SECOND EMERITUS PROFESSOR

In recognition of Dr. J.A. Allen's major contribution to teaching and organization at the university since 1959, the Council conferred the title of Emeritus Professor on him. Dr. Allen was Professor in Chemistry from 1961 and a Deputy Vice-Chancellor from 1969. He resigned last May to begin the C.S.I.R.O. in Canberra as Executive Officer.

The university has conferred the title of Emeritus Professor on only one other member of the academic staff. Dr. K.H. Hartley, a former Head of the Department of French, was a recipient in 1969 when he retired.

NEW DEPUTY VICE-CHANCELLOR

Professor E.O. Hall, Dean of the Faculty of Applied Science and Head of the Department of Metallurgy, was appointed by the Council to succeed Professor Allen as one of the university's two Deputy Vice-Chancellors. The other is the Vice-Principal, Professor B. Newton-John.

Professor Hall joined the former Newcastle University College in 1959 as Associate Professor of Metallurgy and Head of the Division of Applied Science. The University of New South Wales appointed him to the foundation Chair in Metallurgy in 1963. He was a member of the University's Interim Council (1964 and 1965), the first Dean of the Faculty of Applied Science, and Deputy Chairman of Senate (1969 and 1970).

As a Deputy Vice-Chancellor Professor Hall will have responsibility for many of the tasks necessary for the preparation of submissions to the A.U.C. Other duties include the Chairmanship of both the Research Committee of TUNRA and the Computer Users' Advisory Committee.

MUTILATION OF BOOKS AND SERIALS IN THE UNIVERSITY LIBRARY

The Librarian received from the Assistant University Librarian (Reader Services) this report on mutilation of books and serials in the Library.

"Books: During the past three terms 12 books have been written off because of mutilation. Of these, eight were literary criticisms and the remainder were from legal studies, education and human genetics. Four of the literary criticisms were reported in first term, 1971.

Serials: It is estimated that journals are being mutilated at the rate of one a week. Economics journals have suffered most, with English, Psychology and History about equal in second place. The Psychology section appears to be less troubled by mutilation this year than previously, but the History section is suffering heavily for the first time and apparently at the level of History III."
There is still considerable random mutilation such as that found in Yale French Studies when the centre pages of each gathering were removed throughout all of the issues of the journal. Similarly, pictures have been torn from drama reviews and one of the Photographic journals has been placed permanently in reserve to prevent the pictures being taken.

Library staff are constantly on the alert to detect this behaviour, but no person has ever been discovered damaging library property. Mutilated volumes have been found in the typing room, however, and it is probable that areas such as this are used for this purpose.

It should be pointed out that these figures indicate only the known instances of mutilation, that certainly there are others not yet discovered by library staff or drawn to our attention by readers.

The form of mutilation is constant: single chapters from books and single articles from periodicals. There is no copyright bar to the copying of these, and adequate copying facilities, at 5p a sheet, usually two pages of text, exist within the library.

There is likely to be an increase in this form of theft as student numbers grow and as surveillance at exit points is strengthened. In spite of this, any departure from the existing open access pattern is neither financially possible nor academically desirable. A more open seating plan, though undesirable on other counts, would make mutilation more difficult. However, while there are such private places as toilets, more open floor plans and great increases in surveillance staff will achieve nothing.

The only hope lies in an improvement in the hearts and minds of the students concerned. With limited staff resources we attempt to reach the students, to instruct them in library use and convince them of the library's central service role in a community of scholars. In this considerable success has been achieved. Most students become great library users, and, considerate of their fellow students, do not and would not either steal books from the library or mutilate them within it.

Unfortunately, a handful of students continue to do both. The Library staff will continue its attempts to apprehend these people. The Librarian would very much appreciate the cooperation of the honest students in this.

The University Council expressed its grave concern that such mutilations were occurring and decided to support strongly action taken by the Vice-Chancellor or the Librarian against any person found guilty of the offence.

UNION COMMITTEES ELECTED

Annual elections for Committees of Newcastle University Union resulted:

Finance, Messrs. G.S. Martin (President of the Union), J.M. Bennetts (Treasurer), K.J. Moss, T.J. Ryan, D. McKie, W.V. Bridgewater.

House, Messrs. McKie, G.M. Brown, S.H. Noon, A.A. Pitt, Bridgewater, Misses R. Floyd, V. Knight, Co-opted members, Messrs. P. Herkenof, C. Gordon, C. Dodds, E. Lewis.


