A.R.G.C. GRANTS

In 1978 the University will receive $254,135 from the A.R.G.C. as compared with $221,354 this year.

The following grants have been awarded:

Professor J.B. Biggs and Dr. J.R. Kirby: Learning styles, information processing abilities and academic performance: $3,283.

Mr. H.W. Dick: The impact of the introduction of buses to the public transport systems of Indonesian cities: $1,750.

Dr. D.C. Finlay and Dr. A. Ivinskis: Perceptual development in infants: $3,390.

Dr. R.A. Heath: Spatio-temporal processes in human visual information processing: $6,334.

Professor J.A. Keats and Professor M.G. King: Performance of spatial tasks correlated with oestrogen and testosterone level: $7,937.

Professor M.G. King: Catecholamine involvement in aversive behaviour and its control: $4,500.

Dr. C. McKenna: W.J. Turner-A critical study of his life and work: $4,398.

Associate Professor M. Rutherford and Dr. P.J. Hempenstall: Protest in the Pacific: $4,500.

Associate Professor J.A. Ramsey: The structure and properties of the surfaces of metal single crystals and the adsorption of gases: $4,800.

Associate Professor C.A. Croxton: Liquid-solid and liquid-vapour phase transitions: $6,910.

Professor C.D. Ellyett: Temporal and spectral analysis of remote sensing data: $16,767.

Dr. B.J. Fraser: Propagation studies of hydromagnetic waves between spaced stations: $3,852.

Dr. R.P. Cooney: Analysis at the electrode/electrolyte interface: $28,489.


Dr. J.C. Turner: The stability of the ecotone between two rain-forest types: $4,590.

Dr. P.J. Quinn: Studies of mammalian embryo development and differentiation: $1,700.

Dr. R.N. Murdoch and Dr. D.J. Kay: Uterine alkaline phosphatase and reproduction in mice: $6,000.

Dr. J.W. Patrick: Hormone-promoted transport in shoots: $5,600.

Dr. T.K. Roberts: An immunological approach to the study of semen, particularly seminal plasma interactions: $5,273.

Dr. R.J. Rose: Chloroplast DNA segregation in cells and isolated protoplasts: $6,000.

Professor R.A. Antonia and Dr. A.J. Chambers: Small scale atmospheric turbulence: $29,681.

Professor R.A. Antonia: Transfer processes in turbulent shear flows: $22,213.

Associate Professor G.C. Goodwin: Computer aided techniques for multivariable system identification - experiment design and data analysis: $11,368.

Dr. F.J. Lidgey and Dr. K.K. Saluja: Fault diagnosis in Gunn logic networks: $2,400.

Professor J.B. Moore, Professor B.D.O. Anderson and Dr. A.C. Cantoni: Control and communication systems analysis and synthesis: $15,085.

Professor R.W. Robinson: Numerical implementation of unlabelled graph counting algorithms: $11,865.

Dr. T.F. Wall: Entrainment, mixing and ignition in particle laden jets: $18,520.

THE VICE-CHANCELLOR'S

THIRD TERM MEETING WITH STAFF

will be held in the

ARTS/DRAMA THEATRE

on

TUESDAY, OCTOBER 25, 1977

At 1.00 P.M.
Applications for admission to postgraduate courses are now being received and are due early in January, 1978. Application forms and further information are available from the Secretary, University of Newcastle, 2308. Although applications for admission to undergraduate courses have closed, late applications may be lodged.

University offers new courses

The University of Newcastle will be offering a number of new courses in 1978. They include a postgraduate Diploma in Economic Studies, a Master of Business Administration and a Master of Commerce in Accounting by coursework.

The new courses have been developed to meet an increasing demand for postgraduate studies in Economics and Business and their has been influenced by the needs of the industrial and business concerns in the Newcastle region.

They supplement the wide range of undergraduate and postgraduate courses already offered in the University's eight Faculties. The introduction of the Diploma in Economic Studies will provide the opportunity for people interested in Economics to gain a postgraduate qualification following two years of part-time study or one year of full-time study. The course should be of particular interest to secondary school teachers involved in the teaching of Economics.

The objective of the Master of Business Administration degree is to prepare suitable applicants selected from a broad area of management for future executive roles in private and public enterprises. The emphasis in the course is on developing an ability to analyse and solve management problems.

