator
2 October 1991*

EXCHANGE ACCOMMODATION

MELBOURNE - NEWCASTLE

Single Lady wishes to exchange accommodation located in Melbourne for a 6 - 9 month period in 1992 (dates negotiable).

Offers a large, modern 3 bedroom, 2 bathroom and study house located in GLEN IRIS (conveniently located for travel to MONASH or MELBOURNE University. Suit single or family.

Prepared to exchange for nice house or unit in Newcastle or suburbs.

FOR FURTHER DETAILS PLEASE CONTACT:

KATHLEEN DACEY, ACCOMMODATION OFFICER EXT. 5595

Copyright Corner



Who owns the copyright in the essays, theses and examination answers of a student: the University or the student?

This is a question that is often asked. As with many other legal questions, the answer is subject to any agreement or arrangement that may exist. In the absence of anything to the contrary, the student will own the copyright in his or her own essays, theses and examination answers. Except in the case of theses and research papers this will have little practical or commercial significance.

Of more significance will be the question of ownership of copyright in lecture notes taken by a student during lectures and tutorials. Will this belong to the student or to the lecturer delivering the lecture or to the University? This question will be considered next.

Illustration Scholarship Winner Named

A postgraduate art student who believes that artists can be just as important as scientists in raising public interest in the environment and the importance of conservation has won this year's National Parks and Wildlife Illustration Scholarship.

Thirty six year-old Peter Marsack was named winner of the \$1000 scholarship at a special presentation held in the Great Hall foyer late last month. The Deputy Director (Field Management and Services) of the National Parks and Wildlife Service, Mr Alastair Howard, travelled from Sydney to make the announcement.

The scholarship has been made available for the past eight years through the generosity of the National Parks and Wildlife Service and Patrons. Candidates for the scholarship must be enrolled in the plant and wildlife illustration specialisation of the Graduate Diploma of Art course at the University, the course regularly attracting illustrators from throughout Australia.

Peter, who was named from three finalists, is a full-time student in the course and is currently working on a series of bird illustrations which he hopes will appeal to scientists and artists alike.

He said on receiving the scholarship that any amount of encouragement to bring art and science together was an important factor and thanked

the NPWS and Patrons for supplying the scholarship on an annual basis.

Peter studied at Exeter University (B.Sc with Honours in Zoology) and Reading University (M.Sc - Crop Protection Technology) before moving to Australia in 1980 to join the Western Australia Department of Agriculture. He later transferred to the Agriculture Protection Board to research the biology of dingoes in the eastern gold-fields of Western Australia as well as working on a range of pest species including parrots, starlings and feral pigs.

He resigned from his position late last year to enrol in the Newcastle course.

Mr Howard said that the quality of work was a credit to the candidates and that he hoped the NPWS would continue its association with the University for many years to come.

"It's a sad but true indictment that much of the flora and fauna recognised by us is because of the work of illustrators over the years," said Mr Howard.

"I think the National Parks and Wildlife Service and Patrons have created a real interest in plant and wildlife illustration and many of the works on display for the scholarship are instantly recognisable from my travels in the country.

"I am astounded by the



Mr Alastair Howard (left) and Ms Chris Sanders congratulate Peter on winning the 1991 Scholarship. Peter plans to put the funds toward the purchase of a microscope for assistance in his detailed illustrations

quality of work and it keeps up the high standard that has been set by candidates in previous years".

The other finalists were Kate Dempsey and Heather Vallance. Kate, who was raised near the sea in Sydney, last year completed a Bachelor of Science with a major study in Marine Biology and a Bachelor of Arts with a major study in Archaeology at James Cook University. Heather attended Sydney University where she gained a Bachelor of Science in Agriculture in 1985. Heather mixed part-time work with overseas travel before being appointed in 1989 as assistant manager of a beef cattle research station with the Department of Primary Industries and Fisheries in the Victoria River

district of the Northern Territory.

Kate and Heather also are enrolled as full-time students in the Graduate Diploma, the course being designed to enable students to achieve a level of artistic competence far above that expected in undergraduate courses. The plant and wildlife illustration specialisation is specialist in nature and encourages the development of personal identity through an individual study program.

The National Parks and Wildlife Service and Patrons have supported the scholarship since its inception in 1984 and Peter's works will be exhibited by the NPWS.



Former apprentice is top student

Mr Michael Goodwin, Laboratory Craftsperson in Civil Engineering, recently completed his training as a fitter and machinist at Newcastle College of TAFE and has won prize for top student in the course.

