Campus Inquiry on Control Booths

The University Council took action on 20th July to obtain more views on the control booths which have been erected on the two roads giving access to the main university site.

The meeting appointed an ad hoc committee to discuss car control with interested persons and report back to the next Council meeting.

In addition, a report from the Vice-Chancellor relating to the fencing of the site, the erection of gates at the main entrance and the erection of parking stations and a letter from the Students' Association to the Vice-Chancellor were referred to the Council's Buildings and Grounds Committee for consideration and report.

The Vice-Chancellor said that in 1965 the University asked for funds for the provision of entrance gates, together with perimeter fencing for the University site, and the Australian Universities Commission agreed to a maximum of $62,000 being spent. The University at all times had been compelled to give priority to sewers, services and roads and, accordingly, it was not possible to give effect to this approval under the pressures existing on the site in the period 1966-69. This led to criticism on the part of at least one Union whose employers worked on the site.

"The long term plans for the entrance gates on Rankin Drive were approved on the grounds that there was an unquestionable need for a bus shelter, a need to identify the entrance to the University in a visually appropriate fashion and, eventually, a need to be able to control vehicular access to the University under special circumstances.

"The erection of minimum essential fencing to counter an increasing amount of vandalism on the site and the provision of control booths as an aid to visitors to the site and to assist in implementing the University's parking and traffic regulations formed part of a number of recommendations on traffic and parking approved by the Council on 16th March, 1972 which were given publicity in an issue of University News soon afterwards.

"The Administration has received an increasing number of complaints from students and staff about thefts of property. It has been reported that the incidence of theft from the parking area at Edwards Hall has abated since the erection of fencing in that area.

"Vandalism on the site occurs in a great variety of ways: breakage of street-lighting fittings by rifle fire and other projectiles; use of the site as a trail-riding circuit by motorcyclists; dumping of rubbish; removal of traffic signs, bollards, warning lights and building materials; destruction of trees and shrubs, particularly when functions are held at weekends, "signwriting' on buildings, entrance gates and other structures".

The Vice-Chancellor said the University's road system was also used from time to time as a sort of racetrack and police had had to be called to the site to disperse people driving vehicles at high speed around the campus road system. The installation of gates and fencing made it possible to take steps to prevent this kind of activity, which represented a serious hazard to the University community and visitors, particularly those leaving functions late at night.

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At the instigation of the Standing Committee of Convocation, both the Department of Community Programmes of the University and Newcastle Branch of the Arts Council had been approached with a view to a Newcastle Arts Festival being staged at the university on a cooperative basis near the end of first term next year. The main purpose of Mr. King's address would be to endeavour to initiate a discussion on the desirability of the proposed festival. Convocation's guest should be in a position to state what degree of financial and other assistance could be given by the Australian Council for the Arts, the federal agency in this field.

MR. CALLAGHAN ELECTED DEPUTY CHANCELLOR

The new Deputy Chancellor of the University is Mr. B.B. Callaghan, a member of the University Council appointed by the Governor. Mr. Callaghan was elected by the Council to fill the vacancy in the office caused by the recent death of Dr. G.A. Edwards.

Mr. Callaghan, who, since 1965, has been Managing Director of the Commonwealth Banking Corporation, has had a distinguished career in banking. Amongst the positions he held prior to his present appointment were those of Executive Director of the International Monetary Fund, the International Bank for Reconstruction and Development and the International Finance Corporation in Washington, D.C., as well as that of General Manager of the Commonwealth Development Bank.

Born in Newcastle and educated at Newcastle Boys' High School, Mr. Callaghan has had the closest of ties with the development of the university, having been a member of its Council since the formation of the first full Council of the University in 1966. As a Council member and as a Director of The University of Newcastle Research Associates Limited (the University's specialist research and education company), Mr. Callaghan has given the University the benefit of his wide experience. Since 1969 Mr. Callaghan has also served as Chairman of the Australian Administrative Staff College and as a Member of the Council of the Institute for the Study of Mankind and Society.

NEWS FROM THE COUNCIL

Vacancies Filled

Mr. G. Giles, a student who was elected to the University Council by the students, and Mr. J.K. Ellis, who was appointed to the Council by members of the Council themselves, were elected to the Council's Buildings and Grounds Committee.

Mr. Ellis was also nominated for election as a Director of TUNRA to fill the vacancy caused by the death of Dr. G.A. Edwards.

