Fast-Track Building Handed Over

The University's new $4.3 million Science Building, 'fast-tracked' because of the 1989 earthquake has been officially handed over by the project constructors, Leighton Contractors Pty Ltd.

The building was completed in eight months after the Federal Government advanced construction of the three-storey project because of damage caused to the university by the earthquake in December 1989.

The building, which includes six high technology science laboratories, was not due to be commissioned until next year. However, the building was urgently needed because biology and chemistry premises on the university campus had to be closed after the earthquake repairs.

The Vice-Chancellor, Professor Keith Morgan, said co-operation between the builders and the university had resulted in the building being ready for the start of the academic year in February.

"The building was constructed by Leighton Contractors and it is a tribute to everyone involved that students were able to attend their first classes in the laboratories," said Professor Morgan.

"The speedy construction of the building was a result of a design and construction process that gave Leightons the leading role in being able to appoint architects and engineers. A quality assurance system resulted in an engineer being appointed to check every component of the building."

The Associate Director of Leighton Contractors, Mr Bill Service, officially handed over the building to Professor Morgan. He said that Leightons were privileged to have worked on a number of University buildings during the past five years and that construction was currently progressing on another two buildings on campus in addition to earthquake repairs.

He said it was pleasing to have had such a long association with the University and that he had great pleasure in handing over the multi-million dollar Science Building.

At the handing over function, Vice-Chancellor, Professor Keith Morgan accepts the $4.3M building from Mr Bill Service from Leightons.

In This Issue

- Page 2 - Developments at Central Coast Campus, Proposal to Change Semester Dates
- Page 4 - Parking Fees?
- Page 5 - Weighing in on a Research Project
- Page 6 - UNILINK Project
- Page 7 - Student Numbers Top 13,000
- Page 10 - New Opportunities for 1992
Developments at Central Coast Campus

Capital development of the Central Coast campus is likely to cost $50 million by the year 2005, the Pro Vice-Chancellor, Dr Eastcott, told the Academic Senate's May meeting.

Senate discussed a report from the Planning and Resources Committee, which included the State Education Ministry's assessment that the Central Coast was, with Coffs Harbour and western Sydney, a priority area for growth.

According to Government representatives at a recent meeting with Dr Eastcott and the Vice-Chancellor, there is evidence of faster population growth in the region than previously foreseen, and the development of the campus may have to be accelerated.

Professor Eric Colhoun, of Geography, queried whether any further capital development should take place on the current site, which he noted was unfa-vourably positioned in a hollow which must be prone to flooding.

The Deputy Vice-Chancellor (Planning), Dr Huxley, pointed out that the NSW Government had "generously" donated the land for the joint TAFE-University development.

Dr Eastcott agreed that the site was challenging, but creative solutions had been explored as part of the site master plan. Of the 80 hectares of the campus, only 15 to 20 could be used for building, but this meant that it could accommodate 7,500 EFTSUs above the line of the 100-year flood.

The University was looking to accommodate about 3,500 EFTSUs by the year 2005, with TAFE looking at a slightly larger number.

Preliminary planning had tried to estimate how much capital work would be done by TAFE, how much by the University and how much would be joint.

It now appeared in the light of their respective profiles, that TAFE and the University would be obliged to provide only about 20 per cent of facilities in their own right, with the remaining 60 per cent being shared.

This would bring down the cost per square metre from the preliminary estimates and, in 1990 dollars, the estimated cost of complete development of the site would be about $50 million.

Members of Senate were reminded that the Vice-Chancellor would report to Council soon on mechanisms for discussing a number of long-term questions facing the University, one of which was how the development of the Central Coast campus was to sit with the development of facilities at the Shortland campus and the future educational profile of the University as a whole.

Proposal to Change Semester Dates

Changes in the State school calendar for 1992 have prompted a proposal to change semester dates for the University.

Because the mid-year holiday for schools will be a week later than expected, the University proposes to start its academic year a week later than originally planned to avoid having classes during the school holiday.

This would avoid problems of equity, for those students who have school-age children, and difficulties with teaching practice.

It would also allow an extra week for admissions.

Proposal at Family Law Conference

Professor Frank Bates returned to the University in May after delivering a major paper at the VIIth World Conference of the International Society on Family Law in Yugoslavia.

Despite the delicately balanced political tensions within Yugoslavia, which caused some American delegates to withdraw, Professor Bates reported that the conference was well up to the high standards of previous conferences of the organisation.

He delivered a paper on "Minorities, Multicultural-
Finally something small from Texas

For the smallest notebook in town....... come along to Protech Microsystems' OPEN DAY

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Rankin Drive NSW 2308

Time: 10 am - 3 pm
Date: Tuesday, 25th June, 1991

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Cut out this coupon, bring it along and enter the draw for one of five Texas Instruments Pocket Dialer (value $100 each).

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Department: _______________________
Phone: ____________________________
Fax: _______________________________
The University's Physical Planning Committee has recommended to Council that it approve in principle the introduction of parking fees on campus in 1992.

The Deputy Vice-Chancellor (Planning), Dr Huxley, told the May meeting of Academic Senate that parking on the Shortland campus fell about 700 spaces short of the number demanded. If the University continued to grow as expected, it would be "a couple of thousand" spaces short by 2010.

Dr Huxley said neither the encouragement of cycling, walking, or travelling by bus, nor the staggering of class times, would have a significant impact on a problem of that magnitude.

"The time to start is now, while we have a crisis upon us - rather than waiting until we have a triple crisis," he said.

When it was noted that Dr Huxley had omitted from his list of other options the establishment of a railway station, he said the State Rail Authority had requested information based on postcodes to establish how many students lived along the Maitland line.

Examination of the parking problem led to two directions for action, Dr Huxley said: to provide additional parking spaces; and to discourage the existing level of usage of available spaces.

The first of these would have to be achieved through the establishment of multi-level carparks.

"It is possible to construct multi-level carparks through the extraction from staff and students of amounts that are relatively minor," he said.

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He was of the view, however, that this might be only to find grounds for recommending against the establishment of a station. No mention had been made of students and staff travelling from south of the University.