He was formerly an apprentice in the Department of Civil Engineering.

In a class of approximately 100 people, Mr Goodwin achieved final year results that included first place in fitting and machining and numerical control.

The results put him first in his final year and won him prizes from the Newcastle Tool and



Mr Michael Goodwin

Die Company and Seco Tools Pty Ltd.

Michael said his success was due to hard work and an interesting and varied environment in the workshop of the Department of Civil Engineering.

During his apprenticeship, his most difficult and interesting project has been assisting with the construction of the "flume" for the Hydraulics Laboratory.

Michael recently accepted the position of Laboratory Craftsperson in the Geomechanics Laboratory of the Department.

Already his skills are proving

invaluable for facilitating laboratory teaching and making specialist test equipment.

Current projects include construction of a soil column leach test apparatus and a cone penetrometer calibration equipment. The work is part of current ARC funded research undertaken by the Geomechanics Group in the Department of Civil Engineering.

Michael said he wanted to thank all his work colleagues, especially Mr Stuart Gay, who is in charge of the Laboratory Workshop, and his parents for their support.

Child Care Advisory Officer Appointed

Ms Vicki Petersen (pictured right) has been appointed to the part-time temporary position of Child Care Advisory Officer. The position has been made through the Office of the Dean of Students and is accommodated in the EEO Unit.



The University Council has agreed in principle to providing an employer-sponsored work-based long-day child care centre. The University is currently considering the financial options for establishing such a centre. Once a definite decision has been made, Ms Petersen will be surveying staff to ascertain needs for determining priorities of access.

In the interim, Ms Petersen is compiling a Directory of Children's Services in the Lower Hunter and is available to answer enquiries about child care in the area - including vacation care, out of school hours care and long-day care. Initially she is working on listings for long-day care centres and family day care services, as apart

from vacation care for older children, full-time care for under five year olds is the greatest need among staff, according to a survey conducted late last year.

Information about long-day care (centres and family day care) will be available on request very shortly. If you telephone Vicki on Extension 6550, she can provide you with a copy. Vicki also has access to other information about children's services and invites anyone needing help or advice to contact her.

Hawkesbury Centenary Conference

CLIMATE CHANGE: Implications for natural resource conservation

NOVEMBER 25-27

The University of Western Sydney, Hawkesbury is celebrating 100 years of higher education at its Richmond campus with an international conference of the impact of global warming on the use and conservation of natural resources in Australia and the Pacific Basin.

Professor Snow Barlow, of the Hawkesbury campus, will convene a workshop on the impact of climatic change on November 25.

Speakers at the conference over the following two days include Professor Anne Henderson-

Sellers, of Macquarie, Professor G.H. Kohlmaier, of Johann Wolfgang Goethe University in Frankfurt, Dr Barrie Pittock and Dr Graeme Pearman of the CSIRO's Division of Atmospheric Research, Dr Makram Gerges of the UN Environment Program in Nairobi, and Dr Dirk Spenneman of the Alele Museum in the Marshall Islands.

Registration is \$240. Further information is available from Dr Shelley Burgin on (045) 701 209 or Dr P.L. Osborne on (045) 701 536, or by writing to the Faculty of Science & Technology, University of Western Sydney, Hawkesbury, Richmond, NSW. 2753. (Fax 045 784 100).

Third Round Conference Fellowships - Applications Now Open

The Fellowship Programme Sub-Committee has pleasure in inviting third round applications for DEET-funded Conference Fellowships.

The Conference Fellowships are designed to help staff meet prohibitive cost factors such as travel and accommodation and aim to supplement the existing mechanisms of support already offered within Schools, Faculties and Departments. Through attendance at the conferences, successful applicants will be expected to take advantage of opportunities to liaise with academic counterparts and attempt to establish collaborative links.

Each Conference Fellowship will receive up to \$1,800 to help cover accommodation, conference registration, travelling and living expenses. It should be noted that the third round Conference Fellowships are for conferences scheduled to take place by the end of July, 1992 and that funds allocated need to be committed in 1991.

Applications should be submitted from academic staff with no more than three (3) years academic experience (at the time of the conference) or who

have recently re-entered the academic workforce or are able to provide clear evidence that the conference they wish to attend will help in the substantial re-orientation of their academic careers.

Applicants are eligible for subsistence up to the maximum per diem rates stipulated by the University and are encouraged to take advantage of Apex and Excursion travel offers wherever possible. It should be noted that the Conference Fellowships are not designed as a "top up" on Research Management Committee travel grants.

