The grounds staff maintains the vision splendid

We have one of the most attractive University campuses in Australia.

If this comment seems hackneyed or self-glorifying, we just remember that the site projects a civilized, beautiful and tranquil atmosphere to outsiders. Actually, the campus appeals to practically everybody - members of the University, who appreciate having a setting conducive to teaching and study, and visitors who are impressed by the efforts made to preserve trees.

Action is continually being taken by the Grounds Staff to beautify the developed areas of the University site and maintain the tranquility.

Recently, the Vice-Chancellor of the University, Hon. Donald Coggan, came to the University on March 17. He made reference to the beauty of the campus and the care with which its grounds were maintained.

Sir Bede Callaghan, our new Chancellor, had also made flattering comments about the appearance of the University, for which he had assumed responsibility.

A man who is a qualified horticulturist and greenkeeper and who came to the University after a period maintaining sports fields for the City Council is Supervisor of the Grounds Staff. Mr. H. Presker organizes work on the main campus and is in charge of maintenance at the sporting fields and its surroundings. He is responsible to the University Planner for the activities of Leading Hand Mr. A. Dykman and seven gardeners on the main campus and of Leading Hand Mr. Redman and our gardeners at Nos. 1 and 2 Ovals.

Mr. Presker states that the main tasks involved in maintenance of the University's grounds are watering, mowing, fertilizing, weeding, top dressing and spraying.

He says the summer is a difficult time for his department, because the gardens must be continually watered. Like with domestic gardens, the University's gardens have to be weed ed, the edges have to be cut and the leaves have to be collected. "Mr. Presker defines the main difficulties as unavoidable and, as he says, to make the campus neat and tidy, worthwhile."

Mr. Presker states that the Shortland site presents no special difficulties for horticulturists. The wind can be an enemy of plant life, but "you get winds everywhere."

He finds the clay subsoil causes the greatest difficulty - it doesn't hold moisture and requiring building up with humus and nutrients.

Some shrubs thrive in the original soil for example eucalypts - and others demand soil which has been enriched with humus

An illustration is melaleucas. The University has been praised for its collection of native species of shrubs, which complement the original eucalypts.

The University Planner has favoured natives associated with the Newcastle Region.

Beautification of a new campus building usually begins with the preparation of a plan and the selection of species of shrubs. (continued on page 5)
LETTERS TO THE EDITOR

At the April meeting of the University Senate I was elected to serve on the Timetable Committee for 1977. The purpose of the committee is to draw up the 1978 Timetable. It is the first time that a student has served on the Committee. From time to time students find that subjects they select to study have conflicting lecture times or that for one reason or another they are unable to get to certain lectures on time. Also they may find it difficult to arrange tutorial or practical sessions simply because times conflict. If any student has suffered any problems along the lines mentioned above I would be most grateful if they could contact me at the S.R.C. Office, Level 4, Union Building as soon as possible so that I might put the problems before the committee and try if at all possible to ensure that in 1978 the Timetable is drawn up in such a way that these types of problems are eliminated or minimised to the greatest extent.

I ask the students to note that only they through action can prevent inconvenience to themselves and fellow students.

PETER TULLGREN,
Member
Timetable Committee.

Dear Sir,

In answer to Greg Martin's letter in your last issue, Yes, the Union is trying to look after part time students' needs. While the 'AT HOME' nights on Thursday may be a little raucous for mature age students and part timers our Tuesday music nights in Sten's Bar are not. This is a night with fairly low key live music provided in the bar where members and their guests can spend a relaxing evening over a few drinks. And if the music is too obtrusive the McLarty room is available (and licensed) or the covered courtyard next to the bar. Many part time students are already coming to these nights after lectures. There is even a 20c meal available to comply with our liquor permit and the bar usually serves until 10.30 or 11 p.m. depending on demand. On Wednesdays our lunchtime concerts have been moved to the evening so that these too are accessible for all students. Once again the bar is open and a cheap meal is available. On both these nights the range of entertainment is as wide as can be managed. On Wednesday 4 May we even have a folk group from Western Australia - 'Touchstone'. So, part timers come along to the University Union for a pleasant evening on Tuesday, Wednesday or Thursday. You'll find them convivial.

