ENGINEERS HONOURED

Newcastle’s two most prominent mechanical engineers of the past quarter-century, Emeritus Professor Alex Carmichael and Professor Alan Roberts were made Members of the Order of Australia (AM) in the Australia Day Honours.

Both were honoured for their contributions to education.

Professor Carmichael, previously awarded the CBE, came to the University as a senior lecturer in 1957. He was Head of the Department of Mechanical Engineering from 1967 to 1974, and Dean of the Engineering Faculty for two periods.

Apart from his academic and research achievements, Professor Carmichael has served the community as President of the Hunter District Water Board from 1974 to 1982, and as a Director of TUNRA, the Newcastle Permanent Building Society and the Hunter Development Board.

Professor Roberts, Director of the School of Engineering, studied engineering at Sydney Technical College while apprenticed at Cockatoo Dock, then became a professional officer at the University of New South Wales.

In 1958, he became a lecturer at Wollongong and was an Associate Professor of Mechanical Engineering when he left to replace Professor Carmichael as Head of Mechanical Engineering at this University.

Professor Roberts has always maintained an interest in the handling of bulk solids, and is Director of the Institute for Bulk Materials Handling, Director of TUNRA and Director of the Hunter Technology Development Centre.

Car Parking – Callaghan Campus

The University Council is reviewing the Traffic and Parking Rules which are in force on the campus and which apply to all members of the University community and others.

A copy of the interim Rules will be provided to all students as part of the enrolment process and to staff on commencement of duty.

Copies are available from the Office of the Manager, Security Services, located in the Great Hall and from the Property Services Branch, located in the Hunter Building, adjacent to the GD Theatre. Enquiries in regard to parking may be referred to either office.

Essentially the Rules require that persons who seek to bring a motor vehicle, including motor bikes, onto the campus apply for a Vehicle Parking Permit. In so doing, applicants undertake to abide by the Traffic and Parking Rules and are subject to prescribed penalties for infringements.

It is essential that staff and students who wish to bring a vehicle onto the campus apply for the appropriate permit, make themselves aware of the Rules, and abide by them.

It is important to understand that the issue of a Parking Permit does not carry with it an automatic right to park on the campus.

The University has a serious under-supply of car parking spaces, which is in part being looked at by a Committee of Council.

The issue of a parking permit entitles a member of the University community to park in a properly designated and formal car park space only, to the extent that such a
Yet Another Welcome To Uni!

Mr Matt Cantrill, President of the Student Representative Council

Hullo. Well... this is it eh? You've made it. Your parents are all chuffed, your bank balance is at an all time low, and you've just noticed that the Uni has TWO bars. Wow... look at the people. Wow... look at all the cute, sexy, people of your own generation. So... this means you get to spend at least three years socialising with the type of people you always fantasised about socialising with! At TWO bars. Monday through Friday, ALLRIGHT!!

Oh... yeah! My name is Matt Cantrill and I am currently the incompetent incumbent SRC President. What's an SRC I hear you wonder, (...and don't sound so bored...). The SRC is the Student Representative Council of The University of Newcastle Students' Association. If you have signed the enrolment papers then you are automatically a member of our organisation.

We are elected by you in April of each year, for a year's term. We are elected both to represent faculty interests and special areas, such as, equality, education, environment, sexuality, overseas students, transport, accommodation, Austudy, part-time students... etc, etc.

We are all cute, sexy, hilarious, brilliant, hairy, moral, fanatically religious, and take the Uni Bulletin tremendously seriously. The services we provide include the following:

- Interest free loans of up to $200, (just in case you really need that new surfboard/perm/house...).
- Legal advice, (just in case you drop a safe on someone).
- Academic representation, (if you fail and it's because you have a vindictive lecturer).
- Photocopying, laserprinting, use of computers, binding, ('cause there's not many other places to do it on campus).
- Lamination of cards and passport photos.
- FREE condoms, (Oooh, Er!).
- Opus, our fab Uni paper, (like wow... really hep reading).
- Clubs and societies, (gangs of like-minded people doing things...).
- Advice on all aspects of student life, (confidentiality and raincoats supplied).
- Personal Abuse, (yet another free service).
- Anything else we get 'round to, (maybe).
- So, there ya go, eh? Pretty dam amazing, huh?
- University life, as I think you will find it, will expose your tender little beings to a vast gamut of new experiences and new ideas. Despite the pressures for you now to become just another student number, used for the amount of funding that your butt on

Callaghan Parking (from P1)

space is available. It is of the utmost importance that vehicles are not parked on grassed areas, footpaths, roadways and the like for the protection of the University's landscape environment, and for the safety of staff, students and visitors.

Alternative parking, to be utilized when on-campus car parks are filled, is available on the eastern side of the Student Residential Halls, off Wirra Crescent, and on both sides of University Drive (subject to compliance with traffic regulations in regard to bus stops, distances from roundabouts, pedestrian crossings, and the like).

The University is working hard to improve the level of public transport to the campus to alleviate the necessity for students and staff to use private vehicles, and important gains are being made e.g. direct bus transport from the Maitland area, and from Toronto, will operate in 1992. In the case of the latter, the bus services will operate through the campus, servicing four bus stops. Public transport timetables are available from the Shortland and Hunter Unions, and Student Services. For your convenience, summaries of public and private bus timetables, for routes which service the University, are attached.

Students and staff are urged to consider alternatives such as public transport, and car pooling and greater use of bicycles to take advantage of the new cycleways serving the University.

It is in the interests of all members of the University community, and the development and maintenance of the bushland setting of the campus, to dramatically reduce the number of private vehicles travelling to the site, as well as assisting with the broader issues of air pollution, traffic congestion and the like.

The co-operation of all is keenly sought to achieve these important objectives.
February Council News

Council reviewed recent discussions about the possible introduction of Japanese at the Central Coast campus.

The Vice-Chancellor (Academic), Professor Carter, said the campus at Ourimbah enjoyed the great support of its local community, which the University appreciated greatly. The University also appreciated the advice of the community's representatives about future developments on the Central Coast.

The Central Coast campus was not, however, a separate or rival institution but an integral part of the University. As such, any decisions concerning academic programs would be made, as they were for any other part of the University, by the relevant Faculty and Departments, with the oversight of Academic Senate.

The Pro Vice-Chancellor (Development), Dr Eastcott, said there seemed to be a problem of perception related to distance: some staff based at the Callaghan campus seemed to think staff based at Ourimbah considered themselves a separate institution; in fact, the Ourimbah-based staff considered their campus part of the University but thought some administrators at Callaghan perceived it as a rival.

In a written report, Professor Carter said the Department of Modern Languages had considered that establishing the support necessary for language students on the Central Coast was beyond its capacities this year.

Professor Carter said students in any degree course at Central Coast in 1992 could include Japanese as a subject if they were able and prepared to travel to the Callaghan campus for their Japanese studies.

The real problem, he told the meeting, was the Federal Government's continued refusal to commit recurrent funding for a period which would effectively enable the University to commit new academic resources to the development of programs at the campus.

A full report on the 1992 budget, which was passed by the Council, will appear in the next issue of Bulletin.

Speech pathology course approved

Council approved the introduction of a Bachelor degree course in Speech Pathology.

"The course will be offered with the major involvement of the Department of Linguistics. However, because of the inter-disciplinary nature of the course, it will be supervised by its own Board of Studies and successful completion of the four-year course will lead to the award of a B.Sp.Path. degree, distinct from the Bachelor of Arts degree.

