Milestone for Library
One Millionth Book Presented

The University Libraries celebrated a special milestone recently when the one millionth book was presented by The Friends of the University.

The one millionth book, a copy of Nathaniel Bacon's 'Historical Discourse of the Uniformity of the Government of England' printed in 1647, was found among book donations for last year's Book Fair.

"It is important that we see ourselves not only as a University resource but also as a resource to the community. Our Libraries are not only rich in resources but also in the forefront of innovative information technology as well," he said.

While presenting the book, Chairman of the Friends of the University, Mr Keith Barbour, said the group's work was a labour of love and praised the energy and dedication of those involved.

"Not only did we celebrate the acquisition of the one millionth book, but we also celebrated the establishment of the Rare Book Room, made available through funds provided by the efforts of The Friends. Naturally we are very excited that we have reached this stage," Mr Linklater said.

A ceremony held in the Auchmuty Library honoured the handing over of the book and was attended by University personnel, the Friends of the University as well as community leaders.

The University Librarian, Mr Bill Linklater, said that Newcastle was the first regional university library to reach the one million book milestone and paid tribute to the unstinting work of The Friends whose efforts and expertise of Library staff in procuring and processing materials and in remediating weaknesses in the Collections.

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First D.Mus. in honorary degrees

The Newcastle-born dancer Marilyn Jones will become the first person to receive an honorary Doctorate of Music from the University at this year's graduation ceremonies.

The Vice-Chancellor informed Academic Senate at its February meeting the names of those to be honoured at this year's ceremonies on May 1, 2, 8 and 9. In addition to Miss Jones, they are:

- Professor Betty Andersen, the retiring Dean of Nursing at University of Western Sydney, who will receive an honorary D.Sc. from the Faculty of Nursing;
- Ms Mary and Mr Larry Beeston, artists whose M.A. degrees will be awarded jointly by the Faculty of Art, Design and Communication because they work jointly; their work includes the great tapestry in the University's Great Hall;
- Mr Don Morris, architect, planner and pioneer of the region's Botanic Gardens, who will become a Doctor of the University;
- The Newcastle-born dancer Marilyn Jones will become the first person to receive an honorary Doctorate of Music from the University at this year's graduation ceremonies.

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How the One Millionth Book was found

Every once in a while, there’s a happy ending.

A simplistic view, but then the acquisition of the one millionth book, an old and rare book printed in 1647, was so simple it was almost like falling off a log.

Imagine opening box after box of donated books for the University’s Book Fair last year and coming upon this rare and valuable specimen. That is what happened to Margot Longworth, a retired Library staff member and now dedicated Friend of the University.

Margot says that once she recovered from her initial surprise, she showed the book to the convenor and organiser of the Book Fair, Mrs Pat Flowers. At that point it was decided to earmark it for presentation to the University Libraries as the one millionth book.

Sadly though the history of the book that is known is uneventful.

Mr Keith Wilson of New Lambton had kept it in his bookcase for about 60 years and approaching his 80th year, decided to donate it to the Book Fair so it could be passed on in an appropriate way.

He didn’t go in for any ceremony though, just popped it into a carton with some other books and sent it off to the University.

Mr Wilson says he acquired the book, when, during the Depression, he managed to gain work as a gardener with a Miss Annie Allen, who lived in Barker Street, Newcastle. Miss Allen, who was then in her eighties, gave the book to Mr Wilson who promptly wrote his name on the front and put it in his bookcase. As for its previous history, nothing is known, but now through a stroke of fortune, the book has been sensitively restored and has pride of place in The Friends of the University Rare Book Room, where hopefully it will provide pleasure and interest for at least a few more hundred years.

The key players in the events that led up to the presentation of the rare book as the one millionth book. Pictured from left: Chairman of the Friends of the University, Mr Keith Barbour, donor of the book, Mr Keith Wilson, Margot Longworth, who found the book and the University Librarian, Mr Bill Unklater.

EEO Grievance Advisers Needed

The EEO Unit is looking for staff members who would like to be Grievance Advisers.

Their role is to be the first point of contact for other staff members who feel they have a grievance associated with equal employment opportunity.

Training will be given to prospective Grievance Advisers and while there will be no additional payment for performing the role, it is expected that the service be provided during employees’ work time. Since there will be a number of Grievance Advisers around the campus, it is not expected that the role will be very time-consuming for each Grievance Adviser.

Staff who would make a suitable Grievance Adviser would have:

• a commitment to EEO principles
• good listening and communication skills
• the ability to maintain confidentiality

There will be a selection process to assess suitability prior to the training workshop.

Staff members who have acted as Grievance Advisers in the past are welcome again to express interest.

Contact the EEO Co-ordinator, Susan Jones (Box 24, Hunter Building), or on Extension 6552 if you are interested or would like more information.

The Concert For Life

History will be made on Saturday, March 28, when an “irresistible force” - the people of Sydney and INXS - meets the “immovable object”, Centennial Park.

Performers will be donating their talent with all proceeds to the Victor Chang Cardiac Research and AIDS Patient Services and Research at St. Vincent’s Hospital.

"The impact of both the cardiac and AIDS units at St. Vincent’s on the Australian community is enormous. Dr Victor Chang was the human face of the work done by a dedicated team of highly professional individuals.”

"Despite his tragic death, his work continues and flourishes."

"Once and for all ... The Concert for Life" will commence at Noon and continue until sunset with tickets on sale through Ticketek. Ticket price plus booking: $21.
New Professor of Computer Science

Professor Peter Eades had never been part of an Engineering School until arriving at Newcastle in February. A mathematician by training, our new professor of Computer Science had always found himself grouped with mathematicians or scientists, whether at ANU, where he took his first degrees, at McGill, Waterloo or Louisiana State, where he had visiting appointments, or at Queensland, where he has just completed 12 years' work. Professor Eades's main interest has been in using geometrical techniques for solving computational problems, and he hopes to attract some of the world's most talented computer scientists to Newcastle to help consolidate the University's reputation. He thinks it should be feasible, in spite of the relatively low financial rewards for scientists working in Australia, because of the lifestyle Newcastle residents enjoy. Professor Eades has been hunting down copies of the recent survey by Australian Business Monthly which ranked Newcastle as Australia's best city, the better to persuade his potential co-workers. Professor Eades is aware of the strength of the Engineering Faculty in the field of control systems - which is one of the methods of meeting computer challenges. But his end of the corridor in Building EA will remain devoted to pursuing solutions through geometry. Computer problems can be as simple as finding the right way of connecting items - just like finding the right way to wire a stereo sound system at home. But, if the sound system had 100,000 elements instead of five or six, and it were crammed onto a computer chip one centimetre square instead of a lounge room floor, the answer might not look as simple as the question. That's where a little geometry helps. That, in fact, is one of the problems on which Professor Eades has worked, in that case with an Adelaide-based company.