John E.H. Burne
ACTIVITIES OFFICER
UNIVERSITY UNION

DISAPPEARANCES FROM THE UNION

Last August the Union made a fleet of bicycles available free to students. The expectation was that the bicycles would be a popular means of transportation around the University, where distance can sometimes be a bother.

The Secretary-Manager of the Union (Mr. V. Bridgewater) has stated that several borrowers of the bicycles have abused the Union's offer. At this point the fleet of 11 bikes has diminished to just three. Implicit in the decision to purchase the bicycles was the proviso that riding be confined to the University and that the machines be returned the same day. Mr. Bridgewater is offering a reward for the missing bicycles to be returned to the Union so that they can be made use of by all members, not a select few.

On the same cheerful note is the announcement that the cupboards were not. Ada Stendler had grown in a box behind the kitchen were stolen last week.

CONFERENCE PAPERS HAVE BEEN PUBLISHED

TUNRA has published the proceedings of the conference on Mathematical Models of Behaviour held at the University in March 1976. The Conference was organised spontaneously when it was realised that several important contributors to the study of mathematical models in the behavioural sciences would be on the east coast of Australia simultaneously.

The proceedings were edited by Professors J.A. Keets and W.D. Wallis. They cover Subjective Relativity Effects in Motion Perception - Terry Caelli, William Hoffman and Harold Lindman; A Proposed Projective Relationship Between Perceived and Actual Distances - J.A. Keets, A Procedural Model for Absolute Identification - A.A.J. Marley, Constant Curvature Riemannian Manifolds - Harold Lindman and Terry Caelli; A Tandem Random Walk Model for Absolute Identification - R.A. Heath, Digraphs and Activity Sequences - Don Parke and W.D. Wallis. The price is $8. plus postage. Copies may be ordered from The Secretary of The University of Newcastle Research Associates Ltd.
DIAMOND SHAMROCK CORPORATION GRANT

Assoc. Professor L.A. Summers, of the Department of Chemistry, has received a further grant of $18,750 U.S. ($37,500 Aust.) from the Diamond Shamrock Corporation of U.S.A. for his research on the chemistry of systemic fungicides and plant growth regulators. The grant will finance the salary of a postdoctoral research fellow. This brings the total received from the company over the past eighteen months to $37,500 U.S.

WITHDRAWAL FROM SUBJECTS

April 26 is the deadline for permission to withdraw without penalty row first half-year subjects. If you are unsure of your present situation, we suggest you make an appointment with a counsellor to discuss the problem.

University Counselling Service

VISIT SCHEDULED OF FRENCH SCHOLAR

Professor Philip Thody, Head of the Department of French at the University of Leeds, will be visiting the University on Wednesday 4th May as part of his lecture tour of New Zealand and Australian universities.

Professor Thody is held in high esteem amongst students of French literature and others for his well-known and widely-read works on major writers such as Camus, Sartre and Laclos. His forthcoming book on that contemporary enfant terrible of French literature, Roland Barthes, is awaited with pleasurable anticipation.

While in Newcastle Professor Thody will be giving lectures on ambiguity in L'Étranger (The Outsider) by Albert Camus and on Sartre’s concepts of freedom. He will also present a paper to the Board of Studies in Language and Literature on "Roland Barthes and all-in wrestling" and attend an undergraduate seminar on morality in Les Liaisons dangereuses by Laclos.

Distinguished Christian Distinguished Academic

Professor Sir Norman Anderson will speak at the University on May 4 at the invitation of the Evangelical Union. A distinguished Christian, Sir Norman is First Chairman, House of Laity in the General Synod of the Church of England and the Anglican delegate to the World Council of Churches. A distinguished academic, Sir Norman is Professor of Oriental Laws in the University of London and a Barrister-at-Law. Formerly, until 1976, he was Director of the Institute of Advanced Legal Studies in the University of London. Born in 1908 Sir Norman’s career has been a mixture of Christian witness and academic success. After graduating from Trinity College, Cambridge, with BA in 1930 (with first class in the Law Tripos) and in 1931 with first class LLB, he undertook missionary service for the Egypt General Mission in 1932.