The proposal for a degree in speech pathology was first put to the Faculty of Arts in 1988. Discussions have ensued, involving the Departments of Linguistics and Psychology, the Faculty of Medicine, the School of Health and professionals in the field of speech pathology.

Professional knowledge required of a speech pathologist includes: the nature of linguistic communication and the structure of linguistic systems; the physical properties of speech sounds; the physiology of speech production and reception; the psychological, neurological and developmental aspects of language and cognition; and knowledge and experience of professional clinical practice.

R.J.W. Le Fèvre Memorial Prize

This prize was inaugurated in 1989 by the Australian Academy of Science to recognise the achievements of young researchers in chemistry and in memory of the late Professor R.J.W. Le Fèvre, FAA, FRS.

The prize shall be awarded to a scientist not over the age of 36 years for distinguished basic research in chemistry, particularly physical chemistry.

Proposals should be covered by the nomination form which is available from the Academy's secretariat and should include a curriculum vitae, a complete list of publications and an evaluation of the candidate's work. Proposers should ask at least two referees to forward comments directly to the Academy, to arrive by the closing date. Nominations are confidential.

Nominations close on May 22 and should be addressed to:

The Executive Secretary, Australian Academy of Science, GPO Box 783, Canberra, ACT 2601.

R.J.W. Le Fèvre Memorial Prize

Enquiries. (06) 247 5777 (Mrs Faye Nicholas).

Staff Child Care Centre

At its meeting on February 7, the University Council approved a submission prepared by the Deputy Vice-Chancellor (Administration), Mr Hennessy, for a 40-place work-based child care centre costing at $460,000 to $480,000.

"The situation for staff with children under five has been grim, as the availability of child care places in the community is negligible," Ms Petersen said.

"Most waiting lists for children under two extended to two years, which means many women have to take part-time work or simply not return to work after maternity leave."

For this reason, the University saw the provision of child care for staff as an equal employment opportunity measure, and it has been one of the objectives of the EEO Management Plan since its inception.

A recent statement from a Federal enquiry into Equal Opportunity and Equal Status for Australian Women acknowledges inadequate child care as the single largest barrier to women's equal participation in the workforce.

Council also approved the buying of nine places designated for staff from Wonnayba Community Child Care Centre on campus, a step designed to bring immediate relief to the situation.

Details are yet to be negotiated. A Working Party will convene shortly to commence the planning for the new work-based centre, which should be operational in 1993.
New Buses, New Stops

Toronto Bus Services will run buses direct from Toronto to the Callaghan campus this year, with four stops within the campus.

The new routes will also connect at Glendale Crossroads with Sugar Valley buses serving Edgeworth, Barnsley, Killingworth and West Wallsend.

The Maitland service operated by Blue Ribbon Coaches last year will continue this year, using the four bus stops within the campus.

Blue Ribbon will also run a service to Maryland and Minmi, again using the stops within the campus.

And Blue Ribbon's Raymond Terrace-Sydney daily service will stop near the western entrance to the campus at 8.50am, providing a link from Raymond Terrace or to Sydney.

The new services represent a major improvement in access to the University, especially for staff and students living west of the lake.

Single trips from Toronto Station to Callaghan will take no more than 55 minutes and cost $2 (a $16 weekly ticket is also available). The alternative, train and bus travel via Broadmeadow, costs $4.80 - $2.40 for a student - and takes between 60 and 90 minutes, provided no connections are missed.

Buses from Toronto will travel via Fennell Bay, Bolton Point, Woodrising, Booragul, Teralba, Boolaroo, Glendale Crossroads and Wallsend Plaza.

The service terminates by travelling through the campus, with bus stops at the Hunter Building, the Chancellery, the Auchmuty Library and the Great Hall.

Buses leave Toronto at 7.50, 8.55 and 10.55 am, 12.55, 2.45 and 4.25 pm, arriving at Callaghan at 8.47, 9.50, 11.50, 1.50, 3.50 and 5.20 respectively. Because the bus travels through the campus before leaving, departure times from Callaghan are effectively the same as arrival times from Toronto.

The first bus from Toronto each morning originates from Wangi. Other buses connect with buses from Wangi and Coal Point. The final two buses each evening continue to Coal Point and connect with services to Wangi.

Connections to Sugar Valley services will be covered by the single ticket and the $2 fare.

The new service also connects Stockland Mall and the campus for a 50-cent ticket.

Buses will leave Maitland at 8.03 and 9.03am, 12.33, 3.33, 4.33 and 5.33pm, arriving at the University 43 minutes later.

There are scheduled rail services from Maitland to Waratah with a bus connection to Callaghan, but scheduled time for the whole trip varies from 34 to 70 minutes.

Parking's a hassle - Who needs it?

New BUS services link the University to more suburbs than ever in 1992.

New BUS stops inside the campus make the trip even easier.

A million-dollar BIKE PATH is yours for the riding.

So, on top of everything else, who needs the hassle of parking?

Remember.

If you can't bike it
Bus it or bike it.

FORTHCOMING SEMINARS

Department of Statistics (all in Room VIII, Mathematics Building)

Wednesday, March 18, 11 am to Noon
Assoc. Professor R. Gibberd: Integrating strategic planning, funding and quality into NSW acute hospitals.

Wednesday, April 1, 11 am to Noon
Dr K. Dear: An approach to assessing publication bias in meta-analysis.

Wednesday, April 15, 11 am to Noon
Dr A. Pope: Some statistical questions arising from research into clinical in-vitro fertilisation.
NOMAD Goes To Japan

Tokyo’s rail system is renowned for its efficiency and its crowds. But using the system could be a challenge to say the least, for the visually impaired and blind.

The difficulty typifies in some ways the obstacles which confront the visually impaired.

Japanese authorities are keen to develop systems to help blind people use their excellent facilities. And, in the world of technology to assist the disabled, Assoc. Professor Don Parkes is one of the people to whom they turn for help.

Professor Parkes spent a large part of January amid snow and a 5.7 earthquake in Japan - at the invitation, and expense for travel, of the National Vocational Rehabilitation Centre for the Disabled, and the country’s biggest publisher, Shogakukan, through their philanthropic trust the Foundation for Advancement of Juvenile Education in Japan.

The NOMAD system of producing graphics for the blind, which Professor Parkes invented and has developed with Mr Richard Dear, within the Institute of Behavioural Science, has attracted worldwide attention.

Shogakukan, which publishes a 32-page fortnightly tactile reader for young blind people, was one interested party and with further support from Mr Yuji Ishido who produces some of the best tactile graphics in the world, for blind children, Professor Parkes was able to work in Japan for 13 days.

Another area of interest came from Dr Masaki Tauchi, a world leader in neuroscience related to retinal pathologies who works with the National Vocational Rehabilitation Centre, in the Research Institute at Tokorozawa. He first saw NOMAD in Sydney in 1981.

Professor Parkes was invited to Dr Tauchi’s Research Institute in Tokorozawa where he gave a workshop in which the NOMAD system operated in Japanese, based on many weeks of translation collaboration with Mr Ishido, Dr Tauchi and using equipment kindly supplied by IBM Japan.

Some work remains to be done and further adaptation of the system, manufactured in Australia by Quantum Technology in January will be undertaken during the next few weeks. A number of companies have shown interest in the system and in related information aids, based on graphical data, for the blind.

