

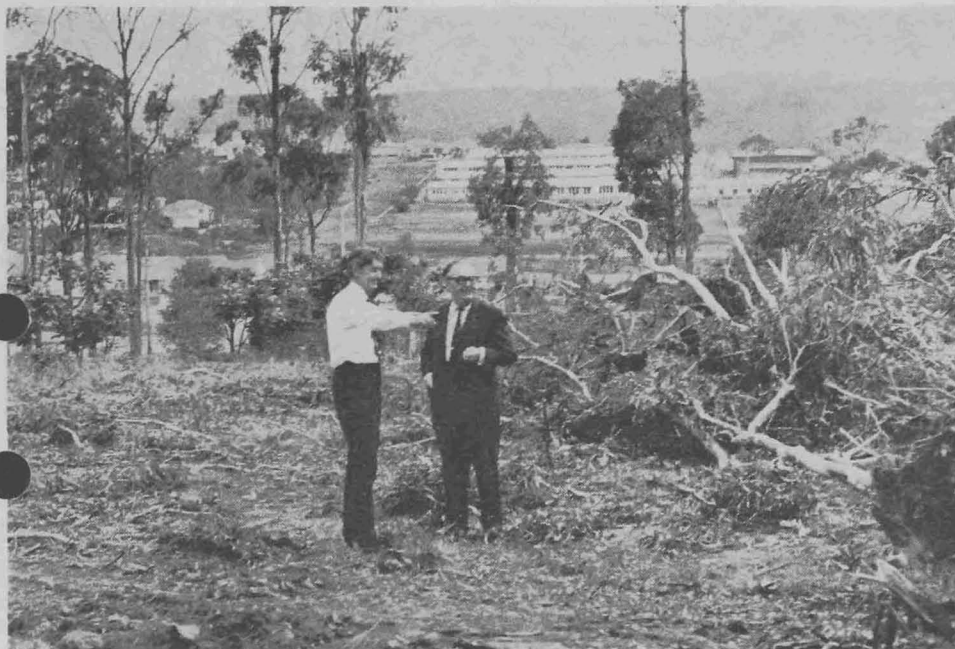


THE GAZETTE

The University of Newcastle, N.S.W., 2308

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New Buildings, including Great Hall



The University Planner (Prof. E. C. Parker) and the Vice-Chancellor at the Great Hall site.

A major building programme is under way at the University to provide expanded facilities for tuition and sport.

The year 1970 was significant in the University's life because it brought virtual consolidation of the whole of the institution at Shortland. The new Architecture Building was occupied by Professor F. Romberg and the Faculty, and the Faculty of Engineering (Professor F. Henderson, Dean) was successfully re-established. Twenty-one departments in seven faculties are now operating at Shortland, with work proceeding on the construction of new engineering classrooms and laboratories.

A contractor is working on extensions to the pavilion at University Oval. Plans are being drawn for a further stage of development for the Union building. In addition, the Staff House has become a useful meeting place for academics.

Now materialising on a central block of land is a building which will be both a conspicuous local landmark and an important university amenity. This is the Great Hall, the auditorium of which will accommodate 1,500 people. The project is valued at \$1,000,000.

Work on the construction of the Great Hall started last November and the building

may be completed in time for the ceremony at which degrees are conferred in 1972.

Also of special interest is the proposed Hall of Residence, which will provide students with living accommodation at the university rather than in hostels, private homes or boarding houses. Work has recently begun on the construction of the first stage which will cater for 200 students and be expanded in subsequent years.

The current building programme also includes the erection of a Social Sciences Building (to rehouse the Departments of Economics, Commerce and Geography), the first stage of a building for the Department of Biological Sciences and extensions for Metallurgy, Engineering and the Library.

When the Gazette went to press, work was in progress on the construction of five new buildings and the extension of the Sports Pavilion. It is expected that 12 building projects will be underway by the end of March, 1971. Work is planned so that all these buildings, except for the Great Hall, will be completed by February, 1972.

The Vice-Chancellor (Professor Auchmuty) has expressed the university's pride in what has been achieved in the six short years of independence, building upon the secure foundations of the former university college.

University Medallist

Mr. Peter Barry, 22, who has completed studies for the degree of Bachelor of Engineering, will be awarded a University Medal in Mechanical Engineering.

Mr. Barry was the only student to be chosen for a University Medal as a result of annual examinations in 1970.

He is a B.H.P. Co. Ltd. trainee and enrolled at the University in 1966. In all, he obtained four High Distinctions, six Distinctions, five Credits and one Pass as an undergraduate.

This year five students will share two new awards.

