V-C'S CHRISTMAS MESSAGE

The coincidence of Christmas and the end of the academic year is happy at least to the extent that there are grounds for celebrations. The season of carols and presents is one which can be enjoyed from the rigidities of timetables, classes and schedules by the extensive days of vacation. It may be dangerous to pursue the analogy between Christmas with its now intrusive commercial face and the publication of the Commonwealth funding and planning figures for the future triennium. While the numbers provided by the Commonwealth are in line with our expectations and confirm our program of continuing growth, the old rhyme retains an engaging relevance:

Christmas is coming, the goose is getting fat.
Please put a penny in the old man's hat.
If you haven't got a penny, a ha'penny will do;
If you haven't got a ha'penny, God bless you.

The children of Wonneybah Child Care Centre are trying to be really good in the last few days leading up to Santa Claus's arrival. In this photograph of Christmas on the campus, there are (left to right): Claire Brinkley, Sarah Proust, Ben Crebert (reaching up), Kiera Parr, Roshan Proust and Scott Webb.

The tradition of Christmas is one of celebrating the opportunities presented for the future. The future is always the proper concern for those of us who work in Universities. We have good reason to be confident of the future embodied in those students who are to enrol and graduate from the University. It is perhaps only at Christmas that we can pause and recognise the privilege we shall enjoy in working with them.

Not all aspects of university life retain recognisable privilege. But challenge, opportunity and excitement remain evident. University life should always reflect intellectual excitement and we should clearly expect to continue to live in interesting times.

So let us celebrate our achievements, enjoy the season, and look to the future with some confidence.

My best wishes go to all members of the University for Christmas and the New Year.

Merry Christmas and a Happy New Year.

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Medal for 'outstanding work'

Professor Graeme Jameson's research team received the pre-eminent Australian science award, the CSIRO Medal, in Sydney on November 27.

Professor Jameson was presented with the medal by a member of the CSIRO's Board, Sir Gustav Nossal for 'outstanding scientific work'. CSIRO Medals were awarded to five research groups - four from within the CSIRO and one from outside.

Professor Jameson, Professor of Chemical Engineering, invented the technology for the Jameson Cell, a radical new device which increases the recovery and grade of valuable minerals obtained from rock and works up to 15 times faster than conventional flotation equipment. Both its capital cost and energy requirements are low.

In addition to its uses in mineral processing, the Jameson flotation cell will tackle problems of waste water treatment, a significant environmental concern today. The process will also find applications in the production of clean coal, leading to more efficient energy production.

Professor Jameson's research extends back over 20 years.

After applying for a provisional patent in 1986, he began work on a test cell at Mount Isa Mines in 1987.

During the next two years, Mount Isa Mines staff collaborated with Professor Jameson in carrying out tests and in subsequent work. The company is now operating several cells at its Mount Isa and Hilton sites.

Newlands Coal Pty. Ltd saw the potential of the technology for recovering more coal during coal washing operations, which produce waste streams of fine coal in water.

Pilot plant trials demonstrated the superiority of the new method in comparison with conventional cells and also provided data for the design of a full-scale plant. The waste coal now recovered is worth about $10 million a year in exports.

MIM Holdings Ltd has been granted exclusive rights to manufacture and market the Jameson flotation cell for metallurgical purposes. The

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Europe, with tests being Ltd. patents are owned by TUNRA and for the flow of license already been obtained.

Sir Gustav said the work of the five winning research groups impinged directly on the economic, social and environmental well-being of Australia.

The science being showcased here today is all refreshingly relevant, he said, and the scientists involved should be congratulated for this.

'Science and the environment, which in the past have often been seen as being almost at opposite ends of the spectrum, are now thankfully recognised as being inextricable. Scientists now are just as much allies of the environment as they are of industry.

Sir Gustav said excellence in science now meant excellence in environmental quality, excellence in economic potential and excellence in social relevance.

In the past year, we have also seen the profile of science lifted considerably. We have seen it become a political issue at the highest level.

The Federal Government has acknowledged that Australia needs science to survive and prosper. The Prime Minister, launching his party's policy during the election campaign, spoke of the need for Australia to become the clever country.

It is a call which has been taken up by many, and one which shows how far the debate has come. Australia is now realising science is an investment, not a charity', Sir Gustav said.

At the CSIRO Medals presentation ceremony are some members of the Jameson Cell research team (left to right): Dr N. Ahmed, Professor G. Jameson, Dr N.J. Johnson and Dr E. Manlapig (Mount Isa Mines Ltd.), Mr J. Richards and Mr T. Farrugia.

The Bulletin

After 21 issues in 1990, the newspaper's 20th year of publication, the Bulletin is closing down over the Christmas/New Year holiday period and will resume in February, 1991.

We are the prime outlet for news of developments on the campus and offer again to print all the news 'that's fit to print', whether it be a report of a meeting, an interesting visitor, a letter to the Editor, or whatever.

To members of the University and others who have helped us we say thanks.

We wish everybody a merry Christmas and a happy and relaxing holiday.

Business award won by Professor Williams

Professor Alan Williams, professor of management, is one of the winners of the inaugural Small Business Research Awards.

The Minister for Small Business and Customs, Mr David Beddall, announced that awards of $6,000 would be made to Professor Williams and the other winner of a Small Business Research Award, Professor Scott Holmes, Professor of Accounting at the University of Queensland.

Mr Beddall said the report of the House of Representatives Standing Committee on Industry, Science and Technology, Small Business in Australia: Challenges, Problems and Opportunities, had highlighted the possible existence of a 'finance gap' between borrowing costs faced by small and large firms.

He said Professor Holmes' award would be used to extend his ongoing investigation of the extent of this gap and its impact on small businesses, many of whom were struggling under the burden of high interest rates.

Professor Williams would use his award to extend his well-known and highly regarded work in the area of job generation to determine to what extent small businesses generated relatively large numbers of unskilled part-time or casual jobs.

'A major goal of all national governments is the maintenance of high levels of economic growth and employment.

'Widespread research in Australia and overseas has pointed to the capacity of the small business sector to deliver high employment growth.

'Despite the size of this very considerable research effort, little is known about the types of jobs and the skill requirements of the jobs generated by small businesses.

'At a time when Australia is trying to become the "clever country", with predominantly skilled, well paid, high value added jobs for its workforce, this research promises to be of considerable value for policy makers', Mr Beddall said.

The annual awards are sponsored by the Small Business Research Unit of the Bureau of Industry Economics and the Small Business Unit within the Department of Industry, Technology and Commerce.

Are you experienced in the Management of Scientific Research and interested in living in Kakadu National Park?

If so, you will want to find out more about the two positions that are currently vacant at the Alligator River National Park?

We are seeking suitable applicants for both a

Senior Scientific Manager and an

Executive Officer

For more information please contact

Dr A. Johnston
Ph (088) 79 5700
University Women's Bursary

The University has been awarded the prestigious Australian Federation of University Women ACT Bursary for 1991. The bursary will be held by Mrs June Roberts-Thomson (BSc Honours 1990).

Mrs Roberts-Thomson, who is pictured below, worked in the Department of Biological Sciences and completed a thesis entitled "Evolutionary Genetics using single and multiple locus probes."

She will receive free board and lodging for up to four weeks at Ursula College at the Australian National University. She intends to work with Dr Ken Reed, of the ANU, next February.

Dr Reed is a specialist in DNA research techniques. He brought into popular use several procedures for analysing DNA from human cells, one being, the use of a solution of skim milk to stop non-specific reactions. The earlier solution commonly used to stop non-specific reactions was a 'witch's brew', which included salmon sperm DNA.

While working in Dr Reed's laboratory, Mrs Roberts-Thomson will specialise in work associated with the PCR (polymerase chain reaction), the technique which enables a single molecule of DNA to be replicated millions of times within half a day.

The technique is of importance in laboratory studies of DNA and in forensic work where only a small amount of DNA might be available, such as in a blood or semen stain.

Mrs June Roberts-Thomson

The new extension of the Shortland Union (Stage IV) is expected to be ready for use by the start of first semester next year (February 25).