Professor Parkes gave a number of lectures, attended by information engineers who travelled as far as 250 kilometres to see the NOMAD system.

Among the academics he “at last” met was Dr Hideo Makino, of the Department of Information Engineering at Niigata University. Professor Tauchi had been communicating with Professor Parkes for nearly two years on a Japanese version of NOMAD and has himself developed an extraordinarily sophisticated system for blind people to read maps. It is not however commercially available at this time.

He also met Professor Yoshimichi Yonezawa of the Department of Information Engineering at Shinshu University. Professor Yonezawa is the inventor of one of the most remarkable aids to the blind, “swell paper.”

“Swell paper”, or micro-capsule paper, looks and feels like a slightly heavy sheet of paper but contains tiny capsules of alcohol which swell when heat is applied. This enables a person to simply write or draw on the page and leave an embossed image after gentle heating. The paper is used with the NOMAD system.

“It was a very great thrill for me to meet Professor Yonezawa and he had many encouraging comments to make on our work”, Professor Parkes said.

Professor Parkes was also able to visit the Japan Braille Library, perhaps the largest Braille library in the world, and its Director, Mr Tetsuji Tanaka.

One outcome of his visit was Dr Masaki Tauchi’s proposal to produce a NOMAD guide to the Tokyo rail system. The system already has features, such as tactile pavement guidelines, which would be regarded as sophisticated by Australian standards but Dr Tauchi sees NOMAD as a desirable further improvement of facilities and an aid to information acquisition for blind people. Dr Tauchi was already having discussions with one or more of the nine private rail companies that are involved in the Tokyo-Yokohama region system.

Professor Parkes said discussions had been held some time ago with Dr Karen Luxton of City University, New York (herself blind) about using NOMAD to map the underground railway system in New York. However, during his study program in London last year, The Disabilities Unit of London Underground and the Joint Committee on Mobility, with the Royal National Institute for the Blind, made a grant to King’s College London’s Dr Andrew Tatham, who is curator of maps for the blind and a cartographer, to prepare NOMAD based audio-tactile maps of the London System. “Such international collaboration is most encouraging and hopefully there will be similar interest in Australia”, Professor Parkes said.

During his visit Professor Parkes was shown the latest in assistive technology from NEC and KGS, including a demonstration of the KGS “Braille Note”, and NEC “Braille Partner”, which involved a blind man “reading” information from NEC’s satellite based network.

The cutting edge of technology suggested wonderful new forms of access for the visually impaired, Professor Parkes said, but it had to be remembered that only about one blind person in 15 could actually read Braille and technology was equalising. “Most of the world’s blind are in very poor countries, we must never lose sight of the good fortune that we have. Some resources must be diverted to R&D for low technology aids to less fortunate blind people.

Mastering the new technology requires courage and practice, he said. Access to facilities would never be easy for the visually impaired, but given the enabling technology that is appropriate to a blind person’s need, there is no inevitable limit to their ability to access complex information and perform as full partners with sighted people. There is however a clear need for more aggressive legislation, for all people with a disability and it is from the USA, through its 1991 Americans with Disabilities Act that we see the first act of sanity, requiring employers and service providers to give all disabled persons what we in Australia call a fair go.
Professor Uri Shaked, of Tel Aviv, and Dr Carlos E. de Souza

Moving experience for bookshop

Professor Uri Shaked, Professor of Control Engineering and former Head of the Electrical Engineering Systems Department at Tel Aviv University, Israel, for many years, has been visiting the Department of Electrical and Computer Engineering at this University to start a research program in robust control and filtering in conjunction with Dr Carlos E. de Souza and Dr Minyue Fu.

Although Professor Shaked recognises that collaborative research can be carried on even though the collaborators are half a world apart, he says nothing beats the discursive nature of face-to-face talks when beginning.

System control theory deals with the problem of how to obtain a desired behaviour of a given process in spite of various disturbances and imperfect information on the dynamics of the process.

Control theory is applied in many areas of modern technology. A typical application is in signal estimation.

For example, a television signal beamed from a transmitter is corrupted by other electrical signals, weather interference and other factors as it travels through the atmosphere; for a television receiver to correctly capture the signal and show a picture the way it was transmitted, the receiving system must optimally reduce the effect of the corrupting factors.

The Department of Electrical and Computer Engineering has according to Professor Shaked an outstanding reputation in the field of control systems.

"You have a small group here which is really excellent," he said. For this reason, he was spending four weeks of the northern winter battling mosquitoes and rain in Newcastle and wondering where the summer went.

With Dr de Souza, Dr Fu and the PhD student, Mr Linhua Xie, Professor Shaked is embarking on a project involving a new measure of optimality in control namely, H-infinity optimisation. They will treat processes where the parameters are not well known, and large uncertainty exists and will look for design methodologies that will guarantee the desired performance, irrespective of the uncertainty.

Professor Shaked said his project with the Newcastle scientists aimed at improving the results using the new measure of optimality.

The collaborative research work of Professor Shaked is in connection with ARC research grants of Drs de Souza and Fu which support his visit. Although here for only four weeks, Professor Shaked said his initial discussions had been "very fruitful", with many ideas being presented for discussion by the collaborators and many exciting fields for exploration emerging.

Well! At last it has happened - they have moved and what a huge move for all concerned. Extra staff worked very hard, packing books and carrying them to their new location. It took quite a few weeks but now they are settling in. I'm sure the move will be an advantage to students, customers and staff alike. The area is more spacious and a pleasant venue to have a cup of tea and a chat.

Having a storeroom eliminates the need for cartons of books in the shop. The Co-op Bookshop is now an ABC Education Centre and carries quite a large range, if what you require is not in the shop then they can get it for you.

Life has been made easier for Vanessa, as well as for customers, with a large "Cash & Wrap" centre which is more easily accessible to the two entrances.

An "Information Desk" is located at the rear of the shop and hopefully will facilitate the enquiries of "lost souls" - particularly those who are new to the University - but not ... we don't know "what time the next bus leaves for Newcastle"!! They would, however, be happy to assist you with any enquiries regarding books.

A further service offered is the second-hand textbook division. The shop purchases text books which are currently being used and pays half the purchase price. To improve this service, don't let your textbooks gather dust - bring them along and sell them to the Co-op Bookshop.

If you are yet to venture down to the new premises on the lower ground floor, eastern side of the Shortland Union Building, it might be a good idea to wear gum boots and follow the aroma of dynamic lifter - "if this doesn't lift you away then the mozzies will" - so don't forget the Aerogard.

BULLETIN • 6
Doris Smith Scholarship

The winner of the 1991 scholarship was Ms Fiona Helen McNaught, office administrator for the Division of Leisure Studies, a soprano, who is a student of Ms Katharine Capewell.

Ms McNaught, who has studied at both the Queensland Conservatorium and the Newcastle Conservatorium, has competed widely in many Eisteddfod in Brisbane, Newcastle and Sydney, was a semi-finalist in the Gosford National Aria, and first prize winner of the Open Operatic Aria in the 1991 Sydney Eisteddfod. She has also completed 7th grade singing and a woman of great generosity to the music life of this region.

The scholarship is awarded, after competitive audition, to a promising vocalist who will undertake voice tuition overseas. It provides funding towards the payment of tuition fees and where desirable, living allowances and travelling expenses, and past winners, having benefited greatly from this financial assistance, have returned to Australia to pursue successful musical careers in this city and beyond. Candidates are drawn from the Newcastle Region and a high standard of vocal potential is expected, and has been achieved in years past.