Planning, Messrs. O'Sullivan, Noon, Bridgewater, Bennetts, Ryan, R. Farrell, Misses Knight, A. Pears.
Mr. E.J. Braggett, Lecturer in Education, was appointed by Council to fill the vacancy on the Students' Representative Council caused by the resignation of Dr. N. Rutherford, Senior Lecturer in History, who was formerly the Council's representative.

PSYCHOLOGY NOW PART OF SCIENCE FACULTY

Following a decision of the University Council, the Department of Psychology has been transferred from the Faculty of Arts to the Faculty of Science.

Professor R.G. Keats, Head of the Department of Psychology, requested that the administration of his department be handled through the Faculty of Science. His reasons included:

Recent developments in Psychology have emphasized the laboratory aspects of the subject, particularly those related to comparative and physiological psychology. These developments result in needs more closely allied to those of Science rather than Arts Departments, for example, the employment of technicians, the use of workshops and specially constructed laboratories.

With the introduction of Biological Sciences in the Faculty of Science the point made above becomes even stronger. Possibilities for co-operation will be facilitated by operating through a common faculty.

The number of departments administered through the Faculty of Arts is already large and likely to grow. The proposed change would bring some relief to the Dean of Arts and generally assist in the more efficient administration of these Departments.

When psychology departments were first established at Australian Universities the content of the subject was less empirical than it is now. Of the recently established Universities, the University of Newcastle is the only one in which the Department of Psychology is administered through the Faculty of Arts. At Monash University and the Australian National University, as well as at the University of New South Wales, Psychology is administered through a Science Faculty.

Senate sought the views of the Faculty Boards of the Faculties of Arts and Science: neither Board had any objection to the transfer.

Senate had no objection and decided that the Department's academic relationship with the Faculty of Arts would be maintained if the academic staff of the Department remained members of the Faculty Board, Faculty of Arts. (Under the By-Laws such membership is a matter for determination by Senate). It recommended to the University Council that the transfer of Psychology to the Faculty of Science be approved.

The Council issued the following consolidated list of Faculties:

- Faculty of Applied Science, Department of Metallurgy
- Faculty of Architecture
- Faculty of Arts, Department of Classics
- Education, English, French, Geography, German, History, Philosophy
- Faculty of Economics and Commerce, Departments of Commerce and Economics
- Faculty of Engineering, Departments of Chemical Engineering, Civil Engineering, Electrical Engineering
- Mechanical Engineering
- Faculty of Mathematics, Department of Mathematics
- Faculty of Science, Departments of Biological Sciences, Chemistry, Geology, Physics and Psychology.
BUSINESS STUDIES REQUIREMENTS

Council has decided that Graduates accepted for enrolment in the Diploma of Business Studies Course who previously did not pass any accounting examinations at tertiary level will be required by the University to take Accounting and Financial Studies in Stage I this year and next year.

The Faculty Board, Economics and Commerce, reported that the Diploma in Business Studies had attracted the attention of graduates of Faculties other than Economics and Commerce, as well as graduates of that Faculty. The Faculty Board wished to accept these graduates into the course but believed it desirable that they should take a subject which would allow them to make up the deficiency caused by the lack of background studies in Accounting. "Accounting and Financial Studies" is currently offered in the Diploma in Industrial Engineering course.

INTERNATIONAL COMPUTERS LTD. PRIZES

Council was informed that International Computers Ltd. had offered to support two annual prizes, each valued at $50. One prize will be offered in the Numerical Mathematics topic of Mathematics I and the other in the subject Accounting Systems and Computer Applications.

HIGHER DEGREES APPROVED

Following a recommendation from Senate, the Council approved the admission of the following candidates to the degrees specified:

Doctor of Philosophy: Keith Lyne Smith, Department of Chemical Engineering, Thesis Title: "Mass Transfer with Chemical Reaction in Agitated Vessels".


Master of Science: Roland Lubin Paine, Department of Physics, "Aspects of the VLF Emissions The Quasi-Periodic VLF Emissions".

CREDIT UNION MEETING, 22ND JUNE

Members of staff have been invited to a meeting in the Science Lecture Theatre on Tuesday, 22nd June, to discuss the establishment of a Credit Union Co-operative Ltd. The objects are to provide a safe and convenient method of saving and to lend money at the lowest possible interest rates. A Credit Union would return to members all monies remaining after operating expenses were paid.