Another robot path. A robot can readily be programmed to find the shortest path between any two points in a given terrain. But how can a robot be programmed to find the shortest path in a terrain which it has never experienced before, where it only discovers obstacles by colliding with them? The problem is essentially one of geometry, and Professor Eades has established a program which will allow even the most ignorant of robots to navigate a room no more than five times more slowly than a perfectly knowledgeable robot.

Considering that, with random discovery of the terrain, a robot might never get from A to B, five times the perfect period seems remarkable. In fact, it cannot be bettered, and that can be proven too. What links the robot paths and the computer chip layout is Professor Eades's abiding interest in visualising relational information, such as programs and databases. This is the challenge which arises in the design of Graphic User Interfaces, or GUIs (pronounced 'gooeys'), an increasingly popular method of dealing with information. The problem central to the design of intelligent GUIs is the layout on screen of objects, such as icons representing program modules, and their interconnections, such as parameters. The solution involves techniques similar to those in the "wiring" problem mentioned earlier. It is not such a long way from Professor Eades's early days at ANU, when mathematicians sought to use fairly primitive computers to prove theorems; now the computers need the mathematicians to solve their problems using geometry. One might say the situation has come full circle.

Honorary Degrees (from P1)
Mr Len De Silva, a leading member of and worker for the Aboriginal community in the Newcastle region, who will be awarded a D.Litt. from the Faculty of Social Science;
Mr Harry Tulloch, the leading Hunter winemaker and oenologist, who will receive the degree of Doctor of Science from the Faculty of Science and Mathematics; and
Mr Jack Wilcox, Chairman of the Joint Coal Board, who will be awarded a Doctorate of Science by the Faculty of Economics and Commerce.

Enrolments close to target - overall

Student numbers for 1992 will fall within one per cent of target, according to early figures. Acceptances from students have not, however, been uniformly on target across the University and some courses may be over-enrolled.

The Deputy President of the Academic Senate, Professor Clarke, told Senate's February meeting that the University was able to make 3,783 offers to new students this year; there had been 3,758 acceptances.

Some course had large over-enrolments in percentages, but not necessarily in students numbers. One Engineering course, for example, had 25 per cent more acceptances than expected, but it took just four students to make the difference.

In some other areas, such as the B.A. and B.Sc. courses, offers were accepted in significantly larger numbers than expected. The acceptances show these two courses are more popular in 1992 than previous years' figures had led the University to expect.

Computing Science, a course which has grown in popularity among school leavers over recent years, continued to attract acceptances faster than anticipated.

And about 700 more students have re-enrolled in 1992 than previous years' figures suggested was likely. There have also been more acceptances of full-time places than anticipated, upsetting the anticipated mixture of part-time and full-time students and rendering the University slightly over-enrolled in terms of the Federal Government's funding units, EFTSUs.

It is expected, however, that this over-enrolment will disappear by March 31.
Bicycle Access to the University of Newcastle from the East/West Cycleway at Jesmond via SH 23

Overseas Nursing Students Camp

Twenty three Diploma of Health Science (Nursing) conversion students gained valuable nursing skills and provided a wonderful holiday for a group of children with severe disabilities at a camp held during the academic break.

The camp was held at Camp Coomba, a holiday venue on the Wallis Lakes near Forster, over five days, and proved to be a hit with both the students and their young charges.

Co-ordinator of the exercise, Nursing lecturer, Kim Usher, said the patients were all totally dependent with severe mobility difficulties. She said they were mostly from Richmond community homes although some were totally in the care of their families.

Kim said the camp, as well as being a great holiday for the children, provided a respite opportunity for their carers.

"The students enjoyed taking them canoeing, swimming and bush walking. They also enjoyed ball games, 'dancing' and general fun activities," Kim said.

"Over the five days, the students were responsible for the health needs of their patients as well as their special dietary and feeding needs.

"I am sure they were exhausted at the end, but everyone had a great time," Kim said.

One of the young holiday makers, David, gets a hand to catch a ball from Vico.
First Lecturer in Cello

Ms Catherine Milligan has taken up her position as the first lecturer in cello at the Conservatorium.

For Ms Milligan, playing the cello means a great deal. It gives her the opportunity to teach, and to enjoy some of the forms of music-making other than being a part of an orchestra.

The Conservatorium staff and students have a number of formal and informal groups which meet to play more or less as the spirit moves.

Ms Milligan, who says she probably favours modern music over older pieces, is looking forward to the opportunity of playing in chamber groups and solo.

As is customary for new staff at the Conservatorium, Ms Milligan will be playing a solo concert later in the year.

Influenza Vaccine Trial

Associate Professor Gregory Tannock will be conducting an Influenza Vaccine Trial at the University for which he needs 300 volunteers. The volunteers are required for two visits (see below for details) and must be between 18 and 60 years of age, male or female (not pregnant), with no allergies to eggs or chick­ens.

The first visit involves a 10ml blood sample and vaccination (the same vaccine as sold to the general public) or a placebo. The second involves a 10ml blood sample only.

Volunteers will be paid $25 for taking part in the trial. This will be paid after the second visit.

First Visit
Auchmuty Room, Shortland Union
Mon, April 6, 11.30 - 2pm
Tues, April 7, 11.30 - 2pm
Wed, April 8, 11.30 -2pm
Meeting Room, Under Hunter Union
Thurs, April 9, 11.30 - 2pm
Fri, April 10, 11.30 - 2pm

Second Visit
Auchmuty Room, Shortland Union
Mon, May 4, 11.30 - 2pm
Tues, May 5, 11.30 - 2pm
Wed, May 6, 11.30 - 2pm
Meeting Room, under Hunter Union
Thurs, May 7, 11.30 - 2pm
Fri, May 8, 11.30 - 2pm

News from the Central Coast Campus

The University has enrolled approximately 290 students, both full and part-time, on the Central Coast Campus.

The 55 new places for BA undergraduates are full, though there appears to be a slight shortfall below the target of 55 for the BBus.