Dr Huxley was also critical of the persistent furphy that the University had offered to provide $1 million out of its budget to build a station. Repeating this incorrect assertion would lead only to disappointed expectations.

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Calling All Backgammon Players

Staff and students are invited to join the Newcastle Backgammon Club which has regular meetings at the University.

The club, which has been operating since 1983, has about 30 active members and meets every second Friday night in the downstairs room of the Hunter Student Union at 7 pm. Play usually commences at 7:45 pm.

President of the club, Tony Walker, a final year Bachelor (Education (Science) student, says the club has recently competed in the Australian Open Backgammon Championship in Sydney where over 300 people from Australia, Papua New Guinea, New Zealand and America competed.

He says a win in the Pan Pacific Tournament of the Championship has convinced members that they are on a par with the best in the country.

The club is basically a social club and new members are welcome.

Lessons can be provided for people who cannot play now, but would like to learn.

If you Have an Emergency Patrol Services

The Patrol Service of the University can be contacted at the Great Hall by telephoning Ext. 5729. There is also a patrol office under the Anchumity Library which can be reached on Ext. 5728.

To contact the Patrol Service urgently or in an emergency, the following are Patrol Service pager numbers.

The Procedure for Calling the Patrol Services - 24 hours, seven days a week Monitored Pager  
1. Dial 016 020 (external call to Telecom operator).  
2. Give the operator (a) Pager number which is 613123  
(b) Phone number to return your call.

The Procedure for calling the Patrol Services - Hunter Building Pager - which operates Monday to Friday 3 pm. to 11 pm.
1. Dial 016020 (external call to Telecom operator).  
2. Give the operator (a) Pager number which is 617750  
(b) Phone number to return your call.

OR

Both pagers can be contacted by telephoning the University Switchboard Operator on '9' giving the above details.

Copyright Corner

Q. I have heard about a blank tape levy. What is this?

A. The amendments to the Copyright Act in 1989 introduce a scheme under which copyright owners in material which can be taped on audio-tapes will be compensated by payment made from amounts collected from a levy imposed on the sale of blank audio-tapes. In return for the levy, anyone will be able to make a copy of a published sound recording on private premises for private and domestic use without infringing copyright.

Permissible copying cannot be done on other than domestic premises. The new provision will therefore not apply to copying within the University such as in the library or audio-visual centres.

The levy will only apply to audio-tapes, not to video tapes.
Weighing in on a Research Project

A research project being undertaken at the University will not only provide information for the researcher, but will have a healthy spin-off for participating volunteers.

The project, being conducted by the Course Director of the Bachelor of Health Science (Nutrition and Dietetics), Ms Yvonne Webb, will focus on the 'reporting' aspect of weight reduction.

It is being undertaken to investigate the role of frequency of 'reporting' to the success of an individual's attempts at weight reduction. By 'reporting' Ms Webb means regular visits to the consultant or dietitian supervising the participant's particular weight loss program.

The project, which is funded by a University research grant, will require 50 women to help in the research over a 15-week period. It follows on from a weight reduction program already developed by Ms Webb which has proved successful for a large number of individuals.

Ms Webb, who is a qualified dietitian, says the study is looking for female volunteers who are over 20 years of age, but who must be pre-menopausal, weigh between 80 and 100 kg, and who are not taking prescribed medication.

She says that for their involvement, volunteers will be guided to successful weight loss.

"The important point is that the individual is taught relevant skills for supermarket shopping, food preparation and menu selection. A large proportion of those who want to lose weight and who are unsuccessful are acting on misinformation," says Ms Webb.

"Frequent visits to a dietitian are able to sort out these problems and motivation is reinforced. Preliminary studies have shown that those visiting a dietitian every week have lost weight at a faster rate than those visiting fortnightly."

"It is hoped to attract women who have tried to lose weight unsuccessfully in the past or who have lost weight initially and subsequently gained it again."

"This is an excellent opportunity for women to learn more about their bodies and the food selection process. There is no weighing of food, kilojoule counting or buying of special 'dieting' food," she says.

Volunteers are required to pay an initial deposit of $50 for the 15-week program, which will be refunded if the participant attends all sessions as required.

The project will be conducted at the University and the numbers are strictly limited. Interested people are asked to apply as soon as possible by telephoning Ms Webb on 21 6342.

University on Show

Two major events which will put the University on show will be held later this month and in September.

The Annual Schools Visit Day, a day designed to allow senior high school students to visit the campus will be held on Thursday, June 27.

The day, which usually attracts about 6,000 visitors from high schools throughout Newcastle, the Hunter Valley, the Central Coast, the Mid-North Coast, the North Coast as well as western areas of the State, provides an insight into undergraduate courses on offer, a glimpse of University life and an orientation to the campus.

The students will be able to attend lectures, see demonstrations and talk to academic staff as well as take part in special activities arranged by the Student Union.

Organiser of the event, Adviser for Prospective Students, Ms Sandra Box, says the day not only provides information, but gives the visitors an opportunity to ask questions and see for themselves what a University campus is like.

She says that many of the senior high school students have never visited a University before and the day gives them this opportunity.

The University is planning to hold an OPEN DAY on the weekend of September 7 and 8.

Where, the Schools Visit Day is specifically for high school students, the OPEN DAY will throw the campus open to the general public and will be a University-wide expo of all the activities of the Shorthland, Newcastle and Central Coast campuses.

Co-ordinator of the OPEN DAY, Professor Tim Roberts, says the September 7 and 8 dates coincide with Engineering Week which in itself will create many interesting displays.

He says OPEN DAY will have a 'hands-on' theme and will provide a unique opportunity for the University to show its face to the general public, potential students and call together its graduates. He says not only will academic areas be highlighted, but the cultural, social and sporting life of the university will be on show as well as the University's contributions to research in many fields.

"Organisation for this important event is now getting into full swing. The last OPEN DAY was held in 1988 and was very successful, however now that we are a much larger and more complex institution, we have the opportunity to make this one even bigger and better. If anyone has any comments or suggestions to offer, I would be pleased if they would contact me," says Professor Roberts.