The band of enthusiasts recommending that a University Credit Union be formed has been advised by the N.S.W. Credit Union League, which will be represented at the meeting, that a Credit Union must be registered with the State instrumentality that controls co-operative societies. Consequently, all accounts are audited by an independent auditor and the directors are bonded. Loans are also insured against death, eliminating the need to collect from the estates.

The day-to-day activities of the Credit Union would be supervised by accountants, who would be elected annually by the members, and all accounts would be strictly confidential.
The Credit Union movement is said to be the fastest growing non-profit making organization in the world. There are currently 350,000 members of Credit Unions in Australia, with savings totalling $60-million. It is claimed that a primary advantage of Credit Unions is the favourable rate of interest on loans. This gives members a cheap alternative to "loan sharks".

At the meeting on 22nd June, Mr. J. Porter, of the N.S.W. Credit Union League, and Mr. F. Jarvis, of the Water Board Credit Union, will explain the procedure for the formation of a University of Newcastle Credit Union and answer questions. The objective is a membership of 100, the figure regarded as sufficient for satisfactory operation of an employees' Credit Union.

MOSCOW VISIT FOR PROFESSOR RITCHIE

Associate Professor A.S. Ritchie, of the Department of Geology, will go to Moscow, U.S.S.R., in July to personally present a paper at the first International Geochemical Congress.

Professor Ritchie was invited by the U.S.S.R. Academy of Sciences, which will stage the congress in conjunction with UNESCO and the International Association of Geochemistry and Cosmochemistry.

The congress will be held in the M.V. Lomonosov State University, Lenin Hills, Moscow, from the 20th-25th July.

UNESCO will make travel grants to Professor Ritchie, Professor H. Warren (Canada), Professor J. Webb (England) and Professor H. Cannon (U.S.A.), who have been actively pursuing research into geochemical processes in the biosphere and will form a working party to the congress in Moscow.

Professor Ritchie will present to delegates a paper entitled "Hydro-carbon and Carbon Isotope Fractionation During Petroleum Migration", which describes a new concept of the movement of petroleum from the source beds to the reservoir. The paper was read to scientists at the A.N.Z.A.A.S. Conference in Brisbane on 28th May.

Professor Ritchie is the author of a number of scientific papers and has a book "Chromatography in Geology", which was published in 1964 and translated into Russian in 1967. He has been attached to the staff of the Department of Geology at the University since the former Newcastle University College was opened in 1951.

HONOUR TO PROFESSOR

Professor D.G. Mowatt, Head of the Department of German since 1966, has been elected a Fellow of the Australian Academy of the Humanities.

The Academy succeeds the Australian Humanities Research Council and was constituted by letters patent of the Queen issued in 1969. It exists for the advancement of scholarship in Language, Literature, History, Philosophy and the Fine Arts. Specific objects and purposes include the establishment of relations with international bodies concerned with the Humanities and the administration of funds for research. The Academy also promotes studies in the Humanities and assists with their publication.

The Vice-Chancellor, who is also a Fellow of the Australian Academy of Humanities, has congratulated Professor Mowatt on his admission to the Academy.

STAFF BOOKS

Professor W.F. Pickering has just had a book, Modern Analytical Chemistry,
published, and Professor B.D.O. Anderson and Associate Professor J.B. Moore are co-authors of a book on *Linear Optimal Control*.

Professor Pickering is Head of the Department of Chemistry; his book was published by Marcel Dekker, Inc., New York.

The book written by Professor Anderson, Head of the Department of Electrical Engineering, and his colleague Professor Moore was published by Prentice-Hall, Inc., of New Jersey, U.S.A., and added to its Network Series of Electrical Engineering books.

*Modern Analytical Chemistry* consists of 620 pages and is a text and reference book suitable for undergraduate courses in modern methods of chemical analysis. Professor Pickering states that by tradition analytical texts attempt to combine several roles, e.g., theoretical text, reference book, laboratory manual and instrumental catalogue. He believes that this pattern must be changed, because the need has emerged to include an analytical chemistry course for biology, environmental science, and pre-medical students, as well as for chemistry majors at the undergraduate level.

The book focuses on analytical methodologies based on matter-energy interactions, but also includes analytical methods based on matter-matter interactions ("chemical" analysis), which are of contemporary interest. Among the many topics covered are thermal methods, radio-chemical analysis, emission spectroscopy, atomic and molecular absorption spectroscopy, kinetic methods of analysis and gas and liquid chromatography.

