University Strong in Research

The Minister of Science, the Hon. Barry stripes, has announced the Australian Research Grants Committee awards for 1987. The University of Newcastle has been awarded $1,017,000 in this allocation, which is determined by competition and peer group assessment involving all Australian Universities and some Institutes of Technology. The total awarded to Australia in 1987 was $32,5 million an increase of 10 per cent over that awarded for 1986. It is worthwhile noting that the total ARGs grant has increased by close to 10 per cent each year for the last several years. Grants under this scheme to the University of Newcastle have followed the following sequence:

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1984</td>
<td>.416</td>
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<tr>
<td>1985</td>
<td>.584</td>
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<td>1986</td>
<td>.650</td>
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<td>1987</td>
<td>1.017</td>
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and it is indicative of the excellence of the work done at this University that the increase to the University of Newcastle grant in each year has exceeded the 10 per cent increase to the total grant by a very significant amount.

In 1987 the University has been awarded its second programme grant. This was to Professor R. A. Antonia, Dr L. W. Browne and Dr A. I. Chambers, for a total of $105,000 for 1987. Programme grants are extremely prestigious awards, since they provide guaranteed funding for six years. Only one award in the Engineering category was made in Australia for 1987, that to Professor Antonia and his colleagues. This is the second programme grant to the University of Newcastle, the first having been awarded to Professor G. Goodwin, Professor A. Cantoni, Dr R. J. Evans and Dr D. J. Hill in 1985. This group has received $98,100 for 1987.

Several other awards are worth noting. Professor J. Burrows of the Department of English has received $30,000 for a project entitled 'Computer - Assisted Studies in the Analysis of Language'. A grant of this size is very unusual for the Humanities area and indicates the interest in Professor Burrows' work. Several recent members of staff have also gained grants indicating the continued success of this University in attracting very high quality staff. Professor Melchers, recently appointed to the Chair in Civil Engineering has two grants for a total of $22,000. Dr Murch, recently appointed to Chemical and Materials Engineering has two grants (one shared with Professor Oates) to a total of $26,574. In Computer Science, a group of three staff, Professor Keedy, Dr Rosenberg and Dr Abramson have gained a total of $57,526 for work related to development of a new computing system. Dr Sally McPadden recently appointed to Psychology has gained a grant of $12,363 for a study of binocular vision in birds. Professor Colhoun, recently appointed to the Chair in Geography was awarded a grant of $10,000 to continue his work on glaciers.

Several large sums have been awarded to groups of related projects. In the Department of Physics a group working on the physics of surfaces has been awarded six grants to a total of $201,185. This group consists of Professor R. J. MacDonald, Professor P. V. Smith, Mr R. H. Robert, Dr D. J. O'Connor and Dr B. V. King.

These grants are important because they provide both equipment and employment of skilled staff in the University. The 1987 grants will contribute to the employment of approximately 20 technical staff, research assistants and post doctoral research associates.

Inside: New Spectrometer for Chemists
LETTERS

In response to my letter to the University Council in August 1986, the Arts Faculty has set up a committee to consider the many different ways Peace Studies can be implemented. Peace Studies is an established and recognised discipline in many universities all over the world.

I wonder which other Faculties will take up the challenge and re-orientate their outlook to one of studying and working towards a peaceful and sustainable future. I am sure that each faculty has members who personally carry a vision of a non-violent, healthy and caring society. By meeting and working together across the board we will give PEACE the chance it needs.

Let the excitement of the greatest challenge and the study and work in the creation of PEACE on EARTH stimulate our common and personal sense of responsibility to honour all LIFE on this Planet.

Meta
Students for Peace

New SRC

The Student Representative Council Elections have just been held. Four candidates stood for the President's position. Chris Craig was comfortably returned as President over his nearest opponent John Sutton. Other positions filled were:

- Inter Campus Liaison Officer - Cathy Jannson replaced Brian Berkfield (who did not stand again).
- Women's Officer - Danielle Fraser replaced Jenifer Sweeny (who did not stand again).
- Media Officer - Kevin Guy replaced Ian Kirkwood (who did not stand again).
- Treasurer - Brian Berkfield was elected unopposed replacing Mathew Yates.
- Secretary - Bernie Dooley was re-elected unopposed.

About 18 per cent of students voted in the elections a similar number to last year and double the number participating in elections previous to 1985.

Chris feels that a number of issues which have arisen over the past year will continue to dominate 1987.

The main issue he identified was the reintroduction of tertiary fees. At a recent meeting of student representatives from six campuses in NSW it was decided that the next major activity against fees would be a campaign in the Heathcote by-election to encourage voters to make a protest vote against the ALP because of its failure to regard fees as an issue. Closer to home Chris is putting to Council a motion to recall their recent decision to collect fees. The SRC strongly supports the boycotting of fees and expects major student activity protesting fees early next year.

Craig Returned

Another issue leading from this is intercampus politics. In the next few weeks a conference will be held at which it is proposed that a State Union of Student (SUS) will be established and that this group will join the Federation of Australian Students (FAS) which presently represents students in Queensland, Victoria and WA as a campaign issue by FAS at the next federal election to be held in 1987.

One of the main concerns affecting students on this campus is child care facilities. The Vice-Chancellor has set aside funds for the construction of a casual child care centre in 1987 and Chris is anxious to see the construction of this building start before the new council chambers are commissioned.

Dear Sir,

In two years of experience as a student representative in various facets of University government, I have never witnessed a more concentrated display of poor decision making as occurred at the last meeting of University Council. The credibility of the chief governing body of this institution has been seriously, and perhaps irrevocably, impaired by its decision to transfer the Dip. Ed. to the College by 1990, and by its adoption of a recommendation to proceed with plans to build a new Council/Senate Chamber at an estimated cost of around half a million dollars.

The Dip. Ed. decision was made on explicitly political grounds, in blatant defiance of the express wishes of University Senate, the Department of Education, F.A.U.S.A., the Staff Association, and the Dip. Ed. students themselves, and against the dictation of any reasonable assessment of the academic, industrial, and ethical dimensions of the issue. The magnitude of the potential damage to the internal government and to the public and academic image of this institution would be difficult to exaggerate.

The decision to go ahead with the building of a new half million dollar Council/Senate Chamber is an act of outrageous profligacy at a time when the academic and service activities of our University are undergoing inexorable dilution for want of funds. It was a decision imposed upon our University community mostly by members of Council whose present day to day involvement with our campus is limited, who may have been influenced by political affinities and pressures, and who clearly give a higher priority to their personal comfort than to the welfare of the University.

These decisions are simply the latest - through perhaps the most despicable - in a series of bad decisions made by University Council over the past few years. When is this lesening - like all protest - going to cease?