FIRST PERFORMANCES OF FANFARE

The University’s new fanfare for ceremonial occasions is ready for the Graduation Ceremonies on April 23 and 30.

Nigel Butterley, the Australian Composer, wrote the fanfare and a processional after he was awarded a commission by Convocation. The performances of the works will be at the Architecture/Economics and Commerce Graduation Ceremony on April 23 at 11.15 a.m.

A group of Newcastle musicians will play the compositions, which have been scored for brass and percussion. The group will play them before the Engineering/Science ceremony on April 23 at 11.30 a.m. and before the Arts/Education ceremony on April 30 at 10.30 a.m.

A tape recording will also be made in the Arts/Drama Theatre on April 30. Convocation gave Mr. Butterley the commission to obtain a permanent reminder of 1977- the 25th anniversary of the opening of Newcastle University College.

The fanfare will be played to announce the arrival of the Chancellor at the door of the Great Hall. The processional will then be played as a march theme for the arrival of the official party; it will be repeated at the close of the ceremony to signal the departure of the official party.
INdian Professor

ON CAMPUS

Professor M. Srirama Rao has been at the University for six weeks working with the Department of Physics. He is a United Nations Development Programme Senior Fellow from Andhra University, Waltair, India, where he is in charge of the Space Research Laboratory, attached to the Physics Department.

At the University of Newcastle, he has been working with Assoc. Professor G. Keay, of the Department of Physics, on digital electronic techniques so that he can develop at his University a real time signal processing system for the meteor and ionosphere equipment in operation at Andhra University.

Professor Rao is an Assoc. Member of the Institution of Electronic and Telecommunication Engineers of India, a Fellow of the Andhra Pradesh Academy of Sciences and a Member of the Institute of Engineers of India. He holds the Degree of Master of Science and Doctor of Science and after graduating for a year for the National Research Council of Canada in Ottawa. Returning to Andhra University he was a Lecturer from 1959 to 1965, a Reader from 1965 to 1972 and a Professor since 1972. He is now in charge of nine academics giving tuition to about 25 research scholars at the Space Research Laboratories.

Andhra University harbours three different campuses: Science and Technology; Commerce and Law; Engineering, with student numbers in excess of 3,500.

He came to Newcastle because of his interest in meteors and the ionosphere. Professor Keay was a U.N. Development Programme Consultant and in this role visited Andhra University, where he met Professor Rao.

He has been attracted to the University, where the computing centre has greatly impressed him. "The computer at my University is not nearly as powerful. For example, we have no terminals and must walk to the computing centre to solve our problems. "You have a very pretty campus. Not only are the trees tall and beautiful here, but also in other parts of Australia I have visited. Trees are a definite feature of Australia." Before returning to India on April 30 Professor Rao will work briefly with Physicists at the University of Queensland and the University of Adelaide.

L.G. Finance as Seminar Topic

Mr. W.J. Sheehan, Senior Lecturer in Economics, will speak next in the Department of Economics' Seminar Series. He will deal with some issues in Local Government Finance at a seminar in the Economics and Commerce Faculty Staff Conference Room on April 27 at 2 p.m.

During 1974 and 1975 Mr. Sheehan was on leave from the University as Commissioner, Commonwealth Grants Commission, with special reference to Local Government finance. This work involved Mr. Sheehan in intensive study and report on Local Government financial arrangements throughout Australia. The paper will deal with a range of issues of interest not only to economists but to many other members of the University.

Memorial Fund For Staff Member

When Mr. Frank Rooney, Lecturer in Commerce, died last December it was suggested to his colleagues that rather than making floral tributes some might make donations to the Renal Unit at Royal Newcastle Hospital. So far $117 has been contributed. Further donations to the Renal Unit will be received by Messrs. N. Dickinson (Economics), R. Grobbins (Commerce), B. Taylor (Commerce) for the next two weeks, after which the fund will be placed.