1976-78 Developments

The Planning Committee of Senate submitted new academic proposals for approval by the Council and the Australian Universities Commission and implementation in the 1976-78 triennium. The major developments to be requested are:

- A Faculty of Law,
- A Department of Archaeology and Anthropology,
- An Institute of Mathematics in the Life Sciences and Medicine,
- A Department of Politics,
- A Department of Asian Studies,
- A Department of Italian,
- Introduction of a course-work Master's degree in Urban Environment Planning,
- Expansion of facilities so that the Bachelor of Surveying course can be taken for the whole four years instead of the first two years as at present,
The introduction of postgraduate diplomas in Chemical Engineering to provide bridging courses for graduates in other areas, and The development of studies for the Diploma of Computer Science to serve students enrolled in the Faculties of Science and Mathematics.

Biological Sciences

Council was informed that work on the new Biological Sciences building was running to schedule and it was anticipated that the building will be completed by next December. In two weeks time the illuminated parchment produced for the inaugural lecture in the new Department will be sealed into the foundations of the building. It will be contained in a stainless steel cannister.

Higher Degrees

Council decided that the following people be awarded higher degrees at the next Graduation Day:

Doctor of Philosophy, Bernard Francis Curran (Department of Classics), whose thesis was The Cult of Mars.

Master of Engineering John Henry Bourke (Department of Metallurgy), whose thesis was The Impinging Gas Jet Reactor; David Jones Clements, (Department of Electrical Engineering), whose thesis was Non-Linear Fixed-Log Smoothing of a Random Telegraph Signal.

Master of Commerce, Warren James Pengilley (Department of Legal Studies), whose thesis was Price Fixing Agreements.

Master of Arts, Aaron Patrick Taparo Loftus (Department of Psychology), whose thesis was Prediction of Recidivism in Male Juvenile First Offenders.

Transport Services

The Council was informed that the Buildings and Grounds Committee had set up a sub-committee to consider transport services to and from, and traffic and pedestrian movement within, the university.

The College of Advanced Education has been invited to join in the discussions.

The sub-committee consists of Dr. P. Kirton and Messrs. J. Cornelius and E. Buckman. The Vice-Chancellor was asked to invite Assoc. Professor C. Keay, Professor K. Robinson, Assoc. Professor E.C. Parker, Dr. C.J. Aislabie, Dr. R. Vaughan, Mr. S. Jacobi and Mr. D. Parkes to join the group.

ACADEMIC APPOINTMENTS

Professor John B. Biggs has taken up his appointment to the second Chair in Education. Professor Biggs was Professor of Educational Psychology at the University of Alberta before coming to the university. He is a First Class Honours graduate in Psychology at the University of Tasmania and holds a Doctor of Philosophy degree in the University of London.

Miss P.R. Nakutis has taken up her appointment as Lecturer in Economics. Miss Nakutis was a Tutor at the University of New South Wales since 1969 and holds a B.A. degree and Diploma of Education in that university.

STAFF MEMBERS' BOOKS

Two members of staff from the Department of Mathematics are authors of books which have just been published.

Professor H. Melvin Lieberstein, Dean of the Faculty of Mathematics, wrote Mathematical Physiology, Blood Flow and Electrically Active Cells for the American Elsevier Publishing Company, Inc., which has published it as Number 40
in its Modern Analytic and Computational Methods in Science and Mathematics Series.

Assoc. Professor Warren Brisley is the author of *A Basis for Linear Algebra*, which has been published by John Wiley and Sons Australasia Pty. Limited, and is available from the bookshop in the Union.

In the Preface to his book Professor Lieberstein states that academics concerned with mathematics have hoped that graduate courses in mathematical physiology could be introduced in those mathematics departments where it is intended that a home be made for modern applied mathematics. His book was aimed toward making the introduction of such a course possible by providing textual material for it. The book is organised in two parts: the first part treats blood flow and wall tension problems; the second discloses a mathematical formulation of electro-physiology, which serves as a unified description of the electrical activity of many varied electrically active cells of the body - nerve, skeletal muscle, smooth muscle, heart contraction, pacemaker, and receptor (or frequency modulator) cells.

Professor Brisley's book introduces the beginner to the basic notions of abstract algebra. The notions of matrices, complex numbers, finite arithmetics and permutations are dealt with first, with the later chapters devoted to vectorspaces chosen as being easiest to analyse and swiftest to apply in a useful, concrete form. Numerous examples are given throughout the text, and there is an ample number of exercises, with answers to them, to aid the student in the development of mathematical reasoning.

