YOU CAN’T COMPETE WITH INFLUENZA

The ‘flu, or more correctly, influenza, is still baffling scientists. With the chillies of winter come the runny noses and coughs, and doctors’ waiting rooms are filled with patients hoping for a final cure for this “bug” they call influenza.

While the common cold can be caused by a large number of viruses, true influenza is caused by a more specific group of *influenza viruses*, which can only be beaten by vaccination.

Newcastle University’s, Associate Professor Greg Tannock, whose laboratory is the only Influenza Evaluation Centre in Australia, has been working towards developing vaccinations against influenza for a number of years. The problem, he says, lies with the fact that the influenza strain changes every year and that our vaccinations are relatively specific.

An article by Dr Tim Charles, published in a recent issue of MBF’s *Living Well* magazine, explains that although there are only three main groups of the influenza virus, A, B and C, they have a wide range of different proteins (antigens) on their surfaces. Different combinations of these antigens result in a large number of influenza strains.

Furthermore, the viruses of the northern hemisphere winter spread rapidly across the world to attack victims in the southern hemisphere winter.

In an effort to develop a vaccine which gives “better, broader and longer protection”, Associate Professor Tannock has enlisted the help of Russian scientist, Dr Julia Romanova. Dr Romanova is researching the effectiveness of “live attenuated influenza vaccines” at the Institute of Experimental Medicine (part of The Russian Academy of Medical Science) in St Petersburg, Russia.

Dr Romanova is in Australia as part of a three year agreement between The Russian Academy of Medical Science and The University of Newcastle. The work is supported by Federal Government funding and the Senate Research Committee.

Dr Romanova explained that a live vaccine contains the essential determinants of an epidemic strain. The live virus within the vaccine is able to be changed by recombination. A new vaccine strain, which contains the essential determinants of the new virus, is thereby produced. This new vaccine will immunise without causing symptoms of the disease.

Although live virus vaccines (which are administered as an intranasal spray rather than by injection) have been used in Russia for 20 years, they have not yet been accepted in the western world. According to Associate Professor Tannock, live vaccines are currently being trialed extensively in the USA, but the medico-legal issues involved are, he says, “making life very difficult”. Associate Professor Tannock predicts however, that live attenuated influenza vaccines will, in the longer term, play a greater role in the western world.

Live influenza vaccines are administered to all children in Russia at the age of three. Dr Romanova says that these immunisations will provide longer and more lasting immunity than existing vaccines.

Interestingly, children in Australia are not, as a rule, immunised against influenza.

“We have a different philosophy in Australia,” Associate Professor Tannock explained. “We don’t think that influenza is a serious disease in children, but that is incorrect. Influenza can kill,” he warned.

Dr Tim Charles writes that “the National Health and Medical Research Council recommends that only those at increased risk of serious complication need to be immunised. These include all people over the age of 65, adults and children with diabetes, chronic disorders of the heart, kidney or lung problems, as well as people who take medicines which suppress the immune system, including anti-cancer drugs and steroids.”

Associate Professor Tannock believes that with the eventual introduction into the Australian market of live influenza vaccines, which he points out, are considerably cheaper, it will become feasible to introduce vaccination for all children, the elderly and people with suppressed immune systems.

Early vaccination is important. Associate Professor Tannock explains that “nobody is able to predict an epidemic.” He adds laughingly that you simply can’t compete with influenza - “that’s what keeps us in business!”

Associate Professor Greg Tannock with Dr Julia Romanova
SEXUAL HARASSMENT

The majority of readers will be aware of the recent media interest in the issue of sexual harassment on university campuses. Like many issues, it is one that we would prefer to believe applies only to other universities. But does it? Consider the following:

*A 19 year old female student is asked out on a date by her lecturer. She says no, but he continues to ask her and she begins to dread attending his class or meeting him in the corridors.

*A first year male student who is often in the company of a particular male friend is assumed by other students and a couple of his teachers, to be homosexual. He is the target of anti-gay jokes and comments, including references to AIDS, from both groups of people. He plans to transfer to another university to get away from the harassment.

*A first year male clerical assistant, new in her job, gets lots of "friendly" pats from the much older Head of Department, who is a professor. This touching makes her feel uncomfortable, but she is in awe of her boss and keen to do well in her job. As time goes on, the pats become more lingering and personal, and she doesn't know how to stop him. Going to work begins to make her feel sick.

These examples are typical, documented and regularly repeated scenarios at many universities. The University of Newcastle 1990 EEO Survey, conducted with all staff in March 1990, showed that 13.2% of female academic staff and 9% of female general staff had experienced some form of sexual or sex-based harassment here, at the hands of their colleagues, in the two years prior to the survey. The survey did not extend to students' experience, but indications from both staff and students are that students' experiences may be comparable, if not worse. This type of harassment is contrary to Anti-Discrimination Law, and to University policy and is totally unacceptable.

Harassment is often explained away as "just being friendly" or "only joking", but sexual harassment is neither friendly nor funny. If behaviour is genuinely perceived to be harassing by the person on the receiving end, then it is harassment, in all but the rarest of cases. The key to understanding what constitutes harassment may be the power imbalance between harasser and victim. In all the scenarios described above, the person harassed held a less powerful position, often much less powerful, than the harasser. Except in student-student harassment, which is not covered by NSW or Federal Legislation and in which power differences are less marked, almost all harassment on campus involves an older more powerful harasser and a younger less powerful victim. This is not to suggest that harassment is limited to such situations. Other situations can also constitute harassment: a younger man can sexually harass an older woman, one man can sexually harass another man. The particular at the time when amalgamation proposals were being put forward. She stated that the amalgamation debate encouraged the people of Newcastle and the Hunter Valley to "think more about the institution and to see it as something excellent that was home grown".

The University's goal now, she says, must be to work hard and do what is best for the region and for the people who live here.

Margaret Bowman's down-to-earth manner was exemplified in the speech she made during the ceremony. "There are times when I feel an awful fraud for being honoured by an academic institution," she said, adding that the University had shown her overwhelming esteem and appreciation.

"If my distinctly unacademic services have been of value then I am satisfied," she said, thanking the University for its "concrete" recognition of her work.

The Bowman Building will remain a symbol of Margaret's dedication to this University and to the community it serves. In Dr Huxley's words, "People may well ask the question in the future, Who the hell was Margaret Bowman, but at least they will ask!"

The Deputy Chancellor, Dr Peter Hendry, expressed the view of all who knew Margaret Bowman in saying that this was an honour she "richly deserves".

Margaret Bowman, or Maggie to her friends, is a woman of exceptional will and energy. During the official dedication of the Bowman Building to Margaret Bowman, Deputy Vice-Chancellor (Planning), Dr Doug Huxley, described her as a woman who was "always forthright, mostly fearless, sometimes fearsome, but fortunately, mostly friendly".

Margaret Bowman served the Hunter Institute of Higher Education as a Member of Council from April 1981 to October 1989. She was President of Council from April 1983 until April 1988 and was a Member of the University of Newcastle Council from June 1982 to February 1988.

But Margaret's association with the University goes back further than this. She was a student at Newcastle Teachers College and Newcastle University before either of them were on this campus. The eldest of six children, Margaret was born and bred in Newcastle and as such has a great affinity with the community.

