Mathematics/Classrooms Building

Offices in the new Mathematics/Classrooms building at the University of Newcastle will be fully occupied before the end of this month. It is a three-storey building and is located adjacent to the Social Sciences and the Arts/Administration buildings.

The Faculty of Mathematics will be transferred from its present location to the Mathematics/Classrooms building, which will also provide teaching space for 1,200 students. This space is in the form of six lecture theatres, each seating 121 people, six 48-seat classrooms, eight general seminar rooms, four Mathematics seminar rooms and six research laboratories. The teaching rooms will be available for general University use.

The new building will provide Mathematics with considerably greater teaching, research and office areas than the Faculty has at present in the Library. Moreover, its re-location will free Library space for other uses.

The Mathematics/Classrooms building is being constructed by Arthur Davis Constructions Pty. Limited, with Hill and Mills Pty. Limited providing mechanical services and Edmunds Moir and Co. Pty. Limited the electrical services. The total cost will exceed $1,000,000.

The architect for the project is Laurie and Heath Pty. Limited, the authors of the University's original master plan and architects for a number of the University's other buildings.

External materials include Wallsend bricks to harmonise with the Arts/Administration building and a copper-coloured pressed metal roof. Inside there is a pleasing blend of brick walls, sprayed asbestos ceilings, natural wood doors and seamless vinyl flooring.

The main architectural elements in the design are the stacked hexagonal lecture theatres, the recessed second floor and the associated projecting roof at first floor level. The lecture theatres create an interesting contrast with other lecture theatres on the site.

Open circulation areas have been provided adjoining the lecture theatres at ground floor level. The uncommon shape of the theatres helps to establish more spacious circulation areas than would have normally been possible. These areas give onto the main pedestrian mall, as well as the courtyard which will be formed by the Social Sciences, the Mathematics/Classrooms and the future Behavioural Sciences buildings.

The accommodation for the Faculty of Mathematics comprises forty-six offices for members of academic staff, two general offices, a staff seminar room and six research laboratories. Naturally this allows for considerable faculty expansion and in the interval some offices will be available for the development of other Departments just as the mathematicians enjoyed Library hospitality in recent years.

Space on the ground floor has been allocated to four lecture theatres, academic offices and tutorial rooms. On the first floor are classrooms, seminar rooms, tutorial rooms and academic offices, including those of the Dean and the Head of Department.

The top floor contains further staff offices, the staff seminar room, the research laboratories, a calculator room and a mini-computer suite which will be air-conditioned.

The Mathematics/Classrooms building will be officially opened on Friday, 6th September, 1974 by an eminent mathematician, Professor Bernhard H. Neumann, who is Professor and Head of the Department of Mathematics at the Research School of Physical Sciences at the Australian National University. He is a Fellow of the Royal Society and has been a Visiting Professor at many overseas universities. He has published extensively, particularly in the field of algebra and has been closely associated with the University of Newcastle and the development of the Faculty of Mathematics.
TOUCH GIVEN TO BUILDING

The Mathematics/Classroom block will combine Art and Mathematics in a most original and interesting way.

The creative work of the late M.C. Escher will be represented on the walls of the building by five murals. Escher, a Dutch artist, was preoccupied for many years with the execution of graphics which conformed to certain Mathematical laws. He designed well over 100 graphics, or periodic drawings, by filling the plane with interlocking living creatures which bordered each other without gaps.

Before the Renaissance, the Moors covered walls and floors with tiles that showed that they were masters in the art of filling a plane with abstract geometric shapes.

Escher acknowledged the Moors' ability but noted that for religious reasons they were inhibited against making representations of living things. His creations borrowed fishes, birds, reptiles, horses, humans and other figures from nature, which he used as motifs in a large variety of symmetrical combinations.

Mr. W. Geyl, Senior Lecturer in Geography, returned from overseas study leave with reproductions of many of Escher's works of Art. Mr. Geyl shared an interest in Escher with Associate Professor W. Brisley, of the Department of Mathematics, who showed Mr. Geyl's reproductions to the late Professor M. Lieberstein, then Head of Department of Mathematics. Professor Lieberstein was intrigued, too, so much so that he suggested to Mr. Gordon Fuller, Architect for the Mathematics/Classrooms block, that copies of Escher's work be made and hung in the building. The permission of Escher's Estate had to be obtained before the murals could be commissioned.

To comply with the opening date of 6th September, paper reproductions will be displayed inside the building until the actual works arrive at the University.

NEWS FROM THE S.R.C.