Being build at a cost of $2.5 million, the extension provides additional seating for 450 people and allows the full integration of food services in the Shortland Union.

An inspection by the BULLETIN showed that the special design features of the old Union have been preserved by the continued use of large trusses, original Muswellbrook bricks and the maintenance of the pitch of the roof.

The General Manager of the Union, Mr John Broughton, said the completion of Levels 1 and 3 of the Stage IV project had been deferred because of the need to urgently consider extensions to the Hunter Union.

The BULLETIN saw evidence of good progress having been made on Stage IV in the latter part of this year after the long delays caused by rain.

A major feature of the extension is the self-service salad and sandwich bar on Level 2, where members of the Union will be able to make their own sandwiches, rolls, salads, etc. The inclusion of facilities for Lebanese and pasta meals and fresh fruit juice should, if current trends are reliable, make this a very popular service.

An additional kitchen and wash-up room have been incorporated in the design to meet additional demand and relieve chronic overcrowding in existing service areas.

Mr Broughton said the extensions would connect with the existing dining room (McLarty Room) by the installation of an operable wall. This would permit the Union to cater for a maximum of 1,000 seated people.

Access to the new dining room will be via a ramp leading from the Union car par, two sets of stairs from the eastern side of the building and, internally, via the Galleries.

On level 3 of the building (the mezzanine floor), the new facilities include a members' lounge and meeting rooms, with a spectacular view over part of the University's bushland.

Level 1 comprises a large vacant space at this point.

Mr Broughton said the planned facilities, including a theatre and a 'footbridge' coffee lounge (adjacent to the proposed footbridge), were quite some way off—at least until problems at the east campus were resolved.

The Union Board congratulated the architects, Valentine and Dick, for preserving the character of the building and applauded R. W. Black Pty Ltd, the builders, for having worked expeditiously after the frustration caused by the inclement weather and being on target for completion by February 15.

Also, Frosts Equipment have provided invaluable assistance in the selection, supply and installation of specialist catering equipment.

The nearly-completed extensions to the Shortland Union are shown in the photograph below.

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Phone (049) 62 0911

1991 Schools Visit Day
Thursday June 27

The University will be hosting the 1991 Schools Visit Day on Thursday June 27. The programme for 1991 will include introductory lectures on some disciplines; talks on course content; and, visits to laboratories, workshops, libraries, etc.

The Schools Visit Day Coordinator will be contacting members of the University staff early in 1991 seeking their assistance with the activities planned for Schools Visit Day.

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Dear Editor,

The Student Representative Council, at its last Council meeting, discussed the imminent closure of University Village and passed the following motion:

That the University be required to state in writing -
- why 'the Village' is to be demolished,
- why the University chooses to demolish accommodation on campus until such time as alternative accommodation is available,
- that we demand that the Village is retained until such time as the level of permanent accommodation on campus reaches the state average.

It is the view of all student council members that the accommodation problems of Newcastle prior to the earthquake were of such a level that it warranted the placing of some form of accommodation such as the village on campuses and that the earthquake just exacerbated an existing problem. Therefore, the student association finds it intolerable that the University is removing accommodation that to all intents and purposes is only partially relieving an outrageous situation where students of this University cannot find appropriate affordable accommodation in the Newcastle area.

Christopher Toll,
President,
Students Representative Association

Dear Editor,

I wonder how many of your readers are aware of the health benefits of exercise on campus.

10 minute exercise periods, there can still be marked improvements in heart-lung fitness over a period of eight to 10 weeks.

By encouraging everyone to leave their cars and walk from one end of the campus to the other three times a day (for meetings, lectures, library research etc.) the health of the University community could be significantly improved. Of course, walking takes time, and for this reason some agreement should be reached concerning starting and finishing times for lectures.

Could there be an official policy that all lectures begin at five minutes past the hour, and end at 10 minutes to the hour? There would then be time for brisk walking between all the major lecture theatres on campus.

In view of the potential health benefits, the University should encourage this form of 'incidental' exercise on campus by providing safe walking tracks to link all corners of the campus.

For the exercise enthusiast, and those who are worried about rising fuel prices, the University could also encourage the use of human energy to get to and from work, by providing cycle racks and shower facilities in every teaching area.

Such investment in the health and fitness of the campus community could have long-term economic benefit for the University in terms of employee absenteeism and performance.

Wendy J. Brown
University Re-entry Fellow,
Faculty of Medicine

Dear Editor,

I would like to caution members of staff regarding the apparent ad hoc editorial policy of the Newcastle Herald regarding publication of letters. Recently I submitted a letter to The Newcastle Herald (8/11/1990) in which I commented that the decision by NIB health fund to withdraw psychological services from its schedule while retaining trichology was contrary to this policy. I was also asked my home address. Assuming that was for administrative purposes I offered it. The original letter was signed 'Lecturer, Department of Psychology, The University of Newcastle' and the letter was printed on university letterhead. The letter appeared with my home address and there was no mention of my affiliation with Newcastle University. Upon enquiry, I was informed that it was policy not to publish under institutional banners. I told him of two recent instances of letters from professors at my university contrary to this policy. He then stated only 'heads of departments' were thus published. I informed him that neither of these persons was head of a department. The matter was left unresolved.

As a result of this action by the Herald, my family received several threatening calls in response to my letter. As far as I was concerned, the weight of the letter was diminished. At no time was I told that the letter would be published this way. Had I been told that the letter would be published from my home address, I would have withdrawn it.

Richard Brown
Department of Psychology

Alison Kinder
President
University of Newcastle

L E T T E R S
World Bank Mission

Assoc. Professor Ross Telfer, Director of the Institute of Aviation, spent two weeks in Uganda in November as a consultant to the World Bank's mission to restore the education system in the country.

Professor Telfer worked with another Australian, Dr Jim Farrell, formerly of the University of Queensland, on the training of school inspectors.

He said that since Idi Amin's coup in January, 1971, Uganda had experienced virtually nothing but political instability and as a consequence the education system was a shambles.

'More than 40 per cent of the children are not able to go to school because only 18 per cent of children managed to reach first year at high school,' he said.

'The salary of a teacher is 3,000 shillings a month, which is $6. To obtain teachers, the salary has to be supplemented by members of villages, who also have to build their own schools.

'Class sizes are enormous and I saw one teacher controlling a class of about 90 children.'

Professor Telfer said the Ugandan Government was, unfortunately, achieving some improvements. Last year had seen a five per cent increase in the growth national product. As for the country's schools, the government was carrying out a close scrutiny of the network and a white paper on education for national integration and development would be released shortly.

Professor Telfer and Dr Farrell presented a workshop in Kampala, Uganda's capital.

About 40 teachers were trained to be school inspectors and to train inspectors themselves.

'We spent very long hours in front of the group, which was made up of very enthusiastic and committed educationalists.'

Footnote: A letter to Professor Telfer from the Chief Inspector of Schools for the Ministry of Education in Uganda thanks him for the consignment of books which was contributed to the Ministry's library.

Professor Telfer said that with assistance from Mr Phil Foreman, Howard Bridgman and John Schiller, he had been able to send seven boxes of books to Uganda by surface mail. The books arrived while he was in Uganda and, because of the great shortage of reading material, the donations had created considerable goodwill for Australia and the University.

The school inspectors who attended the workshop in Kampala, Uganda. Professor Ross Telfer is the first on the left in the third row.

Occupational Health and Safety Groups

For the information of members of the University, the BULLETIN reports the establishment of the Biohazards Technical Sub-Committee, the Chemical Hazards Sub-Committee and the Radiation Sub-Committee.

Every one of the sub-committees is an advisory body to the Occupational Health and Safety Committee.

Biohazards Technical Sub-Committee

This group monitors experimental work that involves the use of infectious agents, or their products, and implements guidelines for the supervision of recombinant DNA experiments.

In addition, the sub-committee has a responsibility in those areas of University activities where staff, or students, may be unwittingly exposed to biohazards.

Members of the Bio-Hazards Technical Sub-Committee are: Assoc. Professor R Barry, Assoc. Professor L Tannock, Dr S Beveridge, Dr R Rose, Miss H A Wilson and Ms D House.