Dr Huxley explained that Margaret, apart from being a busy and energetic Member of Council, was also a busy and energetic member of the community. "She knew the kinds of things the community wanted and deserved from her higher education institution," he said.

Margaret believes it to be essential that links exist between the University's governing bodies and the community it serves. "After all, it is ultimately their children, or they themselves who are going to attend the institutions," she said, adding that the views of the community are extremely important.

Margaret says that during her eight years with Council, she sought the support of the community in many issues, and in particular at the time when amalgamation proposals were being put forward. She stated that the amalgamation debate encouraged the people of Newcastle and the Hunter Valley to "think more about the institution and to see it as something excellent that was home grown".

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Margaret Bowman with husband Don (r) and Deputy Chancellor, Dr Peter Hendry (l)
MOVEMENT, BIOMECHANICS AND PERSONAL HEALTH

Although NSW Physical Education teachers would, no doubt, be happy that their subject has finally gained credibility, many are struggling to cope with the new curriculum that has been implemented. The Physical Education course taught at state high schools now encompasses Personal Development and Health as part of the four core-units offered.

Not only are the teachers struggling to meet the criteria set, many HSC students are facing difficulties. To this end, a Year 12 Study Day for Personal Development, Health and Physical Education students was held at Newcastle University, under the direction of Health lecturer, Marie Williams.

Marie, who was asked to contribute to a similar Study Day held recently at the Kuring-gai Campus of the University of Technology, Sydney, says that the Newcastle Year 12 Study Day was held in response to a need in the Hunter.

Nine Hunter schools have already introduced the course, with 110 Year 12 Hunter students gearing up for their HSC. In NSW, 1563 Year 12 students will sit the exam for the new PD, Health and PE course.

Three of the four core-units were covered during the Study Day, with Marie covering aspects of the Community Health unit. Ms Ann McCormack covered the Skill Development and Composition core and Dr Kevin Norton explained aspects of The Science of Movement core. (Interestingly, Dr Norton was a student of Marie’s in Adelaide).

Marie emphasised that it was important for the University to ‘nurture links with schools and the community groups involved in its courses’. She is of the opinion that the Study Day provided an excellent avenue to do this and said that the day was of great benefit to those Year 12 students sitting for the PD, Health and PE exam this year.

Marie added, however, that this was a pilot study only. “It will need to be evaluated and if it is the outrageous success we anticipate, we will conduct a more extensive program next year”.

THE UNIVERSITY BY-LAW
(Chapters 6-13) was gazetted on Friday, July 17, 1992.

The University now has a complete By-law and effective from July 17, 1992 all the By-laws made under the University of Newcastle Act 1964 and the Colleges of Advanced Education Act 1975 have been repealed.

The Vice-Chancellor, Professor Morgan said that the making of the total By-law represented a significant development for the University following the amalgamation in 1989.

The By-law covers the Council; Aca-
TUNRA

Australia has always been the clever country, with world leaders in almost every field of sciences, engineering, the arts and medicine. According to Dr Alec Forsythe, Chairman of TUNRA, The University of Newcastle's commercial and consulting arm, the only problem has been that these great skills have remained locked up within our universities and other academic research centres.

TUNRA (The University of Newcastle Research Associates Limited) plays a vital role in unlocking such ideas from within the University and realising their commercial potential. To do this, TUNRA provides a broadly based research and specialist education service to industry, commerce and the community.

TUNRA's Chief Executive Officer, Mr Karel Grezl, says that after 23 years of acting as the link between the University and private enterprise, TUNRA's credibility with both University staff and industry is high. This is confirmed by the enormous growth the organisation has enjoyed in that time. From a start-up with no sales or assets, TUNRA now trades through six operating Divisions, employs 26 staff and works closely with University Consultants.

TUNRA is totally self-funding, and does not receive grants from either the Government or the University. The tough economic times currently being experienced by the Australian business community were reflected in a loss by TUNRA in 1991. However, pro-active marketing strategies have been developed to reverse this trend.

"The next twelve months will be crucial. Times are tough, but with tight management and careful budgeting, coupled with a venturesome and visionary outlook, we are returning TUNRA to profitability," Mr Grezl says.

As the shop-front for the technical expertise of the University, now more than ever, TUNRA can offer a vital service to Australian industry, which is facing a tough, highly competitive economic climate.

TUNRA can help businesses tap into the vast resources of academia and point out the advantages of investment in long-term research, which can play a key role in helping businesses to survive and be competitive.

TUNRA's activities have a very broad scope, incorporating six operating Divisions. The longest standing of these is the Buik Solids Division, which was set up in 1975 under Professor Alan Roberts, now Director of the School of Engineering. This Division uses its expertise to solve million dollar problems for an impressive list of clients, including BHP, Comalco Aluminium, CSR Ltd, ICI Australia, and James Hardie & Co Pty Ltd. It has undertaken over 700 projects for 300 companies, including crucial design and testing work for the Mt Channar iron ore development in Western Australia, which saved the client company considerable expense.

Another Division of TUNRA, Hunter Occupational Health, under Professor David Christie, Professor of Environmental and Occupational Health, provides an independent consultative service on all aspects of health and safety in the workplace. Opinions of the team are sought by the legal profession and patients with work-related illnesses are referred for diagnostic consultation.

Other Divisions of the Company cover areas as diverse as flotation, statistics and quality management, satellite tracking and environmental assessment and management. Apart from this, TUNRA has also been closely involved in the exploitation of intellectual property in the form of patents and software; in addition to the work of the Divisions this has meant exposure and experience in the areas of photogrammetry, industrial process control, immunology, and management systems. All of this experience has come without cost to the University.

Crucial to TUNRA's success has been the ongoing process of team building. TUNRA's executives bring to the team a wealth of experience. As an example, TUNRA's Technology Development Manager, Mr Stephan Wellink, has had a broad range of business exposure in Australia and overseas. As well as working as a research scientist, Mr Wellink established and operated a business, and developed and marketed internationally a scientific instrument in collaboration with the CSIRO.

A former rugby league coach, Mr Wellink claims that business would do well to take a leaf out of the coaching manual of the Newcastle Knights. The Newcastle rugby league team has built itself up in only a few years to become serious contenders for the premiership through teamwork and commitment.

"We are very proud of what TUNRA has achieved since 1969," Mr Wellink says, "It has become an integral part of the University. The stronger we become, the stronger the University becomes, particularly in regard to commercialisation of technology."

"The survival of Australian industry depends on the competitive edge gained by investment in research and development. TUNRA is well positioned to provide just this edge."

by Jane Hooker, final year BA (Communication) student, CSU Mitchell, on work experience with the Information and Public Relations Unit

ART COMMITTEE DINNER

A GREAT SUCCESS

The University Art Committee's second Annual Dinner held recently was a great success according to those who attended.

Guest speaker at the dinner, Director of the Museum of Contemporary Art in Sydney, Mr Leon Paroissien, entertained guests with a lively speech about the development of the art world in Australia since the 1970's.