John Sutton
Student Representative
University Council

Chris Craig

Chris Craig

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One of the main concerns affecting students on this campus is child care facilities. The Vice-Chancellor has set aside funds for the construction of a casual child care centre in 1987 and Chris is anxious to see the construction of this building start before the new council chambers are commissioned.

Another issue the SRC has been dealing with is the appeal of three student representatives against their dismissal from Edwards Hall last year. This issue has been resolved by the present day-to-day involvement with the university community mostly by members of Council whose present day to day involvement with our campus is limited, who may have been influenced by political affinities and pressures, and who clearly give a higher priority to their personal comfort than to the welfare of the University.

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Student Representative
University Council

Chris Craig

Chris Craig
In June of this year a JEOL FX 90Q Fourier Transform Nuclear Magnetic Resonance (FTN MR) Spectrometer was installed in the Department of Chemistry. Finance was provided from the University's Major Equipment fund.

This machine is the first of its kind in the region and replaces and vastly upgrades the former facility (of 1969 vintage).

The NMR phenomenon was first observed in 1946 and the enormous potential of this technique for the study of complex molecules was quickly realized. Commercial instruments first appeared in the late 1950s (continuous wave machines) but it was not until the 1970s when Fourier Transform machines were developed that the technique expanded enormously.

Any nucleus with a magnetic moment is capable of showing the NMR phenomenon. These are typically nuclei with odd numbered mass (e.g., $^1\text{H}$, $^{13}\text{C}$, $^{15}\text{N}$, $^{31}\text{P}$ etc) as well as those with an even mass but an odd atomic number (e.g. $^{2}\text{H}$, $^{10}\text{B}$, $^{14}\text{N}$ etc) Nuclei with even mass and atomic number (e.g. $^{16}\text{O}$, $^{32}\text{S}$) do not show the phenomenon. Observation of resonance is achieved by placing the sample in a powerful magnetic field and irradiating with radio waves. At a particular radio-frequency the nucleus will absorb the energy (undergo 'resonance') and the subsequent re-emission of energy is detected. Different magnetic nuclei absorb at different frequencies for a fixed magnetic field strength (e.g. on the Jeol $^{1}\text{H}$ at 90 MHz, $^{13}\text{C}$ at 22.5 MHz etc). In a complex molecule, atoms of the same type (e.g. $^{1}\text{H}$ ) may not be in the same magnetic environment in the molecule and will resonate over a range of frequencies. Measurement of these frequencies gives valuable information about the environment of each of these atoms. Further, a phenomenon known as 'coupling' takes place between closely spaced magnetic nuclei and this leads to 'patterns' (e.g. doublets, triplets etc) from each absorption. Analysis of these 'patterns' provides a powerful tool for elucidation of complex structures.

The Jeol FX 90Q is a computer controlled state-of-the-art machine capable of measuring the spectrum of any magnetic nucleus. The machine is user friendly and completely automatic and can accumulate data over long periods (up to 20 hours so far) without attention. This is important when only small samples (1-5 milligrams) are available or for measurement of nuclei with low natural abundance (e.g. $^{13}\text{C}$ of 1 per cent abundance).

Since installation, the machine has been utilized extensively for research and teaching by Honours students, post-graduate students and staff of the Chemistry Department. Principal uses have been the elucidation of structures of synthesized inorganic and organic molecules, the monitoring of reaction rates, studies on the shapes of organic and inorganic molecules and analysis of product mixtures from complex reactions. Interpretation of NMR spectra is an important component of undergraduate courses in Chemistry II and III. Spectra from the machine are issued to students as 'unknowns' for solution.

NMR spectroscopy is a powerful and fundamental tool for research not only in chemistry but in any area requiring a sensitive, non-invasive technique for the detection and study of molecules. Its potential for study of chemical reactions in living systems has been realized and is causing a revolution in this area. Although the Department's machine, with a magnet gap of about 12mm, stops well short of doing 'whole body' NMR imaging, it provides for researchers and students on this campus a modern and versatile instrument which will improve the quality of teaching and research.

Dr Bell of the Chemistry Department demonstrating the JEOL FX 90Q Fourier Transform Nuclear Magnetic Resonance (FTN MR) Spectrometer.
Wilderness Act Timely

Dr. Bob Brown

This year the Harry Eddy Memorial Lecture was presented by Dr. Bob Brown a national leader in the defense of the environment both in the Parliament of Tasmania, of which he is an independent member and in the public forum and the "front lines" of environmental battles. This annual memorial lecture is organised by the Department of Community Programmes and the Hunter Regional Workers Educational Association and honours Harry Eddy an outstanding educator and, all his life, an outspoken champion of justice and free speech.

Bob opened his lecture by expressing his delight with the number of conservation organisations in Newcastle and the Hunter which he predicts will bode well for the region.

Bob emphasised that because we are a democratic and wealthy country we have an obligation to set standards for the rest of the world in environmental preservation and protection. He stated that "our bodies and our minds are made for the wilds. In all of us there is an inherent bond with nature. We are not made for the concrete geometry of cities though we have adapted well to them but our creation, or origin, is from the wilds."

In Australia as around the world the unprecedented plunder of the natural environment has stirred that bond with nature and is giving rise to a global campaign of rescue.

Already countless areas and species have been lost to the world and pesticides, and nuclear peril, pose unprecedented threats to the world.

Chainsaws and bulldozers are having a great impact on forests some of which does us good, but also harm. The problem is that we have not been able to draw a line between these two factors.

Bob went on to discuss wood chipping in Tasmania which has resulted in conservation groups fighting to save 10 per cent of the forests. Pressure from these same environmentalists in Tasmania has forced a rise in royalties on timber cut and that is a direct return to the public although the wood chip industry is still being subsidised by $10 million per annum if all costs are taken into account according to a study done by the University of Tasmania. "Environmentally wood chipping is a disaster" Bob claims. After the desired trunks are harvested, two million tons or a third of Tasmania's total forest that is being cut is left on the ground and burnt each year. The forest ecology is also affected as older trees which are the nesting sites of possums, birds and insects are destroyed. The native forest is replaced by imported pines or a restricted variety of native trees for which harvest is planned before they reach old age so nesting sites are permanently lost. Aboriginal sites and caves are also often lost as a result of clearfelling. It is important to make the end users of the products produced by this process aware of the destruction caused to enable them to have such products. The action to bring sanity to the industry begins with us from cutting our personal waste paper to speaking out in public to going to the very defence of the forests themselves.

Bob went on to comment that he feels the NSW Wilderness Act is a very timely piece of legislation.

The Americans passed a Wilderness Act in 1964 in recognition that many wilderness areas in the country were not within national parks. Wilderness areas are wild tracks of intact natural country and are the fastest disappearing non-renewable natural resource in the world. At present in NSW half of the remaining wilderness areas are not within national parks. Only a little over four per cent of NSW is wilderness and surely that is not too much to hand on to future generations.