All completed application forms, together with supporting documents, should be returned to: Chair, Fellowship Programme Sub-Committee, Box 1, Hunter Building, University of Newcastle, NSW 2308

APPLICATIONS CLOSE FRIDAY, NOVEMBER 8, 1991.

For further information and application forms, contact Lisa Marshall, Office of the Pro Vice-Chancellor (Development) on 21 6570.

♦♦♦

Daryl Braithwaite

CONCERT TICKETS On Sale Now Make sure you've got yours !!!

Group taps overseas expertise

Two leading academics from overseas visited the University recently for discussions with the Functional Analysis Group.

The Group is a priority new research initiative developed in the Department of Mathematics.

Professor Alexander Pelczynski, from the Institute of Mathematics at the Polish Academy of Sciences, and Professor Barry Johnson, Professor of Pure Mathematics at the University of Newcastle-Upon-Tyne, consulted with members of the group and presented seminars.

The Functional Analysis Group comprises the Professor of Mathematics at this University, Professor Ian Raeburn, Assoc Professor John Giles, Dr

Brailey Sims and Messrs Warren Moors, Scott Sciffer, Michael Smyth and Tim Dalby.

Professor Pelczynski, an authority on Banach spaces, was accompanied to Newcastle by his wife Kristina.

Professor Johnson, an authority on Banach algebra, was invited to the University by Professor Raeburn, with whom he has collaborated in research since 1976.

"There has been an association of a kind between the University of Newcastle-Upon-Tyne and Newcastle University for some years. You have some really top people here," he said.

Professor Johnson is a Fellow of the Royal Society and a former President of the



Professor Iain Raeburn and Professor Barry Johnson - association between two universities.

London Mathematical Society.

He is a Visiting Professor in the Department of Mathematics at the Australian National

University and is presently working there with Dr R Loy. His wife, Margaret, accompanied him to Newcastle.

"Knock on the Door"

The Alliance Française de Newcastle presents a CABARET LYRIQUE entitled "KNOCK ON THE DOOR"

Tricia Martin de Gélis (Soprano)
Magali Goimard (Piano)
8 pm. on Friday
November, 1st

in the Concert Hall of the Conservatorium of Music
(Corner Laman and Auckland Streets)

Tickets: \$15 includes refreshments
\$10 (concession) includes refreshments
\$5 (concession)

Tickets are available from the Conservatorium of Music (29 4133), French Department of the University of Newcastle (located in the McMullin Building) (21 5369) or Alliance Française (59 3069). A limited number of tickets might be available at the box office immediately before the performance.

Originally from Adelaide, Tricia Martin de Gélis was already an accomplished performer in opera, theatre and cabaret when she arrived in Paris in 1987. Whilst



Tricia Martin de Gélis (left) and Magali Goimard. Photograph courtesy of Dominique Mignon

working professionally in France, Germany and Italy, she continued to widen her repertoire and in Avignon in 1988 she met Magali Goimard, a pianist with an already established reputation as a performer and actress.

The two young women have combined their expert musicianship and talents as entertainers to create a lively, witty and sophisticated presentation of traditional and recent cabaret music.

"Knock on the Door" fuses a wide variety of works by

Milhaud, Poulenc, Honegger, Britten, Barber, Bowles and Weill into a very personal display of many of the emotional and musical themes of European cabaret. Mostly in English, there are occasional moments of French and German.

There will be one interval and an opportunity to meet the artists during refreshments after the performance.

For further information please telephone 21 5369 or 59 3069.

CD-ROM Network for the Auchmuty Library

Tenders have closed for the networking of the 11 CD-ROM workstations in the Auchmuty Library. It is hoped to have the network operational by the end of November. A similar network will be installed in the Huxley Library, probably in first semester 1993.

The immediate advantage to users will be the capacity for multiple access to heavily used databases such as ABI-Inform, Austrom, Medline and PsycLit. They will be accessed automatically via the menu on each workstation without intervention from the Reference Desk. Less used databases will still have to be loaded and a booking system will still be required.

The D-ROM network will be accessible by faculty from their offices as soon as the Auchmuty Library is linked to the new campus information network. This should occur in the next two years. The suppliers have also been invited to quote on remote dial-up access to the CD-ROM network which would enable members of the university with modems to search the databases from their homes or the Central Coast campus at Ourimbah.

University Art Collection Christmas Cards



**It's much later than you think!
Send a University Christmas card**

Yes, it is later than you think!
You can buy artistic Christmas cards.