John Knott, of Merewether, and Donald Richardson, of Beresfield, will be presented with the Apollo Commemorative Prizes for meritorious work in Physics.

Three Economics and Commerce undergraduates will be awarded Australian Institute of Management Sir John Storey Memorial Prizes.

They are Mohamed Rahman, a Malaysian, Katherine Lamb, of Belmont South, and Terence Lawler, of Shortland.

The Australian Institute of Management previously made the award for research work, but has decided to make it in future to undergraduates enrolled in the Bachelor of Commerce degree course.

Mr. Rahman will be awarded Sir John Storey Memorial Prizes for both Management Studies I and Management Studies II. Miss Lamb for Industry Economics and Mr. Lawler for Labour Economics.

As regards the Apollo Commemorative Prizes, these have been made possible by the donation of \$2,300 to the University for the establishment of a capital fund from which two annual prizes of \$50 each will be awarded to students judged to be of highest merit in three stages of physics. The \$2,300 had been made available by an anonymous Newcastle donor.

The prizes are intended to honour the achievement of the American Apollo lunar landings and at the same time provide some encouragement for young people to become more involved in astronomy and space exploration. The anonymous donor has a deep interest in space flight and wishes to foster space-oriented studies at the University of Newcastle.

First Thermal Scanner in Australia

A Daedalus (or Thermal) Remote Sensing Scanner has been acquired by the Department of Physics to enable the Department to obtain "heat pictures" of stretches of terrain flown over by aircraft carrying the Scanner. It is the first equipment of this sort to be operated in Australia.

Valued at approximately \$80,000 the scanner and associated equipment employ infra-red radiation to reveal interesting data on resources and other features.

The Australian Universities Grants Committee made available \$50,000, enabling the Department of Physics to purchase the scanner last August. Financial assistance was also given by a large exploration company. The detector has to be cooled in liquid nitrogen to reduce background electrical noise.

Viewing is made downwards from a survey plane and a rotating mirror permits a viewing angle of 120 degrees. Individual heat points, as small as several feet in diameter, or even less, are recorded on an elaborate tape recorder on the plane.

On the ground, subsequent to flight, the tape record is played into an electronic unit which presents the information on a television-type tube as a series of different density points along a line. This is viewed by a continuously moving 70 mm film in a camera, and the result is a detailed "heat picture" of the area flown over.

From pictures already taken in Queensland and New Guinea interesting information has been obtained on mineral and water resources. For example, at Talasea, in New Britain, hot springs in the jungle and hot water outflows into the sea were discovered by the scanner, while the extent of sulphide ore bodies in an area in North Queensland was found to be greater than previously recorded. In the future many other matters can be investigated by the remote sensing scanner, from water pollution to ocean currents.

The University has formed a close liaison with the Queensland Aerial Survey Co. Pty. Ltd., whose survey aircraft are being used to carry the scanner's detector.

The Department of Physics is interested in improving both the scanner's instrumentation and its presentation of pictures and hopes to make the equipment available to other university departments which have field research tasks, such as, for example, Geography and Civil Engineering.