Technology Seminar

Department of Applied Science and Technology
Guest Speaker: Associate Professor Mark Cosgrove
Friday, June 21 at 1.30 pm. in the Hunter Building Main Meeting Room

Mark Cosgrove is an Associate Professor in Science and Technology Education at the University of Technology, Sydney (Kuring-gai Campus). He is also a member of KLAC (Key Learning Area Committee) which is responsible for the Design and Technology syllabus being introduced by the Department of School Education next year.

Professor Cosgrove will talk about his views on technology, technology education and the training of technology teachers.
The Starting of a Tradition

A tradition was "created" in the University's Southern Cross Lounge earlier this month.

The complex is a collection of small houses each containing two self-catering units (10 students to a unit) in which the major function is to provide an atmosphere and environment conducive both to the achievement of academic excellence and to the development of a happy and stable community life for the residents.

Dr Curran, the Warden of Evatt House, said the dinner was a proud moment and of particular importance because it symbolised what the staff and students of Evatt House had been aiming for and hoping to achieve.

"We've been building an idea - we've been creating something," Bernie told the gathering, which included most of the student residents, members of the new Board of Directors, University officers and staff who have assisted in the building of the complex.

"We have a marvellous group of residents, a creative group," said Bernie.

"You are defining what we are trying to create. We are building a notion of mottoes and crests. We are attempting to define ourselves through a new motto and a new crest, one of which will incorporate the University crest, the Evatt family motto and the ideas of our students. The motto that has already captured the minds of most residents is *Carpe Diem - Seize the Day!*"

The event was the inaugural dinner of Evatt House, the University's newest student residential complex which focuses on providing accommodation for students from country areas.

UNILINK Project Launched

An innovative project which will involve University students visiting their former high schools has been officially launched at a function held on campus.

The project, known as UNILINK, is designed to have the students visit their former high schools to help improve access to the University for secondary school students.

It is an initiative of the Student Equity Unit and will initially include six Lower Hunter high schools which have low admission rates in senior student years.

The schools participating in the project are Cessnock, Kurri Kurri, Mount View, Gateshead, Swansea and West Wallsend.

Student Equity Officer, Anita van der Wal, said low retention rates in senior high school years result in very few students making the transition to tertiary study.

"The project has five main aims and a major focus will be the Student Role Model program where selected and trained University students will visit their former schools to talk informally about their experience at University with Year 11 and Year 12 students," said Anita.

"The visits by the University students are designed to motivate and inform high school students about higher education as an option. We also hope to have excursions to the University campus to introduce the school students to the University environment and provide course and career information."

UNILINK was officially launched by the Chair of the Student Equity and Access Committee, Professor Brian English.

The aims of UNILINK are to:

• improve transition rates to higher education,
• provide students with practical academic skills and motivation in their Higher School Certificate preparation,
• raise academic and career aspirations of students through talks with current University students as role models
• provide information on higher education to students and their parents,
• familiarise students with the University environment,
• encourage a positive view of higher education with students and their families.

Anita said the project of the NSW Department of School Education. Other UNILINK activities would include parent information evenings in addition to campus orientations.

Retirement Luncheon

A Retirement Luncheon will be held for John Lambert, Director of the University Computing Services on Friday, June 28.

It will be held in the University Union IV (new area) with sittings at 12 pm and 1 pm.

For bookings or further details, please contact Computing Services on Ext. 5381 before June 14.

The Hunter English Language Centre

ELICOS has moved off campus and is now located at 3 Tudor Street, Hamilton.

The new contact numbers are 61 3922 and 61 3954
Student Numbers Reach New Level - 13,000 Enrol

The University has more than 13,000 students enrolled in its courses this year, an increase of about 500 students on 1990.

Figures released by the University's Management Information Unit (MIU) reveal that nearly 10,000 students are studying for a Bachelor degree and that the largest individual drawing area is Newcastle/Lake Macquarie with 6,962 students.

The University's total enrolment is 13,035 students while there are 271 additional students from overseas countries studying on campus.

The break-up of enrolments is:
- Full-time 9,291
- Part-time 3,419
- External 325; plus
- Overseas 271

The MIU figures show that 6,900 students are female and 6,135 are males.

A total of 9,985 students are studying for their Bachelor degree while a total of 1,461 are enrolled in other undergraduate courses. Students studying for a higher degree (PhD, Masters) total 617, while 658 students are enrolled in other postgraduate courses. Non-award courses account for 31 students while enabling (bridging) courses account for six students.

The survey figures are based on students' current permanent 'home' postcodes and the accompanying schematic representation details the full enrolment.

Blues & Colours Dinner

Staff and students are invited to attend the University Blues and Colours Dinner to be held on Friday, July 26.

The Dinner will be held in the University Union - Brennan Room commencing at 6.45 pm. for 7.15 pm.

Tickets are available from the Sport & Recreation Office for $28 (includes meal and table wine).

Tickets need to be purchased by July 17.
Extensions to the Wonnayba Child Care Centre on campus are well underway.

Pictured are builders, Fred McEnearney (left) and Kevin O'Neill (right) during the initial construction stages.

The extensions will allow Wonnayba 15 more places for child care available to the community and to staff of the University, bringing the total number of places to 40.

Director of the Centre, Ms Debbie Quirk, told BULLETIN that the extensions at an overall cost of $220,000 would allow better provision of badly needed child care places.

She said they had been made possible by the provision of capital funding from the Department of Family and Community Services, the University, the University Union and the Wonnayba Child Care Centre itself.

At the Graduation Ball held in the Student Union Building are Alison Walker, Paul Cornwall, Sharon and Sean Hooper.

The Graduation Balls were a huge success with more than 650 people attending.

They were held in the new Stage IV extension to the Student Union and guests were wined, dined and danced until the early hours.

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Margaret said that even though there was a lot of work attached to ordering the events, she had been very impressed with the level of co-operation from Union staff and the University generally.

"I feel that now we have had such success with this year's Grad Balls, we can look forward to even bigger and better events in future years," said Margaret.

Thailand Visitors Entertain with National Dancing

(left) Visitor from Suan Dusit Teachers' College in Thailand, Yutamart Tassayapan performing the traditional Ram Ten Baratari.

(above) A group of Thai students performing traditional basket dance for food which is known as Soeng Kra Tih Khao.