Professional accountants involved in private practice or in commerce will find that the Master of Commerce by coursework in Accounting degree will provide an excellent opportunity for advanced study in their discipline.

Staff appointments

Dr. M.W.B. Orange has been appointed lecturer in the Department of English.

Dr. P.N. Fredericks has been appointed Post Doctoral Research fellow in the Department of Chemistry.

Dr. R.B. Neame has been appointed senior lecturer in the Department of Modern Languages.

Mr. M.R. Freund has joined the Planner's Office as Gardener (Junior).

Mr. J.F. Hill has been appointed Station Manager of the University's Radio Station.

Miss C. Hill has begun duties as Office Assistant/Typist in the Faculty of Medical Sciences.

Mr. R.W. Turnbull has joined the Faculty of Medicine as Chief Medical Photographer.

Mrs. A.M. Rowley has begun duties as Secretary in the Department of Physics.

Professor aids Nobel Prize winner

Professor M.G. King, Head of the Department of Psychology, whilst on study leave last year, carried out research on neuroendocrinology with the Neuroendocrinology Research Unit at the V.A. Hospital, New Orleans, Louisiana. One member of the research team, Professor A. Schally, was recently awarded the Nobel Prize for his contribution to neuroendocrine research.

Professor King carried out experimental studies with Professor Schally and his group which showed that one of these opiate-like substances enhances some forms of learning.

Residential staff position for 1978

The Board of Trustees of Edwards Hall invites applications from suitably qualified men or women for the position of SUBWARDEN within Edwards Hall for 1978.

Applicants should hold a primary degree and should be proceeding to a higher degree or should be a member of the academic staff of the University. However, the Board reserves the right to appoint any other person it thinks fit, make an appointment by invitation, or make no appointment at all.

A Subwarden of Edwards Hall carries out both academic and administrative duties on a part-time basis and is required to reside at the Hall. The duties, terms and conditions of appointment, remuneration and residential fees of a Subwarden may be obtained from the Warden, to whom applications should be forwarded.

Applications should include a brief curriculum vitae and any details of previous experience of residential halls.

Applications will close on 4 November, 1977 and the Board would wish to make an appointment early in December.
LIBRARY COMMITTEE OF SENATE SET UP

As reported in the last University News, Senate agreed that a Library Committee should be established as a committee of Senate with specific terms of reference and membership.

Professor Dutton recommended that a recurrent funding of the Vice-Chancellor that a Senate reached these and other decisions after considering a report from Professor K.R. Dutton on the role and funding needs of the Auchmuty Library.

Professor Dutton was asked by Senate early in 1977 to undertake the enquiry. A number of staff members responded to an invitation to make submissions and University Librarians were throughout Australia completed questionnaires. The Library Committee will consist of 19 members:

- The Deputy Vice-Chancellor assisting the Vice-Chancellor in financial planning for the University (Chairman).
- The Librarian.
- The Assistant Librarians.
- Three members elected by and from the students of the University.
- One member elected annually by and from the students enrolled as candidates for an undergraduate degree of the University.
- One member elected annually by and from the students enrolled as candidates for a postgraduate degree or diploma of the University.
- Two members elected annually by and from the students enrolled as candidates for an undergraduate degree of the University.
- One member elected annually by and from the students enrolled as candidates for a postgraduate degree or diploma of the University.

Senate also recommended to the Vice-Chancellor the crediting to the Library of fine monies for the late return of books and the re-marking of them for the purchase of multiple copies of works required by undergraduate students.

Professor Dutton recommended that the Library Committee bring before Senate as soon as practicable for endorsement a statement concerning the objectives of the Library. He argued that an explicit statement of Library objectives would be beneficial to the Library, as giving it the assurance that in pursuing its role it was carrying out the wishes of the academic community generally.

The report lists present and foreseeable future needs of the Library for the acquisition of books, periodicals and other materials in the light of the Library's role within the University and in the Newcastle region. It is submitted that there are no fixed criteria by which these needs can be formulated in financial terms, but that inter-university comparisons provide the most appropriate means of determining whether a particular university is making available an adequate level of resources to enable such needs to be met.