For further information, please get in touch with Professor Barry or Miss Wilson.

Chemical Hazards Sub-Committee

Awareness of the toxicity of certain chemicals has grown in the past few years and all workers using chemical reagents should be aware of their hazardous properties.

One of the functions of the Chemical Hazards group is to ensure that all persons using chemicals understand the conditions under which they can be safely stored, used and disposed.

Research grant applications involving the use of potentially hazardous chemicals are referred to the Committee to ensure that safety guidelines are met. The chemical safety implications form, to accompany the application, is currently being modified to request more specific information.

The advisory and helpful nature of the sub-committee is to be stressed. Anybody who has doubts about the potential dangers or otherwise of chemicals they are using or plan to use should find the committee willing to offer advice.

The following are members of the group: Dr S Beveridge (Applied Sciences), Assoc. Professor K Bell (Chemistry), Mr M Stroud (Education), Mr P Dewey (Occupational Hygiene), Mr P White (Applied Sciences) and Miss H A Wilson (Occupational Health and Safety Officer).

Professor Bell and Miss Wilson are also able to provide further information.

Radiation Sub-Committee

The sub-committee comprises: Dr D Kay (Biological Sciences), Dr S Beveridge (Applied Sciences), Assoc. Professor D Flowis (Medicine), Dr P A McGovern (Physics), Dr A Shah (Applied Sciences), Dr G Pang (Pathology), Dr J Falconer (Reproductive Medicine) and Miss H Wilson (OCH&SE).

The contacts are Dr Beveridge and Miss Wilson.
Recent years have seen a growing awareness of the complex interdependence between processes that affect life on Earth and the Earth’s environment.

Since the Earth is immersed in the Sun’s outer atmosphere, attention has therefore focused on understanding the solar-terrestrial interaction.

This is one objective of research conducted by the Space Plasma Waves Group in the Department of Physics.

The group comprises Assoc. Professor Brian Fraser, Dr Fred Menk, Dr Hedley Hansen, seven postgraduate students, an Electronics Senior Technical Officer, Mr Peter McNabb and a Computer Programmer, Mr See Heng Lee.

All members participate in field work and related activities, including installing and servicing instrumentation at locations as far apart as Antarctica and India.

The group is supported by funding from the Australian Research Council (ARC), the Antarctic Science Advisory Committee (ASAC), the University’s Research Management Committee and Research Infrastructure Support.

Microscale magnetic perturbations are generated by instability processes associated with the interaction between solar wind particles and the interplanetary magnetic field, and the Earth’s magnetic field. These propagate in near-Earth space as plasma waves.

The Space Plasma Waves group has developed networks of sensitive magnetometers to detect and study the characteristics of these ultra-low frequency (ULF) waves. One array is operated at the Australian and New Zealand Antarctic bases in conjunction with the respective Antarctic Divisions. The ULF waves are digitally recorded and data transmitted to Australia via satellite.

Other magnetometer arrays have been established in eastern Australia and New Zealand, as shown on the map. Millisecond timing at all these stations allows the propagation of wave energy across large distances to be studied.

Of particular interest are wave properties such as power, phase and polarisation, which relate to the physical mechanisms associated with energy input to the Earth’s plasma environment. Data analysis typically involves examining spectral crosspower and crossphase properties and relating these to models of ULF wave generation and propagation in the magnetosphere.

Nearly all of the magnetometer systems used for these experiments were designed and constructed by the group. Similar systems have been developed for overseas agencies on a co-operative basis.

The Plasma Waves group is actively participating in several international scientific programs.

Two of these, the Solar Terrestrial Energy Program (STEP) and Geospace Environment Modelling (GEM), involve global operation of ground observatories and dedicated spacecraft missions. Satellite wave and particle data provide in situ information on plasma processes associated with the formation of the ULF instabilities.

Australia plays a key role in these programs by providing the main southern hemisphere contribution at latitudes spanning equatorial to polar regions. This is important because of the global nature of these studies.

The increase in solar activity during the peak in the present solar cycle emphasises the coupling between the outer atmospheres of the Sun and the Earth.

Large magnetic storms, like that in March, 1989, are caused by flares and other solar disturbances. These result in operational difficulties with Earth orbiting satellites, such as stray command signals, corrupted communications and orbital perturbations; large scale disruption to terrestrial cable and radio communications and navigation systems; shutdowns of power distribution networks (in North America and Scandinavia); and increased corrosion of long oil pipes.

Other effects include variations in atmospheric ozone concentration in response to fluctuations in the solar radiation input.

The map shows the location of ULF wave recording stations operated by the Physics Department in 1989 and 1990.

The map shows the location of ULF wave recording stations operated by the Physics Department in 1989 and 1990.

(Left to right): Mr Peter McNabb, Mr Hedley Hansen, Mr See Heng Lee (seated), Professor Brian Fraser and Dr Fred Menk.
NOVOCASTRIAN GETS ‘BIG BREAK’

A young jazz pianist and composer who hails from Newcastle and who was featured in the Special Education Centre concert at the University last October has received a $20,000 Nescafe Big Break Award.

Mr John Foreman was one of 400 Nescafe Big Break Award nominees judged by a panel of leaders from diverse fields such as literature, classical music, rock and roll, theatre, science and inventing, sport, dance, film, business, fashion, visual arts and community affairs.

The judges named six young Australians, including Mr Foreman as winners of awards.

Mr Foreman, a son of the Director of the University’s Special Education Centre, Dr Phil Foreman, intends to use the $20,000 to record his own jazz CD.

‘I want to make jazz more accessible to young people’, he said. ‘The best way I can think of doing this is to record with other musicians my age.

‘Getting the CD out would make a real impact on how young people think and feel about jazz, as well as showing them that you haven’t got to be old to enjoy this kind of music. It would be jazz written and performed by youth for youth’.

Mr Foreman started to play jazz publicly with the band Blues By Five in Newcastle. The band was formed by students of Kotara and Toronto High Schools.

He transferred to the Sydney Conservatorium of Music High School and, after achieving a very high mark in the HSC, played in symphony orchestras, rock bands and jazz groups. He has played with and arranged for Don Burrows, James Morrison and other leading jazz musicians.

Incidentally, the proceeds of the Special Education Centre Concert were more than $500.

Dr Foreman said another winner of a Nescafe Big Break Award, Ms Vanessa Whichello, of Adelaide, originally came from Newcastle.

Ms Whichello, who has a crippling disease which limits her muscle control to her left thumb, will use the $20,000 to purchase a special computer to enable her to write her autobiography.

Dr Foreman said that for a period Ms Whichello was taught by the Special Education Centre in her parents’ home at Wallsend.

BALSAS WOOD BRIDGE

The Department of Civil Engineering and Surveying held a competition amongst students in mechanics and structures for the construction of a bridge made out of balsa wood.

Pictured with the winners of the competition are (left to right): Mr Dustin Hansen of Swansea, $20; Mr Tyronne Smith of Rankin Park, $40; and Mr Anthony Gray of Singleton, $70 first prize – is Professor of Civil Engineering, Professor Rob Melchers.
Friends of the University

The Vice-Chancellor told Academic Senate about the decision of The Friends of the University to provide scholarships for honours students of the University.

He said the support group had for some years directed the proceeds of triennial Book Fairs to some aspects of the University's work.

Initially, $30,000 would be contributed to establish Friends Scholarships.

Vice-Chancellor's visit to Japan

Professor Morgan visited Japan as a guest of the Australia-Japan Foundation and had discussions with people from a number of institutions, including Kumamoto and Yamaguchi Universities.

He said he would distribute information about the institutions which wanted to have exchange agreements with the University.

"Japan is particularly interested in having links with universities such as ours which have a strong commitment to Japanese studies", he said.

APRA Scholarships

The Deputy President, Professor Ron MacDonald, reported that the University had been awarded four APRA scholarships. This was an excellent result and the University was placed ninth on the list of higher education institutions which granted the postgraduate industry scholarships ($13,504 to $17,427 a year, plus allowance).