Bob is so impressed with the NSW Act that he will be introducing a similar act into the Tasmanian Parliament shortly. He does not expect it to be passed but feels the pressure must be kept on Governments. NSW is setting a great example.

Bob emphasises that people can enjoy the wilderness without going there. People can see wilderness through TV programmes, pictures, on calendars etc. It is not too late to keep what we have now but we cannot leave this till the end of the century because land is no longer seen as waste land. All land will be labelled and that is why it is necessary to label wilderness land now as wilderness. To achieve this we must all become involved and in particular the young must be better informed, more aware, better able to take a role in the conduct of the planet.

The heartening thing is that around the world there is a new ethic for Peace and for ecology and human justice and this new way of thinking is "building and spreading and growing like an infant determined to change the world."
Recognition for Top Students

Captain Evans, centre, with the Howard Smith Scholarship award winners, John McTackett, left, Steve Millington, Anthony Finnegan, Denise O'Brien, Dale Bray and Margaret Joliffe.

Denise O'Brien, one of the University's Metallurgy undergraduates will be visiting eight Steel Works and three steel making Research Centres throughout Great Britain, France and West Germany next month.

Twenty-two year old Denise is employed by the BHP as a Senior Technical Assistant which involves supervising the blast furnace section of the Iron-Making Technical Group and analysing the operation of the furnaces.

She has been selected to represent BHP at an international conference in Paris which will be combined with the tour of the steel works and Research Centres. Denise will be accompanied by a colleague from BHP, Mr Alan Thomas who will be presenting a paper at the conference titled *The Re-Lining of No. 3 Blast Furnace, Newcastle*. Denise and Alan co-wrote the paper, Denise concentrating on the operations side with Alan covering design.

Denise's management potential was recently recognised when she was presented with one of six Howard Smith Scholarship Awards. The awards are presented annually to Hunter area people. Each award winner receives an Australian Institute of Management (AIM) course to the value of $500.

Denise eventually hopes to be employed in Operations Management but at the moment is much more concerned about her end-of-year exams and her trip overseas.

Keay delegate to ICSU

The 1986 Year Book for the International Council of Scientific Union (ICSU) has just been published. The ICSU is an international non-governmental scientific organisation composed of 20 international Scientific Unions. Its principal objective is to encourage international scientific activity for the benefit of mankind and it does this in four ways:-

- By initiating, designing and co-ordinating international interdisciplinary research programmes.
- acting as a focus for the exchange of ideas, the communication of scientific information and the development of scientific standards, nomenclature, units etc and in the comparison of methods and intercalibration of instruments.
- holding scientific conferences, congresses, symposia, summer schools and meetings of experts.
- producing a wide range of publications.

Louise Adamson, a PhD student, from the Department of Biological Sciences was one of the nominees for the Junior Scientist Award at the 1986 Annual Meeting of the Australian Society for Reproductive Biology in Brisbane early in September.

Louise presented a paper based on her honours thesis Louise's research interest is the physiology of the early stages of pregnancy. She is looking at an early event in pregnancy in which platelets are removed from blood serum and determining why this is necessary for pregnancy to proceed. Assoc. Professor Tim Roberts is supervising her work and Dr Jim Stanger is training her in in-vitro fertilisation procedures at Lingard Hospital. Louise hopes to be able to apply her research by detecting the success of implantation of embryo's in women through taking blood samples.

Leanda Wilton from Melbourne was the winner of the Junior Scientist Award.

Louise Adamson

There are 51 Australian delegates on the ICSU. Professor Colin Keay from the Department of Physics is the only delegate from this University. Colin elected as Vice-President of Commission 22 (Meteors and Interplanetary Dust) of the International Astronomical Union last November for a three year term.
Professor Don George and his wife, Lorna, were farewelled by The Friends of the University and Convocation at a successful and well-attended dinner on Friday night, October 10.

Approximately 200 guests gathered in the Wisteria Room of the Union Building to commend the 12 years of service the Georges' have given the University. Prominent members of the Hunter's community also attended to wish Don and Lorna all the best in their retirement.

The Chancellor, Sir Bede Callaghan, C.B.E.; The Warden of Convocation, Father James Bromley; the Lord Mayor, Alderman John McNaughton; Vice President of The Friends of the University, Mr Keith Barbour; and President of the Students Representative Council Mr Chris Craig; all spoke on the many contributions both Don and Lorna have made to the University.

The guests of honour were then presented with a gift of appreciation - a glass plate made by Julio Santos.

Special thanks should go to Mrs Shirley Moms who gave up many hours towards the organisation of a very successful dinner.

Mr Bryan L. Campbell, Principal Research Scientist with the Australia Atomic Energy Council, Lucas Heights is to receive and Honorary MSc Degree from the University in recognition of his research connections with the Hunter Valley for over 20 years and with the University of Newcastle since 1978. In the 1960's he helped design and conduct silt-tracing experiments in Newcastle harbour. Since 1978 he has collaborated in soil erosion and sedimentation research using the environmental isotope caesium - 137 with Mr Robert Loughran and Dr Darren Shelly (Department of Geography) and Mr Greg Elliott (NSW Soil Conservation Service).

This research has attracted grants totalling $72,477. A simple technique for assessing soil loss over wide areas in relation to land management has long been necessary. A nuclear technique using the fallout isotope caesium - 137 first pioneered by the US Department of Agriculture has been advanced by the group, so that, information can now be determined on the average rate of net soil loss for the period since 1954. This technique utilizes the fact that caesium 137 (the principal source of which is atomic bomb testing in the atmosphere) is highly reactive and is extremely rapidly and firmly adsorbed on soil particles after fall out and so the technique can be applied world wide. As the work is aimed at providing estimates of soil loss under various land uses, particularly where erosion is less obvious federal and state bodies are increasingly seeking access to the technique which has proved invaluable in understanding the dynamics of many different environments.

Bryan has also been involved with the University in other ways. For the last seven years he has given annual seminars to students and staff in the Geography Department and conducted visits to the Lucas Heights site for Geography and Physics students and staff as well as being involved in conferences sponsored by the University.

Bryan's work has resulted in him acting as a consultant for International Atomic Energy Association (IAEA) and the USA Department of Agriculture and in his authorship of a number of publications for these organisations.

Are You Interested In Joining The Friends of the University?

If so membership forms will be sent on application to the Secretary, Mrs Shirley Morris, 91 Mills Street, Warners Bay, or contact The Friends of The University, C/- The Vice-Chancellors Unit, Subscriptions are $5 per year. Existing members your subscriptions are now due.

"OLD SONGS AND NEW ENCHANTMENT"

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12.50
Apply Dr F. Huang
Dept. Electrical and Computer Engineering.
Ext. 762.
Meet the Switchboard Girls

Have you often wondered about the face that belongs to the voice at the end of your telephone? Let me introduce Betty Line and Margaret Clare, our Switchboard Operators.