The Art Advisory Committee has six cards picturing items in the University's art collection.

Specifically, the colour plates used to illustrate the Christmas cards are:

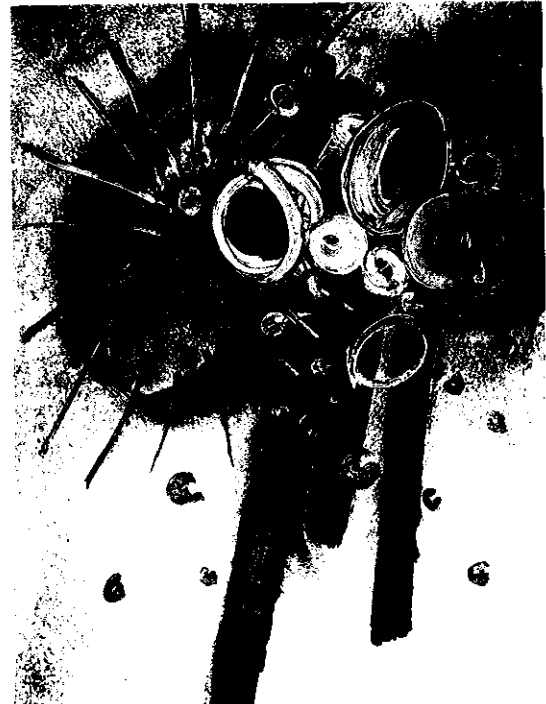


The cards have been printed on fine quality paper and make beautiful and unusual greeting cards for Christmas.

Selling for \$2 each, and \$1.50 each in batches of 10, the cards can be bought from Ms Virginia Birt, Ext 6663, and Ms Christa Moch, Ext 5113.

Tom Thompson's *Mattara Parade*,
Margaret Olley's *Interior*,
Walter Preston's *Newcastle*,

Hunter's River, 1820 and *Black Swans... View of Reed's Mistake*, 1820,
Francis Celtlan's *Chaplin One (Gestural)*,
and Stanislaus Rapotec's *Hermes*.



Art Trust Assists Young Artists

An artist who was born at Bellbird in the Hunter Valley has come to the assistance of four Visual Arts students through a special Trust established in his name.

Bill Fletcher was born in the small coalfields town in 1924 and became recognised as one of Australia's finest painters and printmakers before his death in 1983. The proceeds of a book on his works published shortly after his death, together with his estate, resulted in the William Fletcher Trust being established for the development and advancement of young artists in need.

One of the trustees, Eula Guthrie, said one of the objectivess of the Trust was to assist talented students who were facing severe financial difficulty in continuing or resuming their studies. Applications

were invited each year from a number of tertiary institutions which offered art courses that involve a reasonable emphasis on skills in painting and/or drawing and/printmaking.

Ms Guthrie said four applications from The University of Newcastle gained approval this year, the recipients being Robyn Newman, Anne Riley, Paul Bouchereau and David Kasteel. Anne is the final year of the Bachelor of Arts (Visual Arts) course while Robyn, Paul and David are in their second year of the degree program.

Ms Guthrie travelled to Newcastle from Sydney to present certificates to the four students, who will each receive a monetary grant to pursue their artistic aims.

"Bill Fletcher struggled for recognition and had a soft spot for people trying to get



Ms Eula Guthrie (centre) with 1991 William Fletcher grant recipients (L to R) Paul Bouchereau, Robyn Newman, David Kasteel and Anne Riley

into art, and for art students," Ms Guthrie said.

"The nature of his painting is becoming very popular again and the Trust established after his death has assisted many students to gain recognition in the art world.

"The School of Art, Design and Communication and its staff have been very supportive of the Trust and we are appreciative the con-

tinuing interest shown by the University," she said.

Robyn, Anne, Paul and David thanked the Trust for its interest in supporting students and will now take up the challenge of Ms Guthrie to spread the aims of the Trust of assisting young people who might be facing difficulty in continuing or resuming their art course because of financial reasons.

Art Advisory Group - 'Cross the Creek' Exhibition

The expertise of staff in the Faculty of Art, Design and Communication is on display in a special exhibition in the Great Hall Foyer until October 27.

'Cross the Creek' is an important exhibition as it is the first time since amalgamation in late 1989 that members of Faculty staff have had the opportunity as a group, of displaying recent examples of their professional practice on the University campus.

The exhibition, curated by

Sonya Celtan, includes painting, sculpture, printmaking textiles, ceramics, photography and illustration.