He said the University had also been awarded 263 HECS scholarships.

ARC Funding

The University received a 24 per cent increase in ARC grants this year, compared with an increase of 27 per cent for New South Wales universities and an increase of 32 per cent for Australian universities.

The University was granted 2.54 per cent of national ARC funding this year as against 2.7 per cent last year.

These returns are shown in a report on big grants, small grants and equipment grants made to the University by the ARC presented to Academic Senate. This year the University was awarded grants of $2,193,000 by the ARC.

It was reported that the University was ranked 13th in its capacity to attract ARC sourced grants.

The Dean for Research, Professor Geoffrey Kellerman, said there was an absolute need for researchers from the University to submit their applications for research grants as early as possible and to maximise their chances of success by compiling a professional application.

The Vice-Chancellor said the amount of NH&MRC grants provided was approximately $1,600,000 which placed the University 10th in the list of universities.

It was reported that applications for the next year's round of research grants would close in February (ARC, February 11, and NH&MRC, February 18).

A-V Copying

The Pro Vice-Chancellor (Development), Dr Les Eastcott, has developed procedures for the centralised copying of audio-visual material so that the University can respond in a co-ordinated manner to the new requirements concerning audio-visual copyright and copyright fees.

The Planning and Resources Committee reported that the procedures should lead to the making of a minimum number of copies of broadcast material, accessibility to that material and a user-pays cost arrangement. Details of the new procedures would be circulated within the University.

Members of staff were reminded that they must not use privately made videos in their teaching programs.

November Academic Senate

Copyright Column

Q: Is it true that, in copying material for University courses, there is a difference between the works of a living author and those of a dead one?

A: Yes, there may well be a difference. As long as copyright exists in a work the amount that can be copied under the statutory licence scheme is restricted to the limits mentioned in the AVCC/ACDP Copyright Guide. However, copyright does not exist for ever. It lasts only for 50 years after the end of the year in which the author died. After this period of time no copyright protection remains in the author's works and so they may be copied freely.

The works of Shakespeare, Virgil, and Mozart, for example, are now in the public domain and can be copied without infringing copyright. The works of Einstein are not yet out of time so as to enable unrestricted copying whereas those of, say, Newton, are.

One word of caution. Copyright will also exist in a particular published edition of a work quite separately from the material it contains. This copyright subsists for 25 years after the end of the year in which the edition was first published. So dealing with a recent edition of the works of Shakespeare will continue to be restricted by copyright whereas there is no such restriction concerning the same plays in an edition more than 25 years old.

Address your copyright questions to Mr Lionel Farrell, Director of Legal Services, in the Hunter Building - in writing please.

MUSIC LOVERS GIVE SUPPORT

The Newcastle Music Lovers' Club continues to support the University Conservatorium of Music's T.H. Naisby Memorial Scholarship. The club started with a donation of $200 last year and, on December 3, provided a boost of $300.

The T.H. Naisby memorial Scholarship commemorates well-known Conservatorium graduate, poet, school music adviser, critic and broadcaster, Tom Naisby, who died in 1989.

A young music student will receive training at the University Conservatorium with the help of the scholarship. The total sponsorship required is about $10,000, of which $2,300 has been raised so far.

Newcastle Music Lovers' Club meets at the Conservatorium monthly. The next meeting will be held on March 12.

Music Lovers' President, Mr Spiro Koutts, and Secretary, Mr John Allen, are pictured presenting the donation to the Dean of the School of Music, Mr Michael Dudman.
A gentle reminder

Heads of Departments and Divisions who have been given a reminder that information for the 1990 EEO/AA Annual Reports should be sent in to the EEO Unit as soon as possible.

The EEO Co-orderator, Ms Susan Jones, said a number of responses had already come in, reporting achieve­ments towards EEO. Ms Jones said:

The Department of Sociology had done particularly well this year, with the ap­pointment of Professor Lois Bryson to the Chair of Sociology, the appointment of a woman to a Senior Lecture­ship, promotion to a Senior Lectureship and a reclassification from contract to ten­ured lecturers.

The School Board of the School of Education had appointed two women to its Executive to reduce the gen­der imbalance.

The Department and Faculty of Architecture was en­deavouring to convert some part-time funds into a fractional appointment in the hope of attracting a female lecturer (it had had no female applicants for the three aca­demic positions it advertised this year).

Ms Jones said: 'This problem - of no, or very few, female applicants - is one for many departments, so we need to be looking for creative solutions at the recruit­ment/job design level'.

Another problem identi­fied by a number of academic departments was the lack of a new classifi­cation level of departmental secretaries she said.

Heads of Departments recognised the valuable role performed by these people and believed - as did the EEO Unit - that their skills and abilities warranted a higher classifica­tion.

It was to be hoped that award restructuring would give us an opportunity to do something about it.

Ms Jones said several other departments - Cultural and Curriculum Studies, Fine Art, Civil Engineering and Surveying - had all been able to indicate significant support for staff in one or other of the EEO target groups.

A couple of responses were less helpful and had shown that some Heads of Departments still found it difficult to accept EEO as a University policy. For one Head of Department responded, by way of a memorandum, at­acking the EEO policy as 'totally unrealistic and out of contact with the reality of the University' because it cannot assist researchers to have better access to research funds.

Ms Jones said the EEO Unit was in sympathy with the frustration of researchers, it was hardly fair to attack EEO over the situation.

The other response Ms Jones said, gave comments like 'all general staff are women (EEO for men needed) and staff don't have disabilities' and we try to ensure they don't get them'.

These responses were neither helpful, nor profes­sional. Fortunately, such re­sponses had been very much in the minority, she said. *

OZ PLAY IN DRAMA'S 1991 PROGRAM

A little known Australian play, Dead Timber, by Louis Esson, is one of the batch of six plays to be produced by the Department of Drama on the cam­pus next year.

The season opens with a perennial favourite, The Real Inspector Hound, by Tom Stoppard, directed by Professor Victor Emeljanow. This heady mixture of Agatha Christie parody and post-modern anarchy features a strong cast, which will include Mr Barry O'Connor and Mr Paul Makeham, well-known to Newcastle audiences. The production opens on Feb­ruary 25.

The popular lunch-hour series will begin with Sam Shepard's powerful visions of contemporary American mores, Red Cross and Savage Love, directed by Ms Elspeth Robertson in the Green Room, commencing on April 8.

Dead Timber, first performed in 1911 is about hard times on the land and the domestic troubles of a farming family (as relevant today as then). This play will be directed by Ms Kate Newey and opens in the Drama Studio on April 29. It will be repeated for one night only at the request of the Imperialism & Popu­lar Theatre Conference on July 6.

May 27 will see the opening of Trifles, the play which launched Susan Claspell into a successful ca­reer as a dramatist. A play at once a detective story and a sensitive examination of male-female relations, it will be directed by Ms Jane Goodall in the Green Room as part of the ongoing lunch-hour series. Mr Mark Gauntlett's production of Cyril Tourneur's The Revenger's Tragedy opens in the Drama Theatre on July 15. The play parodies the revenge drama of the early 17th century with multiple murders, incest and an hero who carries around the skull of his dead mistress!

Mr Michael Smith's anarchic comment on filial relationships The Next Thing is an Off-Broadway phenomenon of 1966. Ms Julie Kirby will direct it in the Drama Studio opening on August 19.

Other productions will be announced as they come to hand! Please contact the Department at 68 5705 for further details. *

UNIVERSIADE

Universiade (The World Student Games) is an Olympic-style competition of un­iversity sport, held every two years, which draws worldwide­ wide attention.

Governed by the Feder­ation Internationale du Sport Universitaire (FISU), it is a meeting of students from all over the world, the aim being to promote exchanges among youth and contribu­teto world peace through sport.

The World Student Summer Games continues to grow in numbers and now, in terms of representation, is second only to the Olympics. Participa­tion is open to any country which has a national Olym­pic committee.

To compete at the World Student Games a person must be aged between 17 and 28 and be a current university or college student or a graduate of not more than one year's standing.

