The Foundation Vice-Chancellor of the University of Newcastle, New South Wales, Professor J.J. Auchmuty, C.B.E., will be retiring from office at the latest on 31st December, 1974 and the Council of the University is now seeking a successor.

Any interested persons of distinguished academic standing with proved administrative capacity who wish to be considered for the post are invited to communicate with:-

The Chancellor of the University,
The Hon. Sir Alister McMullin,
K.C.M.G., D.Litt.,
The University of Newcastle. NSW 2308

ENGINEERING COURSE CHANGES

The University will phase out courses leading to the degree of Bachelor of Science (Engineering) in Civil, Electrical, Mechanical and Industrial Engineering and Naval Architecture. However, this degree will still be offered for the discipline of Chemical Engineering.

This phasing out will be achieved by a discontinuation of Stage 1 of the course in 1974, Stage 2 in 1975, Stage 3 in 1976, and so on.

Students presently enrolled in engineering courses in the Departments of Civil, Electrical, Mechanical and Industrial Engineering and Naval Architecture, which lead to the award of the B.Sc. (Eng.) degree, will be permitted either to:-

(a) Continue in the courses for as long as they have passed sufficient subjects to enable them to complete all requirements for admission to the degree before the end of 1979, or

(b) Transfer to courses leading to the Bachelor of Engineering degree (B.E.) which will be offered on a full-time basis, a part-time basis or some combination of these.

This action was initiated by a decision of the Institution of Engineers, Australia, the engineering accreditation body, to revise the basic requirements for a professional engineering course. This decision was that as from 1980 only those graduates who have undertaken full-time courses of at least four years duration and part-time courses of sufficient duration to attain a standard equivalent to full-time courses will be acceptable for admission as corporate members of the Institution.

Basically the Institution's views are that developments in science and technology are such that in order to provide adequate time for approved study, individual effort and meaningful vacation experience, a four year full-time course will be the minimum essential for the education and training of a professional engineer. However, the Institution further states that provided part-time students are engaged in appropriate employment and are undertaking a part-time course offered by an approved educational institution, and provided that they receive day release of not less than one day per week, it may be that a part-time course of six years duration would be satisfactory. In this case, however, the amount of work undertaken in each of the six years would need to be greater than is the case in our B.Sc.(Eng.) courses at the present time.
The Dean of the Faculty of Engineering, Professor Alan Carmichael, said that the Institution's decision meant that this University's present B.Sc.(Eng.) courses would be unacceptable after 1980 as approved courses leading to corporate membership of the Institution. In order to become satisfactory, the B.Sc.(Eng.) degree courses in Civil, Electrical, Mechanical and Industrial Engineering and Naval Architecture would need to be upgraded by the addition of the equivalent to one part-time stage. If this were done, the end result would be so close to the requirements for the award of a B.E. degree that it would become undesirable to offer both the B.E. and the B.Sc. (Eng.) degrees in the disciplines mentioned.

Professor Carmichael added that there were several advantages in this new decision in that the confusion which arises from the award of two degrees would be eliminated, and proliferation of degrees was overcome by offering only one degree, in this case the B.E. degree. Another advantage was that students who undertake the B.E. degree on an essentially part-time basis would now have the option of undertaking elective subject units which directly relate to industrial experience rather than subject units which provide additional academic material. Consequently the B.E. course, when undertaken on a part-time basis, will better suit the needs of the students concerned in that the course they undertake will be more industry-oriented in order to take advantage of their concurrent industrial experience. On the other hand, full-time students will still be able to take advantage of the considerable flexibility in the later years of these courses.

Students or other people who have queries relevant to the aforementioned change in course offerings should in the first instance contact Professor Carmichael by letter or by telephone (68 5528).

The Minister for Science, Mr. Morrison, has approved a number of grants to be made available to members of the academic staff of the University for special research purposes. The grants have been recommended to the Government by the Australian Research Grants Committee.