Keeping study in the family is Mrs Aileen Rowley (centre) from the Department of Clinical Epidemiology and Biostatistics with her two daughters, Erica (left) and Jacqueline (right).

Erica, a Bachelor of Medicine graduate, is now studying for a Bachelor of Arts while Jacqueline had her Bachelor of Medicine conferred on her at this year's Graduation Ceremony.
Lake Macquarie City Art Gallery

"The Collection"
June 12 - 23, 1991

For the first time, Lake Macquarie Gallery will display paintings and photographs from its permanent collections. This very special showing will be on view for two weeks only.

The Painting Collection was started in 1986 with the winners of the Inaugural Charlestown Square Art Prize, Marion Borgelt and Robert Boynes. Since then, this acquisitive art prize has attracted interest from many notable Australian artists; and art works by Janet Laurence, Gary Willis, Rodney Pople, Anthony Galbraith, Mark Titmarsh, Lindy Lee, Ruth Waller and last year's winners Ken Unsworth and John Smithies, have been added to the Collection.

The Gallery's Photography Collection was assembled early last year and includes photographs by the best photographers of the Hunter Valley.

A selection from the Collection will be on display with the paints including photographs by internationally acclaimed Eric Kimble and Stanley Piper and versatile photographers such as Gordon Dransfield, Warren Marshall and John Dorman.

Gallery Hours - Wednesday, Thursday & Friday - 10 am to 4 pm.
Saturday & Sunday - 12 noon to 5 pm.

The Lake Macquarie City Art Gallery,
Main Road,
Speers Point. (opposite Council Chambers)
Telephone 21 0382

Photocopier Art?
The fusion of art and technology creates the building blocks for a stimulating art exhibition by Nick Mitzevich at Watt Space Art Gallery from June 6 to June 24. The exhibition will be opened by the Co-ordinator of Fibre Art and Textiles at the University, Ms Jutta Feddersen on Thursday, June 6 at 7.30 pm.

Nick Mitzevich is a third year (final year) Bachelor of Arts (Visual Arts) student at the University and in 1990 was a joint winner of the Tertiary Student Art Prize at Maitland City Art Gallery.

All of the work in the exhibition has been created with the use of a Canon colour laser photocopier. Traditionally the photocopier has been used as a business machine but in this exhibition the copier's potential as an artist's tool has been exploited.

This has been made possible by the generous sponsorship of The Centre Copy Shop (Garden City), a division of Sheather and Merrigan Business Machines.

The exhibition explores new technologies while grappling with the age old fears and emotions so prevalent at the time of adolescence. It is at that crucial time we feel the need to protect and defend our developing identities from the outside world. Mitzevich's strident colour, mural sized photocopies explore these self preserving ideologies that we continue to confront constantly in the process of life.

Watt Space
11 Watt Street,
Newcastle.
Telephone 29 3900

Gallery Hours 12 noon - 6 pm. Thursday to Monday.

"Postcards From The Edge"

Watt Space is the University of Newcastle students' art gallery. A student initiative gallery supported by the University Union and the School of Art, Design and Architecture, Watt Space is celebrating its second birthday in August.

To celebrate, Watt Space plans a big party and invites you and your department (both staff and students) to take part in the birth exhibition 'Postcards From The Edge'. Please see details below.

It is envisaged that mathematical, architectural, french, literary, catering postcards etc. as well as entries from the more 'art' oriented sections of the campus. Please promote the exhibition throughout your area and TAKE PART yourself.
New Opportunities for 1992

The University is planning to introduce five new undergraduate opportunities in 1992 to add to more than 65 courses already offered.

The undergraduate programs are in Aboriginal Studies, Building (by external study mode), Environmental Engineering, Nursing and a teacher education course in Design and Technology.

The University's Adviser for Prospective Students, Sandra Box, said the programs were being extensively promoted through Careers Markets, Tertiary Information Days, advertisements, course booklets and other avenues.

"The new programs reflect the change that is occurring in our society and also the University's commitment to keeping pace with those changes," according to Ms Box.

"The proposed courses offer variation in some fields and completely new opportunities in others.

"We are already experiencing a great interest in the programs by prospective students and expect strong competition for places, especially from Year 12 students who sit for their Higher School Certificate later this year," Sandra added.

Details of the proposed courses are:

**Diploma in Aboriginal Studies**

The former Hunter Institute of Higher Education introduced the Associate Diploma of Administrative Studies (Aboriginal) in 1988 in response to very particular needs in the Aboriginal Community and as part of its commitment to the economic, cultural and social development of the Aboriginal Community.

The Associate Diploma has been upgraded to Diploma level and the aim of the course is to encourage greater Aboriginal participation in higher education through the provision of a program which is specifically Aboriginal in orientation, which takes account of Aboriginal circumstances and which will prepare students for roles in Aboriginal organisations.

The Diploma can be completed in two years full-time (or part-time equivalent study) and is divided into two strands: Administration, including legal, political and economic studies, Nutrition and Health, including nutrition, food, and community recreation studies.

It is anticipated that the majority of candidates will be selected under the University's Aboriginal special entry scheme. General admission requirements will apply to those candidates not selected under the Aboriginal special entry.

**Bachelor of Building (External)**

The external mode of the Building degree is a six-year program designed to prepare students for a professional career in either building or quantity surveying.

The degree program is structured in an integrated form of study in which all the various discipline areas are treated within the single subject, 'Building'. This integrated format applies in all six years of the course and, in each year, specific areas of study are developed. These are grouped into four study areas for the purposes of assessment.

The study areas developed throughout each year are: economics and management, communication and computing skills, professional skills and technical skills. These four areas must be capable of being applied in the context of other parallel areas of skill and knowledge.

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It is anticipated that the external course will provide an opportunity for those prospective building students to undertake a degree or upgrade existing qualifications. The course is expected to be attractive to people who, because of their distance away from tertiary institutions or work commitments, would otherwise be unable to attend university as a full-time student.

**Bachelor of Education (Design and Technology)**

This four-year full-time degree course is designed to prepare candidates to teach in the Technological and Applied Studies key learning area of the secondary school curriculum.