The formerly vacant positions of President and Secretary of Newcastle University Students' Association have been filled by Greg Chilvers (undergraduate, Arts) and Greg Wicks (undergraduate Science) respectively.

Chilvers defeated David Davenport in elections while Wicks was automatically elected when nobody else was nominated.

At its meeting on 6th August, the Students' Representative Council elected a committee to supervise the organisation of a campaign for greater use to be made of assessments. The committee, which consists of G. Chilvers, G. Wicks, G. Ollie, P. Ormonde, Helen Grace, T. French-Kennedy, T. Snape, T. De Lyall and Kathy Evans (Convenor), will meet on 4th September.

N.U.S.A. delegates who attended the meeting of the Council of the Australian Union of Students in Melbourne from 19th to 23rd August are T. French-Kennedy, G. Wicks, P. Ormonde, T. Snape and Kathy Evans.

AN INTRODUCTION TO CHEMISTRY

Many people in business and commerce, administration, the arts and a vast range of professions have, and are conscious of having, an almost complete lack of knowledge of chemistry and other sciences. This is generally hard to remedy because the instruction normally provided at the necessary basic level is too unsophisticated to be a practical proposition for mature, educated people.

An as experiment in meeting this problem the Department of Community Programmes has arranged a course of lecture/demonstrations designed to provide insight into some basic principles of Chemistry by relating them to familiar management, industrial, environmental and social situations - and in a way suitable for thinking, educated. but scientifically ignorant. people.
this University, and will include laboratory demonstrations as well as classroom lectures and discussions.

If this course is well received, others will be arranged in Physics, Biology, Mathematics and so on, with the same style and purpose.

The course will be held at the University, in the Chemistry Department, on Wednesday evenings 7.30 p.m. to 9.30 p.m., during the first term of 1975. For further information write to the Department of Community Programmes, University of Newcastle. 2308

FILMS DURING ANZASA CONFERENCE

Films dealing with the modern American western will be screened during the Australian and New Zealand American Studies Association's Conference at the University from 26th to 30th August. The films are "Shane", "Little Big Man" and "The Last Picture Show".

There will be forums on 25th August, the day preceding the start of the conference, dealing with "The Age of Melville" (2 p.m.) and "The Significance of Watergate" (8 p.m.) and on 30th August dealing with "The U.S. Presence in Australia" (2 p.m.).

Most conference sessions will be devoted to seminars on American studies and will be chaired by overseas and Australian scholars.

The conference opening on 26th August at 9 a.m. will be performed by the Vice-Chancellor. The visitors will be taken on a vineyards excursion on 28th August.

Members of Newcastle University are invited to attend the conference dinner on Thursday evening, 29th August, at Edwards Hall ($7 including wine). Mr. John Higham, President of the Organisation of American Historians, will address the dinner.

There will be no charge for individual conference sessions, but those people who attend frequently will be asked to pay the compulsory registration fee of $5.

Distinguished overseas visitors for the Conference include leading scholars in American literary fields - Charles Fiedelson (Literature - Yale), Don Fehrenbacher (History - Stanford), John Higham (History - Princeton), Henry Albinski (Politics - Penn. State) and J. Ewan (Botany - Tulane). In addition there will be a large Interstate and New Zealand Group.

ANOUILH PLAY FOR DRAMA THEATRE

Student Players' final production for 1974 will be the delightful comedy "Ring Round the Moon", by Jean Anouilh.

Described by its translator, Christopher Fry, as "a charade with music", it is set in a winter garden in early spring. The play centres on two twins - one manipulating, Machiavellian and heartless, the other shy, diffident and hopelessly in love.

Isabelle will be played by Barbara Delany, who was last seen in the title role in "Calamity Jane", Diana by Kerry O'Hearn and Madame Desmortes by Doreen Wilson. The twins, Hugo and Frederic, will be played by the play's Director, Larry Galbraith. The cast also includes Peter Day, Julie Yarrow, Anne Picton, Tony French-Kennedy, Vladimir Pavlovic, Deirdre O'Sullivan and David Wood.

The play will open in the Drama Theatre on Tuesday, 17th September and will be presented on Wednesday, Friday and Saturday of that week at 8 o'clock.

VACATION SCHOLARSHIPS AT THE A.N.U.

The Australian National University offers vacation scholarships in certain departments of the Institute of Advanced Studies during the December-February vacation period subject to adequate supervision being available. Scholarships are not given merely as vacation employment; scholars are expected to undertake a substantial piece of research work and, where applicable, some written work will be required.