It is suggested that each university should attempt to achieve the same level of expenditure (e.g., as a percentage of its budget) upon its library, but rather that it should use inter-university comparisons as a starting point from which an expenditure higher or lower than the national mean might be argued for on the grounds of specific needs. In general, members of the University with whom Professor Dutton discussed the funding of the Library appeared to have one of three views:

- That as the Library was the central academic service of the University, its funding should be maintained (or even increased) in real terms.
- That the Library should receive the same financial treatment as academic departments;
- That the Library's funds could be cut back without severe disadvantage.

The choice of a target of 3.0 per cent is to some extent subjective, but it is a figure above the Australian mean for the years 1972-1976 and should be maintained as the position of Newcastle as one of the better funded Australian university libraries in order to take account of:

- The reasonably wide consensus of opinion within the University that the Auchmuty Library should be at least as well funded as Australian university libraries generally;
- The importance of the relatively wide spread of teaching, of the geographical isolation of the University and of the need to compensate for the poor library provision of earlier years;
- The relatively slow expenditure of equipment funds on Library materials over the last five years.

On the other hand, this percentage represents a reduction compared with the present percentage (3.46 in 1977) and thus takes account of the fact that the Library is now "established" and should be broadly comparable with other "established" libraries rather than new ones.

Professor Dutton states that his overriding consideration has been to do what is possible to allow the Library to plan ahead on the basis of stable financial support. While he appreciates that a static budget combined with continuing inflation will mean a decrease in spending power each year, the guarantee of minimum funds will allow the Library time to develop a strategy for coping with such problems as the cancellation of periodical subscriptions and the adjustment of departmental allocations.

Executive need for severe cutbacks in monograph purchases and the cancellation of periodical subscriptions will it be necessary to exploit as fully as possible any opportunities for rationalisation in Library purchases.

Better selection will need to become a major goal, though as the M.I.T. Library study by Raffel and Shishko has pointed out this is not a simple matter.

The University Librarian had called for more economical purchasing by the libraries of particular library materials, notably journals.

Professor Dutton has suggested that a number of other avenues be explored with a view to achieving economies. Of the 15 universities surveyed by questionnaire, all but one have a Library Committee that which Professor Dutton has suggested that a number of other avenues be explored with a view to achieving economies. Of the 15 universities surveyed by questionnaire, all but one have a Library Committee like that which Professor Dutton proposed to set up within the University of Newcastle.

It is envisaged that the Committee would report to Senate from time to time on particular Library matters and would prepare an annual Library Report to which Senate would be asked to receive.

It should be stressed at the outset that the role of this Committee would be advisory and consultative rather than executive; it would not seek to direct the Librarian in the execution of his functions and he would remain directly responsible to the Vice-Chancellor for the operations and management of the Library and its services.

Professor Dutton would have preferred to be able to recommend a smaller and potentially less unwieldy committee. However, he feels that it is more important that the Committee be widely representative and that the intention of involving the Library and the rest of the University more intimately with each other.

...
Professor Tony Smith, previously attached to the University of Sheffield, has taken up his appointment as Foundation Professor of Clinical Pharmacology in the Medical School.

BY-LAW AMENDMENTS

It was expected that the first series of amendments to the By-laws made by the Council following its consideration of the Report of the Committee on University Government would be Gazetted last Friday, 17th March. Once formal confirmation of this has been received the new By-laws together with ancillary Regulations will be published in a booklet which will be sent to all members of the academic staff.

ENGINEERING SUMMER SCHOOL

More than 70 Year 12 students from 15 high schools, including local schools and schools as far away as Taree, Scone, Muswellbrook and Singleton, attended a Summer School held by the Faculty of Engineering from February 6 to 8. The summer school consisted of a series of lectures and laboratory sessions aimed at introducing students to the use of scientific methods in the solution of everyday problems faced by engineers. Areas covered included creative design, materials science, civil engineering design, electromagnetic distance measurement, micro-processors, communications and automatic control, the recovery of energy from organic wastes, air-surface interaction, management and biomechanics. The lectures were given by members of the staff of the Faculty as well as by Mr. R. Axe (Chief Electrical Engineer B.H.P. Newcastle), Mr. J. Edwards (of the Research and Technology Centre, John Lysaght (Aust.) Ltd. and Dr. G. Kerridge, Director of Orthopaedics, Royal Newcastle Hospital). It is expected that the summer school will be held annually in future.