The 1991 World Student Summer Games will be held in Sheffield, United Kingdom, from July 14 to 25.

Sports to be contested are: swimming, diving, water polo, track and field, hockey, soccer, tennis, gymnastics (rhythmic and artistic), volleyball, basketball and fenc­ing.

The Australian Univer­sities Sports Association has called for nominations for selection in the Australian team.

Requests for nomination forms and official standards for track and field and swimming should be directed to the University Sport and Recreation Department (68 5344).

Completed nomination forms must be lodged with the Department by February 18. *
1. ARC & NH&MRC Closing Dates
Detailed planning of applications for 1992 grants to ARC and NH & MRC should have commenced. The internal closing dates will be:
ARC Application forms are now available from the Office for Research.
NH & MRC application forms are expected late December/early January.

2. The following reports are held in the Auchmuty Library:
(i) Dairy Research & Development Corporation 1990 Annual Report

3. The following documents are available for short term loan from the Office for Research:
(ii) Commonwealth Government Science and Technology Budget Statement 1990-91. The Statement draws together information on budget funding for research and innovation across a range of portfolios.
(iv) Advance Newsletter September/October 1990. Published by Business and Consumer Affairs to promote the use and development of advanced technology.

UNIVERSITY MEMORANDUM

Stemming from activities organised by the Art Advisory Group during the University's 25th anniversary year (1990), two University mementoes - a catalogue of the art collection and Christmas greeting cards - have been produced.
Titled Pictures From the Fine Art Collection, the glossy catalogue is a comprehensive list of the works in the collection, enlarged by amalgamation with works from the former Hunter Institute and the Conservatorium.
The 35-page booklet contains separate plates for the 60 paintings, prints and drawings recently shown in the exhibition of the University's collection. More than 20 are in colour.
The Christmas cards have been printed on fine quality paper and six colour plates from the catalogue have been used as illustrations.

The catalogue sells for $10. The cards sell for $2 each and 10 for $15.
They can be obtained from the Gift Shop in the Union and from Ms Liz Suggit (Hunter Building), 68 7713, and Ms Christa Moch (McMullen Building), 68 5535.

ARCHITECTURAL PRIZE

Suters Architects Snell recently announced the establishment of a $5,000 prize for third year Architecture (BSc[Arch]) students of the University.
Shown with Mr David Boyle, the first winner of the prize, are (left) Mr Brian Suters and (right) Mr David Rose, senior members of Suters Architects Snell.
They were photographed when they discussed Mr Boyle's concept of a performing arts centre on the eastern edge of Civic Park at an exhibition of design projects by students.

Pedagogical Studies come out in force to win computer

It just goes to show that a bit of organisation can work wonders especially when you have a goal in mind.
And a goal was precisely what Ms Jill Hancock from Pedagogical Studies had when the invitation was issued for University departments to attend a demonstration of the latest Toshiba computers as part of a unique promotion and competition with the prize, a Toshiba T100 Laptop computer for the department with the most attendees.
The promotion, hosted by Maintain Axis Computers, provided University staff members with a unique opportunity to see the latest Toshiba technology and also another opportunity for Toshiba to show their products to the higher education sector.
Ms Hancock saw the opportunity and worried her colleagues to attend the promotion. With a carefully calculated formula of one point for each percentage of a department in attendance plus two points for each person from the department in attendance, Pedagogical Studies came out in front with a score of 137, the next group being Physics with a score of 126.

Much jubilation was evident at the presentation ceremony with a special banner prepared for the occasion saying simply - 'We Won'. It said it all.
'For our efforts we've been very well rewarded', Ms Hancock said.
'Our thanks go to Maintain Axis. The laptop will allow more flexibility in the department and expand our resource base,' she said.

Ms Jill Hancock (left) is presented with the laptop computer by Mr Terry O'Brien (right) from Maintain Axis Computers while the Acting Head of the Department of Pedagogical Studies, Mr John Gill looks on.
Information on the following grants is contained in 'NEWS' on the VAXcluster. Further information and relevant application forms are available from the Office for Research - telephone 685302.

Note: N.C.D. = NO SET CLOSING DATE

### GRANTING BODIES

<table>
<thead>
<tr>
<th>Grantsing Bodies</th>
<th>Closing Date (To Office for Research)</th>
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<tr>
<td>Rural Industries Research &amp; Development Grants</td>
<td>14 December 1990</td>
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<tr>
<td>Chicken Meat, Egg Industry &amp; Honeybee</td>
<td></td>
</tr>
<tr>
<td><strong>Australian Meat &amp; Livestock R&amp;D Corporation</strong></td>
<td>18 December 1990</td>
</tr>
<tr>
<td>Core project funding of strategic research</td>
<td></td>
</tr>
<tr>
<td>Australia Council Aboriginal Arts, Community Cultural of Development, Literature, Performing Arts, March Visual Arts/Craft</td>
<td>Depending on area grant, between &amp; December. Some areas have no closing date.</td>
</tr>
<tr>
<td><strong>Australian Meat &amp; Livestock R&amp;D Corp.</strong></td>
<td>21 January 1991</td>
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<tr>
<td>Funds to aid in the support of annual or special conferences.</td>
<td></td>
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<tr>
<td><strong>Australian National Antarctic Research Expeditions (ANARE)</strong></td>
<td>21 January 1991</td>
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<tr>
<td>Antarctic Research proposals and ASAC grants scheme.</td>
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<tr>
<td><strong>Grains Research &amp; Development Corporation</strong></td>
<td>22 January 1991</td>
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<tr>
<td>Research grants and travel funds: Grain Legumes, Oilseeds and Wheat, Barley, Tobacco Research and Development Council</td>
<td>4 February 1991</td>
</tr>
<tr>
<td>Research and development relating to the tobacco industry.</td>
<td>1 February 1991</td>
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<tr>
<td>Department of Transport and Communications</td>
<td>6 February 1991</td>
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<tr>
<td>Research into road safety issues.</td>
<td></td>
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<tr>
<td><strong>AUSTRALIAN RESEARCH COUNCIL - ARC 1992.</strong></td>
<td>11 February 1991</td>
</tr>
<tr>
<td>APPLICATION FORMS ARE NOW AVAILABLE FROM THE OFFICE FOR RESEARCH, 685302.</td>
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<tr>
<td><strong>NATIONAL HEALTH &amp; MEDICAL RESEARCH COUNCIL NH&amp;MRC.</strong></td>
<td>18 February 1991</td>
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<tr>
<td>Grape and Wine Research Council</td>
<td>18 February 1991</td>
</tr>
<tr>
<td>Research grants and conference funds</td>
<td></td>
</tr>
<tr>
<td><strong>Rural Industries Travel/Conference Grants</strong></td>
<td>13 March 1991</td>
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<tr>
<td>Chicken Meat, Egg Industry and Honeybee.</td>
<td></td>
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<tr>
<td><strong>National SIDS Council Multi-Centre Program Grants</strong></td>
<td>18 March 1991</td>
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<tr>
<td>Co-operative research program undertaken by at least 2, and preferably 3, separate approved research institutions.</td>
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<tr>
<td><strong>National Campaign Against Drug Abuse</strong></td>
<td>N.C.D.</td>
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<tr>
<td><strong>DITAC International Science &amp; Technology Travel Grants</strong></td>
<td>N.C.D.</td>
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<tr>
<td>Apply at any time but at least 6 weeks prior to intended travel.</td>
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<tr>
<td><strong>Education and Training Foundation</strong></td>
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<tr>
<td><strong>BHP Community Trust</strong></td>
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<tr>
<td><strong>RADCAG Dept of Community Services &amp; Health</strong></td>
<td>N.C.D.</td>
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<tr>
<td>Medical research and Targeted research areas.</td>
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<tr>
<td><strong>Research Management Committee Travel Grants</strong></td>
<td>N.C.D.</td>
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<tr>
<td><strong>Research Management Committee Research Visitors</strong></td>
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<tr>
<td><strong>Child Accident Prevention Foundation of Aust.</strong></td>
<td>N.C.D.</td>
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<tr>
<td>Funding/Support in the area of accidents and intervention strategies</td>
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<tr>
<td><strong>Telecom Research Funding</strong></td>
<td>N.C.D.</td>
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<tr>
<td>For Centres of Expertise or short term R&amp;D.</td>
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### FELLOWSHIPS

<table>
<thead>
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<th>Fellowships</th>
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<tr>
<td>Canadian Studies, Faculty Enrichment Awards (FEA)</td>
<td>17 January 91</td>
</tr>
<tr>
<td>To assist academics in developing and teaching courses about Canada in their own discipline</td>
<td></td>
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</table>

**Bulletin / Number 21, 1990 / 11**
For Sale

1977 Mazda Hatchback (lime green with fawn interior). This car is ideal for teenagers, runs well and is registered until late 1991. Asking price: $2,700 or near offer. Please telephone 68 5398.