Staff Member is Bureau Director

Professor B.L. Johns, of the Department of Economics, is to be the first Director of the Bureau of Industrial Economics, the new division of the Department of Industry and Commerce.

The University has agreed to his secondment for two years commencing on May 2 to fulfill his appointment by the Minister for Industry and Commerce, Senator Cotton.

Refurbishing of Senator Cotton's department, embodying the establishment of both the Bureau of Industrial Economics and a more streamlined policy division, is designed to give the Department a more active communication with the manufacturing, commercial and tertiary sectors of industry. The Department of Economics at this university has, for some years, specialised its research in the area of industrial economics. In April last year the University established an Institute of Industrial Economics, of which Professor Johns is Director. Professor C. A. Tisdell will assume the Acting Directorship of the Institute from May 1.
UNIVERSITY ARMY RESERVE COMPANY HAS WIN

A 12-man team from the University of Newcastle Company, based at King Street, won the Braye Shield for the second year in succession at an annual dress and drill competition for Army Reserve detachments from the Newcastle area on April 17. The competition, sponsored by Waratah-Mayfield and Shortland R.S.L. sub-branches, is traditionally conducted in conjunction with the clubs' Anzac commemoration service at the war cemetery at Sandgate.

The UN Coy. team narrowly won this year by defeating the second place getter, 14 Field Squadron, Royal Australian Engineers. The win was the second half of a winning double for the detachment commander, Lieutenant Don Shearman, of Adamstown and his second-in-command, Sergeant Phil Cousins, of Hamilton, who also headed the team last year.

Mr. Presker says: "We plant them with love and care, as it's a great feeling to see them grow well. Our preferences are westringa, melaleucas, Robyn Gordons and abelias. We will be interested in the fate of a new specimen, loniceria, in the garden at E01. Walls for the gardens on the campus are "dry" (without concrete), a method of construction that permits the growth of flowers in the cracks. This embellishment is eye-catching on sunny days resulting from the use of gazanias and ivy.

One of the big features of the campus is the garden at the bottom end of the main plaza alongside the Auchmuty Library. Mr. Presker explained that natural drainage and the library's shade assisted the alocas, ferns etc. which grow in this area.

The University rarely uses manure, which, Mr. Presker says, is offensive. Instead, all the leaves that can be found are put on the shrubs to become humus-compost. As regards fertilizers the amateur gardener is probably interested to know that the Grounds Staff's choices are Greenleaf 65 for gardens and Shirley's No. 17 for the ovals.

Meeting the needs of students and members of staff who use the University's sporting areas is an important responsibility for Mr. Presker and his department. These needs were comparatively small when Mr. Presker joined the staff more than eight years ago. "Then we had no Pavilion. Just a shed. In my time I have seen squash and tennis courts, No. 2 Oval, the Sports Centre and other facilities materialise, increasing the work of the Grounds Staff considerably. We now have eight cricket wickets and 14 practice wickets at No. 1 Oval.

Appreciation of our efforts on the sporting areas has been expressed by members of teams from other Universities and a highlight was the use of No. 1 Oval for a New South Wales V. Newcastle match a few years back."
SPORTING NEWS

The annual dinner at which the University Blues and Sports Union Colours are presented is to be held at the Union on April 29. Cocktails will be served at 7.30 p.m. and the Dinner will commence at 8 p.m.

Professor D.W. George, Vice-Chancellor of the university, will present the University Blues and Colours. The Sports Union will also present the Sportsman of the Year Award.

Wayne Taggart will be presented with a Blue for hockey and Jeff Andrew will receive a Blue for cricket. Sports Union Colours will be presented to Bess Burns (for squash), Doug Brinkley (rugby), Peter Moore (Rugby League) and Stephen Allen (Volleyball).

Budding squash players, as well as experienced and competitive players, who are members of the University are able to receive tuition from squash coach Jock Armstrong at the Squash Courts. Application forms are available at the Amenities Office, the Squash Courts and the Sports Centre.