**HIGH RESOLUTION NMR SPECTROMETER**

The Australian Research Grants Committee has advised that the Government has approved the acquisition of a high resolution nuclear magnetic resonance spectrometer. The instrument may be used by workers sending samples for analysis or people manipulating the instrument themselves.

It is expected that some time will elapse before the equipment is received, installed and an operating team has been trained in its use. There is a good chance that it will be fully operational by mid-1974.

The instrument will be placed in a location to be determined. It will be a national facility equally available to all workers with a genuine need. It will be readily accessible by transport.

The allocation of time on the instrument will be supervised by a Management Committee. A small permanent staff will be in charge of its day-to-day operation.

A charge based on hourly usage will be established. In the case of ARGC grantees the estimated total cost will be included in their grant.

When details of the location and availability of the NMR equipment are known, applications for its use will be invited.

**KUBRICK'S AND BRESSON'S FILMS**

The work of film directors Stanley Kubrick and R. Bresson will continue the programme of films which the Department of English and the Department of Community Programmes are screening.

Screenings will be in the Arts/Drama Theatre at noon (Department of English) and 7.30 p.m. (Department of Community Programmes).

On 26th July, Kubrick's *2001 A Space Odyssey* (150 minutes) will be shown. Kubrick's film is an exploration of space, time and the depths of the mind. Visually powerful in its suggestions of space and movement, it's soundtrack uses Richard Strauss' 'Thus Spake Zarathustra' (1895).
On 2nd August, *Pick Pocket*, made by Bresson in 1959 and lasting 75 minutes, will be screened. Michel, a confused solitary intellectual is compelled by an uncontrollable weakness to pick pockets. The act of stealing becomes a substitute for personal relationships arising from a need for sympathy and self-assertion in what, to him, is a hostile world.

**POSITION AVAILABLE**

*Stenographer*  Department of Mathematics

A competent and experienced stenographer is required. Commencing salary will be up to $75.37 per week, depending upon age, qualifications and experience. In addition efficiency allowances up to $7.47 per week can be gained by passing speed tests at examinations.

Applicants are asked to show on their application form the shorthand and typing speeds which they are confident of achieving under tests.

Application forms may be obtained from the Personnel Section, Ext. 251.


**BEHAVIOUR MODIFICATION**

An invitation has been issued to members of staff to attend a symposium entitled "Behaviour Modification", which will be conducted by the Department of Psychology in conjunction with the Newcastle Branch of the Australian Psychological Society, in Lecture Room B01 on Friday, 27th July, at 8.15 p.m.

Techniques such as Aversion Therapy have aroused considerable public interest in recent times and many members of the public are forming opinions about Behaviour Modification with little basis in fact. The speakers will be Professor S.H. Lovibond, Head, School of Psychology, The University of New South Wales; Dr. Howard Johnson, Director, Shortland Clinic, Newcastle, and Dr. Endre Székely, Senior Lecturer, Department of Psychology.

**SEMINAR ON POLLUTION**

A seminar for members of staff, postgraduate students and honours students will be held in the Conference Room (203, Social Sciences Building) on Tuesday, 31st July, at 2 p.m.

The speaker will be Mr. C. Walsh, Lecturer in Economics, Australian National University, whose topic will be "An Economic Perspective on Pollution". A graduate of the University of London, Mr. Walsh is a participant in the Botany Bay Project, which is concerned with urgent pollution problems and environmental policy in Australia.

**HISTORY CLUB'S DINNER**

The annual dinner of the University's History Club will be held in Edwards Hall on Friday, 3rd August, at 7.30 for 8 p.m. Tickets ($5.50 each) may be obtained from the Secretary, Department of History.

The guest speaker will be Dr. Barry Smith, Senior Fellow, Institute of Advanced Studies, Australian National University, who will give a talk on "Thomas Walker, Newcastle's Most Unusual Politician".

During the day he will give a lecture on "Victorian Sexuality".
DISCUSSIONS ON CAREERS

All students are invited to take advantage of visits being made to the university by employers' representatives. The main purpose is to inform students of the prospects, duties, salaries, etc., attached to the various occupations.