The appearance of the campus continues to change. The University is currently erecting a new Library building to replace the existing brick cottage, which is now far too small to meet the needs of the present student numbers. The new Library, being erected just to the east of the Administration Building, is designed to serve the needs of students through to 1994.

Meanwhile, the Union is about to erect a lower level extension to its building on the campus. This extension will house the Co-op Book­shop and the Student Committee offices, which will include first aid facilities.

The virtual freeze on the introduction of new developments in the BA, and the extensive reconstruction of the BBus degree at the end of 1991, have caused considerable problems both for staff and for students.

However, I am happy to report that two new members of staff have been recruited, who will both be doing most of their lecturing and tutoring work on the Central Coast Campus.

Mr Paul Kniest is a Lecturer in Economics, whose primary work will be the lecturing and tutoring in ECON 110 on the Central Coast Campus. He holds a BSc degree from this University, and has recently completed his thesis for the MSc degree in Commerce. He has worked as a research economist in the Bureau of Industry Economics in Canberra, and was seconded for a year as a trainee to the OECD in Paris. Since 1989, he has worked as a tutor in this University.

Ms Claire Walker has joined the staff on a fractional appointment as Lecturer in History. She is teaching the bulk of History 104 and 105 - the introductory course on the Foundations of Western Culture; in addition, she is providing a second year semester length course, The Age of Expansion, a study of early modern Europe. Ms Walker is a graduate of the University of Western Australia, with First Class Honours in History, and is currently completing a PhD with UWA on the role of English nuns inside religious life on the European continent during the late 16th and 17th Centuries. She has given tutorials and lectures both at UWA, and at this University since she came here in 1991.

Michael Ewans, Warden, Central Coast Campus
Relocation of Departments

Professor David Finlay voiced a concern shared by many members of the University when he asked, at the last meeting of Academic Senate, for a guide to the new locations of the many Departments and offices which have been physically moved since the end of 1991.

It has not proved feasible to produce a map yet, as was suggested at the Senate meeting. The Facilities Officer, Ms Sandra Jones, has however made available the following details of the relocation program, which is now complete.

Department of Community Programmes: Ground Floor McMullin Building, Rooms, LG46 to LG61.
Department of Mathematics - Division of Quantitive Methods: Ground Floor Mathematics Building, Rooms V17 to V33.

Faculty of Education

Department of Curriculum Studies: A Level Hunter Building, Rooms A8 to A75 and Hunter Gymnasium G10 to G28.
Department of Educational Studies: A Level Hunter Building, Rooms A105 to A144.
Department of Pedagogical Studies: A Level Hunter Building, Rooms A79a to A120 and B02, B04, B05.
Department of Education: C Level Hunter Building, Rooms C42 to C76.
Department of Education - Curriculum Resources and Research Centre: C Level Hunter Building, Rooms C108 to C120.
Faculty of Education - Apple Computer Laboratory: Computing and Information Sciences Building Room CT108.

Faculty of Social Sciences

Department of Leisure Studies: Level 3 Behavioural Sciences Building, Rooms 305 to 311.
Department of Sociology: Level 3 Behavioural Sciences Building, Rooms 330 to 352.
Department of Social Welfare: Level 3 Behavioural Sciences Building, Rooms 314 to 325.
Department of Social Work: Level 2 Behavioural Sciences Building, Rooms 221 to 229.
Faculty Secretaries - Social Science: Computing Information Sciences Building, Level 2, Rooms CT227, 229, 231.

Centre for Education and Training on Addictions: Computing Information Sciences Building, Level 2, CT224, 225.
Centre for Environmental Management: Computing Information Sciences Building, Level 3, Rooms CT319, 320, 321.
Centre for Literacy & Linguistic Computing: Computing Information Sciences Building, Level 1, Rooms CT111, 112, 113.

University Computing Services

Systems Assurance Branch: McMullin Building, Level 2, Rooms G24, G24b, G24c.
Assistant Director, Allan Milgate - Computer Information Sciences Building CT106.

Department of Applied Science and Technology - General Office and Head of Department: Hunter Building, A Level, Rooms A78 and A81.
The University Architect, Physical Planning and Estate Branch, Phillip Pollard: Hunter Building Room A214.
Accounts Payable: McMullin Building, Level 2, Rooms G59 to G64.
Purchasing Department: McMullin Building, Level 2, Rooms G52 to G57.
Assistant Bursar - Finance - Peter Myers, McMullin Building, Level 2, Room G54.
Student Counsellors: Auchmuty Library, Level 2, Rooms 257 to 265.
University Chaplains: Hunter Building, A Level, Rooms A184 to A187.
Chaplains are also located on the main campus in the Temporary Buildings.
International Students Office: Bowman Building, Ground Floor AB37 to AB44.
Postgraduate Studies: Hunter Building, A Level, Rooms A201 to A206.
Dean of Students: Bowman Building, Room AB1.3.
Credit Union: Hunter Building, Foyer of the Griffith Duncan Theatre, Wednesday and Thursday of pay week.
Student Support - Student Services (Dean of Students): Temporary Buildings TB43.
Property Services Branch: Hunter Building, Level A, Rooms A168 to A176.
Department of Law will move to the McMullin Building, Level 3, Rooms 158 to 180 by 16th March.
Theatre Management Group - Bede Jordan, Audio Visual Services: Computing Information Sciences Building, Room CT312 by 18th March.

All staff in these departments/sections have retained their existing telephone extensions.
Any queries may be referred to Sandra Jones, Facilities Officer, Property Services extension 6665.

B U L L E T I N  •  6
An Imagined Life

The exhibition which incorporated a small sample of Peter's works from 1961 to 1991, also presented 33 new works which were completed during recent study leave. These works, brilliantly coloured impressionistic landscapes of the Upper Hunter area, were shown to advantage in the gallery, the historic Brough House.

Opening the Exhibition, Mr Bowmore commended the great beauty and purpose of the collection. He commented that once a painting is hanging on a wall, a dialogue develops between the painting itself and the spectator.

"The beauty of it is that the artist does not retain control of his painting in the imagination of the spectator," Mr Bowmore said.

"For me, I find the artist, Mr Singleton, compresses simultaneous sensations and feelings on a single canvas to convey more clearly and comfortably the nature of the struggle he endeavours to represent.

"The Exhibition presents powerful symbols, evocative colour relationships and a free personal input or application of the rules of composition and in my view these images of an imagined life are at once abstract and totally independent of imaginative visual reality."