It was expected that this year's Campus competitions would get under way with play starting in the Volleyball and indoor Soccer fixtures on April 18. Unfortunately the project of restoring the floor of the Sports Centre has not been completed. University News will bring you the revised schedules, now expected to provide for a commencement in May.

The University of Newcastle will be strongly represented in this year's Intervarsity Sporting Contests to be conducted from May 15 to 21. He will send Women's Hockey, Surfriding and Badminton teams to the University of Western Australia, a Men's Hockey team to La Trobe University, a soccer team to the University of Tasmania and an Orienteering team to the University of Melbourne.

On the home front the University will be host to Rugby League teams from other Universities. Games will be played on Nos. 1 and II Oval. A Combined Universities team will play a Newcastle composite side under lights at Harker Oval on May 18.

The Aquatic Carnival will now be held in Second Term. The carnival was scheduled for April 24, but rowing crews were not able to train because of flooding last month.

The newly-formed Women's Gymnastics Club has been lucky to obtain the services of Mark Gravolin as Coach. Gravolin has had an outstanding career as a gymnast. He was N.S.W. champion in 1970, runner up to the N.S.W. champion from 1971 to 1975. Member of the N.S.W. team for five years, member of Australian team which toured New Zealand in 1972. Secretary-Coach of the University of N.S.W. Gymnastic Club from 1975 to 1977 and Coach of Nepean College of Advanced Education Gymnastic club in 1976.

Mr. B. O'Shea, who was re-elected President of the Sports Union, spoke at the Annual Meeting of substantial price rises for sporting goods and the withdrawal of the Universities Commission from the field of recreation expenditure having restricted the capacity of the Sports Union to extend the services offered to students. Mr. O'Shea stated that despite this situation facilities had been improved and some additional ones provided. Major new facilities included the fitness trail and two squash courts. Improvements had been made to the Aquatic Centre at Raymond Terrace, where catamarans and canoes were available for general University use. The hours that the Aquatic Centre had been open had been increased and tuition was provided in the weight-training room. More than twenty clubs were affiliated with the Sports Union, including, for the first time, Archery and Slope Gliding. Throughout the year University clubs had been active in district competitions and many fine team and individual performances had been recorded.

A relatively small proportion of students joined affiliated clubs. Mr. O'Shea said perhaps the main fault laid with the clubs, which, in recent years, had made little active effort to recruit new members. Students should recognise that it was easier for them to locate a sporting club than it was for the club to be aware that they had an interest in a particular sport.

A further matter for concern was the large number of students competing in local competitions for clubs other than University. Only University clubs offered the opportunity to attend Inter-University to represent combined Australian Universities either in Australia or overseas and to win a University Blue. University clubs were largely comprised of a group of people of similar age and attitudes and a student could have a real say in how the club was conducted.

"The Sports Union is funded by student money, which is spent in ways decided by students. It endeavours to cater for any competitive sporting activity for which a demand exists and for a variety of non-competitive recreation activities. I am confident that the opportunity exists for all to participate in some form of Sports Union activities and I urge all students to do so and to make their University life more complete and enjoyable," Mr. O'Shea added.

The Annual General Meeting elected the following officers: Patron, the Vice-Chancellor; President, Mr. O'Shea; Secretary, Mr. P. Hunt; Treasurer, Mr. J. Beauman; Auditor, Mr. R. Gibbins; Legal Adviser, Professor K. Lindgren.

The Sports Union Committee subsequently added the following officers: Jenny Bastian, George Beath, Mr. O'Shea, Mr. R. Gibbins, Chris Rawlings. Bernie Curran has accepted appointment by the University Council to succeed Allen Oates.

Combined New Zealand Universities men's and women's badminton teams will play in Newcastle on May 7 and 8. Teams representing the University and Newcastle will be matched against the tourists.
The Engineering Squash team comprising John Lidgley, Adrian Page, John Chambers and Brian Williams declare themselves "Squash Champions of the University". Any challenge for this prestigious title should be directed to John Lidgley (Elec. Eng.) Ext. 759. A suitable trophy is in preparation which will be held by the current title holders.