The Faculty of Art, Design and Communication comprises a large and diverse group of practising artists with a strong commitment to both the Hunter Region and to excellence within the University.

The exhibition is open between 10 am and 4 pm and works are available for purchase.

The Hunter Orchestra

SEASON 4

FAMILY PROM CONCERTS
Sponsored by IBM AUSTRALIA

IBM
CONDUCTOR
ROLAND PEELMAN

Featuring
JANE PETERS
performing
MENDELSSOHN'S
Violin Concerto

Also on the programme, works by:
TSCHAIKOWSKY
ROSSINI **ELGAR**
STRAUSS

NEWCASTLE
Thursday 31st October 1991 8pm
Friday 1st November 1991 8pm
Newcastle City Hall

Tickets: \$25 Adults;
\$17.50 Concession; \$10 Children
Available from Civic Theatre Box Office
Chargecard Ph: 292 261 and
The Hunter Orchestra Ph: 29 4305

Everyone Loves a Teddy Bear

A video about a teddy bear, not your ordinary kind of teddy bear, mind you, has won a national award for its content, professional expertise and production excellence.

The five-minute video, simply entitled 'Teddy Bear', has won the Nova Award and second place in the Mattara National Video and Film Festival, and its creators, Jan and David Crawford, are thrilled with their success.

Jan, a technical officer in the Department of Geology, and her husband, David, a courier/driver in the Property Services Division, share a keen interest in video production. Although it is a first-time win for Jan, it falls in with a string of national and international awards for David over a 20-year period.

The video was made strictly for enjoyment value rather than with an educational theme, although it is



David and Jan Crawford, makers of the video entitled "Teddy Bear".

hard not to catch the message.

It tells the story of a 10-year-old boy confined to a wheelchair after a truck rig accident which claimed the life of his father. The boy contacts a truck driver through his CB radio using the call signal name 'Teddy Bear' and after telling him his story, asks the inevitable question

that a 10-year old boy would ask, "Could you take me for a ride one day?"

"The tough-guy truck driver is really quite a 'softie' and calls by to take him for that ride. What develops is a friendship between an unlikely pair extending to a group of equally 'tough-guy' truckies," David and Jan said.

"A small boy gains a whole new group of friends to talk to during his house-bound hours and gives the truckies someone to look out for. The message is that friendship is a two-way street."

David and Jan who wrote the script themselves, spent five days shooting the video and then several weeks editing.

"It was made strictly as a competition entry and we felt that this type of story would have appeal," David and Jan said.

"The cast was wonderful and we enjoyed working with them. It's amazing what people can do when they are given an opportunity," they said.

'Teddy Bear' stars Toby Beverley as the boy, his mother, Kathy, as the mother in the story while Warren Best is the truckie under the handle, 'Breaker 19'.

Student Adviser Visits Campus

Singaporean students will continue to look to Australia for their tertiary education if current trends are any indication, according to the Singapore Student Adviser in Australia, Rosalind Chan.

Ms Chan, who holds the post of First Secretary (Education) at the Singapore High Commission in Canberra, recently visited the 80 Singaporean students who are studying at The University of Newcastle and held talks with the Singapore Students' Association.

Ms Chan said that Singaporeans had little trouble in adjusting to the Australian education system because they were exposed to Australia through the media. English was also the first language in Singapore, making adjustment that much easier.

"My job entails visiting Singaporean students who are studying at tertiary institutions on Australia's east coast and overseeing their welfare," said Ms Chan.

"There are about 1,000 of our students in 21 education institutions on the east coast while another 1,500 are



Ms Rosalind Chan

studying in Western Australia and looked after by a second student adviser.

"There is a continuing trend for more students to come to Australia as it has a reputation for providing a good education for overseas students."

Ms Chan, who is on a three year posting to Australia, said one of her major aims was to promote the work of Singapore Students' Associations at the various campuses, a number of which already provide support for their members.

Scholarship Awarded

Honours student in Chemistry, Scott Donne, is \$1,000 richer having been awarded the Herbert Porter Memorial Scholarship.

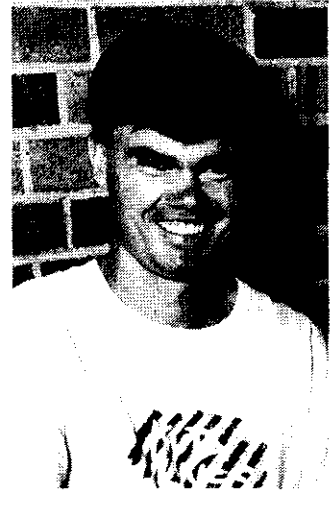
Scott is completing an Honours year as part of his Bachelor of Science degree.