The interviews will be held in the next fortnight:

<table>
<thead>
<tr>
<th>Date</th>
<th>Occupations</th>
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<tbody>
<tr>
<td>31st Jul</td>
<td>Arthur Andersen and Co. Public Accounting</td>
</tr>
<tr>
<td>2nd Aug</td>
<td>Burroughs Ltd. Territory Managers, Marketing</td>
</tr>
<tr>
<td>7th Aug</td>
<td>International Computers (Aust.) Pty. Limited Computer Personnel</td>
</tr>
<tr>
<td>8th Aug</td>
<td>N.S.W. Public Service Administrators, Psychologists, Commerce, Economics, Engineers, Scientists, and other occupations</td>
</tr>
<tr>
<td>9th Aug</td>
<td>Price Waterhouse Public Accounting (Newcastle)</td>
</tr>
</tbody>
</table>

Appointments for interviews should be made through the Appointments Office.

FI L MS O N F ASC I SM A ND C OMMUNISM

Films dealing with Fascism and Communism will be screened by the History Club in the next fortnight.

On 1st August, the club will show *Mussolini, Goering, The Rise of Adolf Hitler, The Twisted Cross and War Comes to America.*

On 8th August, if the Russian Embassy has a spare copy, Eisenstein's classic *Lenin in October* will be screened.

Both screenings will be held in the Drama Theatre beginning at 7.30 p.m.

A D V E R T I S E M E N T S

FOUND: Parker ballpoint pen, inscription: "Paul Walsh"; please contact Mr. R.F. Berghout, Mathematics Department.

TYPING DONE: Mrs. Shirley Reed, 67 Wood Street, Adamstown ('phone 51 1356) is looking for work as a casual typist.

FOR SALE: English sofa/bed, black and white velvet covered, floral pattern and stain resistant, 5'6" long, folds out into full-size double bed, $200. Sideboard, ready for scrubbing finish, $50. Cortina 1600, 440, 1970 model, automatic, one owner, 12 months' registration, near-new tyres, regularly serviced, log book, heater demister, rust free, excellent condition, $1,800.

'Phone: 52 2906 26th or 30th July.

HOME TYPING: Mrs. D.J. Street, 1 Kathleen Street, Cardiff, is receiving a widow's pension and is supporting children. She would be grateful for typing work (theses, lecture notes, etc.) and would come to the university to pick up the manuscripts.

FOR SALE: Stereo amplifier, Playmaster 115, 12 watts per channel. Sensitivity 100 mV (i.e., for use with ceramic cartridge), distortion 0.1%. Brushed

WANTED: Minolta or Pentax camera to rent during August for photographing of old Australian portraits. Please 'phone Eve Buscombe, Ext. 223.

PORTRAITS: Eve Buscombe is interested in locating old Australian portraits for possible inclusion in her book on Australian Colonial portrait painters. If you can tell her of the whereabouts of any, then please 'phone Ext. 233.

FOR SALE: Brass and iron beds and a quantity of old wares. Ring Gary Kurzer, S.R.C. Office, or call at 10 Swan Street, Newcastle.

PROFESSOR COTTER AS GUEST SPEAKER

The Economic Society will hold a meeting on Tuesday, 7th August, in the Staff Conference Room of the Faculty of Economics and Commerce commencing at 7.30 p.m. The speaker will be Professor Richard V. Cotter, Visiting Professor in the Department of Commerce, who will speak on "A Management Science Application for Financial Decision Making".

TRIP FOR PROF. LIEBERSTEIN

At the invitation of the University of Papua-New Guinea, Professor H.M. Lieberstein will visit Papua-New Guinea for 18 days next month. He plans to visit "lt. Hagen, in the highlands where, among other things, he will see a "sing, sing", and to deliver lectures at Goroka Teachers' College, the Institute of Technology, Lae, and the University of Papua-New Guinea, Port Moresby. Professor Lieberstein will leave on 2nd August.

STUDENT HOUSING SURVEY

Recently all students (nearly 4,000) received a survey in the post asking for details of their present accommodation. The response has been good - masses of completed returns are coming back - but to get a balanced picture of how students live we hope that everyone will fill in their form and drop it in to Student Administration or return it in the mail.

OKTOBERFEST

Members of staff are invited to an Oktoberfest to be held at Edwards Hall on Saturday, 6th October. Even though it won't be quite as on the Wies'n in Munich, the spirit will be there. Mark down the date for a jolly evening of Gemuetlichkeit, helped along by Bavarian style food, beer, song and dance. Details will be announced as soon as available.