Basic core studies in the teaching of design and technology (with optional extension studies including Design Material Technology, Foods, Textiles, Consumer Technology and Engineering Technology) are offered as part of the course. The course also aims to prepare teachers to guide students in the responsible and creative use of resources in the context of the fragile and finite environment.

The University's Bachelor of Education (Home Economics) and Bachelor of Education (Industrial Arts Technology) have been subsumed into the Bachelor of Education (Design and Technology). Students may specialise in subjects associated with Home Economics or Industrial Arts Technology and Engineering Science in the new course, after completing core studies in Design and Technology Education.

**Bachelor of Nursing (Environmental)**

Environmental engineering has been described as the application of engineering principles to the problems arising from the interaction of humans and their environment. A major aim of environmental engineers is to ensure that ecological balances are preserved.

Environmental engineering has arisen from the realisation that many developments which have taken place in modern society have had adverse environmental effects. Some of these have been the direct result of engineering activity - but many others have arisen simply from the way society has developed without usually recognising the interplay and interaction which man's activities can have with the environment.

Past, relatively unconstrained, development activities have led to a large backlog of environmental problems which need to be solved. Many of these are small scale, but many have larger, even global, ramifications and it is these problems which are presently occupying the time of many environmental engineers and scientists. In the future society expects that large projects should be planned in an integrated fashion so that environmental damage is minimised in the first place.

The Environmental Engineering degree at the University of Newcastle will require a minimum of four years full-time or equivalent part-time study. The course aims to equip engineers with the broad range of skills necessary to carry out the investigation and solution of a wide range of environmental problems.

Accreditation of the course by the Institution of Engineers, Australia is currently being sought, and it is expected that all graduates will qualify for graduate membership of the Institution. Membership of the Institution of Engineers, Australia is the recognised hallmark of professional engineers in Australia, and the qualification is widely recognised overseas.

**Bachelor of Nursing**

The Bachelor of Nursing will prepare graduates for comprehensive professional nursing practice in a variety of health care settings, with the domain of nursing being the focus of the course.

These central nursing studies are supported by learning in the biological and behavioural sciences and the course has a strong primary health care focus which encompasses the person, family and wider community contexts.

Students receive experience in a variety of clinical settings which relate to the theoretical base of their practice. Clinical experience is obtained within the Hunter Area Health Region and adjacent health regions with opportunities existing to undertake this practice in community, country and major teaching hospital settings.

An outstanding feature of the course is the opportunity provided for multi-professional education with other health-related disciplines. On completion of this course, the graduate is eligible for registration with the NSW Nurses Registration Board.

The course will be either 3 or 3.5 years duration. Pre-requisites for entry are likely to include a Tertiary Entrance Rank of 50 or higher.
Computer Training in the Auchmuty Library

The Auchmuty Library is offering a highly successful method of training to both staff and students in the use of Personal Computers.

The system uses an advanced, optical disc-based technology known as Interactive Video. The videodisc is an excellent method of storing a variety of information, text, still pictures and moving video, and a microcomputer manipulates this information.

The trainee uses a workstation consisting of a videodisc player linked to a computer which controls the way in which the video sequence is watched. A free-standing personal computer completes the workstation, which allows the trainee to duplicate the techniques demonstrated by a personable instructor. A workbook also supports each program.

Periodically the computer offers questions to check the trainee's comprehension. If necessary, the trainee can repeat the same sequence several times until confident of retaining the material.

The use of video, text and diagrams make this method superior to conventional computer-based training packages which are often little more than computerised multiple choice exercises.

The major advantages of Interactive Video as a training system are as follows:
- It is a tension free learning environment.
- The trainee can learn at his or her own pace.
- Immediate feedback is provided.

Branching allows the trainee to take alternative routes through the same program.
- Rapid random access provides superior retrieval to videotape.
- Unlike a classroom situation, study can be repeated.
- With the best of intentions, a teacher can only provide the individual student with a small percentage of class time - the videodisc acts as a 'private tutor'.
- It can easily be integrated into the trainee's program and is always available for revision.

As in interactive program, it is superior as a training tool to videotape which is essentially passive;
- The interactive process accommodates all users.

It is now possible to learn about computers from the very basics to the most sophisticated software applications, all at your own pace, as the Auchmuty Library holds the following programs:

**Introductory - Overview of PCs**
Using Personal Computers for beginners who have little or no knowledge of computers - gives an overview of all aspects of computers and looks at word processing, spreadsheets and databases.

**Introductory - Practical Introduction to PC's**
A practical hands-on program teaching elementary aspects of using PCs, eg. creating files, copying, printing.

**Wordprocessing**
Wordperfect 5.1

**Database Management**
DBASE 111 Plus

**Spreadsheets**
Lotus 1-2-3

**PC-DOS**
PC-DOS for Hard Disks.

The Interactive Video workstations, housed in the Audiovisual Section of the Library have provided comprehensive training to hundreds of staff and students, in the use of personal computers. Staff can supply useful course outlines and objectives, for those potentially interested in using this significant and successful training system.

Please contact the Audiovisual Section for bookings or further information on Ext. 5859. All enquiries are welcome.

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Paper Planes Launch Uni into New Era

A gathering which saw about 50 staff and students take part in the University's first Paper Aeroplane Derby has created not only a great deal of interest but intense competition as well.

The unprecedented event, a paper plane competition took place in the new 550 seat Lecture Theatre CT202, which organiser of the competition, Bob Berghout, from the Department of Mathematics, tells BULLETIN was specifically built for this purpose.

Contestants were invited to enter their craft in any or all of four categories:
- The plane that stays aloft the longest
- The most aerobatic plane
- The plane that landed closest to the designated target
- The smallest plane to reach the front section of the theatre.

The panel of judges from the Departments of Education, Mathematics and Computer Science was delighted with the standard of entry and the proficiency with which contestants flew their craft, particularly since a precondition for the competition had been that no paper plane be flown in lectures.