He told of his childhood in the Gippsland Region of Victoria, being exposed to art in the form of lithographs, paintings and 19th century postcards of French and English origin.
FLUCTUATIONS IN THE EARTH'S MAGNETIC FIELD

Although the terms ULF plasma waves and geomagnetic pulsations may not mean a great deal to the majority of us, the practical applications of research into these phenomena will take on increasing importance as our multi-billion dollar space communication industry continues to expand.

The Earth's magnetic field is known to show large fluctuations with time. These are caused by ultra-low frequency (ULF) plasma waves, which are observed on the ground as geomagnetic pulsations or fluctuations and contain information about a variety of phenomena deep in space. Geomagnetic pulsations are used as a diagnostic tool enabling us to obtain information about space weather conditions upon which the function of geostationary satellites and space communication systems are so dependent.

More recent applications are in exploration for geophysical prospecting and studies in seismic-active regions of the former USSR. Recently it was discovered in Russia that powerful cyclones and tornadoes are preceded for several hours by specific magnetic pulsations. The observations of these pulsations may be used as a predictor of these natural disasters events.

Professor Keith Cole and his wife, Professor Valerie Troitskaya, both experts in the area of space physics, recently visited Associate Professor Brian Fraser and the Space Plasma Waves group in the University's Physics Department as part of collaborative research work recently initiated between La Trobe University in Melbourne, Newcastle University and the Australian Antarctic Division in Hobart. The research is supported over 1991-1993 by a University of Newcastle Research Management Committee Research Excellence grant.

Professor Cole is Head of the Theoretical and Space Physics Group at La Trobe University. Professor Troitskaya was Head of the Department of Electromagnetic Fields of the Earth at the Institute of Physics of the Earth in Moscow, before coming to live in Australia. She has been made an Honorary Professor of La Trobe University.

The couple now spend much of their time in the USA, where Professor Troitskaya is conducting work for NASA on the geomagnetic fluctuations observed by the Dynamics Explorer Satellite. She is generally acknowledged as the world pioneer in this field.

Currently Professor Troitskaya is comparing the pulsation measurements conducted on the ground to measurements by satellites in space. Professor Fraser has done similar comparative work and according to Professor Cole, the work conducted on ULF space plasma waves and geomagnetic pulsations at this University, under Professor Fraser's leadership is "first class".

While Professor Cole's interest lies in the area of plasma physics, his work is closely connected to that carried out by Professor Fraser's team. "All these things are interconnected with geomagnetic fluctuations," he explained, adding that the processes being studied involve the interaction of the Earth with interplanetary space. Professor Cole explained that the Earth's atmosphere is surrounded by a plasma layer (ionized gas broken up into its charged particles) and that it is the response of that medium to electric and magnetic fields that is being studied.

Professor Cole indicated that the Earth's magnetic field is considerably deformed by a solar wind (caused by the expansion of the sun's outer atmosphere) which blows continually past the Earth at a speed of 500 km per second. Disturbances on the sun (or gusts in the solar wind) produce auroras over a large fraction of the Earth, due to a deformation of the Earth's magnetic field.

Unusual activity in ULF plasma waves and geomagnetic pulsations accompanies these disturbances on the sun, and it is this activity which is of major interest to Professor Fraser's research group. The group has set up twelve monitoring instruments in various places around Australia in order to register geomagnetic pulsations over a wide area. It is hoped that the observations recorded by Professor Fraser will be more closely combined with those of the La Trobe and Antarctic research teams so that a more complete understanding of geomagnetic pulsations may be obtained.

"This type of fundamental research is vital before you can ascertain and carry out the many practical implications of this work," Professor Cole said.

SEXUAL HARASSMENT

Continued from p2

to expect members of staff to be aware of this and to monitor their own behaviour accordingly. A friendly comment to a colleague about appearance or dress may be one thing. A similar comment from a professor to a new tutor, from a lecturer to a young student or from a supervisor to a subordinate may be perceived as, and constitute, sexual harassment. There are many opportunities for staff to interact pleasantly and harmoniously with their junior colleagues and their students without focussing on sexual differences, or exploiting those differences.

There is no one formula staff can be given to help them avoid offending against the University's policy on sexual harassment. Perhaps it would help to realise that relating to others chiefly in terms of their gender or sexual identity is inappropriate in work life. Sexist language, "friendly" touching or inappropriate social advances can be as offensive to a colleague as comments about physical or professional inadequacies. They all imply a lack of respect for the other person, a lack of consideration for that person's feelings. In a work context, they can be very damaging to a person's effectiveness and productivity. This University cannot afford any influence which decreases its ability to be effective and productive.

Over the next four months the EEO Unit will be addressing this issue through the refinement of the University's policy and the introduction of a range of Staff Development activities, addressing harassment, how to deal with it, how to modify such behaviour, formal processes for expressing a grievance on these grounds, etc. You are all invited to participate.

L R Eastcott
Director of Affirmative Action
THE LANGUAGE OF PLAGUARISM

Professor John Burrows, from the University’s Centre for Literacy and Linguistic Computing, has recently returned from a successful tour of Britain where he gave a series of lectures about his unique method of statistically analysing writing methods by computer.

Professor Burrows had been invited by a number of British universities to speak about the research his team has been carrying out for many years into a method of distinguishing accurately between the writing styles of different people.

Professor Burrows aroused much interest in his research methods during his seven week overseas visit. He delivered a paper at a conference for the Association of Computers and the Humanities in Oxford, and conducted a seminar for the English Faculty at Cambridge University. He was also invited to give lectures by the English Departments of Glasgow and Nottingham Universities, and spoke about his research at the Institute for Advanced Studies in Humanites in Edinburgh.

At the same time, another member of Professor Burrows’ research team, Dr Hugh Craig, was visiting the United States, where he had been invited to speak to the American Shakespeare Association.

“We were very well received,” Professor Burrows said. “They were very interested in what we had to say.”

Professor Burrows’ research team is the only one of its type in Australia, and one of only a few in the world. “Similar units are spreading through Britain, Scandinavia, France, Germany and the USA, but they are still uncommon,” Professor Burrows said.

The team’s research methods remain unique in the field. “No-one does it quite like us,” Professor Burrows said.

Put very simply, Professor Burrows measures the frequency of common words in a piece of writing, making it possible to predict whether two pieces of writing were written by the same person, or within the same time-frame, country and so on.

According to Professor Burrows, such research has enormous application in many areas. “It’s such a huge field,” Professor Burrows said. “The applications for computing, language and literature are enormous.”

The team’s research is not only of interest to people studying the history and form of language, and language as it applies to literature, it also has legal implications in its ability to detect forgeries and plagiarism. Professor Burrows believes that the team’s research could become widely used as court evidence.

“By testing doubtful examples against pure ones, we are able to detect forgeries,” Professor Burrows said. “We have to be very careful in this area because we are dealing with people’s reputations, but in cases where somebody dishonestly imitates the work of somebody else, we’d have a good chance of showing something is wrong.”

At the moment, Professor Burrows is researching differences between writers of different nationalities. He said that he had already obtained some very interesting results in this area. “For example, we have found noticeable differences between Australian and New Zealand writers, which many people may find surprising.”