"I congratulate the artist on an original and distinctive showing," he said.

The Exhibition remains open at the Maitland City Art Gallery, Brough House, Church Street, Maitland until March 23.

When Day Turns to Night

Researchers have studied for many years the effect of night work on humans, whose body clocks are ruled by daylight, identifying a range of deleterious effects.

These can include reductions in health and alertness, leading to accidents and reduced productivity, as well as more personal impacts, such as depression.

A researcher from this University is now setting out to study another aspect of the problems of shift work - the impact of light deprivation on men who work underground during the day.

Mr Rod Wetzel, a former coal miner himself, is working within the Department of Psychology at this University, and hoping to study the effects of working the day shift in underground mining, comparing the outcomes with men who do similar work above ground at open cuts in the Hunter Valley.

"We know from previous research that a lot of the human body's mechanisms - the immune system for example - are governed by a sort of internal clock, called the Circadian rhythm," Mr Wetzel said.

"This clock has a cycle of about 25 hours, so it has to be reset every day; and it is reset by a burst of light, usually the first light of morning.

"If you ask human beings to go without this light, the clock will not reset itself, throwing the body out of its usual cycle.

"For a day or two, this may produce an effect similar to jet lag, as many people know from their own experience.

"In the long run, though, the clock decays, with potentially serious and lasting effects."

Mr Wetzel said there was evidence that people deprived of normal light exposure for three years or longer had a body clock cycle of only about 15 hours, which demanded that they sleep twice within a normal day. The need for sleep appeared to be indicated by the body's temperature more than anything else, he said.

In his current research project, Mr Wetzel is asking two groups, underground miners and open cut workers, to participate so their results can be compared.

As well, he will be looking at those who have worked in the industry for about three years or longer and comparing them with those who have worked for a shorter period.

The surveys involve, primarily, asking workers to check their own body temperatures during the day (only when they are awake; they are not required to interrupt their sleep) and injecting them with an anti-typhoid serum which, although harmless, will provide indications of how the body's own immune system is operating.

"If we can obtain more precise information about how the human mechanism behaves when deprived of normal light stimuli, we may be able to design work practices which protect the individual worker's health and benefit the employer by improving safety and productivity," Mr Wetzel said.

Chemical Engineering Retreat

Academic staff of the Department of Chemical Engineering recently "retreated" to Leura in the Blue Mountains for a two-day forum to discuss various aspects of the department's activities. The retreat was organised by Professor G J Jameson who recently took over as the Head of the Department.

The agenda for discussion covered all aspects of the department's activities and included the philosophy and ethics of higher education, the short and long term role, objectives and needs of the department, research activities and undergraduate teaching and routine administration matters.

The general consensus of all attendees was that the meeting was a great success. They said that holding intense deliberations in an away-from-it-all surroundings has definite advantages and is highly recommended.
Award Restructuring

General staff of the University are about to experience a major revision of their classification and salary structure as a result of the restructuring of the Federal Award. During the past two years all wage increases have been granted in recognition of progress towards this restructure.

We are now entering the implementation phase, and major changes will occur in mid 1992.

The complete system of classifications and awards currently existing will be replaced by a simpler system which has been negotiated on a national basis. A report by DWM Consulting Pty Ltd., commissioned jointly by the ACTU and the AHEIA (the Australian Higher Education Industrial Association), has recommended a structure of 10 classification levels, each level assessed against seven dimensions.

One instant gain is that every position has a basic description, and the criteria for progression through the levels are clearly defined. Staff for whom "Duty Statement" and "Career Path" have been empty words will note an advantage. A further benefit arises from the relativities established within the levels across the clerical/technical/professional occupational equivalents.

The DWM report also recommends that the salary range available in each of the 10 levels be expressed as a percentage (from 88 per cent at the bottom of level one, to 225 per cent at the top of level 10) of an annual wage base.

I will be happy to provide a copy of this report to interested members.

Further discussion has continued between the ACTU and the AHEIA to identify an agreed wage base. The Metal Trades Base is being considered, but whereas the unions were once negotiating for at least 100 per cent of the Metal Trades Base the universities are seeking to establish 80 per cent of that as the base for Higher Education. This matter remains to be resolved.

A further complicating factor is the declared unwillingness of the AIRO (Australian Industrial Relations Commission) to agree to make any further paid rate awards. All new awards will be expressed as minimum rates awards. AHEIA is also urging that view, and the unions argue for the retention of paid rates.

There is a rising groundswell of opposition amongst rank and file membership of the unions to the prospect of the imposition of a Minimum Rates Award. General meetings are being called in universities across the nation.

A meeting of PSA members at this University will be held on Wednesday, March 18, from 12.30 to 1.30 pm in Room EF02, the Engineering Lecture Theatre across from the Chancellery.

All PSA members who wish to preserve current paid rates, as well as those who are not willing to relinquish their 35 hour week should make sure they note the date and attend the meeting.

Ron Hunter, Chairperson, PSA Departmental Committee

Child & Family

Health Conference

The Fourth NSW Child and Family Health Conference, was held at this University during late January, it attracted a record attendance of over 500 participants from as far afield as Darwin and Auckland.

The conference theme, "Child Health Services in an Aged Society - Whither or wither?" confronted participants with the need to ensure services were relevant and effective if they were to survive in an increasingly competitive market place. The Minister for Health and Community Services, the Hon. John Hannaford, in opening the conference, stressed the importance of careful planning, which included defining desired health outcomes and ongoing monitoring and evaluation.

The organising committee, drawn from the Central Coast and the Hunter Area Health Services, were pleased to be able to attract a range of impressive keynote speakers from Australia and Britain.

Ms Jenny Macklin, Director of the National Health Strategy spoke on the implications of the review for community child health services, drawing attention to the inequalities in health status experienced by Australian children from different socio-economic backgrounds, and the need for a more integrated network of services.

Dr David Hall, a community paediatrician from St. George's Hospital, London, described the work of the Joint Working Party on Child Health Surveillance in Britain which had produced a "best buy" of health checks for young children which was being widely adopted in Britain. The schedule of six checks between birth and school entry was much leaner than those previously considered to be the norm.