Barrell Atco 14" cut lawn mower and catcher, $240; Cannon full size natural gas stove with four top burners, full size oven, bottom utensil drawer, fold-up top deck electric rotisserie, plate warmer, shisskabarb fitting, electric timer and oven light. Please telephone J. Pearson at 68 5382 or 33 2908 after hours.

Accommodation Wanted

Visiting United States Law Professor, his wife and 11 year-old son require accommodation from late June until December, 1991. Accommodation must be in reasonable proximity to University and transport desirable. Please contact Professor Frank Bates at 68 5727.

Accommodation Vacant

Large three bedroom furnished house, with inground pool, one street from the lake in Valentine. Available for rent from January to July, 1991. Would suit a visiting academic. Please telephone Dr Dennis Sinclair at 68 5744 or 46 8950.

Wilderness Society

Goods from the Wilderness Shop, including prints, posters, diaries, calendars and many other items, are available for inspection and order by telephoning 68 5565 or 68 7477 (or 61 3753 after hours). All proceeds from sales go directly towards the funding of The Wilderness Society's campaigns.

Holiday arrangements for the break

The University will close on Monday, December 24, at 3 pm for the Christmas to New Year holiday recess and reopen on Wednesday, January 2, 1991.

BULLETIN

With this edition, the BULLETIN goes into recess and will not reappear until February as Number 1, 1991.

Squash Pavilion and Auchmuty Sports Centre

The pavilion and the sports centre will close on December 23 at 6 pm and reopen on January 2 at 8 am.

Credit Union

The Universities Credit Union Branch in the Union will be open on December 24 (9 am until Noon). It will be closed for the holiday recess and will reopen on January 2.

Auchmuty Library

During the long vacation up until February 8, the Library will open from 8.30 am until 5 pm on week days. From February 11 until the commencement of First Semester, the opening hours will be 8.30 am until 7 pm on week days.

The Library will be closed between Christmas and the New Year, reopening on January 2.

Staff House

The Staff House will close on December 24 and reopen on February 4.

The Union

The Union's facilities will be open in accordance with this schedule.

Shortland Union

January 2 to February 15
Building, 8.30 am to 6 pm
Rafters, 8.30 am to 5 pm
Fast Food Bar, 11 am to 2 pm
(including cafeteria services)
Asian, 11 am to 2 pm (Pasta Bar)
Bar, Noon to 5.30 pm
Stationery Shop, 8.30 am to 5 pm
(closed for stocktake, December 20 and 21)
Gift Shop, 8.30 am to 5 pm
(closed for stocktake, January 2 and 3).

Hunter Union

February 4 to 15
Building, 8 am to 4 pm
Coffee/ Snack Bar, 10 am to 2 pm
Bar, Noon to 4 pm
Shop, 8.15 am to 4 pm
Bank Agency, 8.30 am to 4 pm

The Shortland Union will close on December 24 and will reopen on January 2.
Council at its meeting on December 14 considered a report on the preparation of the new Site Master Plan of the University and decided to make copies of the report available for comment.

Responses to the Site Master Plan should be directed to the Deputy Vice-Chancellor (Planning), Dr D. Huxley, and be submitted by March 8.

Eckford Johnson, Architects, are advising the University on the development of the Shortland campus for the 1990s. The following is the firm's summary of previous Site Master Plans, together with recommendations for accommodating expected growth while preserving the bushland character of the University.

- The University has followed substantially the 1964 Master Plan Report and the 1976 Master Plan Review. The bushland character and flexibility have remained a feature. Amalgamation has required a new direction for development, from north of Architecture to Oval No. 4.
- Traffic flow and car parking are the major constraints for the future. The campus should be able to house 10 per cent of students, instead of the present four per cent. The bush environment must be preserved at any cost in the face of development, infestation by weeds and erosion.
- The great success of previous plans has been the retention of the low-rise building policy and the bushland character of campus. Weaknesses should be seen in the light of this broad success.

Access to the campus is poor in many areas; the Eastern Entrance is very dangerous; car parks overflow regularly; pedestrian links between East and West may have been adequate to amalgamation but must be considered inadequate now; some paths are poorly lit; bicycles are not catered for adequately; access for the disabled is poor.

Bus stops are too far from the students; the bus system could be improved.

There is no sense of arrival at any entrance.

There are too many temporary buildings, and the quality of the spaces around the Hunter Building and the Gymnasium is poor.

The landscape is under attack from weeds in some areas. There is not enough housing for students.

Sporting facilities are fragmented and some facilities are maintained poorly.

- (i) The following projects are being built or have building approval:
  - Computing and Information Sciences Teaching building; Union stage IV; Administrative Centre; Science building; tennis courts; Building building; Learning Education Technology Services Building; student accommodation.

- (ii) The following projects have been submitted for funding:
  - Centre for Industrial and Engineering Design; students' accommodation; multi-level car parking; Technology and Environmental Management building; Richardson Wing extension; Visual and Media Studies building extension; Chemical Engineering laboratory extension; Containment glasshouse; footbridge.

- (iii) Other projects include:
  - Advanced Technology Centre; campus hotel; Western Entrance; 2NUR-FM; Union building, eastern side of campus; Union, Stage III B, western side of campus, and new multi-level car park, new service vehicle entry; extensions to Auchmuty Sports Centre; Sports Pavilion between ovals 2 and 3; indoor pool; extensions to Auchmuty Library; extensions of the Ring Road; expansion of Huxley Library; Student Services Centre; Religious Centre; athletics track; extension to Edwards Hall; Wardens' Houses - International and Evatt House; art gallery and studios; Shortland Wetlands observation building; additional lecture theatres; child minding centres; additional tennis courts; Central store; ELICOS building.

- Amalgamation has given opportunities to improve roads, pedestrian links, the landscape around the Hunter Building and the Gym, and to consolidate sporting facilities. Finding ways to preserve the harmony between the built and the natural environments will be a challenge as more buildings are required.

- There is scope for some expansion without interfering with the visual amenity, buffer zones or green belts, but consideration must be given to optimising the use of existing facilities, for instance having more lectures on Mondays and Fridays.

The University must consider buying acquiring more land.

A stringent parking policy must be implemented, otherwise car parking will become the major single factor limiting the University's growth.

A study of the number of cars parked at the University showed that 29.5 spaces were required for every 100 EFTSUS and staff. At the current rate of growth, this would lead to a deficit of 2,367 parking spaces by the year 2001.

It is recommended that a series of multi-level parking stations be built and that a parking levy be introduced to help fund them.

- It is recommended that traffic lights be installed at East Gate and that a fourth entrance be provided from the Vales Street/BHP Research Laboratory road.

- A new road running within the campus from East Gate to the main entrance is recommended, with a new roundabout at the main entrance.

The carpark north of the Hunter Building should be opened to the Ring Road, so that the road which serves it now will become primarily a pedestrian path.

A new pedestrian spine should be built over the Ring Road,
running south of the new Administrative Centre, linking the major campus centres. Pedestrians should have their own links between Architecture, Engineering, the Design Centre and the Administrative Centre. Together, these will eliminate much of the pedestrian traffic across the Ring Road. Covered walkways will be encouraged for the future.

An electrical consultant should assess the level and extent of lighting to identify areas that need more.