Betty and Margaret literally spend their day on the 'phone. Betty first started working for the University as a holiday and sick relief switchboard operator in 1969. In 1976 Telecom reviewed the call traffic and indicated to the University that it should acquire a second switchboard, which it did, and Betty became a permanent part-timer, and then, after 18 months became a full-time employee.

Margaret also started working with the University as a holiday and relief switchboard operator between 1981 to 1983 and then went on to to be a full-timer.

Betty and Margaret not only handle incoming and outgoing calls but act as an information centre. One of their most common queries is "how do I get to the University?" Betty and Margaret say that it is surprising what information they are asked for. The queries they receive often give them a good laugh.

Recently, one of the large supermarkets rang and asked if "the University hired out cows." Betty and Margaret often receive ambiguous calls such as people asking to speak to "a bloke with red hair named Fred." One of their more difficult jobs is keeping track of visitors and conferences.

Although Betty and Margaret have very limited face-to-face contact with people they have made many friends over the telephone. Betty said sometimes it's quite peculiar because you get to know voices over the telephone and when you go to the bank you hear someone in front of you and you recognize their voice and thus are finally able to put a face to a familiar voice.

Fortunately, Betty and Margaret find that most people are polite on the telephone.

One thing they do find stressful is music which is played over the telephone while you wait. Whilst most of this is pleasant some of it is very loud and if you have to listen to a lot of music during the day it becomes quite stressful. Betty and Margaret are kept very busy. They handle an average of 160 trunk calls a day as well as other outgoing and incoming calls.

When the present switchboard was installed it was the first one of its kind in Newcastle but it is now somewhat outdated, however, its replacement equipment would be very expensive. Telephone faults are reported to Margaret and Betty who contact Telecom for repair service. There are only 12 lines into the switchboard, 10 lines to dial out on and six internal lines to the switch. Often people ring and get the busy signal as all lines are engaged.

Urban design - a forgotten discipline

Fritz commented that in Australia "urban design is a forgotten discipline." He explained that urban design involves finding the inherent design already existing in a town, determining favourable characteristics that are translated into formal urban design rules. These rules enable the design integrity to be preserved. In Australia this urban design or towns cape principle has been ignored because governments feel they cannot put restrictions on developers. The result has been that the context between building and building and building nature is dramatically lacking in urban areas. Architects tend to concentrate on individual buildings and plans without taking the surroundings into account.

Fritz Stuber

Fritz Stuber an urban designer from Switzerland was recent visitor to the Faculty Of Architecture. Fritz is currently a visiting lecturer at Sydney University where he is particularly involved in studio work with fifth and sixth year students.

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Fritz emphasised that this issue is particularly relevant to Newcastle at present where the texture of the old city is still in tact. With applications presently before City Council for new developments a decision must be made as to whether to retain this texture or to allow uncontrolled development to go ahead as has occurred elsewhere in Australia. Fritz feels that the public can play an important part in this decision and that they should be able to exercise their democratic right in this decision in a direct way. He emphasised that once a decision is made on the direction of urban planning that urban designers should have iron clad policies instituted into the law to ensure continuity and thereby prevent fashions in architecture destroying this continuity.

Fritz commented on the fact that Australians have a unique attitude to urban development in that we have a very low residential density but a very high density in central business areas. As he believes that urban design has a strong interaction with culture this is an interesting point to explore.
OCTOBER COUNCIL

Triennial Submission

The Council approved the University's submission to STEC for the 1988-90 Triennium.

The Submission reflects the response of the University and the Newcastle College of Advanced Education to the Commonwealth Minister for Education's decision that the two institutions should plan co-operatively for the development of higher education in the region. As well as canvassing the University's plans for the Triennium, the Submission refers to those of the College and informs the Commission on the co-ordination and rationalisation of activities which it is expected the institutions will achieve.

The proposal that the University Postgraduate Diploma in Education be phased out, with the College assuming full responsibility for pre-service teacher education in 1990; and for the University to be responsible for all postgraduate degrees in the field of Education, was endorsed by the Council after considerable debate.

The University is seeking funds for the construction of a Computing and General Service Building, an Architecture Building Extension, and a Student Services Building. Reference was made to the continuing need for additional student accommodation and support sought for the International House Project.

Revision of Matriculation Requirements

Council approved revised matriculation requirements to come into effect with the 1986 N.S.W. Higher School Certificate examination.

There are two major changes:

- The aggregate will be calculated using marks which result from the procedure devised by the University of Sydney for producing, from the Board of Senior School Studies reported examination mark and moderated school assessment per unit, a final adjusted mark per unit, which continues the spirit and technical essence of the HSC "iterative scaling" procedure used by the Board of Senior School Studies in years prior to 1986.
- The previously prescribed mandatory pre-requisites will now become advisory pre-requisites.

In making the change, the University is adopting the approach which has now been embraced by all the universities in the State with the exception of the University of New South Wales. It is understood that that University is currently reviewing its matriculation policy.

The Council, recognizing that the change would affect students who are already in the final two years of their schooling, decided that candidates for the 1987 Higher School Certificate should be given the opportunity to be considered on the basis of the aggregate they would achieve calculated in accordance with the previously announced matriculation requirements if this was to their advantage. Similarly, the Council decided that candidates for the 1986 Higher School Certificate should be given the opportunity to be considered on the basis of the aggregate they would have achieved if it had been calculated in accordance with the new policy, if this was to their advantage.

Charges, 1987

The Council expressed its extreme regret that the Government had chosen to impose an Administration Charge from 1987 on students undertaking university studies. However, on the understanding that the Government would require the imposition of such a charge, Council resolved that students seeking to enrol in 1987 and thereafter be required to pay an Administration Charge and that in 1987 the charge be $250.

In response to submissions from the Students' Association, the University Union and the Newcastle University Sports Union, the Council agreed to an increase in the General Service Charge in 1987. The Charge will be $174. In addition, students will be required to pay a Sports Union Sporting Facilities Development levy of $5 and those joining the University Union for the first time an entrance charge of $20.

Radio Station 2NUR-FM

The Council has asked the Committee which reviewed the operations of the Station in 1984 to re-convene and to consider in particular whether models of organisation other than that for the staff to be employed by the University would be more appropriate for the Station.

Externally-Funded Chair

The Council accepted with great pleasure a pledge of $1.5 million from the NBN Telethon Trust to fund in perpetuity a Chair in cancer research from funds raised from the NBN Telethon in aid of the Cancer Appeal. This Chair, the first fully-externally-funded one in the University, will be known as the NBN Telethon Chair of Cancer Research.