U.K. TERM DATES

Mrs. G. Durham, of the Secretary's Division, is holding details of the term dates of University Institutions in the United Kingdom for the 1977-78 academic year.

GRANTS AWARDED TO STAFF MEMBERS

Members of the University's staff have attracted four grants from the Radio Research Board and one from the Sulphide Corporation Ltd. Projects approved by the Radio Research Board are:

- Ultra Low Frequency Gono-meter Studies of the Dynamics of the Magnetosphere, Dr. B.J. Freiser, $1,650.
- Experimental Investigation of the Amplification Properties of an LSA Mode Transferred Electron Oscillator, Dr. F.J. Lidgley, $2,000.
- A Study of Combined Data Equalization and Detection Algorithms and their Implementation on Microprocessors, Dr. A. Cantoni and Digital Filter Design, Dr. A. Cantoni and Dr. R.J. Evans, Joint grant of $2,500.

The Sulphide Corporation has awarded $15,000 to the Department of Chemical Engineering as further support for a project in connection with Mixer-Settlers.

John Broxnan, the Sydney bass-baritone, will be one of the soloists for the performance of Verdi's Requiem in the Great Hall on May 7. The soloists will appear with the Conservatorium Orchestra and the new University of Newcastle Choir.

Broxnan, has appeared in a number of 80C-TE productions. Other roles included Schwanda the Bagpiper and Faustina's La Rondine. In 1987 he filled the bass-baritone roles in Nigel Butterley's In the Head the Fire. John Broxnan appeared as a soloist with the Sydney Symphony Orchestra in a performance of Handel's Samson; he also sang a leading role in the Berito opera Beatrice and Benedicte at the Sydney Proms with the Sydney Symphony Orchestra.

Other concert platform appearances of Verdi's Requiem with the Astra Choir in Melbourne. He played the part of King Herod in the medieval drama Play of Herod at the Conservatorium. Last year Broxnan sang the bass roles in Bach's St. Matthew's Passion at the Sydney Opera House.

SQUASH CHAMPIONS

FOR OVERSEAS STUDENTS

Robin Loftus has been appointed Temporary University Counselor with special responsibility for overseas students until July 1, 1977. Robin's office is still located in the basement of the Union. Appointments may be made through the Counseling Service office (Admissions Building, Room LG.63, Phone Extension 255).

ARCHITECTURAL TOUR BY HISTORY CLUB

The History Club will conduct a coach tour of some of the historic architecture of the Lower Hunter Valley on Saturday, May 7. Emphasis will be given to the architecture (both external and internal) of historic hostleries. Expert architectural commentary will be provided. The tour will include Minto, Morpeth, East Maitland, Maitland, Branxton, Neath and Kurri Kurri. Arrangements have been made for the party to inspect Wyndham Estate Winery, where lunch will be taken.

The tour will leave the University No. 2 Car Park at 9.30 a.m. and will return to the Uni by 6.30 p.m. The cost is $5 to members of the History Club and $5.50 to non-members. This cost includes coach fare and lunch (roast sucking-pig and extras) but does not include drinking money. Only an extremely limited number of bookings will be available, so get in early. Bookings can be made from Friday April 22 by calling at room ALG 17a, or ringing Ext. 264.

CARMEL WALKER, Vice-president.

LIST OF NON-ACADEMIC POSITIONS

UNFILLED AS AT 21ST APRIL, 1977

N49/77 Secretary - Department of Education.
Closes 25.4.77.

Information and full details may be obtained from the Personnel Department, Extension 518 or 350.
RETIREMENTS
Mr. W. A. Crockett, Attendant (Patrol), will retire, having attained 65, on April 28.

RESIGNATIONS
Teresa Mary Callaghan, Stenographer in the Department of Education, Nanette Bryant, University Counsellor, and Robyn Stubbs, Adult Library Assistant, have resigned.

ADVERTISEMENTS
 Classified advertisements placed in University News must come from members of staff and students of the University.

As the campus newspaper is essentially designed for internal distribution, advertisements originating from people outside the University cannot be used.

Names of people willing to type theses, reports etc. are obviously exempt from this rule.