Scholarships are normally offered to students who have completed not less than three years of a full-time undergraduate course. Scholarships are offered for a minimum period of eight weeks over the December-January-February period. Accommodation in a University College or Hall of Residence and all meals are paid for by the University and, in addition, scholarship holders receive a weekly allowance of $20. The University will make a contribution towards fares for the scholar's journey to and from Canberra.

Students who wish to be considered for the award of a Vacation Scholarship in 1974-75 should lodge applications with - The Academic Registrar, The Australian National University, Box 4, Post Office, CANBERRA. ACT. 2600
The closing date for applications will be Friday, 27th September. Further details are available from the Careers and Student Employment Office.

**EDDY MEMORIAL LECTURE**

Hunter Region of the W.E.A. and the Department of Community Programmes have arranged the first of what is intended to be an annual lecture series to mark the work of the late W.H.C. Eddy for Thursday, 19th September, at 8 p.m. in the Arts/Drama Theatre of the University.

The inaugural lecture will be given by the distinguished political philosopher, Eugene Kamenka, Professorial Fellow and Head of the History of Ideas Unit of the Research School of Social Sciences in the Institute of Advanced Studies, Australian National University, Canberra. Dr. Kamenka will speak on "Australian Philosophical Thought - the Impact of John Anderson".

Born in Cologne, Germany in 1928 Eugene Kamenka arrived in Australia in 1937. He later took First Class Honours in Philosophy at Sydney University under John Anderson. He gained his Ph.D. at the A.N.U. with a thesis on the ethical foundations of Marxism. He has had a distinguished academic career and has been a visiting lecturer in numerous universities in Europe, Asia, Canada, the United States and Australia, specialising in the history of modern social and political thought, of Marxism and revolutionary ideology and moral and legal issues. He is the author of several books which have been translated into a number of languages and has several forthcoming publications to be issued in the future.

The lecture is open to all and there is no charge for admission.

**PRESIDENT AS SPECIAL GUEST**

Mr. W.V. McKensey, President of The Institution of Engineers, Australia, will be special guest at the Presidential Dinner of Newcastle Division of the Institution in the Staff House on 29th August at 7.30 p.m.

**TERM DATES NEXT YEAR**

At its meeting on 7th August, Senate decided to recommend to the University Council the adoption of the following term dates for 1975:

- **First Term** (10 weeks): Commence, Monday, 3rd March, finish, Friday, 9th May.
- **Second Term** (11 weeks): Commence, Monday, 2nd June, finish, Friday, 15th August.
- **Third Term** (9 weeks): Commence, Monday, 8th September, finish, Friday, 7th November.

Lectures cease, Friday, 31st October.
Examination commence, Saturday, 8th November.

**SUCCESS OF LIQUOR LICENCE APPLICATION**

Authority was given by Newcastle Licensing Court on 13th August for liquor to be sold to members of The Union. The final licence, known as a campus permit, is conditional upon the Union installing bar facilities and furnishings and a District Licensing Inspector making an inspection. The Solicitors stated that they could not emphasise strongly enough that no liquor was to be supplied in the premises until the Court granted the final order.

**STAFF HOUSE MEETING**

The Vice-Principal (Professor A.D. Tweedie) was elected President of the Committee of the Staff House at the annual meeting on 12th August, succeeding Assoc. Professor A. Herzog who declined nomination for another term.

Mr. P. Irwin became Secretary when Mr. R.B. Taylor declined nomination for reelection and Dr. N. Rutherford succeeded Assoc. Professor W.G. McMinn who did not stand again.

Mr. J.W. Armstrong and Mr. R.N. Watterson were elected to the Committee to replace Professor K.E. Lindgren and Mr. J.D. Balfe. Mr. H. Floyer was re-elected Treasurer and Mrs. M. Rabbitt and Mr. F.C. Hawkins were reelected to the Committee.

In his report on the operations of the Staff House Professor Herzog said the year had been quite an eventful period in that the Club was successful in its appeal to the Full Bench of Licensing Magistrates. The Club had been
incorporated on 14th July, 1972, with 145 foundation members; at 30th June, 1974 the membership was 215 ordinary members and 20 associate members. He extended the Committee's thanks for the services being provided by the contract caterer, Mrs. Thredgold and for the assistance of Mr. Thredgold with the successful commencement of liquor sales.

NEW PRESIDENT OF THE UNION

Mr. R. Griffiths, a part-time student in Mechanical Engineering was elected President of the Union Board of Management to succeed Mr. J. Bennetts at the Board's meeting on 15th August. Mr. Bennetts has retained his position on the Board (as Graduate Representative) but relinquished the Presidency owing to his transfer to Sydney.