The new grants totalled $21,373, whilst grants to support continuing projects totalled $82,298.

Dr. R.C. Jones and Dr. R.N. Murdoch, of the Department of Biological Sciences, have been granted $7,416 in connection with a project called "Studies of Boar Spermatozoa: Significance of Acrosomal Vesiculation".

Professor J.A. Keats and his wife, Dr. D.M. Keats, of the Department of Psychology, have received a grant of $5,000 for a project entitled "Personal Value Systems in Australia and Malaysia".

Dr. A.J. Gottmann, of the Department of Mathematics, is working on a project, "The Interpretation and Analysis of Theoretical and Experimental Data", and has received a grant of $9,800.

Dr. J.W. Patrick, of the Department of Biological Sciences, has been granted $2,270 in connection with a project entitled "Auxin-Promoted Transport of Nutrients in Stems".

Dr. N. Rutherford, of the Department of History, has received a grant of $795 for a new project named "Friendly Island - A History of Tonga".

Professor A.M. Gibbs, of the Department of English, has received a grant of $500 in connection with research he is carrying out on George Bernard Shaw.

Dr. R. Offler, of the Department of Geology, has received a grant of $92 towards the project entitled "Studies of Low Grade Metamorphic Minerals in Devonian and Carboniferous Rocks, North of Newcastle".

The Following continuing projects have received additional financial support:

Professor J.B. Moore, Professor B.D.O. Anderson and Dr. A. Cantoni, of the Department of Electrical Engineering, have been granted $30,000 for their work on "Optimal Control Processes and Communication Systems".

Professor I.McC. Stewart, of the Department of Chemical Engineering, received $10,500 towards his work on "Furnace Temperature Measurement by Spectroscopic Methods".

Dr. R.P. Cooney and Associate Professor G. Curthoys, of the Department of Chemistry, will receive $10,320 for the continuation of their work on "Laser Raman Spectroscopy Applied to Heterogeneous and Homogeneous Catalysis".

Professor M.G. King, of the Department of Psychology, and Associate Professor K.D. Cairncross have been granted $8,886 for a project entitled "Simple Approach-Avoidance Conflict: Physiological and Behavioural Correlates".

Research Grants Approved
Dr. B.J. Fraser, of the Department of Physics, has been awarded $8,398 for his "Propagation Studies of Hydromagnetic Waves Between Spaced Stations". Professor B. Boettcher, of the Department of Biological Sciences, has been given a grant of $7,193 in connection with his study of "Genetic Markers in Australian Aborigines and Investigation of Tribal Structure".

Miss M.E. Guilford, Assistant University Librarian, is working on the indexing of the "Mercury", a Maitland newspaper which is one of Australia's oldest. She has received a grant of $5,500 for "Indexing of Maitland Mercury Newspaper, 1843-1900".

Dr. P.J. Moylan, of the Department of Electrical Engineering, has received a grant of $501 in connection with his "Investigation of Feasibility of Simple Feedback controllers for Synchronous Generators".

Dr. D.W. Dockrill, of the Department of Philosophy, has been granted $500 for his work on "Methodological and Epistemological Problems involved in Seventeenth Century Theology".

Dr. D.J.H. Moore and Dr. P.J. Moylan, of the Department of Electrical Engineering, received $500 towards their joint work on "Application of a Feature Extraction Theory to the Automatic Recognition of Hand Printed Characters".

**URBAN WATER ECONOMICS SYMPOSIUM**

Arrangements have been finalised for the publication by The University of Newcastle Research Associates Limited of the proceedings of the symposium which was held on Saturday, 28th April, 1973, at the University under the sponsorship of the School of Natural Resources, University of New England, and the Department of Economics, University of Newcastle.

The cost of the proceedings will be $6 post paid but orders received before 21st December, 1973, will benefit from a pre-publication price of $5 post paid. Orders should be placed with The Accountant, University of Newcastle, N.S.W. 2308. (Cheques should also be made out to The Accountant, University of Newcastle).