WE'RE HAVING A ROUND-UP

The Commonwealth Bank on campus is having an old passbook round-up. All those old bank passbooks that you haven't used for years and have only a few dollars in them. It doesn't matter what bank they are from, whether it be the First National Bank of Katmandu or any other bank. Just bring them into the Commonwealth Bank on campus and they will collect the funds for you and put them into your present account or open a new account.
EXAMS IN AUCHMUTY SPORTS CENTRE

IN THE FORTHCOMING EXAMINATION PERIOD THE AUCHMUTY SPORTS CENTRE WILL, FOR THE FIRST TIME, BE USED FOR EXAMINATIONS.

THE FOLLOWING INFORMATION MAY ASSIST YOU IN MAKING ARRANGEMENTS FOR ANY EXAMINATION YOU WILL BE TAKING IN THE CENTRE.

PARKING: TEMPORARY PARKING SPACE WILL BE AVAILABLE ON GRASSED AREAS WITHIN THE VICINITY OF THE CENTRE. SIGNS AND A PATROL ATTENDANT WILL BE PROVIDED TO ASSIST STUDENTS IN PARKING.

IT CANNOT BE GUARANTEED THAT THE TEMPORARY PARKING AREAS WILL ACCOMMODATE ALL CANDIDATES SO YOU ARE REQUESTED TO ALLOW SUFFICIENT TIME TO USE THE ALTERNATIVE PARKING FACILITIES AT THE SQUASH COURTS (6 MINUTES WALK TO THE CENTRE) AND ENGINEERING (6 MINUTES WALK TO THE CENTRE).

WALKING: 12 MINUTES SHOULD BE ALLOWED TO WALK TO THE CENTRE FROM THE UNION/LIBRARY AREA.

STUDENTS TRAVELLING TO THE UNIVERSITY ON THE ROUTE 100 BUS CAN WALK TO THE CENTRE THROUGH THE NEWCASTLE COLLEGE OF ADVANCED EDUCATION GROUNDS IN APPROXIMATELY 12 TO 15 MINUTES IF THEY LEAVE THE BUS AT THE N.C.A.E. BUS STOP.

TEAS ARRANGEMENTS FOR 1978

The Commonwealth Department of Education has advised the University of the following arrangements for applications for TEAS benefits in 1978.

Re-Enrolling Students

Students who are now receiving TEAS benefits will be sent application forms and information booklets in December. Forms will be posted to students at the addresses to which their allowance cheques are normally sent. It will not be possible to send forms to students' vacation addresses. Students presently receiving TEAS benefits should make their own arrangements for the forwarding of their mail.

Applications from students entering second or later years in 1978 should be made as soon as examination results are known and the subjects for the following year determined. Students will be required to show their results on the application form before an assessment can be made. This information will later be verified by the TEAS Office.

New Students

Students who sat for the Higher School Certificate in 1977 will be sent application forms and information booklets at their home addresses in January, 1978. Supplies of forms and booklets will also be distributed to institutions at that time. Applications from students entering the first year of their course should be submitted immediately after enrolment has been finalized.

As in previous years, some students will have to pay compulsory charges before receiving their first allowance cheque.

Date for Lodging Application

There has been a change in the requirements for lodging applications. In 1978, applications should be lodged by April 1. An application will be accepted after this date but the student will be ineligible for assistance for any part of the period from January 1 to the date on which the application was received in the TEAS Office. Applications received on or before April 1 can be assessed for eligibility for the whole of the calendar year.
A short Residential Summer School for Country Women will be conducted between January 31 and February 3, 1978 at the College. Courses will include: Business Planning and Management, Animal Husbandry, Practical Horsemanship, Spinning and Weaving, History in the Lower Hunter Valley and Today's Moral Problems.

Mr. Ulric Burstein will present a light classical concert, a film of major artistic importance will be screened and discussed and a dramatised reading will be presented by members of the University Drama Department.

This has been arranged by the Department of Community Programmes in association with C.B. Alexander Agricultural College.

DIARY OF EVENTS

FRIDAY, OCTOBER 21
8 pm Harold Pinter's OLD TIMES performed by Macquarie University Students Drama Society in The Green Room (Music Room) of the Great Hall. Admission: $1.50 (includes drinks and party after).

SUNDAY, OCTOBER 23
7.30 pm OCTOBER OPERA - "EUGENE ONEGIN" (in Russian, 35mm., colour) - the passions and tragedy of Tchaikovsky's presentation. (A Red Cross Programmes presentation).