Professor Burrows is visiting the University of Western Australia, Perth, in October, and, depending on funding, hopes to tour the United States next year.

by Jane Hooker

MEMOIRS OF COUSIN JACK

The memoirs of a famous Novocastrian, Mr Alfred Goninan, have been edited and published in a book by the Head of the History Department, Associate Professor Lionel Fredman.

The book, published by Associate Professor Fredman’s family company, is called A Cousin Jack in Australia, The Memoirs of Alfred Goninan - Engineer.

The twenty-one ruled foolscap books of memoirs had been in the possession of Mrs Alfreda Marcovitch, Mr Goninan’s daughter, who died last year at the age of 93. Associate Professor Fredman said the memoirs had been edited about half of what Mr Goninan had originally penned.

Mr Goninan came to Australia from Cornwall, England, in 1899, and founded a workshop at Wickham.

This moved later to the existing A. Goninan site in Griffiths Rd, Broadmeadow.

He also established Commonwealth Steel, but was cased out of A. Goninan in 1933. Eventually the firm was bought by the Howard Smith Group.

Goninan Platers, situated next door to the heavy engineering works, has no connection, other than the founder’s name.

The buildings at A. Goninan are virtually as they were in Alfred Goninan’s day, when he established the business as a general engineering firm. He quickly capitalised on the demand for equipment such as boilers and hoppers to serve the coal industry.

These days A. Goninan has specialised in the production of the Tangara trains and is among the largest manufacturers of rail rolling stock in Australia.

Mr Goninan wrote a booklet in 1926 which reflected the boom feeling of the late 1920s in Newcastle.

“It was full of self-confidence and optimism and he spoke of the vision for Newcastle as the Pittsburgh of the Pacific. Of course all that came tumbling down in the 1930s,” Associate Professor Fredman said.

Associate Professor Fredman said the book was being published with the approval of the Goninan family, who were very proud of Alfred Goninan’s achievements.

He said Mr Goninan’s daughter, Alfreda, also had an interesting history. An accomplished artist, she went to Paris at a young age, where she met and fell in love with a prominent Yugoslav lawyer and diplomat.

She last heard from her husband in May 1940, when he rang her in Belgrade from Paris to warn her the German Army was approaching.

Associate Professor Fredman said Mrs Marcovitch fled Belgrade on the last train and never saw her husband again. It is believed he was killed in the war.

She went to her father, who was then living in Sydney, and lived with him until he died in 1953, at the age of 88.

Mr Goninan originally emigrated to Australia to join his brother-in-law, Mr Harry Charlston, a well-known Newcastle photographer who lived with the Goninan family in The Terrace, opposite King Edward Park.

Associate Professor Fredman said Mr Charlston’s photos appeared in early books promoting Newcastle.

The book gives an insight into the once-prosperous Cornwall area, where potters, tourists and authors have now taken over from fishermen and miners.

Cornwall was home to a number of people who emigrated to Australia around the turn of the century. “Cousin Jack” is a popular term for immigrants, invariably from the mining regions of Cornwall.

Associate Professor Fredman has also been asked to write a small contribution on the Goninan family for the forthcoming edition of the Australian Dictionary of Biography.
ART COMMITTEE DINNER
Continued from p4

He said that like many others in Australia at the time he perceived that culture was somewhere else, but certainly not in Australia.

"Most Australians felt that Cambridge and Oxford were the bastions of culture. Later on New York became the great art centre," Mr Paroissien said.

"In Australia we still have that lurking notion that culture exists somewhere else. It is very much a western phenomenon, especially in Australia," he said.

After living in New York for a number of years, Mr Paroissien became part of the burgeoning art scene and educational revolution in Australia during the Whitlam years in the early 70's, staying after what was to be a brief return visit.

"We started a dialogue with the rest of the world, putting Australia on the map in terms of art.

"Now I am involved in setting up a museum which will not be receiving any ongoing Government funding, but that's another story," Mr Paroissien said.

"What we have discovered is that an institution such as this can be driven by ideas," he said.

"As for Newcastle, it enjoys a thriving art community and had the first regional gallery in New South Wales so I don't need to issue any challenges here. But I would really like to challenge the people of Newcastle to look at making Newcastle one of the really great art centres of Australia. I think that Newcastle with its history of valuing the arts and being interested in the arts has the possibility of making the arts something that is strongly identifiable with Newcastle," he said.

An evening of good food, music and company was enjoyed by all and the lucky door prize, a painting by Aldona Zakaurauskas was won by Vlase Nikoleski.

The Art Committee presents various art exhibitions throughout the year. It is currently developing the Foyer and other areas of the Chancellery and the Foyer of the Great Hall as exhibition areas and display forum for artworks.

LIGHTS, CAMERA, ACTION

In October last year, Bulletin reported on a creative couple on campus who had not only written and produced a competition video, but had collected two awards for its content, professional expertise and production excellence.

The dynamic video production team made up of husband and wife, David and Jan Crawford, won the Nova Award and placed second in the Mattara National Video and Film Festival for their five-minute video, "Teddy Bear". The story is a heart-tugging tale of a 10-year old boy confined to a wheelchair who makes friends with a truckie via his CB radio.

Well now they have gone one better. The pair have been awarded the top accolade in the "Australian Five Best", an award presented by the Australian Amateur Cine Society which attracted hundreds of entries from all over the world as well as Australia. The award was presented in Adelaide at an international meeting of amateur video makers.

Jan, a technical officer in the Department of Geology and David from the Property Services Division, share a keen interest in video production. Although these are first time awards for Jan, they fall in with a string of national and international awards for David over a 20-year period.

Not content to rest on their laurels they have also written and produced another video for the University's Special Education Centre entitled "Bright Horizons". The 11-minute video explains the Centre's programs and philosophies and has been specially made for children attending the Centre.

"We researched, wrote and produced the video and took two months to edit it in our spare time," David said.

"We are thinking about entering "Bright Horizons" in the corporate video section of the national competition this year," he added.

REACTIVE CLAY SOILS STUDY

The Mine Subsidence Board of New South Wales has provided a $35,000 research grant to the Geotechnical Engineering group in the Department of Civil Engineering and Surveying to investigate the nature and distribution of reactive clay soils in the Lower Hunter and Central Coast regions.

Reactive clay soils undergo large volume changes upon wetting and drying, and are of major concern in residential areas since they may cause severe structural damage as they swell and shrink. The aim of the research, which is to be conducted by Drs Scott Sloan, David Smith and Hai-Sui-Yu, is to shed light on the physical processes that drive reactive soil behaviour and thus determine the significance of these soils as a cause of damage to shallow light foundations.

These types of foundations support a large number of domestic dwellings.

To date, little attempt has been made to collate and interpret the information on reactive clay soils, gathered by many disparate groups in the Hunter Region. This initial study will contribute towards the intelligent application of engineering standards in the design of light foundations.

The research complements an existing ARC-funded research program on soil structure interaction for reactive clay soils which is already being undertaken by the Professors Adrian Page and Rob Melchers within the Department.