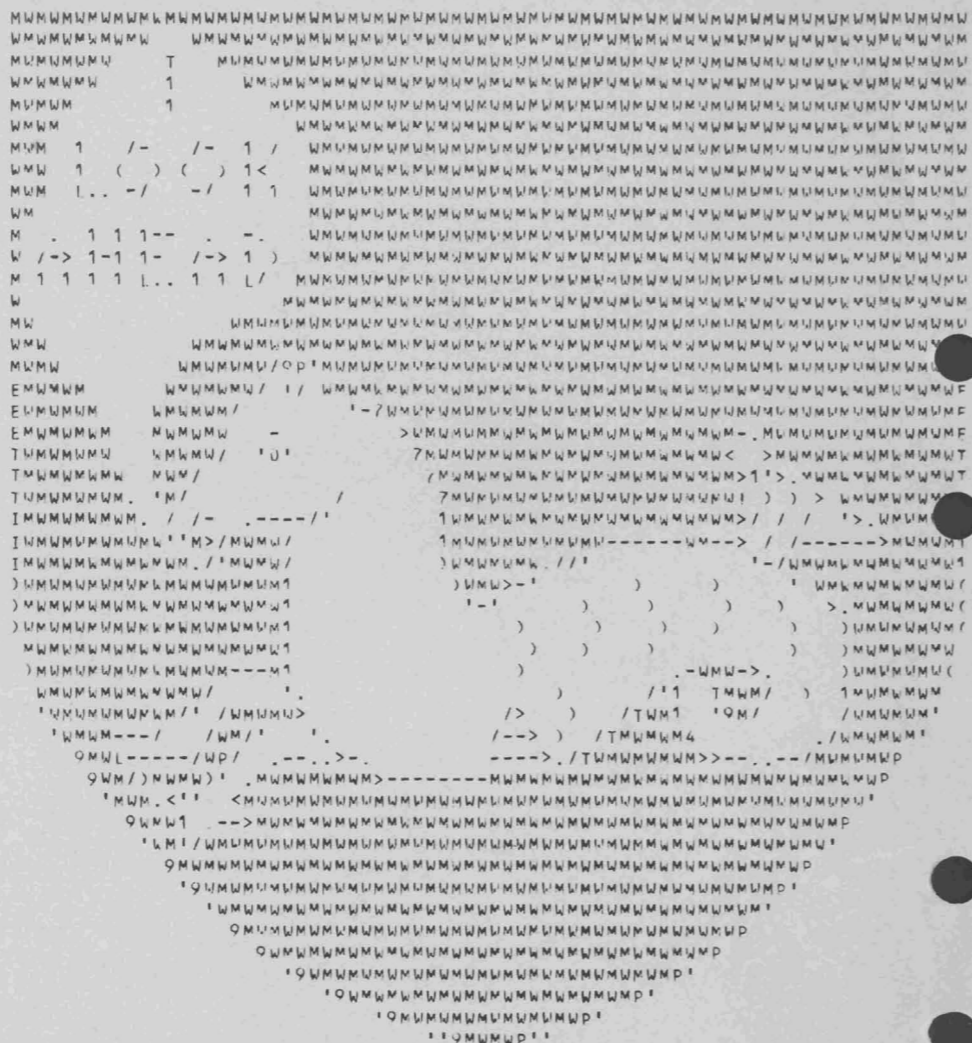
The remote sensing work is being directed by Professor C. D. Ellyett, Head of the Department of Physics, who is being assisted by a departmental team.

Larger Computer Arrives

Installation of an ICL 1904A computer was completed at the university in December, two months ahead of schedule. The machine replaced the IBM 1130 computer and was purchased with a special Government grant of \$450,000.

The ICL 1904A possesses greater power, capacity and speed than the IBM 1130. These quantities, together with the machines ability to be interrogated from outside locations via telegraph lines, will enable the university's needs as regards teaching, research, administration and book loans to be met for some years ahead.

One of the improvements to flow from the purchase of the ICL 1904A will be the



The University's coat of arms as executed by the ICL 1904A Computer, recently installed in the Computer Centre.

Faculty of Mathematics

The number of Faculties within the University has been increased to seven by the establishment, on December 1, of a Faculty of Mathematics.

Faculties of Mathematics are common overseas, but the Faculty of Mathematics in Newcastle is the first to be established at an Australian University. The central role of Mathematics in most Universities and, especially, the University of Newcastle was recognised by the Council of the University when it decided to constitute the Faculty.

The new faculty will offer several new Mathematics courses not previously available at the University; some will be available

printing everyday for the Library of a full list of books which are not on the shelves, the dates on which they are due to be returned and the numbers of the borrowers.

The university has ordered four remote terminal units, or teletypewriters, to be connected to the computer and released for use by outside institutions. Additional teletypewriters will be installed in departments around the university.

immediately and others will be introduced as the University expands.

This year courses leading to the Degree of Bachelor of Mathematics at both ordinary and honours levels and to the Degree of Master of Mathematics will be offered by the faculty.

New Courses and Subjects

A Diploma in Business Studies course, a study stream in Industrial Relations and the subjects, Linguistics and Classical Civilisation I, will be taught for the first time at the University in 1971.

The Diploma in Business Studies has evolved from the part-time course in Professional Accounting Studies which was introduced in 1968.

To be conducted by the Department of Commerce, the diploma course will be available to graduates in any discipline, subject to them meeting requisites for particular subjects. Other graduates who have acceptable alternative professional qualifications and executive experience may also be admitted to the course.

Eventually a wide range of advanced subjects will be included in the course, including studies in management, finance, marketing, system analysis, accounting, auditing, taxation, estate planning, corporate strategy and commercial applications of E.D.P.

The Industrial Relations stream will be introduced in the Bachelor of Commerce degree course and will be of particular relevance to persons contemplating careers in private industry and government service as industrial officers, or in labour organisations.

The course of studies is designed to extend over three years for a full-time student and over five years for a part-time student. On successful completion of the course those graduating will be awarded a Bachelor of Commerce degree.

Linguistics will be taught as a separate subject worth a full unit in the Arts degree pattern, rather than as a segment of a larger course within the Department of English as at present.