The scholarship, which is awarded each year, is specifically for honours students enrolled in Science and Mathematics courses at this University and is awarded to the outstanding student in those courses.

Scott said a selection committee granted him the scholarship based on his academic record.

"A scholarship such as this will be a great help to me financially, especially as I would like to continue on to study for a Phd.," Scott said.

For his Phd, Scott hopes to pursue his research in battery devel-



Mr Scott Donne

opment which has also been the subject of his Honours project.

The project has already come under notice from the Australian Manganese Co. Ltd. which manufactures electrolytic manganese dioxide which is used to produce alkaline dry cell batteries.

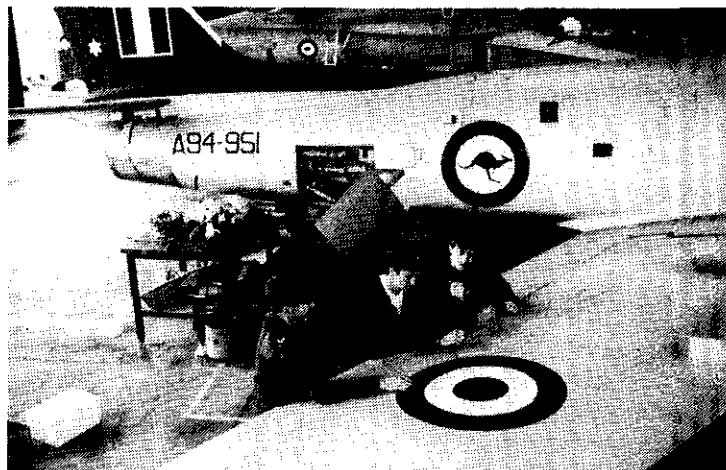
Around the Campus

University Students help RAAF Aircraft

Two first-year Aviation students, Anthony Agius (centre) and Matthew Atack (right), assist LAC Shane Fitzpatrick with the mechanical restoration of the Avon Sabre A94-951.

The jet fighter is being restored in preparation for the celebration of the 75th Anniversary of No. 3 Squadron at RAAF, Williamstown.

Many of the University Aviation students have been involved in the restoration.



Industrial Arts Technology Student wins Autocad Prize



A final year student in the Bachelor of Education (Industrial Arts Technology) course has won a significant prize for his work with Autocad throughout the year.

Geoffrey Thick has collected a copy of Autodesk's Animator software package as the course's top user of Autocad during the 1990 academic year.

Acting Head of the Department of Curriculum Studies, Dr Roger Coldwell, said that the prize was very much deserved.

"Geoff's general performance is high and it didn't surprise me when his name was submitted for the prize. He has excelled at a number of subjects and we are rightly proud of him," Dr Coldwell said.

Autodesk (Australia), a major supporter of industrial design and technology developments, offered the prize during early 1990. Following formalisation of the prize by the University Council, the prize will be received annually by the top Industrial Arts Technology student in the use of Autocad.

To assist students across the board to get their own CAD-package, Autodesk (Australia) is investigating the possibility of offering them a students' copy of Autocad. It is proposed that be available to full-time students at a reasonable cost and Terry Brideson, Autodesk's Education Manager, is seeking feedback on the idea. Suggestions can be sent to him at Post Office, Box 458, Richmond. VIC. 3121.

Tae Kwon Do Interschool Success

This year's Interschool Tae Kwon Do competition held at the University of New England in September, produced good results for the Newcastle team.

As reported in a previous Bulletin, the 11-member team had been training very hard for the event and managed to bring home eight trophies - one gold, one silver and five bronze in the sparring events and one bronze won by Club President, Darrel Sparks, in the inaugural pattern competition.



The Club's Head Instructor, Ben Capotosto, said that although the team had not had a lot of previous tournament experience they had exhibited a very professional and sporting approach. He said they hope to bring home more gold next year.

The trophy winners were:

Jacqueline Lee Gold (Women's red belt division)
Steven Lynne Silver (Middle weight yellow division)
Mark Feyer Bronze (Heavy weight blue belt)
Agatha Bralic Bronze (Women's yellow belt)
Roy McBurney Bronze (Light weight green belt division)
David Chung Bronze (Light weight yellow belt)
Darrel Sparks Bronze (Light weight blue belt)
Darrel Sparks Bronze (Open pattern competition)

Advertisements

Wanted to Buy

Furniture, new or old, deceased estates, housefuls. China, porcelain, etc. Cash buyer. Will call. Please telephone 61 1714 or 59 5646 or (after hours 59 2319).