Drs David Smith (l), Scott Sloan and Hai-Sui-Yu
UNIVERSITY
SPORTSPERSON
OF THE YEAR
AWARD

SPONSORED BY UNIVERSITY'S CREDIT UNION

Five finalists have been chosen for the University Sportsperson-of-the-Year Award. The winner will be announced at the Blues Dinner which will be held in the University Union on Friday August 7, 1992. Finalists for the Award are:

Kristie Baxter (Indoor Netball), Peter Christie (Tumbling), Anthony Ekert (Rugby), Dayle Linnertson (Golf), Jane Nixon (Hockey).

The Universities Credit Union has sponsored this award each year since 1986, donating a travel/equipment scholarship to the winner.

The Sports Union is pleased to announce that the Credit Union recently agreed to increase its level of financial support for the award winner and to provide each of the remaining four finalists with a grant to assist with sporting equipment or travel expenses.

There are many fine, high profile sportspersons on campus and the Sports Union is indeed grateful to the Credit Union for the opportunity to extend the award so as to allow a greater number of students to receive recognition for their sporting achievements.

AEROBIC TIMETABLE

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STEP A low impact aerobic workout, ideal for all fitness levels. New participants start on a low platform, regulars go higher and/or use hand weights. Improves body tone particularly the legs and bottom. Good for weight control and fitness.

NEWBODY Low impact style aerobic class with the use of optional hand weights. The class incorporates an aerobic “fat burner” component and a session devoted to toning and shaping.

HI/LO A combination of low and high impact moves suitable for all levels of fitness. A challenging workout with great variety.

X TRAINING A complete workout combining both HI/LO and New body moves. Leaves you feeling fit but with energy to spare!

CIRCUIT Circuit training combines both aerobic and strength work in a way that suits any fitness level. Provides toning and definition to muscles.

On the eve of the opening of the Olympic Games in Spain, many of the most promising young athletes from around NSW were gathering in Newcastle to participate in the Hunter Academy of Sport’s second annual Regional NIB Games.

About 600 young athletes from the Hunter, Illawarra, North Coast, and Western Regions took part in the Games, which followed on from last year’s highly successful inaugural event.

The official opening on Friday, July 17, by NIB Health Fund’s Managing Director, Mr Colin Hayes, at the Broadmeadow Basketball Stadium, began four days of competition in 13 different sports, including track and field athletics, basketball, netball, cricket, tennis, cycling, rugby union and rugby league.

Speaking at the official opening, which was attended by representatives of the HAC and other local sporting bodies as well as local Council Members and Parliamentarians, Mr Rogers said the Games gave young athletes the chance to participate in a very high level of competition in a friendly manner.

"The NIB Games were a great success last year, and have grown to become a wonderful opportunity for young people to test their skills in a high level of competition in sportsmanlike, friendly manner," Mr Rogers said.

Executive Officer for the HAC, Mr Ken Clifford, said 6 months of hard work had gone into the preparation for the Games, which once again proved to be a huge success.

"The support we received from the different regions was overwhelming," Mr Clifford said. "For many young athletes the NIB Games provides one of the few opportunities..."
participate in a high level of competition outside the capital cities."

Young Hunter Region athlete, Natalie Evans, said at the official opening, that the Games provided young competitors like herself with valuable experience, as well as the chance to make new friends and renew old acquaintances.

The four days proved to be a showcase of young talent, with the standard of competition in all sports very high, Mr Clifford said the regions were very evenly matched, and cliff-hanger games decided the overall winner in a number of sports. One of the most outstanding matches of the Games was in netball, when teams from Illawarra and Hunter emerged from six round-robin games undefeated to meet each other in the final. At the final whistle, the teams were locked at 14 all, and the winner was decided by tallying up goals scored for and against each team during the competition. Illawarra came out on top by a narrow margin.

In other sports, outstanding performances from the Hunter Region male and female basketball teams saw them come through the competition undefeated, and in cricket, the playoffs between undefeated teams from the Hunter and North Coast scheduled for Saturday, July 18, in Gresford were unfortunately washed out.

Mr Clifford said the success of this year’s NIB Games will ensure they become an annual event. “Everything about the whole event has been excellent,” he said.

Next year organisers hope to extend the games to include teams from each of the six regions in NSW, as well as visitors from Victoria, Queensland, and the ACT.
NEW LIBRARY CATALOGUE NOW AVAILABLE

Library users had their first glimpse of the new public assess catalogue at the end of July, when NEWCAT was logged onto selected terminals in the Auchmuty and Huxley Libraries. The release of NEWCAT is the culmination of an exhaustive selection and implementation process which began in 1991. Innovative Interface's INNOPAC library management system was chosen for its ease of use, sophisticated retrieval software and has been launched under the local name of NEWCAT.

ALLEYCAT will continue to be supported until the new circulation system is introduced in December. Until then, NEWCAT will not indicate if an item is on loan and ALLEYCAT must be consulted for loan and availability information.

The Libraries' audiovisual collections will be represented in NEWCAT and users will now retrieve full details of an audiovisual item. For example, the NEWCAT screen display for the video recording of "Wuthering Heights" will include the cast, production details, a summary of the plot and the location of the recording within the University Libraries.

Furthermore, NEWCAT automatically leads users to other items that have the same subject headings as any particular item they have retrieved. It also allows patrons to browse the shelves without leaving the terminal and provides access to the "behind the scenes" operations of the Library. As various acquisitions, serial control and circulation modules are introduced in stages between July and December, users will see which copies of a title are on loan, which copies are on order, or being processed in the Technical Services Section. For journal titles, users will be able to see which issues have been checked into the Library, which issues are on loan or at binding, and when the next issue is expected.

Finally, for those with access to a PC, NEWCAT offers an Export feature which allows users to save search results in any of three different formats: ASCII text, PBS ProCite and MARC. For example, users have the option to export records in ASCII text format and then use a wordprocessing package such as WordPerfect to create bibliographies or reading lists for assignments.

Access to NEWCAT can be provided easily to staff and students in their offices and departmental computer laboratories via the local area network. At the LOCAL prompt type C BLISS <ENTER>, then at the login prompt type LIBRARY <ENTER>. 

RENOWNED SPEAKER TO VISIT UNIVERSITY

The University of Newcastle Chaplaincy will present the renowned dynamic speaker, Father Paul Collins, to conduct a lecture and seminar about the future role of religion in Australia.

Father Collins, a presenter of ABC television's "Compass" program and Radio National's "Insights" program, is well known for his outspoken and controversial views on current social issues and the need for the Catholic Church to adapt to its changing environment.

He will present an open lecture and discussion entitled "Major issues for the future of the Catholic Church in the next ten years in Australia" on Thursday, August 20 at 7.30pm in the Griffith Duncan Theatre, and a seminar entitled "Religion, Media and Australian Society" in the Treetops Room of the Shortland Union Building on August 21 at 9.30am. The visit has been arranged by the University Chaplaincy in association with the Religious of the Diocese, the Catholic Education Office and the Department of Community Programmes.

Father Collins will bring to his lecture and seminar a wealth of knowledge and experience gained from his background of working as parish priest, school teacher, Associate Professor of the Weber Centre in Michigan, which provides inservice training for those in the Ministry, television and radio presenter, and author.

The author of numerous articles and two very successful books, Father Collins has a Masters degree in Theology from the Divinity School of Harvard University, and recently gained a PhD in History from the Australian National University. He is currently Specialist Editor of Religion for ABC Radio National in Melbourne.