Ms McNaught’s experience in amateur theatre, were the lead roles in Irene and Man of La Mancha with the Ignatian Musical Society and as Fiametta in the Brisbane Light Opera Company’s production of The Gondoliers. On March 29 she will be leaving to undertake studies in the United Kingdom, and whilst there she will be auditioning for the Royal College of Music and the Guildhall, London. Ms McNaught felt she would be facing a tremendous challenge, in fact a very daunting task during the next 12 months. She wished to thank her colleagues for their encouragement and their support.

The scholarship was presented to Ms McNaught by Mr Quinton McCarther-Stanham of the Trust Company of Australia on February 7.

40 Years of Music, Music, Music at the Conservatorium

The Faculty of Music and Conservatorium celebrates 40 years of teaching and performance this year.


Later, it moved to the War Memorial Cultural Centre in Laman Street where it remained for many successful years, staging concerts in the Civic Wintergarden, now the Playhouse of the Hunter Valley Theatre Company. In 1979, the Conservatorium shifted to the former Mackie’s Furniture building in Auckland Street, but it was clear from the growth in student numbers and the limitations on space that new accommodation would be needed.

In 1981, the move was made to the Conservatorium’s present locale, which was at that time the People’s Palace.

In Australia’s Bicentennial year, the magnificent Concert Hall complex was opened, with its 500-seat concert hall, brass and percussion studios, lecture room and practice studios. This provided a ‘home base’ for the Conservatorium’s concerts, which had been held up to this time in the Wintergarden and at Christ Church Cathedral.

The Conservatorium has developed over its 40 years to become an integral part of the Hunter region community. As well as being at the centre of teaching and performance in the city of Newcastle, it has established a branch at Maitland and interests on the Central Coast, and an outreach to the Hunter Valley.

The Conservatorium gained its autonomy from the NSW Conservatorium in 1988 and became, the following year, the Faculty of Music of the University, while still retaining its other functions, including its strong tradition of performance.

Conservatorium marks 40th birthday celebrations. Left to right around the cake are: Mr Eric Aubert (former Vice-Principal), Mr Michael Dudman (Dean of Music), Professor Keith Morgan (Vice-Chancellor), Mrs Sheila Reid (Foundation member of Administration Staff, Conservatorium) and Mr Errol Collins (Foundation Teacher of Violin).
Michelangelo's Birthday
- No Cause To Celebrate

On March 6, the University will have some irate computer users.

This is the day the PC virus "Michelangelo" strikes. If your computer has the virus, then the moment you start it up on March 6, all your data will be wiped from your hard disk. Everything.

There is no way to recover the lost data after "Michelangelo" attacks, unless you have retained backup copies on floppy disk.

"Michelangelo" has already been detected on more than 100 PCs in the University.

It is hiding, undetected so far, on perhaps one PC in 15 within the University.

According to John McAfee, one of the world's leading experts on viruses, the University is to be congratulated that "Michelangelo" has not infected 14 out of 15 PCs. He estimates the virus will cost about $US1 billion in lost computer time around the world as users try to repair the damage after March 6.

How can you tell whether your PC has the virus? Phone the University Computing Services to arrange a check on your machine.

Anti-virus software can help you avoid "Michelangelo". UCS sells two such products, F-protect V.1.6 and F-protect Version 2.0.1. If you already have F-protect V.1.6 or a later version, Clean and Scan V80 or a later version, or Victor Charlie 5.0, you should be able to detect the presence of "Michelangelo" on your PC.

Some older anti-virus software, which you may have had installed some years ago, was written before "Michelangelo". Such software will NOT afford protection against it.

Facts about Michelangelo virus:

First detected: April 1991
Type: Boot sector/Master Boot record infector
Resides: Sector 1 side 0 (master boot record/partition table)
Damage: Overwrites data on hard disk drive with rubbish from memory on March 6; will overwrite file entries in the root directory of 1.2MB floppy disks as well.
Complications: Is related to the "Stoned" virus, common within the University; if both viruses reside on the computer simultaneously, the machine will crash.

Comment: Will infect from both bootable and non-bootable data disks.

Thought to have been written in Sweden or Netherlands. As well as destroying data, will decrease your system memory by 2048 bytes.

Bruce Hodge, University Computing Services

Henceforward...

Opens Tuesday, March 3 in the University's Drama Theatre and plays Tuesday to Saturday until March 14.

The Department of Drama's offering in 1992 is Henceforward... by the acknowledged master of English comic writing, Alan Ayckbourn, first produced in London in 1988.

Henceforward... is an extraordinary play - both inventive and thought-provoking. As well, it is a wry and satiric look at human relationships set in the not-too-distant future.

Jerome, a totally self-absorbed music composer, lives in a fortress-like apartment surrounded by his electronic gear and the chaos of his everyday life. He has come to the end of his tether. Divorced for four years, he tries to persuade his ex-wife, Corinna, to allow his daughter to come back and stay with him again. Perhaps he will regain some of his creative energy and inspiration? How he does it provides the fun and satire of the play - and makes enormous demands of the performers!

The cast will include Paul Makeham and Sue Porter (both remembered for their performances last year in The Real Inspector Hound and the award-winning production of Aftershocks), Alisson Holbrook (Newcastle actress, last seen in the Newcastle Repertory Theatre's Harvey and in Season's Greetings, also by Alan Ayckbourn, and the Metropolitan Players' production of The Revenger's Tragedy) and a talented newcomer, at present in Year 10 at Maidland-Grossman High School, Danielle Dixon.

Tickets are $10 with a concession price of $6 and are available at the door or by telephoning the Department of Drama at 21 5001.

Former Nurses' Home to House Students

The University has gained an extra 220 beds with agreement on the lease of the Irene Hall nurses' home in Hunter Street, Newcastle.

The University and the Hunter Area Health Service agreed on details of the leasing arrangement for the building last week.

It will become a part of International House, offering places to students while the Health Service will use rooms which remain vacant to accommodate staff and families visiting in-patients at Royal Newcastle Hospital.

The Vice-Chancellor, Professor Morgan, said the agreement came at a very welcome time and would relieve pressure on the rental market.

"At this time every year, Newcastle is confronted with several thousand students looking for accommodation in the city. We can accommodate just over 600 on the main campus, and many find suitable accommodation with no great difficulty, either renting on their own or staying with local families. Every year, however, the number who have difficulty in finding somewhere to live is distressing."

"This new arrangement with the Area Health Service will help enormously. It will not, of itself, solve the accommodation problem entirely - in fact, all the beds available for students immediately have been offered to students on the International House waiting list. But the acquisition of about 200 student beds in one step represents a tremendous step forward and relieves some of the pressure on the rest of the city's accommodation."

Professor Morgan said the Irene Hall Hostel, as it would be known, also represented a major step for Newcastle, bringing a significant number of young residents into the central city.

"Statistics have shown the city losing residents over the years, with those that remain growing older."

"It is to be hoped that this injection of youth will help stimulate business and development in the city centre, benefiting the city of Newcastle as well as the University."
Braithwaite Concerts Raise Nearly $4000

The importance of contemporary rock music should not be lost on today's society and in the future will be seen as being an integral part of a university's fabric, according to the Vice-Chancellor, Professor Keith Morgan.

He said that when people looked back, they would see the impact of contemporary music on our culture and lifestyle, and especially on students in universities.