The winners in the various categories were:
- The plane that stays aloft the longest: J Mulvogue (with a flight of 7 1/2 seconds)
- The most aerobatic plane: Joseph Kelly
- The most accurate plane: Andrew Grant (about 60 cm from target)
- The smallest plane to reach the front of the theatre: Stuart Baxter (half a computer page)
New Member of Chaplaincy Team

Father Carmagian, who is the new Catholic Chaplain and even though there are many demands on his time, he hopes to get involved in the social and cultural activities on campus.

Pictured above - Father Dom Carrigan, who is the new Catholic Chaplaincy which forms part of a comprehensive chaplaincy comprising several religious denominations.

Father Carrigan has recently returned from a sabatical visit to the University of California, Berkeley, where he completed a course at the Institute for Spirituality, which was attended by people from nine countries.

It's the first time that Father Carrigan has been a University Chaplain and, previously Novice Master at the Redemptorist Monastery at Mayfield, Father Carrigan divides his time between religious duties at The Junction and Newcastle parishes, relieving chaplain's duties at the John Hunter Hospital and the University.

"It's an interesting environment, a large community really, and I hope to have input into the university community by being available to listen to and help people. Students, particularly mature-age students, face great challenges to their values and priorities and they soon realise how human they are," says Father Carrigan.

"The wonderful thing is that so many people have this thirst for knowledge.

"One of the great features of the Chaplaincy Service is its ecumenical nature and the communication process is an extension of this," he says.

Modernisation of University Weightroom

The University Gymnasium weightrooms have undergone a transformation following the acquisition by the Sports Union of 13 new pieces of 'Magnum' weight training equipment.

The acquisition of this new state-of-the-art equipment highlights the commitment by the Sports Union to the continual upgrading of its facilities. The new equipment improves the presentation of the weightroom and ensures a high standard of safety is maintained.

The acquisition was bought with a view to meeting the requirements of those Sports Union members who have a limited knowledge of correct technique when using free weights. Some items are specifically orientated towards the individual needs of women and the Sports Union is hoping this will encourage more female students to use the weight room.

The Hunter Valley Theatre Company presents
William Shakespeare's Twelfth Night
Directed by Brent McGregor
Designed by Kym Barrett

The Hunter Valley Theatre Company is very pleased to present their first Shakespearean production for nine years, and what better way to re-introduce Shakespeare to the company than to perform "Twelfth Night", certainly one of Shakespeare's most loved comedies. In order to make the play as accessible to as many people as possible, the company is presenting a bright, modern production set in the present in the world of fashion. The designer, Kym Barrett, has provided a simple and arresting set design and a quite wonderful array of costumes for this production. Audience members will be able to relate to the characters and the play itself with ease.

The production will be played by a young and talented cast of 10, of which seven are local actors. Celia Ireland and Barry Shepherd (last seen in the production 'Daylight Saving'), Richard Davies, Stelo Nantsou, Rod Ansell, Karen Birrell and Mark Newland are all actors well known to Newcastle audiences. Anne Looby, Greg Irison and Terence Crawford will join with the local actors for this production.

Season: May 29th to June 22nd
Tuesday to Saturday Nights at 8 pm
Saturday Matinee at 2 pm
Prices: Tuesday - Thursday and Saturday Matinee $17 ($10 concession)
Friday and Saturday Nights $20 ($12 concession)
Generous group bookings are also available
Telephone 26 2526 for further information
See Shakespeare played in a way we can all understand!
In the past few years I have perceived an extremely conservative approach in many quarters to issues within this University. This became apparent in many difficulties associated with amalgamation. I believe adherence to historical values about academic work can be important, just as acceptance of the realities of modern society and economic imperatives can be. What I fear, however, is that at times, traditional values such as scholarship can be used to hide elitism, separatism and insecurity. I would hate to see contemporary economic and political policies embraced in such a way as to support the status quo or undemocratic and unpopular decisions.

As a member of the University I wish to be valuable and valued; I want to be learned and I want to support learning and personal growth both within students and my colleagues.

I also want to have a balanced life; one that not only has room for, and prizes work, but where I have room to pursue other interests, relax, spend time with precious people.

I would regret feeling pressured to do research in order to maintain my job. I do not wish to compete with colleagues in terms of research monies, numbers of publication, papers, promotion, etc.

I want to respect other colleagues' work, whether it be in administration, community activities, teaching, scholarship or research.

If there are others who share a similar dream for the future of the University, I hope you will support a model such as Aitkin's; or at least be willing to develop alternatives which will foster growth and productivity for all members of the University.

Jenelle Langham,
Lecturer,
Department of Community
& Mental Health Nursing.

The Editor,
The University of Newcastle Bulletin.

Dear Editor,
In your last issue dated May 20, Professor Hooker bemoans the University's alleged lack of a public culture and states that he doesn't know of any public lecture series ever having been conducted.

During the past eighteen years, more than one hundred thousand enrolments have been taken by Community Programmes. Many hundreds of the thousands of courses, seminars and other happenings which attracted these enrolments would meet any definition of a 'public lecture series on matters of importance'. Students continue to enrol despite the user pays disease which afflicts our offerings.

We in Community Programmes know our promotional effort is not the best-resourced side of our operation, but I really would have thought that some of it would have reached the Philosophy Department. Fair go, Cliff!

John Collins,
Director,
Department of Community Programmes.
Advertisements

For Sale

For Sale
Laptop Computer 286. 2 MB RAM, 50 mb Hard Drive. 1.44 floppy Math co-processor. Under warranty. $2,750 o.n.o. Telephone Ext. 5035 or 42 6070.

For Sale
Macintosh Plus computer including keyboard, system and utilities disks, owner's manual and guides in as new condition. Asking price $1,195. Please telephone Ext. 5170.

For Sale
Trail bike 250 cc. Good condition, unregistered. $550 (o.n.o) Telephone Ext. 6490 or 50 2166 (after hours).

For Sale
Belstaff waxed cotton bike jacket. Size 88. As new condition. $100 o.n.o. Telephone 42 1175 after 5 pm.

For Sale
Mint condition. 2 new tyres, new muffler and tailpipe. Clutch, brakes and water pump all replaced only last year. New battery. Valued at $3,300. Will take nearest offer. Telephone 42 1175 after 5 pm.

Must Sell
Macintosh Plus computer including keyboard, system and utilities disks, owner's manual and guides in as new condition. Asking price $1,195. Please telephone Ext. 5170.