Roads on campus should be named, directional and traffic signs should be improved, and both the main entrance and East Gate should have entrance walls and pylons to create a "front door".

- Buses should be routed through the campus via the proposed link road, with one stop serving the western side of campus and another the Hunter Building.

The introduction of a railway station next to the campus should be pursued.

- Traffic controls should include traffic control devices, speed limits, local area traffic management devices, parking controls, guide signs, regulations enabling enforcement of controls.

- Plot ratios have been determined for a number of separate architectural precincts making up the campus. These plot ratios determine the maximum density of building in those precincts.

- Within each architectural precinct, there should be consistency of building form and materials to maintain harmony. Buildings should be designed to take advantage of natural elements such as sun and wind.

Access for wheelchairs should be improved in much of the campus.

Any temporary buildings should be removed as soon as possible.

- The low-rise policy has protected the tree line. Individual proposals should be assessed on their merits, but in the light of the success of the existing policy.

The University has 482 beds on campus for students - 210 fully catered in Edwards Hall, 272 self-catering. They can accommodate about four per cent of the students. Within a few years, there will be 15,000 students. The University needs 1,500 beds about three times the existing number to accommodate 10 per cent of them, the figure accepted generally as desirable.

Density must increase: future self-catering colleges must be three-storey.

Examination of potential college sites indicates that 1,300 beds can be provided. The acquisition of more land must be considered. Sites off the campus should be developed in conjunction with colleges on campus.

Colleges should have visual individuality and physical separation from their neighbours.

Outdoor areas, pathways, lighting and security should be developed with the colleges.

- The Union needs a new facility to serve the Hunter Building within two or three years. Two sites are recommended: west of the gymnasium or the gymnasium site itself.

The island of bush at the southern entrance to the Hunter Building must remain.

- Conference facilities should be a source of income, but a mechanism is needed to make conferences easier to organise. A campus hotel may be the way.

- A main objective should be to protect and enhance all areas of the remaining bushland. Green belts and buffer zones have been suggested, but they must be an integral part of the campus, not isolated pockets.

A Landscape Structure Plan should be prepared, detailing structural plantings, preferred species in individual locations and priority listings. A Bushland Structure Plan should be prepared which assesses the existing condition of bushland; identifies the sources of weed infestations; and details methods for removing weeds and rehabilitating the bush.

A review of pedestrian movements should concentrate on the formal identification of the paths people want to take.

Multi-storey carparks should be built to minimise the area taken up by carparks. Indiscriminate parking on landscaped areas should be firmly stopped.

Bushland management, rather than traditional park management, should be favoured, thus minimising maintenance.

A percentage of the total cost of new developments should be used for landscaping work.

- The precinct south of the new Administrative Centre, occupied by No. 4 Oval, should become a focal courtyard.
State Highway 23

No doubt members of the University were disappointed by the removal of the wooded area along the University’s western boundary preceding construction of State Highway 23. The University had been assured by the RTA that its plans included restoration of as much as possible of that flora and assurances that the construction of the road would not lead to intrusion of unacceptable levels of noise or other pollution into the campus following the opening of the road.

As construction proceeded, senior officers became increasingly concerned that the design of the road would inevitably lead to those intrusions, and we sought a meeting with the RTA. I am pleased to report that the information provided by the Project Manager did much to allay our concern.

Published in this BULLETIN are some drawings adapted from the RTA Landscape Planning for the section of State Highway 23 adjacent to our western boundary. It has been difficult to reproduce the detail, but I hope that members of the University will be able to gain some understanding of what the finished product is likely to be.

Shown on the following pages are:

- Some cross sections coinciding with metre markings on the plan;
- plan drawings of the road and cycleway;
- approximate coincidence of University buildings with sections of the road.

The RTA employed Precinct Landscapes Australia as landscape architects. They were required, first, to undertake species identification with the object of ensuring that the same species were returned to the area and of encouraging the return of former fauna. As much as possible of the trees that were cut down was chipped; those chips have been stored and will be returned for use as mulching.

The plant materials to be returned to the site will include the species removed but also will include Eucalyptus scoparia, "selected for its dense tree hedge qualities suited to residential screening", and Cuasuarina littoralis and Acacia sophora, both coastal species with "noted soil binding capabilities in their root structure, selected for embankments and the steep slopes of the major cutting area". Several of the Acacia species have been selected for their quick growing and screening potential. Seed of the flora has been collected and the young trees are now growing at a nearby nursery.

The particular plantings are specified on the landscaping plan. I suspect that many people will be interested in that detail and, for those who might be, larger versions of the document are available by contacting me.

Some facts of general interest include:

- first, the number of plantings to be made by the landscape contractor will total 1,675 along our western boundary, with 1,210 of those concentrated in the area from opposite the Great Hall to opposite Aviation;
- second, the nature and density of the plantings will vary depending on whether they are being made along the side of the cutting or are being made where the road passes through the valley opposite Medical Sciences and Aviation; in that latter area, while the two-metre spacings between plantings does not alter, the number of rows is doubled from two to four; the cross sections give a good idea of how the plantings are expected to look on maturity; and
- third, the RTA has engaged consultants to monitor vibration, noise and dust pollution during construction; copies of their most recent reports (September, 1990) indicate that levels are within acceptable limits.

In addition to the plantings, the RTA has a policy of "incorporating noise attenuation measures if practicable and cost-efficient." Members of the University may have noticed that the RTA has already erected a two-metre fence along our boundary from the north-west corner near the CRL bridge to the northern end of the Aviation carpark.

The Project Manager has indicated that, at this stage, the RTA does not have specific plans for the erection of any further acoustic barriers until the completion of the pavement. At that time, landscaping work should be well advanced and noise measurements will be assessed against guidelines for attenuation measures. The results will be discussed with the University. It is my belief that barriers will be necessary, particularly where the University is not protected by cutting embankments, but this is yet to be proven. I understand that, in the valley, any acoustic barriers would be erected at road edge, rather than boundary edge. Members of the University will no doubt be aware that the RTA is currently experimenting with acoustic panel types at the Wahroonga end of the Newcastle-Sydney Freeway. It is my expectation that we will benefit from those experiments wherever further noise attenuation is required.

As I indicated earlier, I am now reasonably confident that the RTA intends to do whatever is necessary to avoid noise, fume and vibration intrusion into the University campus and intends also to return as much as possible of the vegetation to the area. The assurances we have at the moment should give us some confidence that the RTA’s intentions are to reduce the impact of State Highway 23 on the University as much as is possible.

Nevertheless, the University will need to remain vigilant since governments change and resources become increasingly scarce. I should be grateful for receipt of any information which suggests that action by the University is necessary.

Dr D.R. Huxley,
Deputy Vice-Chancellor (Planning)
PLANTING EASTERN SOLDIER BOUNDARY 2.0m SPACING 2.0m SPACING IN TWO ROWS

EASTERN SOLDIER BEAM EMBANKMENT PLANTING 2.0m SPACINGS IN 4 ROWS

Purdue Room Geology Physics Chemistry

SLOPE STABILISATION PLANTING CYCLEWAY SLOPE STABILISATION BOUNDARY

NATURAL GROUND LINE

CH 1370 GREAT HALL / GEOLOGY

CROSS SECTIONS
December Council

The Chancellor, Justice Elizabeth Evatt, welcomed Mr Michael Johns, a Newcastle corporate adviser, who has been appointed to the Council by the Council itself for four years.

The Act provides that the Council may appoint a person to be a member of the Council.

Acting on the recommendation of the Academic Senate, Council approved the introduction of a Graduate Diploma in Development Communication commencing in second semester, 1991. The commencement of the course will be subject to the Vice-Chancellor being satisfied about the satisfactory resolution of resource matters.

Academic Senate reported that the course was designed to meet an anticipated demand from full-fee paying overseas students with the possibility of some additional enrolments coming from fee paying local students.

Council approved a proposal from the School of Health for the introduction of a degree of Master of Nursing by research commencing in first semester, 1992.

Council also approved a proposal from the School of Health for the introduction of a degree of Master of Health Science with specialisations in primary health care and rehabilitation counselling commencing in first semester, 1992.