Professor Morgan made the comment in accepting a cheque for $3880, the money going to a benefit fund to assist students with a disability. The proceeds were from two Daryl Braithwaite Concerts in Newcastle last December where $2 from every ticket sold went to the benefit fund.

The Australian rock singer, who was a great success in Newcastle, had little hesitation in assisting students on campus who have a disability and immediately agreed to the proposal after being approached for support. The benefit fund will be used to purchase items such as motorised wheelchairs, braille keyboards and sign language translators.

"The concerts were a good example of the contemporary music scene and universities getting together," said Professor Morgan. "I don't think we can underestimate the importance of contemporary music and I hope that when we look back we can see that today's music was very much part of the university scene."

The two concerts, part of Braithwaite's 'Don't Hold Back' tour, were promoted on campus by the Committee For Students With A Disability and in Newcastle by Peter Anderson of Rock City Promotions.

Peter said he was pleased with the response to the concerts and hoped the venture would be the forerunner of another promotion this year.

Pregnancy and Birth Study

Second year Diploma of Health Science (Nursing) students are hoping that women who will be giving birth in the early part of this year will be willing to take part in a unique program designed to help them learn about pregnancy and birth.

The Pregnancy and Birth Study Program, which has been successfully conducted since 1987, needs mothers-to-be from Newcastle, Lake Macquarie and Lower Hunter areas who will be giving birth between April and August to "link-up" with a second year student.

The program brings benefits to both the pregnant women and the students. The knowledge acquired contributes to better care for mothers and babies and allows students to gain first-hand experience of the birth process.

It requires each participating nursing student to maintain contact with a woman during her pregnancy, accompany her to an antenatal visit, attend the birth of the child if possible and also follow up the mother and her baby after the birth.

The Co-ordinator of the program, Nursing Lecturer, Sue Johnson, says that many firm friendships have been made over the years because of the mother-student link. She says that many mothers appreciate the extra support, and at the same time are pleased to provide a learning experience for the students.

"The program is explained fully to all our volunteers so that they know exactly what is involved. The students do not want to pry into their personal lives, but merely to study the pregnancy and birth process," Sue says.

"Those who would like to register are invited to telephone the Department of Professional Nursing Studies at the University on (049) 21 6796 or (049) 21 6005," she says.

AWEUN

In 1992 the Association of Women Employees of The University of Newcastle (AWEUN) committee has decided to host an opportunity for women staff at the University to meet regularly. Drinks at the Staff House Bar every Friday between 4 and 6 pm is simply for fun.

It is a good opportunity to meet others informally, to talk and to have a relaxing time after a hard week at work.

AWEUN is an active organisation, which is there for all women staff on campus. The President of AWEUN is Ms Helen Parker (Extension 5588) and the Vice-President is Ms Ellen Jordan (Extension 5923). Should you have any enquiries please do not hesitate to contact either the President or the Vice-President.
“Messiah” in the Original Version

The Music Lovers Club begins its fourth and very varied year with Fr Peter Brock presenting recordings of the original version of Handel’s Messiah. He will discuss the many changes that have occurred in the score since its beginning in 1742 in Dublin; the 19th century has a great deal to answer for, and we have come to accept performances that do not bear a close resemblance to what Handel originally intended.

Fr Brock will be conducting the University Choir in such an original performance in the Great Hall on Good Friday (April 17). Our discussion evening should be a perfect introduction to this performance. The discussion evening will be held on Tuesday, March 10, at the University Conservatorium in Room 416 (fourth floor), at 6.30 pm. A charge of $3 per evening or $2 for students, pensioners and the unemployed, goes towards providing a scholarship for Conservatorium students. You may care to subscribe for the whole year's nine music evenings for just $15 or $10 concession. New members are most welcome.

Before the evening’s music program, at 6 pm, the annual general meeting will be held in Room 416. Reports on the year’s activities will be presented, the committee will be elected and future direction of the club will be discussed. Everyone is welcome to take part.

On Friday February 28 The University of Newcastle libraries will officially celebrate the acquisition of their 1,000,000th book at a ceremony to be held in the Auchmuty Library. To mark this special milestone the Friends of the University have donated a copy of Nathaniel Bacon’s Historical discourse of the uniformity of the government of England printed in 1647 for Mathew Wallbank, London which will be placed in the Rare Book Collection.

This book, which will be a valuable addition to our pre-1800 holdings, will be handed over to the University Librarian by the Chairman of the Friends, Mr Keith Barbour, at the ceremony.

It is most appropriate that the Friends should be so closely involved in celebrating this milestone as in 1984 they marked the acquisition of the Auchmuty Library’s 500,000th book by donating two rare and valuable books to the Rare Book Collection - A History of New Holland printed in London for John Stockdale in 1767, and a magnificent collection of Hans Holbein’s Drawings from the Library, Windsor Castle.

In addition, to donating the symbolic 1,000,000th book, the Friends have generously decided to further mark this occasion by financing the setting up of a Rare Book Room in the Auchmuty Library. This room will be located within the Flowers Reading Room and will be known as The Friends of The University Rare Book Room. It will be officially opened at the ceremony.

The acquisition of the 1,000,000th book marks an important milestone in the development of the University libraries, and is an achievement in which the University as a whole can take considerable pride, especially when it is realised that the development of the collections has taken place in a relatively brief period of 45 years.

Coupled with this rapid development in size has been a parallel growth in the quality of the collections. There are today strong collections able to support advanced research in most areas of University interest.

There is also a strong reference collection including printed indexes and abstracts as well as CD-ROM databases in areas such as Psychology, Medicine, Management, Education, Engineering, the Social Sciences, and Art, etc.

A wide diversity of materials in various physical formats is to be found in the collections. Audio-visual material, in particular, has come to assume an increasingly important part in the collections, and a wide variety of formats are available to users including videos, cassettes, slides and prints. etc. Of particular interest is the growing availability of computer-based software. For example, these include self-training packages on interactive videodisc encompassing all aspects of computer training. Recent acquisitions include Cell biology, Budgeting, Chateaux of the Loire and Antiquities of the Louvre on laserdisk. There are also strong collections of government publications, microform and archival materials.

That the University Collections have reached their present stage of development so rapidly is largely the result of three main factors:

• recognition by the University of the importance of its libraries to its teaching and research programs.

• close co-operation between the various disciplines and the libraries.

• the dedication and expertise of library staff in procuring and processing materials and in remedying weaknesses in the collections.

Library Round-Up

1992 Program

Tuesday, March 10, 6pm: Annual General Meeting

6.30 pm: Discussion by Fr Peter Brock: A close look at the original version of Handel’s Messiah.

Tuesday, April 14, 6.30 pm Discussion by Glenn Grantham: Music for Recorders (including a practical demonstration and audience participation).

Tuesday, May 12, 6.30 pm Discussion by Sashi Darbar: Music of India (an introduction to the Sitar and other instruments).

Tuesday, June 9, 6.30 pm Discussion by Dawn Allen: Outstanding Women Performers (including Jacqueline du Pré).

Tuesday, July 14, 6.30 pm Discussion by Jack Laughlin: In New Orleans the Black People believe important people should be buried with Music. The Jazz Clarinet, both recorded and live.

Tuesday, August 18, 6.30 pm Discussion by Noel Winney: The choral music of Hector Berlioz (including L’Enfance du Christ, Grande messe des morts and Béatrice et Bénédict).