Professor Pickering is the author of approximately 40 publications concerned with analytical procedures, phase distribution, heterogeneous oxidation reactions, and inorganic reactions. He is also the author of the textbook, *Fundamental Principles of Chemical Analysis*, which was printed in English and Japanese. *Modern Analytical Chemistry* took him three years to write and has brought a warm response from reviewers.

*Linear Optimal Control* has 400 pages. It took Professors Anderson and Moore just under a year to write and was almost a year in the production stages. The book is aimed at the early graduate student, and attempts to present recent results of modern control theory in a way that would make them usable in a practical sense by a design engineer.

A significant part contains research results developed by the authors, sometimes acting in conjunction with their graduate students. The research was partially supported by the Australian Research Grants Committee.

In the Preface, Professors Anderson and Moore state that despite the development of a vast body of knowledge known as modern control theory and despite some spectacular applications of this theory to practical situations much of the theory has yet to find application and many practical control problems have yet to find a theory which will successfully deal with them. The aim of the book is to construct one of many bridges that are still required for the student and practicing control engineering between the familiar classical control results and those of modern control theory. A good many of the ideas discussed have appeared only in technical papers.

The two authors have published a total of about 150 papers on various aspects of information and control science, and this number includes about 30 joint publications.

It is the first book for both authors. Professor Anderson has had another manuscript accepted for publication, of which he is co-author with Dr. Sumeth Vongpanitlerd, of Mahidol University, Thailand, a Ph.D. graduate from Newcastle. Prentice-Hall will also publish this second book.

*Linear Optimal Control* will be used at the University of Newcastle in the post-graduate course and has been adopted in several North American universities. Prentice-Hall have advised that initial reviews have been superb. The authors
have plans to collaborate again in the writing of a book in 1972, the proposed subject being communication systems.

BOOKLET ON ELECTRICAL ENGINEERING

Energy and Information is the title of a newly published booklet now available from the Department of Electrical Engineering. It has been conceived mainly as a guide for High School pupils who might enrol in the graduate courses provided by the department.

The publication asserts that, although there are no compulsory prerequisites for entry to Electrical Engineering Courses, intending students would be advised to study mathematics and science for the Higher School Certificate. There are explanations of the basic branches of electrical engineering, descriptions of the categories in which employment is provided and an elucidation of the courses provided for electrical engineering students. The booklet also gives information about the department's laboratories and research projects.

Prospective electrical engineering students can obtain a copy of Energy and Information from the Lecturer in Charge of Undergraduate Studies, Department of Electrical Engineering.

APPLICATIONS TO SIT FOR EXAMINATIONS

The closing date for receipt of applications to sit for examinations is FRIDAY, 18TH JUNE, 1971.

Forms must be completed by ALL undergraduates, ALL diploma candidates and higher degree students who will be sitting for formal examinations.

Forms are available from the Student Administration Centre and the Departmental Offices in the Metallurgy, Architecture and Engineering Buildings, where they may also be lodged.

The $4.00 LATE FEE will apply in ALL cases where forms have not been received by the Examinations Section by the closing date.

SCHOLARSHIPS AVAILABLE

The scholarships listed below have been advertised in the past two or three weeks. Full particulars regarding conditions and the procedures for applying for the scholarships may be obtained from Mr. J.D. Todd, Student Administration Office.

Pembroke College, Oxford, Graduate Scholarship

Pembroke College, Oxford, intends to award a Graduate Scholarship tenable for two years, the holder (who should be single) to take up the appointment in October, 1972. The Scholarship is limited to male graduates of Australian Universities, but is open to all subjects. The emoluments of the Scholarship will be 1,400-pounds sterling ($A3,000) per annum - considered sufficient to cover all fees and living expenses for a single man. The College is unable to provide travelling expenses. The successful applicant will be expected to live in the College. The successful applicant shall undertake research with a view to taking a degree after two years. Applications should be sent to the Secretary to the University and must be lodged by 31st October, 1971.

Rhodes Scholarship

Applications have been invited for one Rhodes Scholarship tenable at the University of Oxford from October 1972. It is tenable initially for two years.
but may, under some circumstances, be extended for a third year. The value of a Rhodes Scholarship is about $1,400 pounds sterling per year. Each scholar receives 70 pounds sterling a month as a personal allowance. When considered necessary, the value of the Scholarship may be supplemented by not more than $A300 per annum by the New South Wales Government. Applications for the Scholarship will close on Friday, 16th July, 1971. Students who are interested are invited, in the first instance, to interview Mr. S. Neir Wilson, Student Adviser, The University of Sydney, before deciding whether or not to submit themselves as candidates for the Scholarship.