Notes from the Office for Research

ANSTO and CSIRO Open Day
ANSTO and CSIRO will be holding an Open Day at the Lucas Heights Research Laboratories on Thursday, July 25, 1991, between 9 am and 4.30 pm. Scientific personnel will be staffing exhibits of: Biomedicine and Health, Advanced Materials, Alternative Fuels, Waste Management, Minerals Processing, Nuclear Physics and Technology, Computing and Environmental Studies. The HIFAR Nuclear Reactor and the Tandem Accelerator will also be open.

Admission will be by ticket only. To obtain tickets, telephone (02) 543 3168, fax. (02)543 9274 or write to ANSTO, PMB 1, Menai, NSW 2234.

Annual Reports
The following annual reports are available from the Australian Library:

Help with the Costs of Education for the Children of Vietnam Veterans

Are you the child of a Vietnam veteran? Are you thinking about enrolling or re-enrolling in full-time education next year? If money might be a bit of a problem, then read this. It may make your life easier.

The Australian Vietnam War Veterans Trust is operating a scheme called the Vietnam Veterans Trust Education Assistance Scheme (VVTES), which provides help with the costs of post secondary education for eligible children.

The Trust is initially planning up to 10 grants of $3,000 each year across Australia. Of this amount, $750 in total is to be paid in two lump sums, with the rest paid in fortnightly instalments through the academic year. This financial assistance will continue for the duration of the student's course providing they meet certain conditions.

To be eligible to apply you must be:
(a) The child of a Vietnam veteran and applying under the age of 25.
(b) Enrolled, or planning to enrol, in a full-time, post-secondary course up to first qualification level at TAFE, University, Business College, etc.
(c) Be within the means test.

The Trust is using the general rules of the Commonwealth Government's means test used for Austudy. If you receive the specified amount of Austudy or the financial circumstances would enable you to receive that benefit, you have met the means test.

Obviously, with many potentially eligible applicants and only a limited number of grants there have to be other criteria for selection. Those selected to receive VVTES will be the most deserving candidates of merit. The Trust is encouraging courses which will help Vietnam children to gain satisfying employment or to enter a rewarding career.

Applications for 1992 will open on September 1 and close on October 31, 1991. Forms will be available from the N.S.W. Regional Office of the Trust by telephoning (02) 635 1429.

Moonshine Rock at Stroud

It's been a long time since there was a regular dance at the local hall. Nowadays if you want live rock, you have to go to Newcastle or Taree. But on Saturday, June 29, the School of Arts Hall in Stroud will be the venue for Moonshine Rock, a night of live music for everyone. On Saturday, June 29, the School of Arts Hall in Stroud will be the venue for Moonshine Rock, a night of live music for everyone. Doors will open at 8 pm and the band will be Truckload of Faith from Sydney. Truckload of Faith includes singer, Robert Price (ex Australian Crawl and Rattling Sabers) and guitarist Drew Campbell (ex Stevie Wright Band).

Moonshine Rock has been planned as a monthly event to take place on the Saturday nearest the full moon. All lunatics are welcome.

Tickets $8 and $6 at the door. BYO licence only, snacks and drinks on sale. Doors close at 1 am.

For further enquiries, please contact Sue Milouin on 21 6787 (work) or 29 5781 (home).

Wanted to Buy
Sideboards, chests of drawers, hallstands, washstands, etc. Also china, porcelain, glassware, silver. CASH BUYER WILL CALL! Telephone 59 2319 after 6 pm.

Flat To Share
$72.50 per week. Walking distance to beach (Bar Beach). Non-smokers only. Please contact Sue Milouin on 21 6787 (work) or 29 5781 (home).

For Sale
Belstaff waxed cotton bike jacket. Size 88. As new condition. $100 o.n.o. Telephone 42 1175 after 5 pm.

For Sale
Leyland mini LS, 12 months registration. Good condition. 2 new tyres, new muffler and tailpipe. Clutch, brakes and water pump all replaced only last year. New battery. Valued at $3,300. Will take nearest offer. Telephone 42 1175 after 5 pm.

Books for Sale

Moonshine Rock, a night of live music for everyone.

The event to take place on the Saturday nearest the full moon. All lunatics are welcome.

Tickets $8 and $6 at the door. BYO licence only, snacks and drinks on sale. Doors close at 1 am.

For further enquiries, please contact Paul Egan (049) 94 9120.