Tuesday, September 8, 6.30 pm Discussion by Carmel Lutton introduces Performances by Conservatorium Students of Strings, Wind and Piano in the Peter Martin Room.

Tuesday, October 13, 6.30 pm Discussion by Lance Close: Gottfried Baron van Swieten (a Viennese musical busybody). Without him Haydn, Mozart and Beethoven wouldn’t have sounded quite the same.

Tuesday, November 10, 6.30 pm Discussion by John Allen: Dmitry Shostakovich (the conscience of the 20th century). A survey of some of his symphonies, concertos, chamber music and songs.

Please note that the venue is Room 416, University of Newcastle Conservatorium, Cnr Laman and Auckland Streets, Newcastle except where otherwise indicated.
Student Support Officer Appointed

The decision to undertake a university course can be made with the very best of intentions. But intentions aside, things may go wrong and do so for some students.

That’s where Annette Rudd can help.

Annette, (pictured above) was appointed as Student Support Officer late last year and is available to help students with problems they might be experiencing.

She has three briefs - to administer the student emergency loan system, to help students remain at university who are experiencing difficulty and to provide advocacy and liaison service for students with disabilities both on campus and in the wider community.

To fulfil this role, Annette is available to talk to students who may be experiencing difficulties and help out wherever possible.

Her office is located in the portable buildings opposite Mathematics.

Annette is required to liaise with academic advisers with regard to students with disabilities and to this end has assisted in editing a guide for students with disabilities and also a guide for academic staff which were prepared by the Sub Dean of Students, Marj Kibby. She also accompanied a former student, Andrew Phillips, who uses a wheelchair, around campus, when he was commissioned to carry out a building and pathways access study over Christmas.

She is also researching the types of resources, equipment and assistance available and can provide information on these to students who may need them.

"If anyone thinks it might be too hard to go to University for any one of a variety of reasons, my answer would be that it need not be - if you know where to go for help."

"For instance I am responsible for assisting students with disabilities to gain equal access to all university facilities. This might involve arranging for specialised equipment and providing information on the other university services that can assist, such as special exam facilities, dedicated parking areas, permits, etc. Basically I am available to provide support to these students in any way that can make adjustment to university life easier for them," Annette said.

My role is also to meet the welfare needs of students and I would be only too pleased to talk to students who may need specific help. I get a lot of satisfaction helping people deal with their problems," she said.

The service is strictly confidential and is specifically designed to help with a broad range of needs. It’s a one-stop shop for finding out what facilities are available.

A graduate of The University of Newcastle, Annette holds a degree in psychology and has worked both in Australia and in America as a youth counsellor and community worker. She has also worked as a program co-ordinator for the Special Olympics, conducting workshops for coaches, raising awareness in the community, liaising with schools and community groups and general promotion.

It’s a very busy job but Annette is not content to stop there. She is also involved in a program called “Local Employment Trading System”, a barter system for goods and services. She says that at present there are between 80 and 90 members and the system is operating very successfully.

Annette can be contacted at the Student Support Office. Telephone 216467.

Environmental Management

The Centre for Environmental Management has moved, and is now located on the second floor of the Computer Information and Sciences Building. Enquiries can be directed to the Centre by telephoning 215556 (fax: 21 6909).

The Centre will soon publish a reference book entitled Environmental Education, Research and Consultancy at the University of Newcastle.

Dr Diana Day has also completed a first draft of her report on environmental management/science and proposed futures for an environmental focus in teaching, research and consultancy at the University. After consultation with an Advisory Committee, she is now re-drafting this report for consideration by the

Environmental Management

The Centre for Environmental Management has moved, and is now located on the second floor of the Computer Information and Sciences Building. Enquiries can be directed to the Centre by telephoning 215556 (fax: 21 6909).

The Centre will soon publish a reference book entitled Environmental Education, Research and Consultancy at the University of Newcastle.

Dr Diana Day has also completed a first draft of her report on environmental management/science and proposed futures for an environmental focus in teaching, research and consultancy at the University. After consultation with an Advisory Committee, she is now re-drafting this report for consideration by the

Dr Diana Day

University during March/April.

Dr Day has been awarded an Australian and Pacific Science Foundation grant ($9,000) for a project entitled Importance of River Bank Morphology to Vertebrate Habitat.
Pavements - Design Alternatives
A pavement is a pavement is a pavement. Or is it?

Delegates attending the seminar listen to one of the guest speakers.

It seems it is not always the case and to the average road user it would seem a mystery that there are many and varied types of road surfaces and constructions and many design considerations to be taken into account.

A two-day seminar entitled 'Pavements - Design Alternatives', held by the Department of Civil Engineering and Surveying, presented the latest technology in road construction and an opportunity for lively discussion.

Senior Lecturer in Civil Engineering and Surveying and organiser of the seminar, Mr Brian Heaton, said the event attracted 65 people from interstate as well as local areas. Representatives from local government, road authorities, engineering consultancies, surveying consultancies as well as the material supply industry benefited from the specialist knowledge of 13 presenters.

He said the department had received numerous requests for such a seminar to be held and that it had been well received within the industry.

"Topics discussed included the types of pavement and their design philosophy, the specification of pavement materials, the use of out-of-specification materials, design considerations, the latest in bitumen and concrete surface technology, pavement rehabilitation and pavement management," said Brian.

"These topics and many others were highlighted by audio-visual presentations, slides and printed papers. "Not only was it successful from an information point-of-view, but also from a social one. People with similar professional interests always learn from one another informally as well as formally."

"We were supported by the Newcastle City Council, the Roads and Traffic Authority of New South Wales, the Australian Asphalt Pavement Association, Holroyd City Council, the Cement and Concrete Association of Australia, Boral Masonry/ Boral Calsil, the Concrete Masonry Association of Australia and The University of Technology, Queensland," he said.

As could be expected with so many experts gathered in the one place, the University's roads did not escape their scrutiny. Brian reports that several delegates at the Seminar commented that the state of the roads within the University was very poor. They were cited as typical examples of the condition reached where the cost of a dollar saved a few years ago in not doing routine maintenance was going to cost five dollars to remedy now and even more if repairs were delayed any longer.

Respected at State & National Levels

The Newcastle University Students' Association has proven to be a well-recognised and respected institution on a State and National levels. The National Union of Students (NUS), the peak governing body of student associations, held its State and National Conferences in December last year, and The University of Newcastle Students' Association was able to clinch four major positions.

At the New South Wales State Conference, Mr Wayne McCrea, Honorary Secretary of NUSA, was elected General Secretary of NUS NSW.

At the National Conference, Mr Peter Owens, NUSA Media Officer, was elected as the National Small and/or Regional Officer.

Ms Linda Whatman, former NUSA Honorary Treasurer, was elected as one of 12 members of the National General Executive.

Ms Linda Whatman

These positions will be held until the end of 1992, giving Newcastle a greater say in The National Union of Students, and the national education sphere.

The National Union of Students was formed in 1987, and now represents over 300,000 students, The University of Newcastle Students' Association being one of the founding members.

Mr Wayne McCrea

Last year has proven to be a very successful year for NUSA. Campaigns for the University Station, and the Non-Introduction of Car-Park Fees have been won. NUSA has also a very high success rate with student cases.

Mr Matt Cantrill said, "With the SRC being so successful, we will now see the same level of commitment in the national arena."

Corporate Wardrobe

Following considerable interest expressed by members of staff in response to a circular issued recently regarding the introduction of a non-compulsory University "corporate wardrobe", a Committee has been established to select a suitable range of clothing.