For Sale

Magnificent Wedding Gown. Size 10/12. Satin and guipure lace, pearl drop sleeves and lace inserts in train. For photographs, contact Margaret on Ext. 5380.

For Sale

Leather gear for motor bike. Size - mens (medium). Jacket, pants, boots, mittens and two helmets. \$600 the lot. Please telephone 83 1668.

For Sale

Leaving the country. 1982 Volvo 244 GL sedan, air conditioned, tow-bar, automatic, 169,000 km, in good condition. Serviced by Hunter Viking, service record and pink slip available. \$9,000 or near offer. Please telephone Philip Chan, Statistics Department (Ext 5527) or 51 4684.

For Sale

Vinyl Portable Closet 90 x 50 x 160 cm, folded into portable size 31 x 10 x 53 cm, still in pack. \$20. Please telephone Philip Chan, Statistics Department (Ext, 5527) or 514684.

For Sale

Advanced PC-AT Math Coprocessor type 2C87-20 (20 Mhz) with matrix functions. Brand new. Selling for only \$150 (or near offer) due to unexpected upgrade offer for main processor. Please telephone 21 5451.

For Sale

Suzuki Mighty Boy, 1985 model, automatic, rustproofed, 12 months registration. Good condition \$3,800. Please telephone Ext. 5954 or 46 8269 (after hours).

For Sale

Vitus 21" frame push bike with new brakes (black) - \$1,000. Please telephone Ext. 6072.

For Sale

Centurian Mountain Bike (blue) plus accessories, \$500 or near offer. Please telephone Ext. 6072.

Unit to Share

Non-smoker required to share two-bedroom unit in Merewether. \$75 per week, plus expenses. Please telephone Jean on 29 5087 before noon, weekdays.

For Sale

L300 Family Wagon '81 \$5000 L00940 With red striping. Seats removed but can be reinstalled Phone 616491.AH

Good Home Needed

A good home is needed for a female border collie - 3 years old. Desexed, family pet. Please telephone Ext. 6761 or 29 1968 (after hours).

For Rent

Four-bedroom house, Hamilton South. Suitable for a family. 6 - 12 months lease from early December, 1991. Please telephone David Cottee on 61 5139.

For Rent

Two-bedroom luxury flat at Adamstown Heights. 2 - 3 months lease. Inground pool, partly furnished, air-cond. and built-ins. \$220 per week. Telephone 43 5060.

Letters to the Editor



*The Editor,
University of Newcastle
Bulletin.*

Dear Editor,

Now that Academic Staff have obtained some measure of "Wage justice" following protracted, arduous and costly representations, lobbying, negotiations, appearances before tribunals, etc., it is probably appropriate to ask yet again the question concerning the consciences of non-union members of academic staff.

The campaign for salary justice was long and hard, involving hours and hours of work and often considerable personal sacrifices by Honorary Executive Members both at Federal and Branch levels. The cash costs were considerable, running into the tens of thousands met from members' subscriptions. As well, University of Newcastle members made a personal statement and contribution by their participation in the one-day stoppage.

Given that academic staff are decent, honourable people, one may well ask for evidence of the non-acceptance of salary increases by non-union people or at least the continued contribution of the equivalent of union dues to a charitable organisation of their own nomination.

And in closing, it is also worth adding to the free-loaders issue, the equally galling one of the double dippers - senior academics and administrators getting large Council-sanctioned, substantially back-dated salary increases, who then line up to get their share of further increases.

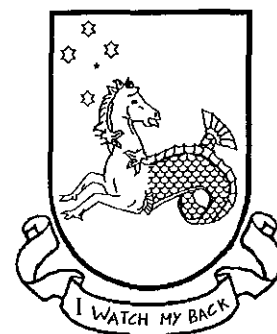
*Yours sincerely,
Robert Mackie
Fran Chopra.*

*The Editor,
University of Newcastle
Bulletin.*

Dear Editor,

Since the formation of the new University through the amalgamation of three separate institutions, many procedures and practices have been reviewed to provide uniform procedures throughout the new University.

However, the University seems to have so far missed the opportunity of reviewing the University crest, the crest from the 'old' University still being in use. As instructed by the motto we must always look to the future and so I enclose a suggestion for a new crest more appropriate for a tertiary institution of the 1990's.