Revision of Matriculation Requirements

The Hunter Tapestry

Council was informed by Friends of the University that they had commissioned Mr and Mrs Beeston to produce "The Hunter Tapestry" for the Great Hall. The tapestry is to consist of a series of twelve panels with a theme based on the Hunter River.

Proposed Council/Senate Chamber

Council considered sketch plans for a proposed Council/Senate Chamber and approved the construction of the Chamber as depicted in the sketch plan, subject to funds being available.

The Building and Grounds Committee informed Council that the building would provide a significant venue for Board and Senate meetings, meeting of Faculty Boards and lectures or meetings organised by particular groups such as Convocation. The building would also provide badly-needed storage space at ground level. Access to the Chamber would be by means of an enclosed ramped bridge from the top landing of the stair adjacent to the Executive Suite in the McMullin Building.
Staff Discipline Procedures

Council approved amendments to the By-Laws to provide for the introduction of new Staff Discipline Procedures which have resulted from the efforts of a working party over the past two years. The amended By-Laws will be supplemented by regulations, also approved by Council at its meeting, which will come into effect when the By-Law amendments are Gazetted.

Council Elections

By-Law amendments which will enable elections to be conducted in order to give effect to the changed composition of Council resulting from the recent amendment of the University's Act were approved by Council. Council, while recognising the need to elect promptly the additional members, believed that the Christmas and long vacation period would be an inappropriate time for conducting the elections, which could not be held until the Gazettal of the By-Law amendments. It therefore decided that the election process for filling the two additional positions in Council membership should not be commenced before the beginning of February, 1987.

Union Extensions

The Council granted approval for the Newcastle University Union to proceed with the design and construction of a terrace and store at the eastern end of the Common Room.

EEO


CONVOCATION

The Standing Committee of Convocation at its October meeting, decided to combine Convocation's Annual Dinner with the Newton-John Award presentation and the welcome to the new Vice Chancellor.

Convocation has been investigating the expansion of its memento range. The Vice-Chancellor has made available to Convocation a series of sketches of the University by the artist Allan Gamble. The sketches could be used on greeting cards, posters and place mats which Convocation would retail.

Convocation together with The Friends of the University recently organised a very successful Farewell Dinner to the Vice Chancellor, Professor Don George and his wife Lorna (see article on p ).

Convocation will be presenting two more Inaugural Lectures for the year, both in November.

The last meeting of the Convocation Standing Committee for 1986 will be held on November, 20.

For enquiries please contact the Convocation Officer, Roslyn Cameron, on 68 5370.

Radio Play Miriam

Mr Bruce Asmus, Chairman of the Broadcast Committee of the Producers and Director Guild of Australia, and a strong supporter of community radio visited the Drama Department on October 10 and 11 to supervise the recording of a radio play. The play, Miriam, is based on a story by T. Capste and was written by Drama Department students Adam Macnlay and Peter Trist. A theme tune to aid the special effects sequence has been composed by Greg Henshaw. The cast included Dorrit Nesmith, who works in the Philosophy Department, and nine year old Jonathan Goodall. The play will be broadcast on 2NUR-FM at a time to be announced. Pictured left to right John Goodall, Dorrit Nesmith, Pauline Kilby, Bruce Asmus and Vicki Lloyd.
Why Lecturing and Exams Don't Teach

Australia has one of the lowest rates of participation in higher education among the OECD countries. This year 30,000 qualified students can’t find a place at one of our universities or colleges of advanced education.

It has been suggested that undergraduate degrees be telescoped into two years; that the Western Australian Institute of Technology be called a university; that a private university be created on the Gold Coast; and that a fourth university be located in Sydney’s west. All these proposals offer more of the same, on the assumption that a better educated workforce qualified students can’t be more productive.

But more of the same may not be possible when our resources are decreasing. And anyway, is it what we need? How good is the education that Australia’s 300,000 students in higher education now receive? Will more of the same system of lectures and examinations equip Australians to cope with the challenges of the future where there will be a premium on flexibility and initiative?

Any graduate will recall classes of 10 or 15 students being treated to three hours of lectures a week, perhaps followed by one hour of tutorial where the impatient tutor in fact lectured the whole time.

Lecturing developed as a means to disseminate information in an age when the printed word was scarce and expensive, and before the habit of reading was much practised. It was long before laser printers, photocopiers, and paperbacks.

Lecturing enjoys an undeserved mystique. University teachers regard it as terribly difficult, taxing and responsible. In some places it is explicitly valued at two or three times the worth of tutorial or seminar teaching. Yet the truth is that we lecturing because it is all we know how to do.

Lecturing gives the lecturer, though not always the students, the feeling that the ground is being covered. It gives the lecturer a sense of control - no small thing in a tiered lecture theatre of 500 students - and a sense of a job well done. Useful learning is at best a side-effect.

Satisfied with their teaching, lecturers can devote more time to research, which is the means of advancement. Though the university tells lecturers that teaching is important, all tenured lecturers are officially regarded as good teachers, so the only means to promotion lie in research or administration.

Students expect lectures so that they can take notes to regurgitate in exams and essays. Though lecturers always say they do not want this regurgitation, it is exactly what they want. They reward it in assessment.

The system in effect teaches students to solve just one problem: how to transfer the content of lectures to exams and essays, and so pass. They know where their interests lie under this system: in grades, not in education. Fifty-one per cent in an exam can take notes to regurgitate in exams and essays. Though lecturers always say they do not want this regurgitation, it is exactly what they want. They reward it in assessment.

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Yet our students are bright and do much good work, as defined by the system. Little thought is given to the possibility that they might do even better or more useful work and be better prepared for later life.

Unfortunately, when students graduate they meet challenges in life and work that require more than patient note-taking, the ability to spot examination questions, and a good memory. If all of these challenges were being effectively met, perhaps the Australian economy would be more resilient and inventive and perhaps there would be a less incessant clamour for government to do things for people who ought to be able to do more for themselves.

The quality of university education can be improved within existing resources. The aim of university education today ought to be to produce graduates who know how to learn independently and also in co-operation with other people.

We need an approach in which students consciously and gradually learn what they have to learn and how to learn it. They need to learn how to work with other people to improve everyone’s performance. Instead of being told to be conscientious and analytical students need to be shown what these things are and helped to develop their mastery of them. Moreover, they need to learn how to evaluate their own work, because once they graduate they will have no lecturer to assess them.

These goals can be introduced into most teaching in higher education with existing resources, through the use of problems and models together with small group work. Small groups of four or five students can work on problems even in lecture halls of 150 students.

These teaching methods have been used throughout the country in a variety of subjects. They could be used more widely if university administrations would provide incentives to improve teaching instead of constantly asking for more funds to create more places in lecture halls.

We thank M. W. Jackson and M. T. Prosser of the University of Sydney for permission to reprint this article.