Staff will be advised in the near future as to further developments. However, it is envisaged that a fashion parade for the female wardrobe will be held early in March (on a date yet to be advised) so that interested staff may view the collection (with orders to be placed soon thereafter). Notification will be forwarded to Departmental Secretaries (and an announcement published in the University Bulletin) as soon as details have been finalised.

A similar arrangement is proposed for male clothing.
Around the Campus

Air Niugini Aptitude Testing Here

In December, Air Niugini sent seven trainee national pilots to the Institute of Aviation for aptitude testing. The testing included an interview; test flight in the simulator; and a battery of pencil and paper tests. The seven students were accompanied by Mr J. Wemin, Manpower and Research Officer; and Mr P. Coffey, Personnel Officer for Air Niugini.

The photograph shows the seven students: (back row) Albert Momberger, Samiu Taufu, Philip Tengdui, Michael Terim, Lawrence Koyama, Eugene Korokoro and Leon Poon with Mr Wemin and Mr Coffey of Air Niugini, with the staff of the Department of Aviation: Mr David Christley, Mr Michael Ross, Ms Irene Henley and Professor Ross Telfer.

Fundament for research

No, it's not a new swimming pool, it's the earthworks for the Advanced Technology Centre being built for the University and Pacific Power (formerly the Electricity Commission) near the Hunter Union.

Hwa Rang Tae Kwon Do Club & Society

The University Tae Kwon Do Club is a part of the Hwa Rang Do Club which is recognised by the World Tae Kwon Do federation and the International Olympic Committee.

Our club trains twice a week on campus and has a dedicated third dan black-belt instructor, Ben Capotosto. We take part each year in the Inter-varsity competitions and always bring back medals.

We are also a social club holding functions such as barbecues and dinners throughout the year. These functions are well attended and generally fun.

The club commences training in the first week of first semester and continues through the semester breaks and into December. Training is great for stress relief and helps you focus on your studies.

This year we are also running free self-defence classes for women. We have been asked to run these classes because women have been attacked on-campus. The classes will be divided into three continuous parts, starting with basic moves and grading to more advanced techniques. You don't need great strength or experience to learn our techniques, just wear something comfortable and come to the Hunter Gymnasium each Tuesday from Noon to 1 pm during semester.

For further information please contact Ben Capotosto at 21 5815 or David Wilks at 49 7707.

Sportsperson-of-the-Year

The Sports Union invites nominations for the award of "Sportsperson-of-the-Year" from students of this University who have recorded outstanding sporting performances during the 1991 academic year. The prize for the award is an equipment/travel scholarship which is sponsored annually by the Universities Credit Union.

Nomination forms and general standards and conditions for the award are available from the Sport & Recreation Office. Closing date for receipt of nominations is Friday, March 29, 1992.

UNIVERSITY PRAYER BREAKFAST

Everyone is welcome to the University Prayer Breakfast to be held on Thursday, March 5, in the Tree Tops (above the Brennan Room), University Union from 8 to 9 am.

The time of prayer, music and fellowship is planned to reflect the diverse nature of the University and to be a commencement of the University Year.

People of all faiths and traditions are encouraged to participate.

Further details can be obtained by contacting the Chaplaincy Office on Extension 5571.

BULLETIN • 13
For Sale
VW Cabriolet Convertible (electric-fold-down roof), silver-grey, as new and in excellent condition, 1991 model, 13,500 km. Registered until June, 1992. For further details, please telephone Ingrid at Ext. 5608 or 32 8087 (a.h.).

Stereo AWA -(three-in-one) plus two speakers, $100; Bar - 120 cm. length, 50 cm. width and 102 cm. height, $80; Lawn Bowling Kit - Henselite Heavy Weight, Size 4 No 4021, plus bag, $30 and T.E. 12 Hiltiing Kit - Hense1ite Heavy Weight, Ext 6000 and 50 8017 (a.h.).


1977 Toyota Corolla CS manual sedan in good condition, no rust, mechanically excellent and is registered until the end of May, 1992. Asking price: $2,500 - all offers considered. Please telephone 57 2235 after 5 pm.

1980 Honda Accord in excellent condition (very economical around the town or on longtrips). Long registration (January, 1993) and has a Pioneer stereo (still under warranty). Ideal for first car buyer or student or anyone that’s looking for a good looking, reliable car with a lot of get-up-and-go. Asking price: $5,990 or near offer. Please telephone Jenny at 87 1853.

Brick and tile home set on well cared block with lovely established gardens, in quiet cul-de-sac and within easy walking distance to University and Stockland Mall. Comprises three bedrooms, lounge and dining areas, modern kitchen and lovely three-way bathroom. Quality inclusions - carpets, blinds, curtains, ceiling fans, lights and fittings - built-ins, security locks, air-conditioning etc. Pleasant outlook and considerable privacy. Please telephone Ext. 6026 or 51 3950.

Luxury Townhouse in Bar Beach (only 200 metres from the Junction shopping centre and 400 metres from the beach). Three large bedrooms plus two bathrooms, three WC’s and family room plus two courtyards, lounge and dining rooms plus garage. Brick veneer upstairs, double cavity brick downstairs (only two years young). Asking price: $225,000. Please telephone 29 3129.

Apple BC computer - includes Apple Scribe printer. extra 5.25" disk drive, joystick, mouse, computer desk and software. Asking price: $1,200 or near offer. Please telephone Ext. 5517 or 50 1604.

Five solid internal doors with original fittings (approximately 80 years old). Asking price: $80 each or will sell separately. Please telephone 57 2235 after 5 pm.

Ladies brown leather jacket (large). Waist length with belt in excellent condition. Asking price: $160 or near offer. Please telephone Anne at Ext. 6444.

Wanted to Buy
Furniture, new or old, deceased estates, housefuls, china, porcelain etc. Cash buyer will call. Please telephone 59 5646 (b.h.) or 59 2319 (a.h.).

Caretaker
National Trust seeks caretaker for property near Braxton. Offers three bedroom unfurnished house for at least two people, rent free in exchange for weekend work acting as guide for tourists (during week days only by prior arrangement). Tend gardens and water plants. Applicant must have background in building/architecture fields. Please contact Ms Kath Dacey, Accommodation Office at Ext. 5595.

For Rent
Furnished cottage in Hamilton. Convenient to Uni buses and Beaumont Street Shops. Full use of one bedroom, large lounge/dining room, large kitchen and carport. Excellent opportunity for mature person (over 25 years) and non-smoker. Available from April, 1992 to January, 1993. Please tel. 613941 after 6 pm.

Dear Editor,
My previously reported cases of dying grandfathers (related to students’ failures) are alive-and-well in 1992. Final year student (having just received his results): “I think I failed your part of the Technology module.”

Lecturer: “Yeah!”
Student: “My grandfather died.”

Lecturer: “Yeah? (looking at the student’s record) You ran out of grandfathers last year!”
Student: (clearly thrown by the situation and fighting to make his two stories compatible): “Err... They got divorced... and remarried... and died!”

Is this a unique case of biological recursion, biological control or just further confirmation that maths teaching in NSW schools is failing?

Dr Roger Coldwell,
Department of Curriculum Studies.

Dear Editor,
I support wheelchair-bound people in the community by teaching them how to use microcomputers. By this means a number of them are able to gain employment. It would be of significant help if I had access to more games for both IBM and Macintosh machines. Please would anyone, who has games software, consider giving me a copy? On receipt, I would approach the manufacturer and ask them for permission to copy the software for this purpose. I have never had a refusal yet.