BULLETIN • 14
### Research Grants for 1991

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

<table>
<thead>
<tr>
<th>Grant / Conference</th>
<th>Closing Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian Tobacco Research Foundation</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>Research into the relationships in Australia between tobacco smoking and health and disease</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>The Wenkart Foundation</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>Grants for clinical, biomedical and health related services</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>Arthritis Foundation of Australia</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>RV Franklin Ship Time</td>
<td>June 19, 1991</td>
</tr>
<tr>
<td>Applications for Ship Time on the RV Franklin oceanographic research vessel (CSIRO Division of Oceanography).</td>
<td>June 21, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>June 21, 1991</td>
</tr>
<tr>
<td>Scientific exchanges with the U.K. - 1992</td>
<td>June 24, 1991</td>
</tr>
<tr>
<td>Co-operative Research Centres Program</td>
<td>June 24, 1991</td>
</tr>
<tr>
<td>Second round</td>
<td>June 26, 1991</td>
</tr>
<tr>
<td>Australian Electricity Supply Industry Research Board (AESIRB)</td>
<td>June 26, 1991</td>
</tr>
<tr>
<td>Research grant support for a broad range of topics.</td>
<td>July 17, 1991</td>
</tr>
<tr>
<td>Australian Wool Corporation</td>
<td>July 19, 1991</td>
</tr>
<tr>
<td>Preliminary submissions - wool production research</td>
<td>July 19, 1991</td>
</tr>
<tr>
<td>Sandoz Foundation for Gerontological Research</td>
<td>July 24, 1991</td>
</tr>
<tr>
<td>To promote clinical and scientific research concerned with the problems of aging.</td>
<td>July 24, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>July 25, 1991</td>
</tr>
<tr>
<td>Rhone Poulenc Fellow-Grant for Scientific Visit to France - 1992</td>
<td>July 25, 1991</td>
</tr>
<tr>
<td>Australian Pattern Recognition Society</td>
<td>July 25, 1991</td>
</tr>
<tr>
<td>Digital Image Computing Techniques and Applications (DICTA-91) Call for Papers</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>DITAC International Science &amp; Technology Program</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>To assist Australian participation in international science and technology networks and collaborative research and development programs.</td>
<td>August 22, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>August 23, 1991</td>
</tr>
<tr>
<td>The Syd Lovibond Prize, National Drug &amp; Alcohol Research Centre</td>
<td>August 23, 1991</td>
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<tr>
<td>Entries from young Australian scientists in the form of a 5000 word essay.</td>
<td>August 23, 1991</td>
</tr>
<tr>
<td>Award of $1,000</td>
<td>September 19, 1991</td>
</tr>
<tr>
<td>DITAC Bilateral Science &amp; Technology Program</td>
<td>September 19, 1991</td>
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<tr>
<td>Support for international research collaboration on projects which contribute to Australia's industrial, scientific or technological capabilities.</td>
<td>September 20, 1991</td>
</tr>
<tr>
<td>The Australian Sports Medicine Federation Research Awards Scheme</td>
<td>September 20, 1991</td>
</tr>
<tr>
<td>Young Investigators Award, Medical Students Prize, Best Conference Paper Award &amp; Best Journal Article.</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>NSW Cancer Council</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>Travel Grants-in-Aid</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>NSW Cancer Council</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>Awards for Postgraduate Education and Training in Oncology</td>
<td>November 22, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>November 22, 1991</td>
</tr>
<tr>
<td>FELLOWSHIPS AND CONFERENCES</td>
<td></td>
</tr>
<tr>
<td>Arthritis Foundation of Australia</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>Rheumatology Research Awards tenable in USA, Canada and the U.K.</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>ARC International Reciprocal Fellowships with Germany</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>Reciprocal research exchange with Germany. (NB. ARC is prepared to negotiate reciprocal exchanges with equivalent research agencies from any country).</td>
<td>June 18, 1991</td>
</tr>
<tr>
<td>The Australian Academy of Sciences</td>
<td>June 19, 1991</td>
</tr>
<tr>
<td>Selby Fellowships</td>
<td>July 15, 1991</td>
</tr>
<tr>
<td>The Australian Academy of Science. For overseas scientists to visit Australia</td>
<td>July 22, 1991</td>
</tr>
<tr>
<td>Elizabeth &amp; Frederick White Conferences</td>
<td>July 22, 1991</td>
</tr>
<tr>
<td>Boden Research Conferences</td>
<td>July 22, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science, call for Proposals for conferences in Feb 1993</td>
<td>July 22, 1991</td>
</tr>
<tr>
<td>Rothmans Foundation Fellowship Scheme</td>
<td>July 22, 1991</td>
</tr>
<tr>
<td>To support post-doctoral research in any discipline. Provides salary and relocation expenses</td>
<td>August 15, 1991</td>
</tr>
<tr>
<td>The Benians Fellowship</td>
<td>August 15, 1991</td>
</tr>
<tr>
<td>To undertake study and research at St John's College, Cambridge.</td>
<td>August 15, 1991</td>
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<tr>
<td>The Harkness Fellowships</td>
<td>August 15, 1991</td>
</tr>
<tr>
<td>For study and travel in the United States</td>
<td>August 15, 1991</td>
</tr>
<tr>
<td>Sir Maurice Byrner Fellowship</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>Issues affecting Australian Police work</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>The Fenner Conferences on the Environment</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>The Australian Academy of Science, call for Proposals for meetings in 1992 or 1993</td>
<td>August 21, 1991</td>
</tr>
<tr>
<td>Nullay Foundation Fellowship Awards</td>
<td>August 28, 1991</td>
</tr>
<tr>
<td>Three month Fellowship in the U.K. - Curriculum development; teaching through Commonwealth themes, educational drama and performing arts.</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>September 23, 1991</td>
</tr>
<tr>
<td>Australian Academy of Science</td>
<td>October 25, 1991</td>
</tr>
</tbody>
</table>

Information on the above grants is contained in 'NEWS' on the VAXcluster. Further information and relevant application forms are available from the Office for Research - telephone 21 5305.
Stop Press

University academic, Professor Max Maddock, well known as the 'father of the Shortland Wetlands Centre' has been named in the Queen’s Birthday Honours List.

Professor Maddock, from the Faculty of Education, is one of 12 people from the Hunter Valley and Central Coast area to be honoured.

He has been made a Member of the Order of Australia for his services to conservation and the environment.

Professor Maddock described the honour as very pleasing, especially that his work had been recognised, but stressed that he regarded it as recognition of the work of a lot of people who have been involved with the Wetlands Centre since its establishment.

The Bulletin

The Bulletin is published fortnightly by the Information and Public Relations Unit of the University of Newcastle. It is produced using PageMaker, Corel Draw and Wordperfect 5.1 and printed by the University’s Printing Department.

Reader’s contributions are most welcome.

Advertisements are accepted free of charge from members of the University.

Letters to the Editor should be no more than 300 words and must be signed.

The BULLETIN is being edited by Cae Pattison who can be contacted by telephoning 21 6457 or Linda Aurelius on 21 6463.

The Unit’s Fax No. is 21 6400.

NEWS IN BRIEF

Mr George Souris, the member of the University Council elected by the Legislative Assembly, has been appointed Minister for Sport, Recreation and Racing and Minister Assisting the Premier.

In his role as Minister Assisting, Mr Souris has special responsibility for a range of microeconomic reforms, particularly in regard to the State Bank, the Electricity Commission, Graincorp and the Government Insurance Office.

The Last Word

During a congratulatory speech at the Graduation Ceremonies held recently, the Vice-Chancellor, Professor Morgan, remarked that he was in a perfect position to notice the expressions of the graduates as they had their degrees conferred and diplomas awarded to them.

He said that he wasn’t sure if some wore expressions of pleasure or expressions of relief, but was pleased that all reflected the satisfaction of success.