Eminent Maths Visitor

Dr. V.F. Sachl, from the Institute of Physics, National Academy of Sciences, Prague, presently visiting the School of Physics at the University of Melbourne recently visited the University and spoke on symmetric spaces Lie Groups and the Structure of the Fields of Elementary Particles. Dr. V.F. Sachl (left) is pictured with Assoc. Professor P.K. Smrž.
Chefs success

Robert Mackinnon and Roy Pinder with Roy’s margarine carving which won the Gold Medal in the foreground.

Competed in the Hunter Valley Salon Culinaire Competition recently.

Robert has worked for the Union for the last seven years and this was the first such competition he has entered. He competed in two divisions, chicken galantine and marbled eggs in aspic and won a bronze for both and was the overall winner of the marbled eggs in aspic section.

Roy is in the final year of his apprenticeship and has worked with the Union for the past 18 months. Roy who has entered the competition before, competed in four categories and won a gold award for his margarine carving of two hands holding the world.

Both Robert and Roy spent many hours preparing their entries and said they had learned a lot about preparation and presentation for future events. They are enthusiastic about competing next year and would like to enter a competition in Sydney if they can arrange the use of a kitchen there.

John Broughton manager of the Union stated that the Union was keen to see its employees participate in such events and offered his congratulations to Robert and Roy.

Engineering Review

The Minister for Education, Senator Susan MacKinnon, has announced a review of engineering teaching and research in universities and colleges of advanced education.

The review will consider the suitability of the aims of each institution and the quality of its teaching and research and report on the future needs of engineering education in Australia. The review will be headed by Sir Bruce Williams who will be assisted by a steering committee of eminent engineers drawn from higher education institutions and industry.

New Research Software

The Teletraffic Research Centre at The University of Adelaide has developed two software packages which are of particular assistance to researchers in the Tertiary sector. Proref is a database management system designed to handle bibliographic information obtained from a variety of literary sources. The database Telref provides over 4,000 key-worded teletraffic references.

Great Barrier Reef Marine Research

The Great Barrier Reef Marine Park Authority invites applications for augmentative support of the research projects of recent graduates and post-graduate students, which could contribute to the Authority’s work of planning and managing the Great Barrier Reef Marine Park and in particular for the responsible use of the great Barrier Reef Region by man.

Applicants should already be supported by their organisation for basic expenses and have access to general equipment, library, laboratory and computing facilities for the research. Grants are usually in the order of $500. The closing date for applications is December 19, 1986. Application forms are available from: The Executive Officer Great Barrier Reef Marine Park Authority, P. O. Box 1379, TOWNSVILLE, QLD 4810.

Quiz Contestants Wanted

Mr Keith Halliwell, Research Officer, for the ABC will be visiting the University on Tuesday November 4, in order to establish whether the University would like to enter a team for University Challenge.

2NUR-FM staff producers have won three Certificates of Merit in the annual Australian Hi-Fi Magazine FM Radio Awards.

John Roden, Producer of the weekly Open Mind on Health, picked up the certificate in the Education Category, while Vicki Lloyd scored a double, with awards for Peace Issues (Public or Community Service) and Bush Stories (Excellence in Community Access Broadcasting).

2NUR station manager, Anton Donker, said it was significant that each of the awards involved programmes produced in co-operation with other sections of the University.

"Open Mind on Health was instituted largely because of the excellence of this University's Medical Faculty," he said.

"The Peace Issues series was a result of the Peace Summer School held at the University earlier this year, and the Bush Stories were an initiative of the Drama Department," Mr Donker said.

"The readings were directed by Jane Goodall, and read by senior drama students."

(Open Mind on Health can be heard at 12 noon each Thursday on 2NUR.)

University Challenge is a half hour television quiz show and will be screened once a week for 23 weeks.

A similar programme has been running on Granada Television in Britain for some 25 years and in New Zealand for 10 years. If it is successful here in Australia, then a three-way International Challenge is contemplated.

The game consists of a team of four students from each university answering various academic and general knowledge questions.

Contestants will be flown to Hobart, accommodation and meals will be provided.

All interested persons are requested to contact the Publicity Office. (Ext. 328).

TALKING ABOUT WRITING

Writing Skills.. ... ... ... ... Techniques... ... ... ... Essays ... Models... ... ... ... Bread and Butter... ... ... ... Writing ... Creative Writing...

Student Price: $14.50

Apply Dr F. Huang Dept. Electrical and Computer Engineering, Ext. 762.
A "Fun" Experience

Supernova, Newcastle's Hands-on Science Center recently held an open evening for University staff and their families.

Nigel Stace, President of the Friends of Supernova, emphasised the importance of such a center to Newcastle as the city's future is so closely linked to technology. It is therefore essential that Novacastrians, particularly the young, have a good understanding of scientific concepts. What better way to educate children (and adults) than to make it a "fun" experience and Supernova is a "fun" experience.

Supernova found a home earlier this year in the old store building above the Pink Elephant Markets in Hunter Street. Generous donations from Young and Green, the Newcastle Permanent Building Society, Golinhas and the University enabled Supernova to set up permanent displays in this building. Since opening on January 16, 10,000 people have visited Supernova during weekends and an average of 10 school groups pass through Supernova during the week.

At present Supernova has one part-time employee and a small core of extremely dedicated volunteers who assist people with the displays which range from crazy mirrors, to harmonographs to Uncle Tim's fan and to the latest acquisition a laser.

Supernova is open 10 am to 4 pm on weekends and holidays and group bookings are available during the week. If you would like further information or wish to support Supernova by becoming a volunteer or giving a donation please contact Tim Roberts on 62 1677 or 68 5511.

Obituary - Jeffery Richards

Colleagues of Jeffery Richards, Laboratory Craftsman in the Department of Architecture, were shocked by his sudden death on October 6, aged 35.

Jeff grew up in Newcastle, and trained as an apprentice fitter and turner at Lysaghts. After a period of work at AIS in Wollongong he returned to Newcastle where he established a business restoring antique furniture. In 1979 he joined the University, and became responsible for establishing the workshops in the Department of Architecture, helping to build a variety of equipment for research and teaching purposes.

His quiet good humour endeared him to the people he worked with, and in particular to the many students whose architectural model and sculpture projects were reviewed by his skills. He leaves three children, Steven, Rebecca and Peter. He will be missed by all.

B.S.M.

Education Enrolments

Students who are finishing their degree course this year may be thinking of applying to come into the University's postgraduate Diploma in Education course in 1987.

The Faculty of Education announces that applications for this Diploma course (one year full-time) are now being received. It is not necessary to wait until you have your results for 1986 before applying. It is necessary for every student who wishes to start the course to make a specific application. An undergraduate re-enrolment form will not be sufficient.

Application forms are now available from the Student Administration Office on the ground floor of the McMullin Building C or from the Education Office, first floor Building W and when completed should be returned as soon as possible to the Student Administration Office.