The Harkness Fellowships of the Commonwealth Fund of New York

A total of five Scholarships for study and travel in the United States are offered in Australia and New Zealand annually. The Fellowships provide an opportunity for a limited number of young men and women to further their education while becoming familiar with the people and culture of the United States. Distinctive features of the grants include freedom of choice in selecting an American University or other study base, wide latitude of permitted programmes and an obligatory period of travel in the United States. Candidacy is open to men and women in any profession or field of study who will be not more than 30 years of age on 1st September of the year of Award. Application forms are available only from the Australian representative of the Fund: Professor H.C. Forster, C/- University of Melbourne, Parkville. Vic. 3052. The closing date for applications is 15th August, 1971, and, in the case of University staff or postgraduate students, applications must first be lodged with the Vice-Chancellor at this University by that date.

Australia-Japan Business Co-operation Committee Scholarship

Applications are invited for two scholarships tenable in Japan in 1972, awarded by the Australia-Japan Business Co-operation Committee and the Commonwealth Government. Applicants should be single and should be graduates or of equivalent standing. They should have a good knowledge of Japanese and be able to follow a course in a Japanese institution of higher learning. Preference will be given to those who propose to specialise in subjects which will contribute to the improvement of Australian-Japanese understanding. The holders will be expected to leave for Japan in March, 1972. Each Scholarship is for approximately $A3,000 and provides for one return sea fare, a contribution towards fees and a monthly maintenance allowance of $A200. Applications must reach Mr. C.G. Plowman, Academic Registrar, The Australian National University, Box 4, P.O., Canberra. A.C.T. 2600 by 2nd July, 1971.

Saionju-Hamersley Scholarship

Applications are invited for the Saionji-Hamersley Scholarship, tenable in Japan in 1972. Preference will be given to applicants who are single, who have a good knowledge of the Japanese language and who are graduates or of equivalent standing. Applicants should be able to follow a course in a Japanese institution of higher learning, or should have specialised knowledge of Japanese affairs. The holder would be expected to leave for Japan in March, 1972. The scholarship provides for one person, fares, fees and a monthly maintenance allowance of $A225. Applications must reach Mr. C.G. Plowman, Academic Registrar, The Australian National University, Box 4, P.O., Canberra. A.C.T. 2600 by 2nd July, 1971.

Medical and Dental Postgraduate Research Scholarships

The National Health and Medical Research Council annually awards grants for the advancement of medical research from funds made available by the Commonwealth Government. The Council has invited applications for Medical and Dental Postgraduate Research Scholarships which will be awarded to enable medical and dental graduates to gain full-time research experience including studies approved for higher degrees. The Scholarships are awarded initially for a period of one year, but, subject to suitable progress, may be renewed for one or more years. The stipends for the Scholarships will be in the following
scale: $4,300 per annum, $5,200 per annum, $5,600 per annum. Applications close on 30th June each year for support commencing 1st January of the following year. It is considered that some members of Convocation could be interested in these Scholarships or could know of someone who would be interested.

**SCHEME FOR WORKING HOLIDAYS IN BRITAIN**

American Express International, Inc., has sent to the University a batch of brochures giving facts about the company's "Under 26 Working Holiday Plan". The company offers to arrange transportation to Britain (by air or sea), employment in Britain (part-time or full-time) and free accommodation in London for a week while permanent accommodation is being obtained.

Mr. J.W. Armstrong, Secretary's Division, has the brochures.

**GODOT COMETH**

Copies of the Orientation Handbook of the Students' Representative Council are available, belatedly, at the S.R.C. Office and other distribution points in the Union. The publication was edited by Al Svirskis and Milorad Pavlovic. Because it should have presented itself more than two months ago, the handbook had been titled Godot (analogies to Samuel Beckett). Copies are free to members of the university.

**SINGERS WANTED BY MUSICAL SOCIETY**

Newcastle University Musical Society is looking for people to sing in one of two groups to perform later this term. The choir is at present rehearsing Benjamin Britten's "Flower Songs", part of Bach's cantata, "Christ Lay in Death's Dark Prison", and some shorter items. Rehearsals are on Wednesday nights from 7 p.m. - 9 p.m. in the Union Lounge.