The proceedings will be reproduced from type-script by an offset printing method, a process used successfully by the printer, Newey and Beath, in the production of the Proceedings of the First Australian Conference on Combinatorial Mathematics, 1972.

The date of publication is expected to be no later than mid-December.

**ENGLISH SOCIETY DINNER**

Date: 27th November
Place: Union
Time: 7.30 p.m.
Price: $4.50 (tickets available from English Department Office)

Guest Speaker: Mr. Tom Roberts, or the A.B.C.

The Annual Norman Talbot Prize will be awarded to the best Clerihew read at the Dinner. Students who read their Clerihews are eligible for a 50% refund on the cost of the evening.

The invention of Edmund Clerihew Bentley, a clerihew contains two couplets which humorously characterize a person whose name is one of the rhymes. One of the Bentley's first clerihews, inspired by a chemistry lecture went as follows:

Sir Humphry Davy
Abominated gravy.
He lived in the odium
Of having discovered sodium.

**WOMEN GRADUATES' EXECUTIVE**

At the annual general meeting of the Hunter Valley Branch of the N.S.W. Association of University Women Graduates on 24th October, the following members were elected to the committee:

President, Mrs. Gwen Hamilton;
Vice Presidents, Mrs. Margaret Auchmuty, Mrs. Elaine Sheehan;
Secretary, Miss Katalin Heiner;
Treasurer, Miss Norah Doyle;
Assistant Secretary, Mrs. Wendy Pullin;
Further information about the Association's activities may be obtained by telephoning Mrs. Gwen Hamilton 57 3335.

ASSOCIATED MINERALS CONSOLIDATED LIMITED SCHOLARSHIP

Applications are invited for the Associated Minerals Consolidated Limited Scholarship.

The Scholarship shall be awarded to the applicant, if of sufficient merit, with the best performance in completing the first year of full-time study or the first two stages of part-time study in a degree course in Engineering, Applied Science, Science (Geology major), Mathematics (Geology major) or Arts (Geology major) in the University of Newcastle.

The Scholarship shall be tenable for full-time undergraduate study for a period not exceeding three years, subject to the holder maintaining satisfactory progress.

A holder of this Scholarship shall not be under a bond requiring him to serve a period of employment with any organisation upon completion of his studies. He may not hold concurrently any other scholarship which provides a living allowance.

At the present time the holder of this Scholarship is paid a living allowance of $1,000 per annum.

Further information may be obtained from The Secretary, with whom applications close on 30th November, 1973.

AUSTRALIA CHINA EXCHANGE SCHEME SCHOLARSHIPS FOR STUDY IN CHINA

Scholarships are being offered by the Australian Government to enable Australian students who have already achieved a reasonably high level of proficiency in the Chinese language to undertake courses of study at the Peking Foreign Language Institute from January, 1974.

Application forms may be obtained from the Department of Education, (Scholarships for Study in China), Canberra, with whom applications close on 30th November, 1973.

"NOSTALGIA NITE"

This year, the normal end-of-year student function will take the form of a "Nostalgia Nite" and will be held on Saturday, 24th November, in the Union beginning at 8 o'clock. The cost will be $6 per double and $3 per single. B.Y.O.G.

Tickets are available from the Union Office and the Union Shop. The dress will be party gear of the 1950's and 60's (white suits, pendants). Music will be provided by Delta.

1971 CENSUS DATA AVAILABLE

The Hunter Valley Research Foundation recently obtained 1971 Census Data for Australia on magnetic tapes from the Bureau of Census and Statistics.

Working in conjunction with the Department of Geography, the Foundation has developed a series of computer programs which obtain data from the tapes and present it in an easy-to-read form. More than 1,000 items of data on population and housing are on the tapes for every Census District (C.D) and Local Government Area (L.G.A.) in Australia.