*Yours sincerely,
Dr Ian Benn.*

*The Editor,
University of Newcastle
Bulletin.*

Dear Editor,

The September 5 issue of BULLETIN mentioned the changing of the University address from "Rankin Drive" to "University Drive, Callaghan."

With all due respect to Sir Bede Callaghan, I feel that to rename the suburb of Shortland detracts somewhat from the University's history. I refer to our coat of arms, which is adapted from that of the Shortland family. The choice of Heraldry now seems to bear no relationship to the University.

*Richard Brown,
Psychology.*



Research Grants for 1991

Information on the following grants is available from the Office for Research - Telephone 21 5305

Closing Date

- ◆ Land & Water Resources Research & Development Corporation
Research and development priorities for this call are: Land Resources;
Water Resources; Ecological Systems; Social, Economic & Management Systems; Irrigation. October 21, 1991
- ◆ Urban Water Research Association of Australia
Research relating to the provision of water supply, sewerage, drainage and
industrial liquid waste services. October 21, 1991
- ◆ Rebecca L Cooper Medical Research Foundation
Research in the fields of Arthritis, schizophrenia, lung diseases (excluding cancer
and in the medical application of genetic research. October 30, 1991
- ◆ Canadian Studies Program
The Canada-Aust Institutional Research Award (CABIRA) October 21, 1991
Faculty Research Award Program (FRP) November 4, 1991
Faculty Enrichment Award Program (FEP) January 21, 1992
- ◆ Korean Government Research Scholarship 1992
For research in higher educational institutions November 5, 1991
- ◆ Wool Research & Development Corporation New Research Grants
Textiles, raw wool marketing, production, wool harvesting & economics. November 15, 1991
- ◆ Fulbright - Australian - American Educational Foundation
For study, research, lecturing in the USA (Senior) November 20, 1991
- ◆ Japan Foundation Grant Programs
Various programs for Japanese studies. November 20, 1991
- ◆ Australian Academy of Science
Scientific exchanges with China - 1992/93 November 22, 1991
- ◆ Coopers & Lybrand Accounting Education & Research Fund
Research projects in an accounting-related area. Preference for projects that
lead to a post-graduate degree and deal with current and topical problems. December 16, 1991
- ◆ Egg Industry Research & Development Councils
Research grants, fellowships and studentships December 16, 1991
- ◆ Criminology Research Council
Support for research projects which are likely to produce results
of relevance for the prevention and control of crime throughout Australia. February 4, 1992
June 2, 1992
October 6, 1992
- ◆ Egg Industry Research & Development Council
Travel/Conference Applications March 10, 1992

FELLOWSHIPS AND CONFERENCES

- ◆ Australian Academy of Science
Postdoctoral Fellowships in Japan - Awards for Scientists 1992/93 October 25, 1991
- ◆ DITAC International Conference Support Scheme
Holding in Australia of major international science & technology conferences. October 28, 1991
- ◆ Canadian Studies Program International Fellowships
For doctoral graduates in the natural sciences or engineering for up to two years. November 22, 1991
- ◆ Robert S McNamara Fellowships Program
To support postgraduate research in areas of economic development December 10, 1991
- ◆ The Institution of Engineers Australia International Conference Support Scheme
Support for selected international scientific, technological or engineering conferences. No Closing Date
- ◆ National Campaign Against Drug Abuse
No Closing Date
- ◆ DITAC Access to Major Research Facilities Program
To facilitate travel to major research facilities overseas. Apply at least seven
weeks before date of intended travel. No Closing Date
- ◆ Education and Training Foundation
No Closing Date
- ◆ BHP Community Trust
No Closing Date
- ◆ RADGAC Department of Community Services & Health
Medical research and targeted research areas. No Closing Date
- ◆ Research Management Committee Travel Grants
No Closing Date
- ◆ Research Management Committee Research Visitors
No Closing Date
- ◆ Wellcome-Ramaciotti Research Travel Grants
No Closing Date

Further information and relevant application forms are available from the Office for Research - telephone 21 5305.

The University of Newcastle, the University Union & Rock City Promotions presents

Don't Hold Back



DARYL BRAITHWAITE

DECEMBER 11 & 12, 1991
At the Civic Theatre
TICKETS: Telephone (049) 291977

\$2 from every ticket sold will help provide a benefit fund for the purchase of motorised wheelchairs, braille computers and money for the day-to-day needs of students with disabilities.