In his seminar and lecture, Father Collins will offer insight into such controversial issues as the environment, education, social justice and religious change; "Unless the Church faces up to the environment issue, it will have little to say to contemporary culture," Mr Collins says. He claims that the Church "needs to strike out an entirely new and creative approach to education... With some radical gospel alternative the Catholic Church can begin to become a serious force for creative change in Australian society".

Father Collins' visit certainly promises to offer much food for thought. For any enquiries, phone 21 5571 or 216648.

by Jane Hooker

FROM CUSTODY TO CARE

A PLAN FOR CO-OPERATIVE PARENTING

A report entitled, Patterns of Parenting after Separation, prepared by the Family Law Council has been submitted to the Minister for Justice and Consumer Affairs, Senator Michael Tate and tabled in Parliament. Professor Frank Bates from the University's Faculty of Law, has been on the Family Law Council for two years, and was a member of the Council's Patterns of Parenting After Separation Committee.

Although Australia has the second lowest divorce rate of comparable countries (New Zealand has the lowest), bitter and sometimes tragic disputes over the "custody" of children are still prevalent. According to the Committee's report, "Children can become pawns in a power struggle between their parents or can be used as vehicles for one or both parents to express unresolved and ongoing dissatisfaction with the breakdown of the domestic relationship. Some separating couples in Australia find themselves unable to distinguish between their personal bitterness about the breakdown of the relationship and the necessity of focusing on the future well-being and contentment of their children".

Professor Bates outlined that one of the major issues of concern is that parents have
INTELLIGENT CONTROL

Professor Pedro Albertos, Head of the Department of Systems Engineering, Computers and Control (DISCA) at the Universidad Politecnica de Valencia, Spain, recently visited Newcastle University to conduct collaborative research work with Professor Graham Goodwin, Director of the Centre for Industrial Control Science (CICS).

Professor Albertos commented that one of the main reasons for coming to The University of Newcastle was that the group of researchers here are very well known and respected all around the world.

For the past five years, Professor Albertos has been conducting research into the area of Sample Data Control Systems, which involves the use of computers in the control of processes. He is mainly interested in the problems arising from the interaction between physical processes and computers: data discretization, time delays and so on.

Professors Goodwin and Albertos are working on a problem which they say is quite common in industry. They explained that in many situations, the expected data from the process will not arrive due to a number of reasons such as a failure of the sensor or a transmission error.

"You can then make mistakes in the sense that you are assuming that the next piece of data you receive is the one you expected, or you must stop any further activity until a non-corrupted piece of data arrives. What we have developed is a new algorithm which will deal with missing data situations," Professor Albertos said. This new algorithm will have wide application in industry and may be adapted to deal with the modelling and control of many processes.

Professor Albertos is also working on Intelligent Control, that is, the development of control systems using Artificial Intelligence techniques. This approach allows one to deal with control problems where the knowledge about the process is not complete or is too complex to be handled in real time, or the control requirements are heuristically expressed.

For example, in power plants and stations, the processes are extremely complex and very large amounts of data are involved. The computer is able to assist the operator with data analysis, fault detection and location and restoration of normal operation. This method involves more than simply writing the algorithms. "One has to reason about the data and then try to implement what the operator is doing." The reasoning is based on approximated knowledge, and tools such as expert systems or fuzzy logic based systems allow you to deal with knowledge which is not exact or is based on past experience.

If an operator is required to make a decision within a few seconds, the expert system will present to the operator only those data which are relevant or more important. An example of this may be seen in the work being carried out by CICS in collaboration with the Electricity Commission.

But Intelligent Control techniques may be applied in many processes, like the shape control of a steel plate; CICS is also involved in this problem to some extent. Professor Albertos explained that it is relatively easy to control the thickness of the end product, however it becomes more difficult to measure and control the end shape, as only a limited amount of data and control points are available. The intelligent controller will be used to extrapolate the data, based on the operator’s experience to get “good” plate shape.

Professor Albertos indicated that this kind of project, in collaboration with industry, was a further reason for his visit to CICS. "My Department, DISCA, also has much contact with local and national industry. We are therefore working not just in a theoretical atmosphere, but are also looking for practical applications of our research," he explained.

Professor Albertos, who is also enjoying Australia’s natural beauty, will return to Australia in July 1993, to participate in the World Congress in Automatic Control. Professor Goodwin is responsible for the technical content of the Congress together with Professor Rob Evans, who recently left Newcastle for Melbourne. The Congress will be co-ordinated by the International Federation of Automatic Control. A future Congress, under the Chair of Professor Albertos, is planned for Spain in 2002.

DEPARTMENT OF EDUCATION

Postgraduate Students and Staff Seminar Program

6 August
Kay Berry Parental attitudes towards the integration of students with disabilities
Kerry Thompson Implementation of Primary School PE and Sport

13 August
Max Maddock Community Participation in Ornithological Research as Informal Science Education
Roy Killen Computer Anxiety in University Students

20 August
Ron Lewis Computer Assisted Learning & Problem-Solving in Economics
Margaret Weppler Advanced Skills Teachers

27 August
Rosalie Bunn Pedagogy and Power Relations
Sandra Heaney Achieving Health is an Educational Process

3 September
Chris Mooney The Teaching of the Classics in the Australian College
Bob Austin A Critical Analysis of Literacy Programmes in Latin-America

Venue: Room C67 Hunter Building, Thursday 4.15 - 5.30pm

Page 11
PARENTING
Continued from p10

the notion that they own their children. "This is based on a 19th Century notion, at which time parents could actually sell their children," he said, adding that you simply cannot own another person, "otherwise you could justify slavery on the same basis."

The report recommends that words such as "custody" and "access" be replaced with the word "care" and that the notion of "parental right" be replaced with the notion of "parental responsibility". The adoption of Parenting Plans will, the report says, allow the parents to decide the level of responsibility they intend to adopt for their children after separation.

"What we are trying to do is to involve both parents as much as possible with the development of their children," Professor Bates indicated, adding that there would be some extreme cases where that can't be done.

"We are trying, through the Parenting Plans to encourage the parents to devise a strategy best suited to them. In this way, we hope to circumvent the extreme cases of family disputes that you read about in the papers," he said, referring to a recent case in New Zealand, which, he says, apparently arose out of a custody decision.

The report acknowledges the fact that lawyers, counsellors, mediators, arbitrators and other people who advise separating parents will have to be educated about the reasons for the adoption and operation of Parenting Plans.

Professor Bates pointed out that the policies and recommendations expressed in the report are "nothing massively new". A report by J. Ryan, entitled Parents Forever: Making the Concept a Reality for Divorcing Parents and their Children, submitted to the Canadian Department of Justice in 1989 noted that existing terminology describing relationships between separated parents and their children is drawn from criminal law and the law of property.

Numerous studies have concluded that the language used greatly influences our perception of a given situation. "With the report we are attempting to get away from proprietary notions with respect to children and move towards a greater degree of co-operative parenting, which can only be enhanced by the use of terminology that discourages ideas of ownership in children," Professor Bates said. While he acknowledges that the report will not be magical in its immediate effect, he does believe that it is pointing in the right direction.