Professor Fiona Stanley (Perth) spoke of the need for research in community child health and described how routine statistical collections, particularly if interlinked, could provide a great deal of information about child health needs and outcomes. Other speakers, such as Professor Brian English (Social Work, Newcastle) Dr Gay Ochiltree (Australian Institute for Family Studies) and Ms Deborah Lloyd (Behavioural Science, Newcastle), described studies which examined the needs and expectations of clients using child health services, challenging the audience to ensure services were always appropriate.

Professor Bob Kosky from Adelaide, highlighted the extent of psychiatric morbidity amongst young offenders and questioned the value of incarceration in a harsh environment as an adequate social response.

Participants rated the conference highly in terms of educational value. There are plans for a national child health conference in 1994, the International Year of the Family.
Innovative System to Replace AlleyCat

During 1992, one of the most important developments in the history of The University of Newcastle Libraries will be undertaken with the installation of a new computerised library management system. The Innovative computer system has been selected to replace ALLEYCAT, and is the outcome of an exhaustive evaluation process which occurred throughout 1991.

The underlying design philosophy to meet the complex requirements of an academic library environment was a major factor in the Libraries' decision to select Innovative. Its Online Public Access Catalogue is extremely easy to use, yet it offers sophisticated search features which are suited to the University's multi-campus environment. According to the University Librarian, Mr Bill Linklater, "...we believe that the Innovative system will offer better access to the University Libraries' collections, for users will be able to search the combined holdings of the four University libraries simultaneously. Users will also have the option to retrieve references to related works, including those of items nearby on the shelf, without leaving the computer terminal."

The functionality of the acquisitions, serials control, circulation and materials bookings modules was another important factor in the Libraries' decision to choose Innovative. The acquisitions and serials control modules are fully integrated with the public catalogue, allowing user access to the "behind the scenes" operations of the libraries. Recommendations for book purchases can also be entered directly into the system without the need to complete order cards and the serial holdings records of the Libraries will be available to the public. For example, the terminal will display the holdings detail of a particular journal title including the expected date of arrival for the latest issue, whether a particular volume is at the bindery or, if a missing issue has been reordered.

The materials booking module accepts reservations for library materials (books, videos, films etc), equipment (VCRs and projectors) and facilities, including rooms and viewing areas. The module will enable the Audiovisual Librarians to co-ordinate bookings for 4,000 videos and laserdisks, associated equipment and viewing areas located within the Auchmuty and Huxley Libraries. The materials booking module is fully integrated with all other modules. For example, when a booking is placed for a patron, Innovative checks the circulation module's "loan rule" table to ensure that a particular type of item may be booked for a particular type of patron. The system will also block the loan of an item which has been booked by another patron if the loan and booking periods overlap.

The Innovative system also offers highly sophisticated reporting capabilities that will help members of the library staff determine how well the system is meeting the needs of its users. The system will log unsuccessful searches and provide detailed statistics on collection usage which will in turn, assist with collection development and planning. Innovative's commitment to ongoing software development, its high level of system reliability and proven ability to manage large databases is unparalleled. Dr Paul Butler, Acting Director of the University Computing Services, comments that "...Innovative is designed to work in a network environment and will run on Digital hardware under the Unix operating system using industry standard TCP/IP networking protocol." The Libraries have taken delivery of the first two computers which will be used to support over 300 simultaneous users accessing a bibliographic database containing over 800,000 records. The computers will be housed in the Auchmuty Library and ultimately, the Innovative system will be accessible throughout the campus network and beyond, via AARNET and INTERNET networks. These networks will also provide access to other library catalogues throughout Australia and overseas on a 24 hour-a-day basis.

The Innovative system is installed in over 230 sites including major academic libraries throughout the United States and the Pacific rim. The system has been installed at Deakin University and is also undergoing implementation at the Victoria University of Technology and the State Library of South Australia.

The new Deputy Librarian, Mr Tony Mays, will be coordinating the Newcastle installation and it is expected that the modules will be implemented progressively over a period of twelve months. Overall the Innovative system lives up to its name, offering many technologically advanced features which are still being developed by its competitors and has a greater technological capacity to meet the requirements of the University Libraries well into the future.

Greg Anderson, Acting Systems Librarian.

Mr Bill Linklater, Mr Tony Mays and Dr Paul Butler with a DEC5000 computer - one of the machines supporting the Libraries' computer system.

Unexplained Mystery
Physico-Kinetic Phenomena or Human Faulty?

An explanation and recovery is urgently sought by the owner of an Express Courier Service package delivered to the University on February 2, 1992.

Where am I?
I was delivered to the University on the morning of February 5, 1992. I am approximately 50mm in diameter of tubular construction and 75 metres in length.

Jistpress courier service carried me safely from Darwin to The University of Newcastle, where a receipt of delivery was signed. I was given a tour of the Purchasing Department and sent back to the Store. Here I was opened and reviewed. I can reveal that I am an A1 size bromide, with a map of Indonesia - in the Indonesian language upon my surface.

Because I am a map Stores mistakenly dispatched me to Geography - or was it History -or?, being wholly unfamiliar with this environment, I cannot say where I now rest.

If you remember seeing such a package, and can lay your hands upon it, could you examine carefully the exterior surface for the rightful owners address and location. It should read, C/- Allan Morse, Department of Design.

The item in the package is of great importance, as part of a program of cultural interchange between Australia and Indonesia, for the Department of Education in the Northern Territory. The work represents some many weeks of research and graphic production and would gladly subscribe to extending the pleasure of a suitably negotiated reward to the finder.
Would you like to play in an Orchestra?
Yes? - then it’s time to consider joining the Newcastle Philomuse Orchestra.

The Newcastle Philomuse Orchestra has:
• Places for adult musicians of all abilities
• Places for all instruments
• A varied selection of music from classical to pop
• Weekly rehearsals during school term.

If you have never played before -
then you can start experiencing the joys of playing music in our Training Orchestra.

The Newcastle Philomuse Orchestra is a non profit, incorporated, community based organisation dedicated to providing adults with the opportunity to learn and enjoy playing music.
The Orchestra meets at 7.30pm every Monday of school term at Hamilton Public School Hall in Dixon Street, Hamilton.
The Training Orchestra meets before the Main Orchestra at 6pm.

For more information Phone:- Will Pinder on 561 329

NEWCASTLE PHILOMUSE ORCHESTRA INC.

Management Seminars
March 13, Dale Miller, HRM: Some Areas of Concern.
March 27, Brian Regan, A Possible Research Program to Develop Re-usable Objects for Small Business Management.
April 10, Michael Porter (Commonwealth Bank), Information Systems.
Venue: Room S203, Social Sciences. Time: 1 to 2 pm.