The Diploma includes one (sometimes two) of the following modules:

- Primary English
- Secondary History
- Mathematics
- Modern Languages
- Science
- Social Science (Economics, Geography)

Enquiries about this postgraduate Diploma may be directed in the first place to Mr Peter Day, Faculty Secretary for Education, who may be contacted through door G64 McMullin Building or at 5296.

SPRING FAIR

Newcastle CAE's Child Care Centre will be holding their annual fete on -

Saturday, November 1, from 10 am.

There will be lots of activities for children (e.g. merry-go-round and ponies).

Devonshire teas and a sausage sizzle will be available together with many stalls with quality home-made items including cakes and Christmas wares. All are most welcome to attend.
Comedy at its best -

Silently, the magnificent Spanish galleon slid towards the rocky intrusion, the horrible moment. Onward it slid. This was a deserted ship, there were no crows in the crow's nest, no folks in the foc'sle, and the poop-deck is best not talked about. All was quiet. The name of the ship peeled along from the bow and plunged down, then reeled up in the crests and troughs, crests and troughs until, at long last, we managed to make it out. It was......

The Footle Comedy Theatre

A strange coincidence, this is the very name taken on by a small group of students, who prefer to be called comedians. This is their biggest joke. These young multi-talents have, however, assembled many of their smaller jokes into a spanking new show (loosely based on all the old shows). Yes! It's those scurried sea-wolves from the Newcastle University Revue, and they'll be presenting two shows of unmatched hilarity at the Mary Gilmore Room in the Newcastle Workers' Club during November and December.

The first of these shows features the very best of the last four year's University Revues, and its name is too rude to mention here. The most popular sketches songs over the years will be resurrected; all, dragged up screaming; for perusal of Newcastle's general public. This show will run nightly from Wednesday November 26 to Saturday November 29, and Wednesday December 3 to Saturday December 6, for a reasonable price.

As if this isn't enough, a second show - a world premiere - is being planned to follow. "Reck the Halls", and Xmas-Rated pan pains for adults, combines a devastating plot development with several astounding music pieces. This monster will run from Wednesday December 17 to Tuesday December 24 (except Sunday of course). Both shows are all-original and Novocastrian born.

Keep an eye out for more devastations of information on this courageous venture in future editions. Don't take any wooden parrots.

And so, as Spanish galleons so often do when they are cornered, the magnificent ship lurched enormously from the water, ignited, and blasted off into the blackness to find another home among the stars.

FILM FESTIVAL

OCTOBER 23 — NOVEMBER 5

Nine movies will be presented this year at the Hoyts Royal Twin, Newcastle, for the Newcastle Film Festival:

Kiss Of The Spider Woman (M) for which William Hurt won the Best Actor Award in this year's Academies;

Turtle Diary (PG) based on Russell Hoban's acclaimed novel, and starring Ben Kingsley from the movie Ghandi and Glenda Jackson from the highly acclaimed movie Touch of Class;

When Father Was Away on Business (M) winner of the Cannes Film Festival 1985 Best Film Award.

A Private Function (M) a delightful English comedy starring Maggie Smith, the highly successful actress from California Suite;

Fool For Love (M) directed by talented Robert Altman of M*A*S*H fame, it is a fiery, interpersonal drama between two people challenging their complex, mysterious and intriguing love affair;

The More Things Change (PG) directed by accomplished actress Robyn Nevin and starring Judy Morris and Barry Otto, a delightful Australian Film about a couple who decide to change their lifestyle, but things don't quite work out as planned;

The Lightship (M) starring Oscar winner Robert Duval, a shipboard drama

Camorra (M) starring Harvey Keitel of Taxi Driver fame, a thriller full of passion, crime and vengeance;

L'Amour En Douce (M) a French Film with humour produced by Eduard Molinara, that see-saws between strongly extreme forces of good and evil, the meaning of courage and loyalty and is resolved by the love of a father for his son;

Special Festival passes are available from the Cinema for $36 for the nine movies or $20 for four movies. Telephone bookings will be accepted.

For further information please telephone 26 3488.
SPORT ROUND UP

Rowing Vice-Chancellor’s Regatta

Some 150 competitors and spectators assembled for this classic annual event. University boat club members set out to display their obvious skills to the viewing land lubbers. The weather was perfect for the occasion and river conditions excellent.

Twelve crews entered for this illustrious occasion, each with the object in view, to win the coveted “George’s Oar” and Godfrey Tanner Trophy. Exciting finishes were the order of the day and all rowers have to be congratulated on their sterling performances.

The eventual winning crew representing “Ted’s Hall” comprised - Andrew Miller (stroke), Andrew Miller (2), Michael Jamieson (2). Richard Falk (Bow), Linda Dunn (Cox).

Professor Godfrey Tanner presented the trophies at the conclusion of the regatta.

FAREWELL LUNCHEON INVITATION

Mr Graham Hanson has resigned and we ane farewelling him at a luncheon at the Shatt Tavern at -

12.30 pm on Tuesday, November 11.

Any friend in the University who would like to come is most welcome. Please telephone Cherie Hook at Extension 526 beforehand.

Golf

The 1986 Inter-Tertiary staff golf competition was played over the steelworks Golf-Club course on Friday October 10, 1986. N.C.A.E., Newcastle Technical-College and this University battled against strong wind conditions on the day. University showed their mastery and ran out worthy winners of the Inter-Tertiary Shield. Competing for the University were Messrs Ted Flowers (Caretaker), Vince Ford (Net 68), David Mercer (Net 72), Smart Wilson and Terry West (Net 74), and John Waanders (Net 82) also Professor Greg McMinn (Net 80) and Professor Alan Oates (Net 84).

The combination of Library and Patrol Staff obviously proved disastrous for the opposition, but the entire university team has to be congratulated on a meritorious victory.

Gymnastics

Jane Horley, an Arts student, was the sole representative from this University. Our lack in quantity was made up in quality. Jane won the advanced women’s trampolining and novice women’s gymnastics, she was also placed fourth in the open women’s mini trampoline event. Congratulations.
Surfriderz

The Surfriderz club have recently returned from another successful year of competition at Intervarsity (IV).

Members of the Surfriderz club regularly surf throughout the winter to gain a place on the IV team to represent the University. This year a team of 17 was chosen and travelled along with an equal contingent of supporters to Victor Harbour, South Australia.

The 5 day event was held in widely variable surfing conditions (from small and messy waves to two metre waves) in near freezing water Newcastle had the most competitors of any University in the competition and the strongest cheer squad.

Only one Newcastle surfer made it through to the finals in the open competition, Justin Gordon who finally gained the title of National Universities Surfing Champion, after six years of competition.