Miss Barbara Rigby, a member elected by the Students' Representative Council, was elected to the Union's Finance and House Committees and Mr. L. Galbraith was elected to the House Committee.

GENERAL MEETING

An extraordinary general meeting of students will be held in the Union Courtyard on 17th September at 1 p.m. The purpose of the meeting, which has been called by the Board of Management of the Union, is to consider the proposed increased food prices and the Board's strong recommendation that they be adopted.

VISITING PROFESSOR FROM CORNELL

Professor Robert Von Berg, of the School of Chemical Engineering, Cornell University, U.S.A., will arrive early in September to join the Department of Chemical Engineering as a Visiting Professor. He expects to stay for about a year. Professor Von Berg specialises in liquid/liquid extraction and will work in this field and talk about it to students while he is here. He has also been closely associated with the development of nuclear energy in the United States.

CALLING ALL FEMALE OFFICE STAFF

Do you feel isolated? Do you wish for the companionship of other office staff on the campus? Do you wish there was a common meeting place for the female office staff at the University?

I have been asked by more than one secretary (two, in fact!) to try to arrange something. Well ... here goes. I am calling all female office staff to gather informally over lunch (bring your own) at the Union between 12.30 and 2 p.m., on Wednesday, 4th September, the purpose of the gathering being to get to know each other a little better and to feel not so isolated as many of us do. After that, the idea is to meet every first Wednesday of the month.

The reason that I suggest the Union as the venue is because 4th September is during vacation and it will not be overcrowded. If there are any suggestions on 4th September as to a permanent venue I am sure they will be welcome (my personal suggestion would be the Oriental Cafe at Shortland).

It would be great to know that at least once a month there is somewhere that we can meet and chat. No need to let me know if you can come, just come if you can.

Joan Odgers
(Geology)

ARCHAEOLOGICAL EXCURSION

Dr. Neville Clouten, Senior Lecturer in Architecture, recently returned from an archaeological excursion to Cape York. A team of prehistorians, led by Dr. Andre Rosenfeld (A.N.U.), is currently undertaking a major research project in the archaeological excavation of the Early Man Shelter, north-east of Laura. Others in the team included Dr. Bob Layton (University College, London), and M. Michel Lorblanchet (France).

Dr. Clouten was invited to join the team in order to apply the principles of photogrammetry to the recording of both the volumetric form of rock shelters and the complex superimposition of Aboriginal paintings and engravings. His work was covered by a grant from the Australian Institute of Aboriginal Studies.
Photogrammetry is the science of taking measurements in three directions from a precise visual model obtained by the stereoscopic viewing of two photographs. Actual dimensions of the forms photographed are objectively placed on orthographic drawings of plans, elevations and sections. A Wild C40 stereometric camera was used for the photogrammetric recording at the site.

ALEVITATING "A HEALTH HAZARD"

The Health Commission of New South Wales, in conjunction with the Students' Medical Service of this University, can help you stop smoking.

Join the many people who have successfully given up smoking by their own efforts. Enrol now for our next series of group discussions conducted by a trained counsellor. There are no gimmicks - just a series of eight meetings spread over four weeks. Talking yourself out of smoking is a lot harder than talking yourself into it, but it can be done. The fee for the course is $5.

Don't put it off - phone Ext. 763 today for further information. Groups will be limited to 16 members. The first group commences on Tuesday, 10th September, from 7 to 9 p.m. Additional groups can be arranged for those interested in the stop smoking programme.

USEFULNESS OF COUNSELLING SERVICE

The University Counselling Service is conducting a survey among staff and students concerning their perceptions of its functions and usefulness. The Service is very grateful to all those who returned their surveys so promptly and thank them for their help, constructive ideas, and, most of all, their criticisms. The service plans to produce a report of the results later in the year. Any person who has not received a survey and who would like to air his or her opinions can obtain a copy from the University Counselling Service.

PHOTOGRAPHS FOR BALL

Mr. Alan Hoysted (phone 23475), whose office is at 111 Hunter Street, Newcastle took the photographs at the Ball for Graduates held in the Great Hall on 26th July and proofs can be seen at his studio.

ADVERTISEMENTS

HOUSE WANTED: Visiting Professor is looking for a 2- or 3-bedroom house, fully furnished, reasonably close to university, which he can rent for about a year; please ring Mrs. J. Ley on Ext. 489.

THESES TYPED: Mrs. G. Moore, of 5 Pacific Street, Caves Beach, (phone Mr. Ian Moore, 43 1868) is prepared to type theses and other manuscripts for between $2 and $3 an hour.