To date six pages of information can be produced for any area, which can be expressed as a combination of L.G.A.'s and C.D.'s. This information is freely available to members of the University's staff and students who require data of this nature for research purposes.

For further information on the system contact Mrs. Wendy Jarvie at the H.V.R.F. ('phone 61 4821)

ECONOMIST AS SPEAKER

The final meeting of Newcastle Committee of The Economic Society of Australia and New Zealand will be held on Tuesday, 4th December, at Newcastle Rugby Club Limited, 45 Newcomen Street, Newcastle.
As usual the December meeting will be preceded by a buffet dinner, with pre­
dinner drinks being served from 6.30 p.m. The guest speaker will be the
distinguished Australian economist, Professor R.C. Gates of the University of
Queensland. His proposed address is entitled "New Directions for Economic
Growth!"

Professor Gates is a past president of the Economic Society of Australia and
New Zealand and is at present heavily involved in the work of the Poverty
Inquiry. His most recent completed work was carried out as a member of the
task-force established by the Australian Institute of Urban Studies to
investigate the management of Australian cities. The address he is to deliver
to the December meeting arises out of his role as chairman of a symposium held
at the 1973 ANZAS Congress, entitled, "Economic Growth: Magnificent
Obsession?"

P O S T D O C T O R A T E F E L L O W S H I P S

The National Research Council of Canada offers Fellowships for 1974-75,
tenable in its laboratories, and administers additional Fellowships on behalf
of the following Canadian Government Departments and Agencies: Agriculture
Canada; Department of Communications - Communications Research Centre;
Department of Energy, Mines and Resources; Department of the Environment -
Atmospheric Environment Service, Environmental Management Service, Fisheries
and Marine Service; Health and Welfare Canada; National Museums of Canada -
Museum of Natural Sciences; Atomic Energy of Canada Limited.

An applicant should possess a Ph.D. degree from a recognised university,
or expect to obtain such a degree before taking up an award. Candidates
having equivalent research experience may be considered. Fellowships have an
annual value of $9,000 and are subject to Canadian income tax.

Applications and supporting documents should be received in Ottawa not later
than 15th January, 1974. Mr. J.D. Todd, Student Administration, has further
details of the fellowships.

S O C I A L C L U B ' S C A B A R E T

The University's Staff Social Club will hold its annual Christmas Cabaret at
Edwards Hall on Friday, 7th December, from 8 p.m. to 1 a.m.

Music will be supplied by The Harbourside Six.

Tickets: costing members $3 (double) and non-members $12 (double) are
available from Mrs. Julie Dixon, Room T5(Temporary Buildings) Ext. 443.

S U M M E R S C H O O L I N C H E M I S T R Y

The Department of Chemistry and Newcastle and District Association of Science
Teachers are arranging a Summer School in Chemistry to be held at the
University on 24th and 25th January, 1974.

The Summer School will be restricted to High School Students about to start
Sixth Form who are doing Science at 2F or 1st level (or an equivalent course).
The Department of Chemistry is inviting the 30 to 40 high schools in the
Newcastle area to send about three to five participants each.

The provisional timetable includes a welcome by Professor W.F. Pickering and
lectures by Dr. E.A. Magnusson, Professor G.C. Curthoys, Prof. W.R. Walker and
Dr. K.H. Bell.

F A M I L Y P L A N N I N G , P O P U L A T I O N E D U C A T I O N

Macquarie University and The Family Association of Australia will jointly
sponsor a summer school on Family Planning and Population Education Issues at
Macquarie University from 13th to 19th January, 1974. Mr. R.H. Cochrane,
Senior Lecturer in Education, Macquarie University, is the Organising Secretary.
Full board will be available at Dunmore Lang College for $10.50 a day.

F U R T H E R " P R O M " C O N C E R T S

The A.B.C. Youth Orchestra will visit the University again on Saturday, 24th
November, to present "prom" concerts in the Great Hall.