The Malibu final was a disappointing event for Newcastle as both Brad Lewis and Brian Birkefeld failed to attend the finals. In the Women's Final both Julie Selby and Alison Lynch gained 1st and 3rd places respectively. This was quite an achievement as they both rode very well in very rough and big surf conditions. It was a particularly satisfying result for Alison as it was her first competition.

Paul Doran and Steve O'Connor gained 2nd and 4th positions respectively in the kneeboards event and Newcastle again won the Teams Event (by a 12 point margin). The Surfriderz Trophies can be seen in the new Trophy cabinet in the Common Room, in the Union.

The Surfriderz club has over 200 members and attributes its success to the good social life centered round the club. The next major occasion for the club will be the Annual Presentation Dinner Dance to be held on Saturday November 29, probably at Dixon Park Surf Club. The club welcomes new members and encourages people to support the club by participating in its fund raising events.

FROM THE STAFF OFFICE

Administrative Assistant - EEO Unit (Temporary)

A temporary position is available until April, 1987, in the EEO Unit.

The position is being advertised internally and externally. Staff who are interested should be aware that if they were the successful appointee, a secondment might be possible. Please contact the Staff Office for further details.

Training for Word Processor Operators.

The University has approved major initiatives in the training of keyboard staff. Mrs Margaret Davie has been appointed Supervisor of Word-Processor Training. Mrs Davie had previously conducted training through the Department of Community Programmes.

Touch-Typing Courses

Formal courses will be offered to current (and new) staff - during their normal working hours and without cost. While planning has only just commenced, staff who are interested should contact the Staff Office to register for future courses.

For Sale by Tender

1 Gestetner Model 1560 Duplicator, 1
Gestetner Model 460 Duplicator, 1 Rex
Rotary Model 2202S Electronic Stencil
Cutter, 1 IBM Model 895 Dual Pitch
Selectric Typewriter, 1 IBM Model 82
Selectric Typewriter, 1 Digital LA36
Printing Terminal, 1 Trustee Model T6BE
Collator, 1 Canon Model NPS Photocopier.

Further information and a Schedule of Items
may be obtained from Mr P. Myors,
Purchasing Officer, telephone 68 5372.
Written tenders must be forwarded in a
sealed envelope marked "Tender for Used
Equipment", and addressed to the
Purchasing Officer, University of
Newcastle, NSW, 2308. Tenders close at
11.30 am, November 7, 1986. The
University reserves the right to reject any or
all tenders.

For Sale

Cocktail length dress, suitable for summer
evening wear or bridesmaid. Please
telephone Denise on 503.

Wanted to Buy

Three-way camp fridge in good condition.
If you are able to assist please telephone
extension 328 or 54 4251 (evenings).

APPPOINTMENTS

Ms L. K. Alley, Clerk in the Bursar's
Division.

Mr A. Arms, Senior Technical Officer in
the Electrical and Computer Engineering.

Mrs D. Gill, Stenographer in Medicine.

Mr. J. R. Lee Chin, Senior Technical
Officer in Psychology.

Mr D. Rye, Lecturer in Mechanical
Engineering.

RESIGNATIONS

Dr G. I. Felletti, Senior Lecturer in
Medicine.

Dr K. P. Nunn, Lecturer in Psychiatry.

ADVERTISEMENTS
DIARY OF EVENTS

Wednesday, October 29, 11.30am to 2.30pm

International Year of Peace end of year celebration in the Union Courtyard. Free entertainment will be provided by: The Patterns plus musical/comedy with The Source of All Known Evil. There will be a Peace Art Display. Free wine and cheese available plus a barbecue will be available at $3.50 per head. Tickets: SRC Office or on the day. Enquiries: Extension 329.

1 - 2pm

Education Faculty seminar to be presented by Professor Alan Barcan. Topic: Process Writing in New South Wales Schools. Venue: Primary Classroom W202.

Thursday, October 30, Noon

Movie: Scarface in the Union Common Room. Donation: 50 cents.

ADVERTISEMENTS

For Sale

Two storey brick veneer home at Port Macquarie. Features include: absolute water frontage with views of the Hastings River, one year old, fully carpeted, large rumpus room, extra shower and toilet, two lockup garages underneath, upstairs contains spacious kitchen, lounge and dining rooms plus two large bedrooms with two-way bathroom. This home is being sacrificed at $98,000. All interested persons are requested to telephone Ext. 211.

Hondo II electric guitar. Excellent Condition. $160 o.n.o. Please telephone ext. 700 or 52 4395 after hours.

Surfboard, 6' - 8' single fin $75. Clothes Drier, upright cabinet type $50. Bedspread, double bed size, rose pink quilted velvet $45. Please telephone Richard on 659.

Quick Sale:

- Black wooden 3-shelf cabinets with doors, $15 each.
- Tall laundry cabinet $15.
- Small Fridge $80
- Kitchen chairs, good condition $2.
- Kitchen table $15.
- Metal steamer trunk $10.
- Wooden box with extension cords $15.
- Photographic stuff: Movie Camera, movie projector, polaroid land camera, etc. $50.
- For information telephone 532 and leave a message for Theo or 43 5306 evenings.

Baby-Sitter Wanted

Belgian visiting academic on study leave in Newcastle for five months is looking for a French speaking baby-sitter for a few hours per week during day time. Children are aged 5 yrs, 3 yrs and 6 months. Please contact Dr Vincent Wertz, Electrical and Computer Engineering on Ext. 318 or call in at 19 Heaton Street, Jesmond.

Wednesday, November 5, 5.30pm

Convocation Inaugural Lecture by Professor Annette Dobson. Topic: Knowledge Through Numbers. Venue: Medical Sciences Lecture Theatre. Refreshments will be served after the lecture.

Thursday, November 6, Noon

Movie: Bringing up Baby in the Union Common Room. Donation: 50 cents.

Friday, November 7, Noon

Department of Chemistry Seminar to be presented by Mr D. Barker. Venue: OGO5, Chemistry Building.

Friday, November 7, 1pm

AWEUN film screening in room K202, Medical Sciences Building: Assertiveness Issues (18mins) and Women and Sexuality (35 mins).

Give Away

One female puppy needs someone to love. Mother is a small dog, father unknown. If you can give pup a home, please telephone ext. 240 or 82 8783 after 6.00 pm.

Lost

Brown wallet lost approximately Friday, July 25. This wallet is new and has many sentimental photographs and bits and pieces. The recovery of the money is unimportant but the return of the wallet and the bits and pieces are. A reward will be offered for its return. If you are able to assist please telephone 69 5724.

Positions Vacant

Edwards Hall invites applications for seven residential staff positions tenable during 1987. Preferred applicants should hold a primary degree and be proceeding to a higher degree or should be a member of the academic staff of the University. Applications close November 3, 1986. For further information contact Mike Blackmore, Ward (phone 67 2644).