At first Linguistics will be a Part II subject and a prerequisite for participation in the course is a pass in at least one of the Part I language/literature courses (English, French, German, Greek, Latin and Sanskrit).

The course will be a general introduction to structural and transformational linguistics and will cover syntax, semantics and phonology.

Classical Civilisation I, extending over one academic year, will be added to the schedule of subjects offered for the degree of Bachelor of Arts. The subject will be available to students enrolled in the Faculty of Arts, except those who are enrolling or who have passed either Latin I or Greek I.

First term of the course will be devoted to a survey of ancient history and thought.

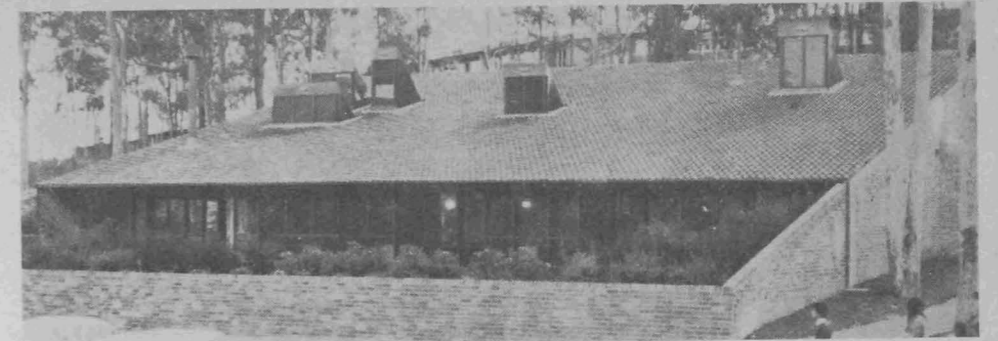
The second term will deal with Greek literature in translation and the third term with Latin literature in translation.

School-University Meeting

Principals of Newcastle high schools met with members of the University Senate on October 21 and discussed matters of interest to school students who want to enrol at the university.

The principals were told about the university's building programme, new courses, the university's policy on admissions and other matters.

The Past Deputy Chairman of Senate (Professor E. O. Hall), who welcomed the principals, said the university was happy to see schools making increasing use of the university. An example of this was the use being made by senior school students of the Library at weekends.



The Staff House

Award for Staff House

The Blacket Award for architecture was won by the architects, Ancher, Mortlock, Murray and Woolley for their design of the Staff House. Ancher, Mortlock, Murray and Woolley designed the Union building and the Great Hall.

The Vice-Principal, Professor B. Newton-John, was presented with a plaque commemorating the award to the Staff House at the Annual Convention of the Country Division of the New South Wales Chapter of the Royal Australian Institute of Architects held at Port Macquarie in October.

Young Children's Education

More than 200 delegates attended a two-day conference on Preschool Education, arranged by the Department of Education, in November, 1970.

Those attending included administrators and teachers in infants' departments of public and church schools, together with directors of preschool centres in the Hunter Valley area.

The aims of the conference were to provide information on the role of the pre-school kindergarten and to explore the possibility of liaison between the pre-school centre and the infants department.

The conference aroused such wide interest amongst those concerned with young children's education that the proceedings have been published. The book is available from the Cashier, University of Newcastle, 2308, for 75 cents.

V.C. Re-elected Chairman

The Vice-Chancellor has been reappointed Chairman of the Australian Vice-Chancellors' Committee for a further year in 1971. Professor Auchmuty had been Chairman in 1969 and 1970.

He has recently completed an account of the first 50 years' activities of the Vice-Chancellors' Committee to commemorate the committee's jubilee in 1970. This account will be published in the "Australian University" in the near future.

Last October the Vice-Chancellor led an Australian education mission to Fiji and New Zealand.

Promotions

At its meeting on November 20 the Council

of the University approved of the following promotions:—

Dr. N. R. Cattell to Associate Professor in the Department of English; Mr. W. G. McMinn to Associate Professor in the Department of History; Mr. W. A. Oates to Associate Professor in the Department of Metallurgy; Dr. J. A. Ramsey to Associate Professor in the Department of Physics.

The following Lecturers have been promoted to Senior Lecturer grade:—

Miss R. Beare, M.A. (Cantab.), Department of Classics; Mr. E. J. Burke, B.Com(N.S.W.), A.A.S.A., Department of Commerce; Dr. D. W. Dockrill, B.A.(Syd.), Ph.D.(A.N.U.), Department of Philosophy; Dr. G. S. Halford, M.A.(N.E.), Ph.D., Department of Psychology; Mr. N. A. Molloy, B. E. (Qld.), Department of Metallurgy, and Dr. N. Rutherford, B.A.(N.S.W.), Ph.D. (A.N.U.), Department of History.