Council approved in principle accreditation arrangements between the University and Avondale College on a five-year trial basis.

The arrangements had previously been agreed to in principal by the Board of Governors of Avondale College.

Discussions between the University and Avondale College were begun last February with the aim of investigating an affiliation for purposes of accreditation and related issues. This was in response to a formal approach from the Principal of Avondale College.

Avondale College currently has about 750 students of whom 700 are enrolled in accredited courses, namely the Bachelor of Business, Bachelor of Education, Bachelor of Arts (Theology) and Diploma in Nursing courses. In addition, an upgrading course to Bachelor of Nursing has been approved. The other courses offered are at Certificate level.

The Deputy Vice-Chancellor (Academic), Professor Michael Carter, reported that the proposed mechanism for assessing the College's courses was a core committee, guided by sub-committees for appropriate disciplines.

The committees would consider such matters as course content, the method of presentation of courses, staff performance, relevance of courses to their stated objectives, the adequacy of facilities, failure rates, and admission criteria. There was also the possibility of the appointment of course moderators for particular courses, Professor Carter said.

Council commended a report of the Student Services Liaison Committee, which provides communication between the Council and the Union, the Sports Union, the Students' Representative Council and the Student Services Division.

The committee urged the University to postpone the closure of University Village, at least until the proposed additional beds are provided at International and Evatt Houses.

It was reported to the committee, that development plans had been approved for the expansion of Wonnayba Child Care Centre to 45 places. The committee had noted this with approval, but wished to draw the Council's attention to the need for additional funding to allow the project to proceed.

It was also reported to the committee that difficulties were being experienced in achieving an acceptable plan for the development of the Hunter Union.

The committee said it supported the co-operative approach being taken by the Union and the Sports Union and recorded its concern that agreement be reached as soon as possible on a plan so that urgently needed facilities could be provided.

It had been agreed, the Committee said, that the Union coordinate plans to improve the level of AIDS education on the campus. It was intended to include appropriate activities in the 1991 orientation program.

Council approved in principle a plan for major extensions to the Hunter Union.

An area adjacent to the Union including the current Union, part of the netball, basketball complex, the tennis courts and the current gymnasium will be allocated for Union development.

The approval is subject to the satisfactory relocation of the existing teaching activity in the gymnasium.

The General Purposes Committee reported that the University's Master Plan had suggested that the gymnasium, should be redeveloped as a Union Building.

The Plan suggested that the Union Development, the proposed transfer of Physical Education and the proposed extension of the Auchmuty Sports Centre be considered as a package.

Arrangements had been made for discussions involving the three interest groups and senior staff to examine the feasibility of this proposal.

The General Purposes Committee said it was the view of the Union Manager that the University would need to increase Union facilities as the University grew and that increase should occur in the vicinity of the Hunter Union.

Analysis of the Master Plan suggested that the most appropriate siting of that development would be in an arc extending from the present gymnasium to the present Hunter Union.
Following a request that the Dean of Students, Professor Ken Dutton, provide advice on the provision of work-based child care for students and staff, recommendations made by Professor Dutton were approved.

The Council will request the Child Care Co-ordination Committee to develop plans for additional child care facilities on campus, identifying in particular the priority to be given to additional community child care places and to dedicated child care facilities for staff and students, and to report to Council by mid-1991 at the latest.

The offer by the Union Board (on behalf of Wonnayba Child Care Centre), to make available to the University as soon as practicable 10 full-cost child care places for allocation by the University will be favourably considered in principle, subject to satisfactory arrangements being reached for the allocation of these places and the offsetting of the cost to the University in securing them.

As an interim measure, a position will be established in 1991 to co-ordinate home based child care and vacation care for the children of University staff.

On the advice of the Committee of Inquiry for the University’s Fourth Residential College, Council supported in principle the concept of a fourth residential college and requested the committee to develop it further towards the submission of a detailed plan to Council in due course.

Council endorsed the site occupied by the University Village as the possible site on which further planning of the fourth residential college should be based.

Council also authorised the Committee for the Fourth Residential College to appoint a sub-committee to approach recognised religious bodies in the Newcastle and Hunter Region with a view to securing their financial support for the project.

Council was informed that the State and Commonwealth Governments were to establish a joint working party to plan for the establishment of a Higher Education and TAFE facility at Ourimbah.

The announcement was made by New South Wales Education Minister, Mr John Fahey, and Commonwealth Minister for Higher Education, Mr Peter Baldwin. The project will proceed with the support of the University.

Mr Baldwin said he was very pleased that the University had agreed to support this innovative development, particularly in view of the expertise and commitment of staff of the University.

"Planning monies of $1 million are to be provided in 1993 to enable the University to pursue the project", Mr Baldwin said.

"This will be an historic move to bring much needed higher education and training facilities to the people of the Central Coast", Mrs Virginia Chadwick said.

"The past 20 years has seen unprecedented population growth in the region."

"This project will provide first-class further education opportunities in an accessible growth area."

"It is highly significant that TAFE is a joint stakeholder in this venture."

"For TAFE to be a dynamic and responsive education and training provider, it needs to have strong established links with schools, universities, industry and the broader community", Mr Fahey said.

"The Ourimbah development provides an outstanding opportunity for a continuing close relationship in the area with the sharing of resources and facilities envisaged from the early planning stages".

A State/Commonwealth Planning Group will be established to co-ordinate with this University and TAFE on this development.

Membership of the Planning Group would be drawn from the Commonwealth Department of Employment, Education, and Training; the New South Wales Ministry of Education, Youth and Women’s Affairs, this University and New South Wales TAFE.

Council approved the award of the title Associate Professor to the following members of academic staff:
Mr G.J. Gilchrist
Ms J. Graham
Dr A.O. Taylor
Dr W.J. Merrilees (Business and Administration)
Dr G.T.I. Feletti (Health Studies)
Ms L. Porritt (Health Studies)
Dr J.A. Krivanek (Physical Health Sciences)

Council approved the following promotions of academic staff:
To Lecturer:
Dr G. Orr (Chemistry)
To Senior Lecturer:
Dr A. Shah (Applied Sciences)
Dr E.C. Offler (Biological Sciences)
Mr T.J. Ryan (Classics)
Dr D.L. O’Connell (Clinical Epidemiology and Biostatistics)
Dr D.G. Matthews (Cultural and Curriculum Studies)
Dr J.R. Goodall (Drama)
Dr D.M. Watt (Drama)
Mr K.J. Burgess (Economics)
Dr J. Rees (Educational Studies)
Dr R.H. Middleton (Electrical Engineering & Computer Science)
Dr J. Schiller (External Studies Centre)
Mr V. Nikoleski (Fine Art)
Ms P. Wilson-Adams (Fine Art)
Dr S. Rajagopalan (Mechanical Engineering)
Mr N. Butterley (Music)
Dr C.E. Lee (Psychology)
Dr P. Duncan (Social Health and Community Studies)
Dr J. Cowley (Special Education Centre)
Dr D. Rowe (Visual Arts & Media Studies).

To Associate Professor:
Dr R.J. Craig (Commerce)
Dr S.F. Bourke (Education)
Dr P.J. Moore (Education)
Dr C.W.F. McKenna (English)
Dr R. Offler (Geology)
Dr L.W.B. Browne (Mechanical Engineering)
Dr J.A.P. Rostas (Medical Biochemistry)
Council approved the following extensions of appointment as Directors of Schools:
Economics and Information Sciences:
Professor F.L.Clarke
Engineering:
Professor A.W.Roberts
Humanities and Social Science:
Assoc.Professor J.A.Ramsland
*Medicine:
Professor J.D.Hamilton
Science and Mathematics:
Assoc.Professor B.A.Engel

Council approved the following appointments as Directors of Schools:
Art, Design and Architecture:
Assoc.Professor G.J. Gilchrist
Education:
Assoc. Professor A.O. Taylor
*Health:
Assoc.Professor J. Graham

(*Appointments are for five years; arrangements will be reviewed to allow for the formation of the School of Health Sciences from 1993.)