The Department of Community Programmes is organising the concerts with the
A.B.C. There will be no reserved seats. The main floor of the Great Hall
will be cleared of seats and people will sit on blankets or cushions on the
floor. Admission to each concert will be by programme costing 50 cents.
The concerts will be given by the orchestra at 2 p.m. and 7 p.m. The concert at 2 p.m. will include works by Rossini, Mozart, Copland, Schubert, Ibert, Grainger and Rimsky-Korsakov. At 7 p.m. the orchestra will present a programme of works by Borodin, Bach, Mozart, Elgar, Copland and Schoenherr. The Conductor will be the Director of the Orchestra (Mr. Robert Miller).

Programmes can be purchased at The Cashier's Office or the A.B.C. Studios, Newcastle.

HISTORICAL BUILDINGS OF TASMANIA

The first residential school held at "The Grange" Residential College, Campbell Town, Tasmania, was held in 1963, soon after the Adult Education Board of Tasmania had leased the building from the National Trust. Lectures and films were planned; permission was sought to visit some of the most notable colonial homes; and enrolments poured in from several States.

The overwhelming response to the first "Grange Summer School" encouraged the Adult Education Board to organise another, using the same theme, the following year ... and then another ...

The next Historical Buildings Summer School will be held at "The Grange" Residential College from 5th to 12th January, 1974. The fee of $90 covers full accommodation, bus hire and lectures. Further information and application forms are available from Mr. J.W. Armstrong, Secretary's Division.

ACADEMIC APPOINTMENT

Dr. P.Y. White has taken up duties as a Post-Doctoral Fellow in Chemistry. Dr. White holds a degree of Bachelor of Science with Honours and a Ph.D. degree in the University of Adelaide.

THREE NEW DIRECTORS ELECTED

The second annual general meeting of the University's Staff Credit Union elected Mrs. J.P. Odgers, Mrs. M. Davie, Mr. D. Robertson, Mr. J. Lambert and Mr. N. Keats as Directors.

Mrs. E.M. Burns, Dr. M. Blackmore and Mr. J.W. Armstrong retired as Directors and declined re-election.

Certain members who were nominated for election as members of the Supervisory Committee refused to stand and two members of the Credit Union were authorised to seek nominees for the vacant positions.

Due to the pressure being exerted by members who require loans, it was decided to endeavour to reduce the number of applications for loans by making members ineligible for loans unless they have belonged to the Credit Union and have been saving members for three months.

It was agreed that a member who utilized the Budget Savings Scheme would be recognised as a savings member. In the event of members being desperate for loans before they become eligible there is provision for the Board of Directors to help.

The Credit Union's Executive: Mr. M.E. Edmonds (Chairman), Mrs. Davie, Mrs. Odgers, Messrs. Robertson, Keats, Lambert, T.H. Fryer, B. Twohill and D. Doherty. Mr. R. Weir is Secretary and Mr. G. Searles Treasurer.

ADVERTISEMENTS

HOUSE FOR SALE: Modern, architect designed, brick and timber home, 3 bedrooms (two double, en suite and dressing room with the other), large living area including family room, ultra-modern kitchen, double garage, telephone, bushland setting overlooking Blackbutt Reserve, $38,000, inspection by appointment only, ring 52 1838 (evenings).

AVAILABLE AT THE UNION SHOP: University souvenirs - ½ pt. tankard with crest, $5; car badge with crest, $3.50; bottle opener with crest, $1.50; key ring with crest, $1.50; cuff links with crest, $4 and $5; university ties, $1.95; university pennant, $1.25; wallets with crest, $5.50 to $14; transfers, 20¢; tie clip, 55¢; lapel pin, 30¢; clipboard, $1.35; two-ring folders, $1.10.

WANTED: Two second-hand bicycles, dragsters or 26-inch, 'phone 237 or 235.

WANTED TO HIRE: Small fishing boat with outboard, on car trailer, for two weeks beginning 29th December, 'phone 341.