Geology Seminars
March 23, Assoc. Professor Bob Loughran (Geography Dept.), Drainage basement sediment budgets.
March 30, Mr Joe Whitehead (Community Programmes Dept.), California has its faults - considerations for prudent use in fault prone areas.
Venue: Room CG04, Geology Building. Time: Noon.

Research Grants (Continued from P15)
The Institution of Engineers Australia-International Conference Support Scheme
Support for selected international scientific, technological or engineering conferences.
National Campaign Against Drug Abuse.
DITAC Access to Major Research Facilities Program
To facilitate travel to major research facilities overseas. Apply at least 7 weeks before intended date of travel.
NSW Education & Training Foundation
BHP Community Trust
RADGAC - Department of Health, Housing & Community Services
Medical research and targeted research areas.
Research Management Committee Travel Grants
Research Management Committee Research Visitor Grants
Welcome-Ramaciotti Research Travel Grants
Further information and relevant application forms are available from the Office for Research - telephone 215305. This list is also circulated to all Heads of Departments on a fortnightly basis.

The University of Newcastle
Annual Convocation Dinner & Presentation of the 1991 Convocation Awards

Friday, March 27, 7 pm Southern Cross Lounge, University Union

Dr William Coleborne, the first person to receive a degree from the University in its own name after it gained autonomy, will receive a special award this year in recognition of his long and distinguished career in teaching - 31 years.

The Newton-John Award will be presented to Mrs Marjorie Biggins in recognition of her significant contribution to the artistic and cultural life of the Hunter Region, not only through her work as a broadcaster with the ABC but also through her participation in, and support of, the Arts over many years.

The Convocation Gold Medal for “outstanding professional merit” will be shared by Associate Professor Marlene Norst and Professor Ron MacDonald. Professor Norst will be honoured for her outstanding scholarship in German. She now teaches literacy and English as a second language with the Wesley Mission SkillShare Project, where she works with ex-prisoners, “street kids” from Kings Cross and migrants seeking vocational training. She has also been writing the authorised biography of Burnum Burnum.

Professor MacDonald has enjoyed an outstanding academic and research career, and is currently Dean for Research at this University. His work, mainly in the field of ion bombardment of material surfaces, has received international acclaim.

Tickets to the dinner cost $35 per person and can be obtained by telephoning The Public Relations Unit on 21 6444. RSVP: March 20. There is a limit of 150 tickets - so be early!

Newcastle Personalised Used Car Service
A HIGHER STANDARD OF AUTOMOTIVE RETAILING
• Inexpensive student cars
• Family sedans and wagons
• Executive Vehicles
• Transporatation for visitors

Quality used and new vehicles available
Telephone: 573018 LMD 4003
Around the Campus

Conjuring a Fiery Welcome!

Members of the Department of Educational Studies have recently collaborated in the publication of a text. The book, Sociology for Teachers, is designed for both student teachers and practicing teachers who are new to, or wish to explore further issues in, Sociology of Education.

Senior Lecturer in the Department, Dr Terry Lovat, who is qualified in Sociology as well as Education, edited the book and contributed a number of specialist articles. Departmental members, Dr Jennifer Gore, Jennifer Allen and Jennifer Doyle also contributed, as did Deborah Stevenson, a PhD candidate in the Department of Sociology and Anthropology.

The book is original in its format. Twenty-five specialist articles are contained within 12 discrete chapters, each dealing with a major issue in Sociology of Education.

Moreover, a guiding text, written by Dr Lovat, takes the reader through each chapter and highlights the pertinent issues for teachers within each article.

The book makes an original contribution by incorporating an introduction to the origins and conceptual world of Sociology with issues of contemporary concern to teachers and educationists. The topics dealt with range from the more traditional sociological issues of class, ethnicity and gender in relation to education, to the more radical conceptualisations of critical and poststructural theories and implications for education.


Maurie's Farewell

Mr Maurie Edmonds, having supervised the Building and Grounds Division during a period of great expansion for the University, has retired from the University.

Our picture shows Maurie and his wife, Daphne, at a farewell luncheon attended by a very large number of his friends and long-time colleagues. And, from the looks on those faces, retirement is not an unhappy prospect.

Do You Want to Broaden your Horizons?
Then Study Abroad in 1992!

The University of Newcastle has an active program of exchange agreements with a number of US universities. Applications for study at the following universities are due by April 16, 1992.

SUNY (Buffalo) - Buffalo, New York
Northeast Missouri State University - Kirksville, Missouri
Students may attend for one or two semesters commencing September, 1992.
Faculty approval is necessary for study overseas to be credited towards Newcastle degrees.

This is a great opportunity to expand your knowledge and your horizons.

For further information, please contact:
Julie Becker, Office of the Pro Vice-Chancellor (Development) Bowman Building.
Please telephone 21 6566 or 21 6575

New Book in Sociology of Education

Pictured with one of the first copies of the book are from left: Ms Jennifer Allen, Ms Deborah Stevenson, the Managing Director of Social Science Press, Mr David Barlow, Mr Terry Lovat, Dr Jennifer Gore and Ms Jennifer Doyle.

SALOME
March 5 to March 23, Noon to 6 pm
Thursday to Monday

A collection of photographs and books by Vicki Cornish and Julie Bailey.
Advertisements

For Sale

Light pink/peach leather lounge with laminated Beech timber frame. One two-seater and single lounge chairs and two foot stools in excellent condition. Asking price: $950 or near offer. Please telephone Ext. 6800 or 63 4335 after hours.

Seiko Data - 2000. It's a watch, a calculator, has two memo facilities, has optional key punch, 8 to 10 time zones, alarms, calendar and a bucket load of other goodies. In new condition with instructions and warranty. Best offer, and you'll best offer me better than $80 bucks, otherwise dad'll never forgive me. Please telephone Chris at Ext 6006 or at home on 262609.


Magic Chef elevated gas stove in excellent condition (five years old). Reason for sale - need a larger kitchen. Asking price: $300 or near offer. Please telephone 58 2240 before 8 am or after 4.30 pm. TE 12 Hilti Rotary Hammer Drill, five drill bits, one keyless chuck attachment and one carrying case. Asking price: $350. Please telephone Ext 6000 or 50 8017 after hours.