PRIVATE SALE: Weatherboard house in good condition, close to shops and university, two bedrooms, sunroom or possible third bedroom, separate lounge-dining-kitchen; the house will be sold with all curtains, blinds and floor coverings; this home has been renovated and no repairs are necessary; apply 81 Thomas Street, Wallsend, Monday to Thursday after 4.30 p.m., or Saturday after 2 p.m.

POSITIONS AVAILABLE

Office Assistant/Typist - Educational Services Administration Position No. N93/74

Applications are invited from competent typists who have obtained typing speeds of 50 words per minute minimum for the above position. Commencing salary will be up to $107.34 per week depending upon age, qualifications and experience. Efficiency allowances up to $4.99 per week can be gained by passing typing speed tests at examinations conducted by the University.

Applications close on 2nd September, 1974.

Secretary - Planner's Division Administration Position No. N94/74

Applications are invited for the above position from experienced, competent adult stenographers. The successful applicant would be directly responsible to the Acting University Planner.
Commencing salary will be up to $115.16 per week depending upon qualifications, experience and ability. Annual incremental progression to a maximum salary of $125.56 per week may be available.

Applications close on 9th September, 1974.

Faculty Secretary Faculty of Medicine Position No. N95/74

Applications are invited from University graduates with administrative experience interested in a career in tertiary educational administration for a clerical position within the Secretary's Division of the University's Administration.

The person appointed will be required to carry out the duties of Faculty Secretary to the newly established Faculty of Medicine.

The Secretary's Division is responsible for the academic administration and the provision of secretarial services to academic bodies and committees within the University. In due course it is expected that the successful applicant would be given an opportunity to get experience in other aspects of this work.

The Foundation Dean, Professor D.C. Maddison, will be joining the University at the beginning of 1975 at which time the successful applicant will be required to take up duty.

Further information may be obtained from Mr. P.D. Alexander, Secretary to the University.

Applications close on 20th September, 1974.

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

SPORTING NEWS

RUGBY

The University has done exceptionally well in all four grades this season and listed below is the standing of each team on the premiership table, with two games remaining before the semi-finals:

- **First Grade**, second (behind Maitland)
- **Second Grade**, equal leader (this weekend's game against Wanderers will determine the Minor Premiers)
- **Third Grade**, fifth (must win the last two games to make the semi-finals)
- **Fourth Grade**, fourth (certain of a berth in the minor semi-final)

Games Remaining

- **Saturday, 24th August**: all grades v. Wanderers, No. 2 Sports Ground, First grade, 3 p.m.
- **Sunday, 1st September**: all grades v. The Waratahs, University Oval, First grade, 3 p.m.

Return to First Grade

This weekend's game will see the return to First Grade of two former Newcastle representatives - John Steinmetz and Brian Atkins (John after a period of temporary retirement and Brian after a twelve week suspension).

Recent Representatives

The following University footballers recently represented Newcastle in the game, won convincingly by Newcastle, against the Australian Combined Services Team:

Ian Bowles, Dick De Tozser and Robert Wilkinson.

RUGBY LEAGUE

After an indifferent start to the season, and after being dismissed as semi-final contenders by all and sundry mid-season, the First Grade Team is now
in equal fourth position and looks a certain semi-finalist. The team has won seven out of the last eight games and the entire team is performing exceptionally well.

The Reserves Team has won six games during the season but is out of contention for a semi-final berth.

Games Remaining

Sunday, 25th August, both grades v. Hexham, University Oval, First Grade, 3 p.m., Reserve Grade, 1.30 p.m.

Sunday, 1st September, both grades v. Wests United, oval to be advised. First Grade, 3 p.m., Reserve Grade, 1.30 p.m.

GOLF

The University of Newcastle Golf Club has been re-formed under the leadership of David Mercer, who can be contacted at the Circulation Desk in the Library. Any student or staff member interested in playing occasional social golf and participating in University Open Championships and matches against other Universities, including Inter-Varsity, is invited to contact David on Ext. 248.

NON-COMPETITIVE PASTIMES AND DIVERSIONS

The following classes will be continued into Third Term, commencing during the week beginning Monday, 9th September, until student attendance dictates that they be discontinued:

Pottery - Monday and Thursday, 6.30 - 9 p.m., Metallurgy Lab.
Bridge - Tuesday, 7 - 10 p.m., Union Common Room
Tap Dancing - Day, time and venue to be advised
Yoga - Thursday, 6.30 - 7.30 p.m., Union Common Room
Ballroom Dancing - Thursday, 8 - 9 p.m., Edwards Hall

Leatherwork, Jazz Ballet and Keep Fit Classes will not be conducted during Third Term.