WANTED TO BUY: Squash racquet for around $5, 'phone 303.
ACCOMMODATION: One vacant room available, share flat, $6 per week, 41 Dumaresq Street, Hamilton South, (few minutes' walk from Waltons or The Store), contact Mr. H.C. Ling, or Ranjit Singh.

FOR SALE: Hecla electric heater, double bed, wooden serving tray, Singer sewing machine, Terry Cheatle watercolour, glass cannisters with cork tops, etc., 'phone 57 4141 or Ext. 502.

FOR SALE: 1961 Morris Major, registered until March, 1974, $100, o.n.o., 'phone 43 1459.

TYING DONE: Mrs. P. Corke, of 71 E.K. Avenue, Charlestown ('phone 43 5121) is looking for casual typing to be done at home.

HOUSE FOR SALE: Our house in Wahroonga is for sale and may interest staff members transferring to Macquarie University. A 3-bedroom, double brick and tile home, on a corner block in a quiet area backing onto a reserve, reasonable (Sydney standards) access to City, 15 minutes by car to Macquarie University. For details contact G. Hanson, Ext. 739.


TO LET: Brick house, 1/4 miles from University, suiting family of four, for one year from 3rd December. Rental $32 per week. 'phone 68 1916.

POSITIONS AVAILABLE

STENOGRAPHER - DEPARTMENT OF PSYCHOLOGY (Position No: N119/73)

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 $7.48 per week can be gained by passing speed tests at examinations.

OFFICE ASSISTANT/Typist - ACCOUNTANT'S SECTION (Position No: N118/73)

This position would suit a female up to 25 years of age but older applicants will be considered. Shorthand is not required but it is expected that applicants will be competent typists who have attained typing speeds of not less than 50 w.p.m. In addition to typing, the duties of the successful applicant will include dealing with the public at an enquiry counter and processing some sub-clerical work. Commencing salary will be up to $72.82 per week, depending upon age, qualifications and experience. Efficiency allowances up to $2.49 per week can be gained by passing typing speed tests at examinations conducted by the University.

PART-TIME ASSISTANT Position No: N120/73

A mature lady is required for a period of approximately four weeks to assist part-time with the inspection of accommodation in private homes for students and to carry out associated duties. The hours are flexible but probably will be between fourteen and twenty-one hours per week.

It is desirable that applicants have the use of a reliable motor vehicle for which a mileage allowance will be paid. The ability to type, even in a limited way, would be an advantage. Further information may be obtained by contacting the Amenities Office Ext. 344.

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

Applications for the three positions close 19th November, 1973.
Inter-Faculty Cricket

This year's Inter-Faculty cricket competition started with Economics/Commerce having a first innings win against Science on 6th November.


Arts (218 runs) was victorious against Engineering (159) on 8th November.

A. Williams (55 not out), A. Everett (53), C. Whitehead (48) and D. Dockrill (2-31) were Arts' best performers. For Engineering, G. Preston scored 37 runs, G. Butler 21 and R. Hanson 20 and B. Heaton took three wickets.

Inter-Varsity Competitions

University Sailing Club will compete in the inter-varsity yachting competition on Lake Macquarie, hosted by the University of Sydney, from 20th to 25th January.

Since the Sports Union does not own Sharpie-class boats, two will be borrowed from the Universities of N.S.W. and Sydney for use by a Newcastle men's and women's teams.

The inter-varsity underwater competition will be conducted by the University of Melbourne at Phillip Island from 15th to 19th February. The N.U.D.E.S. will send a team.

Golf

The return golf contest between the staffs of Newcastle and New England Universities will be held at Armidale on 1st and 2nd December.

Field House

Tenders for the construction of the Auchmuty Sports Centre - the Field House to be constructed close to No. 2 Oval - are to be called on 15th November and will close on 7th December.

No. 2 Oval

The University's new No. 2 Oval is expected to be used for the first time on 24th November for a fourth grade match between University II and Charlestown I.