Advertisements, which should be brief, can be sent or 'phoned to Mr. John Armstrong or Mrs. Pat O'Neill whose office is 16/02 in the Arts Building and Extension E 375.

The advertisements should bear the advertisers' names and telephone extensions, at least to permit checking.

FOR SALE
ADAMSTOWN HEIGHTS - Three bedroom house, five years old in excellent condition inside and out. Weatherboard with tile roof, garage under. Features large living room leading onto patio, separate toilet, air-conditioned main bedroom, wall oven in kitchen-dining room, large dryer in laundry. Grounds neatly finished with plenty of trees. Quiet street with bush views. Price $15,000 o.n.o. Ring 430250 or Ext. 306.


FOR RENT
3 bedroom house, approximately 10 squares in South Wallsend. Large garden (mainly lawn) ideal for children. Lockable garage, fully furnished, telephone, 10 minutes drive to the University. Owner on study leave for 6 months. Available from Saturday, 15th June. Rent $50.00 per week. Contact John Lidgey on Ext. 759 or 51-3132.

3 bedroom b.v. house in new area, six minutes from University by car, colour T.V., off heating, some air-conditioning, b.b.o., available 24th July to mid-Feb. Ext. 750 or 51 2939.

DIARY OF EVENTS
FRIDAY, APRIL 22
2 to 3.30 p.m. Seminar Department of Civil Engineering. Speaker Professor A. M. McKnight, of Cornell University, U.S.A. Topic, Landsat Study of Rice Growth in the Philippines. Room 16001, Engineering Complex.

SATURDAY, APRIL 23
Graduation ceremonies, faculties of Architecture, Economics and Commerce, and Mathematics, Great Hall, 9.15 a.m. Faculties of Engineering and Science, 11.30 a.m.

WEDNESDAY, APRIL 27
1 to 2 p.m. SNUGS' Seminar, Town Planning in Newcastle. Room 154, Department of Mathematics Seminar. Speaker Dr. C. Pearce, of the University of Adelaide, Alternating Renewal Streams and Multi- lane Traffic at an Uncontrolled Intersection. Room V107.

6 p.m. Joint Meeting of the Civil Engineering Branch of the I.E.A. and the Australian Geomechanics Society. Topic: Bedrock Investigations along the N.S.W. Coast. Speaker, Dr. A. D. Allison, Senior Lecturer in Geology, University of New South Wales.

THURSDAY, APRIL 28
noon Special seminar, Department of Mechanical Engineering. Speaker, Professor J.A. Ouliff, University of Wisconsin, Title, Solar Energy Applications. Room E02, Engineering Building.

1 p.m. Asian Studies lecture by Professor E.S. Crawcour (ANU). The role of the samurai in the modernisation of Japan after the Meiji Restoration of 1868.

SATURDAY, APRIL 30
Graduation ceremony, Faculties of Education and Arts, Great Hall, 10.30 a.m.

WEDNESDAY, MAY 4
11 a.m. Asian Studies lecture on China by Dr. Stephen Fitzgerald, former ambassador to China, in B01.

11 a.m. V02. Lecture by Professor Philip Thody "Ambiguity in L'Etranger".

1 p.m. Address by Professor Sir Norman Anderson, of the University of London, to members of staff and students, organised by the Evangelical Union, the Great Hall.

1.00 AGSC, Board of Studies in Language and Literature Seminar. Prof. Thody "Roland Barthes and all-in wrestling."

4.00 B01. Prof. Thody "Sartre's concepts of freedom."

FRIDAY, MAY 13, 14th, 15th
Second National Conference
WOMEN IN EDUCATION. A.N.U. CANBERRA. Opening address Friday night by Senator Susan Ryan. Papers on Women and Work. Unemployment. Careers. Women in the Teaching Profession and other topics will be presented. Workshops will be arranged at the conference. Billeting will be available. Registration $15 or $24 concession. Enquiries 457- Alan Roche.

WEDNESDAY, MAY 11
Lunchtime Free concert, Great Hall. Michael Dudman, (organ).

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