A madrigal group, consisting of about eight voices, is now being formed. The minimum requirement for membership of this group is the ability to read music fluently. It is expected that practices will be held at night, but this is not a final arrangement.

People interested in singing in the choir are welcome at any practice. The first practice for this term will be held on Wednesday, 9th June, from 7 p.m. - 9 p.m. in the Union Lounge. Information about the choir or madrigal group can be obtained from Allan Fenwick (Mathematics), Room VI, extension 479.

**CARE FOR CHILDREN IN VACATION**

Sydney University Union and Women's Union jointly operate a Child Care Centre at their university to care for children of members of staff, undergraduate students and postgraduate students.

The Secretary of the Child Care Centre, in a letter to the University of Newcastle, states that several conferences and seminars will be held at the University of Sydney during the 1971-72 long vacation. Members of staff in Newcastle who will be attending them can arrange for their children to be cared for at the centre. It would close on 10th December, 1971, and reopen on 10th January, 1972.
CONGRESS TO CONSIDER MUSCLE DISEASES

An International Congress on Muscle Diseases will be held in the University of Western Australia from 22nd to 26th November, 1971.

The Congress officers consist of the world's most eminent authorities in the field and thus the Congress is seen as a unique opportunity for persons in Australia, who are interested in paralysing conditions, to benefit at first hand.

Further information about the Congress is available from Mr. J.W. Armstrong, Secretary's Division.

CHANGE IN STUDENT ADMINISTRATION OFFICE HOURS

Commencing on Monday, 21st June, 1971, the Student Administration Office will be closed during the lunch period from 12.30 p.m. to 1.30 p.m.

At special times during the year, such as the annual examination period and the admission and enrolment periods, the office will remain open for the normal hours from 9.00 a.m. to 5.00 p.m. and will not close during the lunch period.

Similarly, the office will remain open during the normal hours on the last three days of each term so that students wishing to arrange travel concessions will not be inconvenienced in any way.

COMING EVENTS

Fine Arts Lectures

The series of Fine Arts Lectures, which commenced during First Term at the University of Newcastle, will continue during the Second Term. The lectures will be held each Thursday from 2.30 to 3.30 p.m. at the Faculty of Architecture Building. Dr. Neville Clouten, architect, will present the lectures and speak on Thursday, 10th June, on the work of Joan Miro. At the lecture on 17th June the current exhibition at the Newcastle City Art Gallery will be discussed along with examples of historic and contemporary Japanese art. Members of the public are invited to attend these lectures.

Musical Recital

Mrs. Sharon Raschke, representing Musica Viva-Newcastle, will play the piano at a meeting of The Faculty Wives Group on Thursday night, 17th June. The meeting will be held at the home of Mrs. H. Turner, 46 Ocean View Parade, Charlestown. Sherry will be served at 7.45 p.m., and supper will be provided. The charge will be 75¢.

Paper on Pareto

The Philosophy Club invites members of staff and students to a paper by A.J. Baker, Senior Lecturer in Philosophy, Macquarie University, on Pareto's Social Theory, to be delivered in the Union Lounge on Friday, 18th June, 1 p.m. Pareto was a 'Machiavellian' sociologist interested in the degeneration of institutional power and the problem of elitism.

Among other speakers engaged by the Philosophy Club for second term papers are Professor David Armstrong, Professor of Philosophy, Sydney University, Professor Brian Medlin, Professor of Philosophy, Flinders University, and Dr. Maximilien Rubel, of Paris, who will visit the A.N.U. in July and is an international authority in Marxist studies.
German Puppeteer

Heinrich Denneborg, an outstanding German puppeteer and author of children's stories, will present his Puppet Theatre at Newcastle Teachers' College Hall on 18th and 19th June. Parents and their children are invited to the performances on 19th June at 10.30 a.m. and 2.30 p.m. Admission will cost 40¢.

Denneborg will give a special performance in German for students and members of the German-speaking community in the same hall on 18th June at 8 p.m. The Hunter Valley Branch of the N.S.W. 'Women's Graduates' Association will sponsor Denneborg's puppet shows on 19th June. The show on 18th June will be presented by Newcastle and District Language Teachers' Association and the Sonnabendschule (the German Saturday School). Denneborg is in Australia at the invitation of the Goethe Institute of Munich.