NEW ASSISTANT DEAN OF LAW FACULTY

The Faculty of Law has recently appointed an Assistant Dean, Ms Jo Cooper, who says she has been inundated with enquiries about the University's new law courses since she took up her position on July 2.

The Faculty of Law was established on May 12, and Ms Cooper, along with the Dean, Professor Neil Rees, has been "flat out" ensuring the new courses offered by the Faculty are smoothly introduced to the University next year.

Ms Cooper brings to her new position a wealth of experience, not only in private law practice, but also in university administration. In addition to her position as Assistant Dean, Ms Cooper is also Chairperson of the University's Senate Human Research Ethics Committee, which reviews all University research involving humans.

The mother of two young children, as well as three older children from her husband's previous marriage, Ms Cooper was a secretary in England and New Zealand before undertaking tertiary studies as a mature-aged student. Originally from England, Ms Cooper says that she took up a secretarial position at the Victoria University of Wellington in 1973, which had a program whereby members of staff could attend lectures with students for a limited number of hours per week. Her participation in this scheme sparked an interest in further study, and she returned to England to enrol in an economics degree at the University of Nottingham. She was invited to transfer to law at the end of her first year of study, and graduated with a BA honours degree in 1980.

After practising private law in England, where an interest in family and criminal law was fostered, Ms Cooper moved to Australia in 1984 with a new husband and baby, and took up a position as part-time tutor at Newcastle University. She later became a full-time tutor, and a lecturer in 1987.

Ms Cooper says that her new role is a real challenge, and she is looking forward to the introduction of the eagerly awaited courses next year.

"Our courses are breaking new ground," Ms Cooper says. "We want to include a strong clinical component which will replace the need for students to attend the Sydney College of Law. The innovative nature of the courses means that we not only have to gain approval from the University, but also from the professional bodies.

"The new degrees have generated an enormous amount of interest, not only from HSC students, but also from students currently enrolled in other studies, as well as potential mature-age students," Ms Cooper says.

by Jane Hooker

AMRAD POST-DOCTORAL AWARDS IN BIOMEDICAL RESEARCH

Do you know somebody overseas wanting to return to Australia to take up a post-doctoral fellowship?

A new scheme, launched in late June 1992, by the Deputy Prime Minister, the Honourable Mr Brian Howe, is intended to encourage young Australian biomedical research scientists to return to Australia to establish their careers after a post-doctoral period overseas.

To be eligible, applicants must be Australian residents with no more than 5 years' post-doctoral experience, who intend working in the general area of biomedical research or related fields. Up to four awards of $20,000 each will be granted in 1993.

Further information and application forms are available from the Office for Research, Level 2, Chancellery, telephone 21 5305. Applications must be lodged with the Office for Research by 6 October, 1992.
NEWCASTLE GRADUATE RETURNS FOR FESTIVAL

A graduate of Newcastle University Conservatorium of Music has returned to give his first performance in Australia since completing a distinguished course of study in England.

Alan Hicks won the John Sinclair Cormack Memorial Scholarship at the Newcastle Conservatorium of Music’s 1989 Keyboard Festival. The $15,000 prize, the most significant prize of this type in Australia, enabled him to continue studies at the Royal Northern College of Music in Manchester, England.

Alan graduated last year with the College’s highest diploma, the Professional Performers’ Diploma, as one of only 5 of the 50 entrants to gain a Distinction. As a result, he was awarded the College’s prestigious Frederick Dawson Prize.

He describes his first months at the Royal Northern College of Music in Manchester as daunting, and initially tried not to compete with the “unbelievably high standard of playing”, working instead at his technique and sound, with the assistance of his “outstanding” teacher, Marjorie Clementi. However, Alan was soon winning the College’s Scholarships which, he said, assisted in paying the annual fees, of approximately $12,000.

Alan comments that the Newcastle Conservatorium of Music, like the Royal Northern College, is ideally situated for students. “Newcastle is a city large enough to give opportunities for talented students, and possesses a Conservatorium with excellent teachers, performers and facilities, but Newcastle is not so big that living and travelling become a problem for students”.

Alan Hicks will be giving a concert of some of his favourite piano music, Beethoven, Chopin, Debussy and Mussorgsky’s Pictures at an Exhibition at the Newcastle Conservatorium of Music’s 1992 Keyboard Festival on Thursday 28 August at 8.00 p.m.

GERMAN ACADEMIC EXCHANGE SERVICES announces the availability of SCHOLARSHIPS for the DEUTSCHLANDKUNDLICHER WINTERKURS in Freiburg/Breisgau JANUARY 4 to FEBRUARY 27, 1993

The program, organised by the Albert-Ludwigs-Universität, Freiburg and the German Academic Exchange Service (DAAD), is designed for students and junior faculty with some knowledge in German and a background in German Studies who are interested in improving their language skills and their understanding of contemporary German affairs.

Applications are invited from undergraduate and graduate students and junior faculty in all fields. Participants will be expected to attend all scheduled classes and activities regularly.

Approximately twenty-five scholarships, covering tuition and fees for the course and including a stipend of DM 3,500, will be offered. For further information and an application form contact the German Section on extension 5374.

3D MODELLING

The University of Newcastle’s Teaching Committee has awarded Dr Keith Russell, from the Department of Design, a grant of $6,000 to assist with an innovative teaching program in the Design Degree. The teaching program, 2D-3D Real and Virtual Solids Modelling will involve Third Year Industrial Design students with children at the Mayfield West Demonstration School.

The aim of the program is to make Industrial Design students aware of the development of 3D concepts and to promote the development of these concepts to school - and Industrial Design - students alike.

Children from Infants to Senior Primary will be asked to build 3D models. These models will be put on computer by the Industrial Design students and the computer results will be returned to the children. The Industrial Design students will also be required to make their own models and exhibit their work for the Mayfield West students.

The program is to be extended to High School students, and eventually to University students and professionals in all fields that involve 3D modelling.

Dr Russell sees many research possibilities coming from the large number of models that will be produced. He is eager to contact other members of staff interested in possible research collaboration aimed at pursuing the connections between virtual space and the development of 3D concepts in children and adults.

For more information contact Dr Keith Russell on extension 6408.

WATT SPACE

Presents Jo Kot’s First Solo Exhibition of Paintings and Drawings 30.7.92 - 17.8.92

Jo’s expressive and lively works dominate the Gallery. Her bold use of line combined with bright primary colours are reminiscent of Albert Tucker’s post-war works. In her larger paintings she incorporates unusual medium, combining found pieces of carpet and hessian with bitumen, shellac and oil paint to create lively and striking images, the dragon fly, the cat and the windmill.

Jo Kot, a young Newcastle artist, began studying at Newcastle TAFE and is currently in her 3rd year of the BA(VA) at The University of Newcastle.

The exhibition will be opened by JOHN MORRIS AT 7.30 pm on Thursday, 30.7.92.