1985 Suzuki Mighty Boy (automatic). This car has been rustproofed and has been looked after by one loving owner and there is no more economical motoring. Some lucky person will get a bargain at $5,500. Please telephone Ext 5954 or 46 8269. Registration: NPJ 733.

One set of Subaru roof or luggage racks in good condition, $40; one double bedstead (Pawn Sheridan Swan) with matching curtains 2,300 x 2,900 as new, $50 (the lot). Please telephone 58 2240 before 8 am or after 4.30 pm.

Seven month old Brother electric typewriter in excellent condition. Asking price: $150 or near offer. Please telephone Ext 6198 or 33 1753.

Shoes - tan Windsor Smith Loafers (smooth for someone with really big feet, Size 12) in near new condition. Best offer, but you'd better get there quicker than a lightning bolt or my dad'll get you! Please telephone Chris at Ext 6006, or at home on 26 2609.

For Sale by Tender

The Examinations and Postgraduate Studies Department has for sale the following item: one Epson LQ2500 Printer with Hood. For further enquiries or inspection please contact Ms Lyn Corcoran at Ext

Letters to the Editor

Dear Editor,

In my stupidity I thought the purpose of the University was the pursuit of scholarship through excellence in teaching and research. I now learn that pursuit of the corporate image, as embodied by the necessity for a corporate wardrobe (Bulletin, 1/2) is of paramount importance.

Presumably the committee established to "select a suitable range of clothing" for staff will acknowledge there are no other important problems to spend its time on. The University is now also in the fashion parade business.

Will the outcome be Italian suits and dark glasses for senior administrators, and University T-shirts for the rest? I wait with bated breath.

Dr F.W. Menk, Department of Physics.

Dear Editor,

I would like to thank, sincerely, the people, to date, who have sent or promised to send me copies of computer games for IBM and Macintosh machines. You are very kind. Let me explain again why I need the games. People who use logic-based computer games transfer the skills that they develop across to other subject areas like language development, mathematics, social developments etc. The faculties of some people who have brain damage, for example, improve considerably through playing certain computer games. However, we have found that disability types - like deaf, blind, autistic, cerebral palsy, asthmatics etc. - are only vague categories if they are viewed in terms of learning ability. Two deaf children, for example, might vary considerably regarding how they learn and yet they might, perhaps, share a compensating acuteness or sensitivity to visual phenomena. Hence, for them to improve by access to computer games, they might best work with different sets of games.

Again, thank you all for your help.

Dr Roger Goodwell, Curriculum Studies.

Print File

The following are some of the articles concerning the University which have appeared in the press since February 21. Copies are kept in the Information and Public Relations Unit (ground floor, Chancellery) for perusal.

NH, Feb 24: Caution over Ausstudy loans

NH, Feb 24: Student plays half for Knights (Matthew Rodwell)

NH, Feb 25: Unbalanced reports (letter from Dr D. Rowe)

Bulletin, Mar 3: Being left-handed, by Robert Howard

Post, Feb 26: Bus services help parking (with pic)

Post, Feb 26: Nod for hostel

Post, Feb 26: Women photographers exhibit

Post, Feb 26: Work-based child care for Uni

Star, Feb 26: Pre-school gym at Uni

Star, Feb 26: Camelot comes to Uni

CRW, Feb 27: Academics fight retirement in countryside

NH, Feb 28: Professor Boettcher’s evidence at inquest

NH, Feb 28: Beware students as tenants (letters)

NH, Feb 28: Millionth book for libraries (pic, Mr Linklater)

Ind, Mar: The New Puriticism (comment Dr G. Egger)

Ind, Mar: Doctor How - examines medical schools

NH, Mar 3: Michelangelo threatens havoc

NH, Mar 4: Homelink scheme benefits mobile families

NH, Mar 4: Computer timebomb set

NH, Mar 5: Rena Shaw Gallery features graduate Jane Kenyon

NH, Mar 5: Pregnancy and birth study seeks volunteers

Post, Mar 4: Playgym begins

Star, Mar 4: New students under pressure to adapt

Star, Mar 4: Sleep study targets miners

Star, Mar 4: Opening ride for cycleway

NH, Mar 5: Marjorie Biggins wins Newton-John award

NH, Mar 6: Virus report misleading (letter from Mr Milgate)

NH, Mar 6: Uni's financial difficulties force artists to starve (letter)
GRANTING BODIES

Environmental Trusts 1992 Grants
Grants in the areas of pollution reduction, environmental restoration, environmental research and environmental education.

DEET Innovative Languages other than English in Schools (ILOTES)

The Cancer Council Travel Grants-In-Aid
Grants to meet the costs of travel to attend overseas conferences where abstracts have been accepted for presentation of work; attend an overseas institution to receive a period of training (up to 3 mths) Max $2,500.

The Cancer Council Awards for Postgraduate Education & Training in Oncology.
Funds available for educational or training programs, workshops, seminars, production of education resources. Grants of $5,000 or $10,000 will be the norm.

Commonwealth AIDS Prevention & Education (CAPE) Program.
Grants from the Department of Health, Housing & Community Services and the Australian National Council on AIDS.

Commonwealth AIDS Workforce Information Standards & Exchange (CAWISE) Program.
Grants from the Department of Health, Housing & Community Services and the Australian National Council on AIDS.

Australian Biological Research Study 1993 Grants
Limited funding for current programs: publication of the Flora of Australia, the Fauna of Australia and the Zoological Catalogue of Australia.

Task Force on Alcohol and Other Drugs in the Workplace

Workplace Demonstration Projects.
The Department of Health, Housing & Community Services.

NSW Education & Training Foundation.
Grants for Innovative Vocational Education & Training Programs

DITAC Bilateral Science & Technology Programs
For activities commencing in the period 1 Jan to 30 June 1993, with the USA, Japan, Germany, France, Peoples Republic of China, USSR, India and Mexico.

National Multiple Sclerosis Society of Australia
Support for research relevant to MS.

Criminology Research Council
Support for research projects which are likely to produce results of relevance for the prevention and control of crime throughout Australia.

Australian Kidney Foundation
Grants-in-aid for medical research.

Department of Prime Minister & Cabinet Co-operative Research Centres Program (Round 3).

Clive & Vera Ramaciotti Foundations
Grants are available in 1993 for specific projects in medical research, particularly new fields.

FELLOWSHIPS, CONFERENCES & PRIZES

Fogarty International Centre - International Research Fellowships.
United States Public Health Service. To undertake research in health related fields, in any biological or medical laboratory in the USA.