THURSDAY, OCTOBER 27
10 am - TEAS ENQUIRIES - Room T29.
4 pm
1.05 pm SEMINAR, Department of Physics-Seminar Room, Ground Floor, Physics Building.
Part 1, Speaker: Mr. D. Hunter. Topic: Virtual Bound States in Dilute Noble Metal-Noble Metal Alloys.
Part 2, Speaker: Mr. L. Rogers. Topic: Phasor Plotter. All interested persons are welcome.

SUNDAY, OCTOBER 30
7.30 pm OCTOBER OPERA - "THE MAGIC FLUTE" (in Swedish, 16mm., colour) - Mozart's ever popular opera translated into film by Ingmar Bergman, one of the world's most brilliant directors. (A Community Programmes presentation).

ADVERTISEMENTS

WANTED
Boy's bicycle in good condition. 18" frame or Chopper. Please phone 593833.
Manual typewriter in good condition. Phone 333291 or Ext. 391.
Second-hand tennis racket. Phone 375.
Reasonably priced furnished accommodation, suitable for couple, required by Canadian Professor on sabbatical leave at Newcastle CAF. Reply: Dr. F. J. Dockrill, Faculty of Education, St. Mary's University, Halifax, N.S., Canada, B3H 3C3, or contact: Dr. E. Richardson, Principal, Newcastle College of Advanced Education, P.O. Box 84, Maratah 2298.

FOR RENT
Volvo Sedan, 264, fully automatic, luxuriously comfortable. $40 per week for approx. 4 months from Dec./Jan. This rate is far superior to any hire car firm after. Ph. 21665.
Modern 4 B./R. split-level home - Redhead Bluff - quiet private position with extensive ocean views, modern conveniences incl. automatic washer & dryer & dishwasher. Avail. 26 Nov. through the end of next August. $65 per week. Ph. 685752 or 496541.
Spacious house in quiet street in bushland setting at New Lambton. Fully carpeted, 3 b/rooms, 4 if required, large lounge-dining room, sep. TV room, walk-in pantry. Access by spiral staircase to large entertainment area with built-in bar, craft area, sep. study, laundry & garage. Avail. 1/2/78 to 31/12/78. Details ph. 685747 or 685517 and after hours 753696.
Avail for lease from 7th Nov. 3-4 yr old brick veneer unfurnished house in Jesmond, 10 mins walk to Uni and to Big W shopping centre, 3 b/r air-conditioned living, dinner, shops, garage. Avail. $1225.

FISH TANKS
2' tank with stand and light - $20.
3' tank with stand and light - $30.
We'd probably sell our Rover 3-litre Coupe automatic if offered $3,000 or more. All systems scrupulously maintained (one still uses the tachometer, not sounds, to tell what the engine's doing). New tyres were installed last month, both brakes re-lined this month. Probably another 100,000 miles left in it. De-coke. Registered to August 1978. Years of safe smooth comfortable motoring available.
Contact W. Bristley (Maths Dept.) ext. 453.
Attractive Split Level Home - Only 3 years old. Magnificent Lake Views at Buttaba - Double Garage under, Room for 3 cars. Large block with established garden - Cannot be built out. $45,000. Contact Ros Medaris, after hours on 751627.
JVC Portable TV/Radio set. TV is 3-inch black and white with all controls. Radio includes AM, SW and FM. Internal and extension aerials. Travel case with shoulder strap. Fitted with battery pack. AC/DC transformer, 2-pin plug for household use. Speaker is 5-inch with separate back and treble tone controls. This unit is only 4 months old. $250. Sell nearly $100 on new price. Phone ext. 709 or 52-5977.
GE Portable automatic washing machine. As new, $220. Ring 593069.
Skate Sailing Dinghy - "Split Level". Only sailed 3 months. new condition, fibreglass hull, alloy spars. $825. Phone 40-7194 (or Dianne, ext. 591).
COOKS HILL - Terrace - Partly renovated. Separate dining, sep. lounge room, both with polished floors. Dining and Main Bedroom have exposed sand-stone bricks. "Modern" bathroom. Inside toilet. Quarry tiled kitchen and bathroom. Recent rewiring and new plumbing. Apply 132 Railway Street, Cooks Hill.

FOR SALE
Advertisements