For more information contact the Gallery on 293900 or 216258.
ADVERTISEMENTS

FOR SALE BY TENDER

The Conservatorium of Music has the following items surplus:
1 x Tape Recorder, Sony Reel to Reel TC-730
1 x Tape Recorder, Tasc A3300S-2T
1 x Double Cassette (Radio not working)
1 x Computer, Sanyo, + Mono Screen + Daisy Printer
1 x Modem, Autek with Multi Modem 11
1 x Dictaphone/Transcriber Model by Plessey
1 x Computer, Burroughs with power supply, Mono screen
Daisy Printer, and Slave with Mono screen
2 Acoustic Hoods
2 Manual Typewriters
* For further information please contact Rik Weeton on (049) 294133

The General Store has surplus:
1 x Pallet Truck, Master Mark 4
* For further information please call Mr J Page on Ext. 5814

The Geology Department has surplus:
1 x NEC spinwriter with tractor feed and sound hood
* For further information please contact Mr Greg Dean Jones on Ext. 5413

School of Health has surplus:
2 x Electronic Typewriters
* For further information please contact Robyn Winton Ext. 6321

The Student Division has surplus:
1 x terminal, Prime PT200
1 x terminal, Digital VT100
* For further information please contact Mr Reid on Ext. 6486

Tenders close Friday, August 21, 1992 and should be marked
"Tender for Equipment" and addressed to:
"The Purchasing Officer",
The University of Newcastle,
University Drive, CALLAGHAN 2308

Tenders may be delivered to the Purchasing Department, McMullin Bldg, Room G56
The University reserves the right to reject any or all tenders

"INTERNAL" GRANT ROUND FOR 1993 NOW OPEN

ARC Small Grants and RMC Project Grants

On behalf of the Australian Research Council (ARC) the University receives and decides upon applications from members of University Staff for awards under the ARC Small Grants scheme (ARCSG). This scheme has been combined within the University with the Research Management Committee (RMC) Project Grants.

In the awarding procedures, the ARCSG are awarded to the highest ranked applicants, providing the application complies with ARC specifications. RMC Project Grants are then awarded to support as many quality projects as possible.

The ARC defines small grants to be in the range $5,000 to $14,999 in the Humanities, Social Sciences, Mathematics and Theoretical Physics; $5,000 to $24,999 for all other disciplines.

RMC grants will normally be at a lower value than ARCSG. As funds available to the RMC are limited it has been decided that only one grant per first named Chief Investigator will be awarded (an individual may still contribute to more than one grant).

Application forms are available from Departmental Offices or from the Office for Research, Level 2, Chancellery, telephone 21 5303.

Applications must be lodged with the Office for Research by August 21, 1992.

GERMAN STUDENTS RECEIVE AWARD

Two 1991 first year German students were acknowledged at the Germania Club’s 35th Annual Ball, held last month. The Consul General of the Federal Republic of Germany and Newcastle German Saturday School President, Dr Dieter Gescher, awarded the German Community Prize to joint winners, Rebecca Oyomopito and Matthew Girdler.

The prize is awarded annually for excellence in Elementary German, a course for students with no previous knowledge of German. Present at the Annual Ball were a number of German community leaders from Newcastle and Sydney, University representatives and the President of the Germania Club, Mr George Bondzio.

Rebecca, a final year statistics student, has not continued with her studies in German, however hopes to concentrate more on languages (German, Japanese and Russian) on completion of her Science Degree. Her plans are to join the Foreign Affairs Department, however she says that she would want to talk and listen to people without a translator.

Although Rebecca says that the German course is taught extremely well at this University, she does not think that enough languages are offered. She would like to see the introduction of Chinese and Russian at the University.

Matthew too, would like to see the introduction of a wider range of languages. He is currently studying German, Japanese and Classical Greek. Matthew, who is a member of the University Bible Study group, is hoping to become involved in missionary work after graduation. He will complete his degree in 1993 and will undertake a Diploma in Education in 1994.

Both student were “shocked but delighted” at receiving their awards in German.

FOR SALE

1979 Toyota Celica Coupe 2L, black, 2 months rego left. Fair condition, must sell. $3,000 o.n.o. Phone 324704.

ACCOMMODATION

For rent: Merewether residence, 2 large bedrooms, sunroom, separate lounge and dining room. Two minute walk to beach, five minutes to town. Close to Uni bus stop. Phone Peter Flood on 631502.

WANTED: Person to share very nice two bedroom home in Lindsay St, Hamilton with post-graduate student. Great Location. One minute walk from Beaumont St. $80 p.w. plus expenses. Contact Michael on ext 5070 or AH 694614.
Further information and relevant application forms are available from the Office for Research - telephone 215305. This list is also circulated to all Heads of Department on a fortnightly basis.

**GRANTING BODY**

- The Asthma Foundation of New South Wales Research Grants
- Australian Retinitis Pigmentosa Association
- Dairy Research & Development Corporation
- Sudden Infant Death Research Foundation
- NH&MRC Research Program Grants
- New South Wales State Cancer Council
- ARC small grants and RMC project grants
- AOTC Telecom Fund
- Australian Rotary Health Research Fund
- Canadian High Commission - Canadian Study Awards
- ARC International Reciprocal Research Fellowships Program (France)
- The Harkness Fellowship
- The Royal Society of New South Wales, The Edgeworth David Medal
- The Royal Society of New South Wales, The Walter Burfitt Prize
- Fulbright Awards 1993

**FELLOWSHIPS, CONFERENCES & PRIZES**

- DITAC Japanese STA Fellowships 1992/93
- ARC International Reciprocal Research Fellowships Program (France)
- The Harkness Fellowship
- The Royal Society of New South Wales, The Edgeworth David Medal
- The Royal Society of New South Wales, The Walter Burfitt Prize
- Fulbright Awards 1993

**SCHOLARSHIPS**

Information on the following scholarships may be found posted on the Scholarships noticeboard in the concourse of the Hunter Building or is available from the Scholarships Office, Hunter Building (Tel. 216544).

- The Harry Windsor Biomedical and Medical Postgraduate Scholarships - Community Health and Anti-Tuberculosis Assn. Postgraduate scholarships to encourage full-time medical research experience in the areas of tuberculosis, respiratory disease or community health.
- Canadian Studies Awards 1993/94
- 3 postgraduate awards in the disciplines of Social Sciences and the Humanities.
- 1993 CRA Scholarships for MBA Study
- A CRA Ltd scheme for postgraduate courses in Business Administration (MBA) studies or Management (Technology).
THE HUNTER ORCHESTRA TO ACCOMPANY BOLSHOI BALLET IN NEWCASTLE

The Hunter Orchestra is to accompany the internationally renowned Bolshoi Ballet when they appear in Newcastle as part of their Australasian tour in August.

The orchestra will play alongside the Bolshoi Ballet at the Entertainment Centre on Friday August 21 and Saturday August 22 for three performances, including a matinee.

The Administrator of the Hunter Orchestra, Ms Ruth Appleby, said that the opportunity to appear with such prestigious international performers as the Bolshoi Ballet was another important step in the Orchestra’s goal of becoming Australia’s first full-time regional orchestra by 1997, Newcastle’s bicentennial year.

“This is a fantastic chance for us to show the promoters of such events and government funding bodies, that Newcastle is worthy of the support required to become a real centre of excellence for music and the arts in general,” she said.