NH&MRC Public Health Travelling Fellowships
To enable Fellows to make postgraduate study tours abroad or within Australia.

NO SET CLOSING DATE

The British Council Travel Grant Scheme
Under this scheme British specialists are assisted to visit Australia. Approx 100 travel grants are awarded each year.

The British Council Academic Links & Interchange Scheme (ALIS)
Provides international airfares for the staff of universities and other degree awarding bodies in Australia and Britain to visit each other.

The British Council Visitors Scheme
Intended to assist Australian professionals on visits to the UK.

Continued P12

BULLETIN • 15
**ART ACTIVITIES 1992**

The University's Art Advisory Group Seminar, in December, reported in the Christmas issue of the Bulletin, was held to discuss future activities and directions. The group decided to host three main exhibitions for 1992:

**Tibor Wiener:** Opening Friday - 15 May, 5.30 pm, Great Hall Foyer

**Photographic Competition:** July 10 to 27 - Great Hall Foyer. This will be held in conjunction with the Art Dinner. Competition details below

**Aboriginal Exhibition:** mid-October

Everyone is invited to attend these exhibitions

Expressions of interest:

It was agreed at the seminar that the committee should be extended and that expressions of interest be invited from staff members who would be interested in either becoming a full-time member of the committee and/or would be interested in working with the committee on particular activities and exhibitions.

Becoming a full-time member of the Committee involves approximately six meetings per year to discuss acquisitions policy, including acquisition through gift and donation, conservation, restoration, rotation of the collection, and exhibition policy and program.

If you are only interested in working with the Committee on a particular activity, such as helping with one of the exhibitions or you have a specialist knowledge you wish to share you will be very welcome.

If you are interested please fill in the form below and return to Ms Christine Moch, C/-The Chancellery.

Ms Virginia Birt, Art Exhibitions Officer, is presently on maternity leave. In her absence, Ms Kate Hutchinson, Ext 6547 and Ms Christa Moch, Ext 5113 are keeping the wheels of the Committee turning. If you have any enquiries please don’t hesitate to ring.

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**Photographic Competition University People and Places**

A University photographic competition is being jointly sponsored by the University’s Art Committee, the Information and Public Relations Unit and Convocation with assistance from the Communication and Media Arts Department.

Prints can be black and white or colour - the only stipulation is that they are 25x10cm and competitors can submit more than one entry.

There will be double judging - one by a panel of judges and the other by popular vote of viewers of the exhibition.

For each entry competitors must submit two prints. The first is to be mounted on 30x25cm white board. The second print remains the property of the University and may be used in University publications.

Prizes in both judgings will be:

- First Prize, $500; Second Prize, $250; and Third Prize, $100.

Entries will be accepted until June 30, 1992 and should be handed in at the Public Relations Unit, The Chancellery.

Winners will be announced at the Art Exhibition Dinner on July 17.

So, get the cameras clicking!

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**Tibor Wiener Exhibition May 14 to 24, Great Hall Foyer**

The University of Newcastle Art Committee will be hosting a travelling exhibition of works by immigrant artist, Tibor Wiener. The exhibition has just opened at the University of Queensland and will continue on to the University of New South Wales and the Australian National University.

Wiener's paintings, although previously unacknowledged, are evidence of an interest in Expressionism in Sydney fuelled by the many immigrants arriving there during the 1930s and 1940s. Tibor Wiener was born in Budapest, Hungary in 1907. He was part of the influx of European migrants to Australia prior to the Second World War and was one of the most significant yet least recognised influences on modern art in Australia. He was a Contemporary of other immigrant artists such as Danila Vassileff, Desiderius Orban, Sali Herman, Joel Bergner, and Ludwig Hirschfeld-Mack.

Many of the Europeans were involved in expressionism and while Australian artists had knowledge of this movement through travel and magazines the immigrants added depth to their knowledge and contributed to the strong expressionist movement both in Sydney and Melbourne. Wiener arrived with his wife in 1939.

By the late 1930s Sydney artists were producing an extraordinarily diverse range of styles. Artists such as Ralph Balson, Rah Fizell, Frank Hinder and Grace Crowley were noted for their abstracted style and experimentation with Cubism and Constructivism.

In 1940 a Sydney branch of the Contemporary Art Society was founded. The Society's exhibitions included artists such as Sidney Nolan, Albert Tucker, James Gleeson, Frank Hinder, William Dobell as well as Sali Herman, Desiderius Orban and Dahl Collins.

Wiener exhibited in two Contemporary Art Society Exhibitions.

For those who viewed The Drawings of Albert Tucker at the Newcastle Region Art Gallery last year, this exhibition will add to our understanding and appreciation of the figurative expressionism in Australian art from the 1940s.

The University has in its collection some works by Wiener's contemporaries such as Margaret Olley, Louis Kahan, Harold Greenhill, Frank Hinder, Allan Gamble and Carl Plate.

The exhibition will open on Friday, May 15 in the Great Hall Foyer. Ms Katrina Rumley, the University's Art Consultant, will give a talk at the opening about the works.

Works on paper by Frank Hinder is being shown at the Von Bertouch Galleries until March 22. Also, examples of figurative expressionism works are held by the Newcastle Region Art Gallery.

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**Expressions of Interest**

| Name: | .................................................................................. |
| Department: | .............................................................................. |
| Telephone No: | ............................................................................. |

I am interested in: (please circle your choice)

(a) Joining the Full Committee

(b) Joining for a particular activity

Please specify: ..................................................

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**Commemorative Ceremony for Rob Foote**

A commemorative ceremony for Rob will be held on Thursday, March 12 at 5 pm in the Michael Nelson Room (above the Brennan Room) in the Shortland University Union. All welcome to attend.

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**The BULLETIN**

The BULLETIN is the main organ of communication inside the University of Newcastle. Published on a fortnightly basis, the newspaper disseminates campus news not only to staff and students of the University but also to graduates, community leaders and members of the media.

Copies are also supplied to students of the University Conservatorium of Music and at the Central Coast Campus.

The BULLETIN is produced by the Information and Public Relations Unit using PageMaker, Corel Draw and Wordperfect applications.

Letters to the Editor (no longer than 500 words and signed) reports on outstanding and annual research, advertisements and news stories are particularly welcome.

The BULLETIN is produced by John Miller. Please contact either John or Linda Aurelius on Extensions 6662 or 6663.