SCHOLARSHIPS, FELLOWSHIPS AVAILABLE

Mr. J.D. Todd, Assistant Secretary to the University, has further information about the following scholarships and fellowships:

<table>
<thead>
<tr>
<th>Scholarship/Fellowship</th>
<th>Closing date</th>
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<tbody>
<tr>
<td>The Frank Hutchens scholarship for musical composition ($600 a year) available to Australians resident in N.S.W. who are under 25</td>
<td>30th September</td>
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</tbody>
</table>
Australian Wool Corporation Post-graduate Studentship available for work on the ecology and/or physiology of the Mitchell grass community at the University of Queensland

East West Centre in Hawaii Scholarship Awards for the 1974-75 American academic year 14th September

The Apex Foundation studentships for research into mental retardation available to students preparing theses as part of their undergraduate curriculum 30th September

American Association of University Women International Fellowships for graduate study or advanced research by women at institutions in the U. S. 1st December

Commonwealth Fellowship for 1974-75 available to a scholar holding an academic post and wanting to pursue his own study and research at St. John's College, Cambridge 15th January, 1974

**E L E C T R I C A L  R E S E A R C H  B O A R D**

The Electrical Research Board is now inviting applications for research grants for the year 1974. The closing date for the receipt of applications by the Secretary of the Board is 14th September, 1973.

Copies of the forms and notes for the guidance of applicants have been sent to the Departments of Physics and Electrical Engineering. If any other person wishes to have a copy, they may be obtained from Mrs. G. Durham (Ext. 240).

**W A T E R  R E S E A R C H  F O U N D A T I O N  O F  A U S T R A L I A  L I M I T E D**

The Foundation is inviting applications for grants for water research projects. The closing date for the receipt of applications by the National Office of the Foundation is 15th September, 1973.

Application forms are available from Mrs. Durham (Ext. 240).

**A I N S E  R E S E A R C H  G R A N T S**

The Institute is inviting applications for research grants for its 1974 series. Details have been sent to the Departments of Chemistry, Metallurgy and Physics.

If any other person wishes to have an application form, they may be obtained from Mrs. G. Durham (Ext. 240). Completed applications should reach me no later than 10th September, 1973.

**S P O R T I N G  N E W S**

Cricketers' Meeting

Primary office-bearers elected at the University Cricket Club's annual general meeting on 13th July:

Patron, the Vice-Chancellor; President, Mr. J. Cornelius; Secretary, Mr. A. Keating; Assistant Secretary, Dr. J. Chambers; Auditor, Mr. R. Gibbins; Permanent selectors, P. Irwin, H. Bradford.
Mr. V. Levi did not nominate for reelection as President, and the meeting unanimously elected him Vice-President.

Mr. Bradford was elected a Life Member of the Club.

It was resolved to make efforts to obtain the assistance of a Coach for the coming season.

Squash

Ray Armstrong and Kevin Donnelly have been nominated by the Sports Union for selection in a forthcoming Australian Universities' tour of New Zealand.

Men's Hockey

Doug Cummings, Wayne Taggart and Anthony Keating have been nominated by the Sports Union for selection in a Combined Universities team to tour India in December.

Bowls Tourney

Some members of the Technical College's staff have issued a challenge to the university's staff to meet them in a bowls tourney on a Sunday morning.

Members of staff who are interested are asked to ring George Houghton on 758. The Tech. can rally more than a dozen players and George hopes to hear from at least this number of members of our staff.

Rowing

The Inter-Faculty Rowing Regatta will be held at the University's Raymond Terrace course on 29th July.

Surfriding

The University Surfriding Club was host to teams from Macquarie, Sydney and New South Wales Universities and the A.N.U. on 21st and 22nd July.

Aussie Rules

The Australian Rules Club will hold its annual dinner and presentation of trophies at the Workers' Club on the night of 27th July. Tickets can be obtained from "Tangles" Brady, C/o The Library.

Pork and Wine

A Pig Roast and Wine Bottling will be held at the home of Mr. and Mrs. J. Cornelius, 31 Parbury Road, Swansea, close to the Caves Beach Turn-off, on Sunday, 29th July, beginning at 1 p.m.

The function will boost the fund for the entertaining of the hundreds of cricketers who will come to the University for the Inter-Varsity Carnival next January.

Attendance costs $2, which provides for food and beer. People who bring bottles with them will be able to buy good bulk wine for a reasonable price. Therefore, only empty bottles, food utensils and money need to be taken.

Tickets can be obtained from the Amenities Office, Mr. G. Preston (Electrical Engineering) and Dr. J. Chambers (Mechanical Engineering).