Mathematics Seminars

Two seminars will be held by the Faculty of Mathematics on Friday, 11th June, in Room G24. At noon Miss Susan Penman, a third year honours student will speak on "Quadratic Forms". All those interested are cordially invited to attend.

Mr. L. Kavalieris, a fourth year honours student, Mathematics, will speak on "Injective Modules" at 2.00 p.m.

HOUSE AVAILABLE FOR LEASE

Three bedroom fibro house with garage, furnished, three-years old, Shortland, is available for lease from 21st June. For further information, Mr. Les Gibson, Ext. 300.

SPORTING NEWS

Intervarsity

University of Newcastle Surfing, Men's Orienteering and Rugby Union (Second Division) teams won their respective Intervarsity competitions in the vacation. Surfers from Australian Universities competed in Victoria and Rugby Union players in Adelaide, while this University was host for the Orienteering Contest.

In the Rugby Union competition, Newcastle won the Kanematsu Cup by defeating Melbourne University 16-3 and Adelaide University 24-3. R. Wilkinson, R. de Tozzer and D. Absalom, of Newcastle, were selected in the Combined Intervarsity side for a match against South Australia. Combined Intervarsity won 19-8. L. Griffin and M. Hobbs were included in the Combined Intervarsity No. 2 team that defeated South Australia Under 20's.

The University of Newcastle Badminton team, which participated in Intervarsity matches in Brisbane, came third and Allison Smith, of Newcastle, was selected to play for Combined Intervarsity against Queensland. Darryl Lang, of Newcastle, was reserve. Combined Intervarsity won 8-7.

Squash Championships

The University's squash club will conduct its annual championships at the Squash Courts, University Oval, on 27th June and 4th July. Entry forms can be obtained from Margaret Heron at the Sports Union Office. The events will consist of a men's open, a women's open, a men's undergraduate (includes postgrads, Dip.Ed. and honours students), a men's beginners and women's beginners. 50¢ is charged every entrant.
Inter-Faculty Sport

The Amenities Office has prepared a programme for the 1971 Inter Faculty Staff/Student Snorting Competition. Matches will be played at University Oval between noon and 2.00 p.m.

Members of the university are invited to form teams to represent faculties in accordance with the following programme:

**Hockey**:
- 17th, 24th June, 1st, 8th July;
- 23rd June, 7th, 21st June, 4th August;

**Rugby**:
- 16th, 30th June, 14th, 28th July;
- 23rd June, 7th, 21st July, 4th August;

**Soccer**:
- 16th, 30th June, 14th, 28th July;
- 16th, 23rd, 30th June, 7th July;
- 16th, 23rd, 30th June, 7th July;
- 16th, 23rd, 30th June, 7th July;

**Netball**:
- 16th, 30th June, 14th, 28th July;

**Softball**:
- 23rd June, 7th, 21st July, 4th August;

**Squash**:
- 22nd 29th June, 5th, 12th July.

**Tennis**:
- 22nd 29th June, 5th, 12th July.

Rugby and Soccer competitions are confined to men only. Other competitions are open to teams of men and women, or men only, or women only.

Staff and Arts Students will clash in the first Soccer match of the Inter-Faculty competition on the 16th June. Kick-off will be at 12.30 p.m. and players will run (or walk, or limp) for 30 minutes each way.

Inter-Faculty Regatta

Members of the University have also been asked by the Amenities Office to form four crews to represent various Faculties in an Inter-Faculty Regatta to be held at Raymond Terrace on Sunday, 1st August. The course will be over 1,000 metres. Crews of men or women, or men and women, will be eligible.

Forthcoming Sports Fixtures

**Rugby Union**: 12th June, University plays Maitland, Lorn; 19th June, plays Boolaroo, Walters Oval, Boolaroo; 26th June, plays Stockton, University Oval.

**Rugby League**: 13th June, University plays Macquarie Balaclava, University Oval.

**Soccer**: 13th June, University plays Argenton, Stevenson Park; 20th June, plays Cessnock P / B, Stevenson Park; 27th June, plays Barnsley, Barnsley.

**Australian Rules**: 12th June, Country Championships; 19th June, University plays Cardiff, Hawkins Oval; 26th June, plays R. A. A. F. - Williamtown.

**Men's Hockey**: Queen's Birthday weekend, University plays in S C A N D competition, A. N. U., Canberra; 19th June, plays North, Smith Park; 26th June, plays Kahibah, Smith Park.