Dr Roger Coldwell.

Office For Research
Granting Bodies - Research Publications
The following research publications are available for short-term loan from the Office for Research (phone x5305):


ARC: Research Centres Program 1991 Compendium of ARC Special Research Centres and Key Centres of Teaching and Research.

QUASAR - Telecom Journal Vol 7 No 2 1991


IDS Research Network News. Includes a short description of research projects funded by the SIDS Council; future directions for SIDS research over the next five years and a list of papers and posters being presented at the SIDS Family International Conference to be held in Sydney in February 1992.

DTAC: Australia/United States Science & Technology Workshop 1990 - Workshop Report

Antarctic Research Priorities for the 1990s: A Review. Priority areas are: the natural environment of Antarctica; weather and climate; Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and the Southern Ocean ecosystem; environmental management; social sciences; technological research.
Commonwealth AIDS Research Grants
Support for individuals and research teams for research into all aspects of HIV infection and its prevention. March 2, 1992

Federal Office of Road Safety (FORS)
Research into road safety issues, including education of high risk groups; road safety practice; vehicle production and transport of dangerous goods. March 3, 1992

Department of Planning, Heritage Assistance Programs in NSW March 3, 1992

NH&MRC Public Health R&D Committee Development Program Grants March 9, 1992

Egg Industry R&D Council Travel/conference applications. March 10, 1992

Chicken Meat R&D Council Travel/conference applications. March 10, 1992

Environmental Trusts 1992 Grants Grants in the areas of pollution reduction, environmental restoration, environmental research and environmental education. March 18, 1992

The Cancer Council Travel Grants-In-Aid Grants to meet the costs of travel to attend overseas conferences where abstracts have been accepted for presentation of work; attend an overseas institution to receive a period of training (up to 3 months) Max $2,500. March 21, 1992

The Cancer Council Awards for Postgraduate Education & Training in Oncology. Funds available for educational or training programs, workshops, seminars, production of education resources. Grants of $5,000 or $10,000 will be the norm. March 21, 1992

NO SET CLOSING DATE

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

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

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

The Institution of Engineers Australia-International Conference Support Scheme
Support for selected international scientific, technological or engineering conferences.

National Campaign Against Drug Abuse.
DITAC Access to Major Research Facilities Program
To facilitate travel to major research facilities overseas. Apply at least 7 weeks before intended date of travel.

NSW Education & Training Foundation
BHP Community Trust
RADGAC - Department of Health, Housing & Community Services. Medical research and targeted research areas.

Research Management Committee Travel Grants
Research Management Committee Research Visitor Grants
Wellcome-Ramaciotti Research Travel Grants

This list is also circulated to all Heads of Departments on a fortnightly basis.
**Orientation Week**

**Computer Promotions**

The University Computing Services, in conjunction with Microsoft, WordPerfect, Apple Centre Newcastle and Maintain Axis Computers will be putting on a display of the latest hardware and software for both IBM-compatible PCs and Apple Macintoshes.

Staff and students will have the chance to win packs of the latest Microsoft and WordPerfect software valued at over $1,500. In addition, Microsoft is offering a free backpack valued at $45 to anyone purchasing $200 worth of Microsoft software.

Apple Centre will also have a special promotion for the two weeks whereby staff, students and departments can get added discounts selected hardware bundles.

The promotions will be run at the following locations and times:

**Orientation Week, March 2 to 6:**

Foyer of the Hunter Building
Monday and Tuesday 10 am to 7 pm.

Foyer of the Computer Teaching Building
Wednesday and Thursday 10 am to 7 pm.

**Union Week, March 9 to 13:**

Shortland Union Building
Monday and Tuesday 10 am to 6.30 pm.

Come along and win software or a backpack, get a bargain, or simply learn about the latest hardware and software.

---

**FREE CONCERT**

**Sunday Interlude Series**

**Sunday, March 1, 2 pm**

Music by Bach, Handel and Gounod played on the magnificent Smenge concert organ by Michael Dudman and featuring the superb voice of Katharine Capewell.

Afternoon tea will be served.

Conservatorium Concert Hall, Auckland Street, Newcastle. Enquiries: 29 4133.

---

**Print File**

The following are some of the articles concerning the University which have appeared in the press since the between February 1 and 21. Copies are kept in the Information and Public Relations Unit (ground floor, Chancellery) for perusal.

**Newcastle and Maintain Macintoshes.**

**February 1 and 21.** Copies are kept in the Information and

**Bryson NH, Feb 3: Growth challenge for NH. Feb 1: Demand forces increase in (Uni) entrance levels**

**NH, Feb 6: Lepidopterist's lament (with pic Andrew Atkins)**

**NH. Feb 5: Liesl Tesch feature NH, Feb 5: Graduates open art gallery**

**NH, Feb 4:**

**NH, Feb 3: Academe stifling debate (letter from Leif Lemke)**

**NH, Feb 2: New hopes for East End student accommodation**

**NH, Feb 5: Demand for course in (Uni) entrance levels**

**Post, Feb 5: Mixed response to pollution call (Dr Day)**

**CRW, Feb 13: Railway first for Newcastle**

**CRW, Feb 13: Funds for chronic fatigue research CRW, Feb 13: Railway first for Newcastle**

**NH, Feb 14: Obituary, Roland Robinson, (he)**

**NH, Feb 12: Bond (he)**

**SMH.**

**Post, Feb 12: Poetry preview (Assoc. Professor Talbot)**

**Post, Feb 12: Music awards (Denise Paterson presenter)**

**Post, Feb 12: Students look for bus route rooms**

**NH, Feb 12: Ms Fiona McNaught wins Doris Smith Scholarship**

**Star, Feb 12: University railway station**

**Star, Feb 12: Small business courses**

**Star, Feb 12: Graduates open gallery**

**NH, Feb 13: Student killed on geography trek**

**Tele, Feb 13: Student fails to death**

**CRW, Feb 13: Funds for chronic fatigue research CRW, Feb 13: Railway first for Newcastle**

**NH, Feb 14: Obituary, Mr Andor 'Jack' Doczy NH, Feb 15: Liquid waste problem (letter from Dr Day)**

**NH, Feb 15: Passion of a poet's heart (Roland Robinson feature)**

**NH, Feb 17: Child care centre for campus**

**NH, Feb 17: Wanted vs needs (letter from Assoc. Professor Duggan)**

**NH, Feb 19: Concerns remain on art gallery (letter, Mr Garry Jones)**

**NH, Feb 19: Uni finds homes for students**

**NH, Feb 19: Mr W. Bowmore opens Peter Singleton exhibition**

**NH, Feb 19: Student found dead after party**

**Star, Feb 19: Conservatorium birthday concerts**

**NH, Feb 20: Academics challenge retirement orders**

**NH, Feb 20: Drugs in sport (with pic Professor White)**

**NH, Feb 21: End pollution damage to heritage (with pic, Dr Day)**

**NH, Feb 21: Needle exchange sought for uni drug users**

**NH, Feb 21: Uni not exempt from retirement law**

(NH-Newcastle Herald; Post-Newcastle and Lake Macquarie Post; Star-The Newcastle Star; Tele-Daily Telegraph-Mirror; SMH-The Sydney Morning Herald; CRW-Campus Review Weekly.)