Patterns in Australian Foreign Policy

Dr. E. M. Andrews, a Lecturer in History at the University, has kindly written this article, condensing material from his book, *Isolationism and Appeasement in Australia, Reactions to the European Crises, 1935-1939*, published last year by ANU Press.

A comparison of Australian foreign policies in the late 1930's and the late 1960's reveals many striking similarities. In both periods, the basic assumption of Australians was that they could not defend themselves or their vast empty continent, and so had to seek the support of some 'great and powerful ally' — to use Sir Robert Menzies' words. In the 1930's it was Britain; more recently America. Joe Lyons, Australian Prime Minister in the late thirties, urged Australians to 'Tune In with Britain'; the late Harold Holt went 'All the Way with L.B.J.'; Prime Minister Gorton has offered to 'go a Waltzing Matilda' with President Nixon. The words change, but the idea remains the same — unswerving loyalty to one's chosen ally, irrespective of his policies. Lord Atlee's remark, that one can have 'alliance without subservience', still does not seem to have been understood by Australian politicians.

In both periods too, the Australian government followed its allies' policies with more

apparent fervour than the ally did. In the early period it was appeasement that the Australian government urged strongly upon Chamberlain; more recently a 'hawkish' stand on Vietnam. The motives, however, are similar. On both occasions the Australian government wanted self protection; hence it wanted appeasement in Europe to prevent Britain being involved in that continent, and America deeply involved in South East Asia, so making Australia part of her defence planning. On both occasions, also, a deep suspicion of communism seems to have been a basic motive of the Australian government. Also on both occasions, the logic and wisdom of the ally's policy has been strongly criticised in the community, and the government has shut its ears to all arguments and resorted instead to suppression of information and criticism. In the 1930's the 'Watchman', an ABC radio commentator who criticised the government, was censored and then sent to report on bush fires (instead of commenting on the aftermath of Munich). In the 1960's the television programme 'People' was ended, and others, Four Corners and This Day Tonight, brought under pressure.

The community attitudes that form a background to these events remains similar also. Australians in the past, and today, though they are changing gradually, are not vitally interested in foreign events, and the coverage of them in the newspapers is scanty. Little background information is given, until a sudden crisis occurs, and the readers find the places and the issues unfamiliar, and somehow irrelevant. The difference with the Vietnam war is that a large number of young people, by virtue of the call-up, do for the first time feel personally involved. This is unusual.

Groups in the community do not seem to have changed much either. The Australian Labor Party, then as now, follows a somewhat equivocal line on foreign policy. In the thirties it was effected by a large minority of Catholics in its ranks, whose Church newspapers and spokesmen quietly defended Mussolini's invasion of Abyssinia, and vehemently supported the Spanish Nationalist generals under Franco during the Spanish civil war. Since the rest of the left wing supported Republican Spain, the Labor Party was split from top to bottom, and stuck to its old policy of isolationism (now renamed, more grandly 'fortress Australia'). The ALP accordingly provided no focus of political opposition to appeasement; instead it declared that the whole crisis was of no concern to Australia, which in any case should not be involved. The prime motive of the Catholics in the ALP was, of course, anti-communism, and it was this that made them hesitate to criticise Hitler. More recently, the cession of the DLP on an anti-communist pro-Vietnam and rearmament ticket—has simplified ALP problems slightly, but the party still does not really know what it wants in foreign affairs, and instead of carefully

assessing the international situation, seeks political phrases that do not offend too large a segment of the population.

Other sectors follow a similar pattern. The RSL, as then, supports a 'strong' policy; the Communist Party is as hopeless as ever. It followed Russian policy slavishly in the thirties; today it has become more independent, but at the same time more ineffectual. Only a dreamer would consider that a revolutionary situation existed in Australia; even if the Australian Communist Party knew what to do with a revolution if it found one offered to it.

Quite clearly, the apathy towards foreign affairs among the general public, and widespread acceptance of conservative policies, has meant that the government can avoid rethinking the whole basis of Australian foreign policy. Moreover, since there is in fact no urgent threat to Australian security, or likely to be one in the near future (say, ten years), the government and people can avoid such troublesome irrelevencies, and drift along pursuing the old chaotic policies. (For example, the urgent crisis that made it imperative for Australia to buy the F111, just before election time, has—fortunately for us—not yet materialised.

Another example was provided in October of last year, when Cabinet rejected the Minister for Defence's suggested unification of the three Australian armed services—a policy adopted by Canada, with obvious benefits some time previously).

Instead, there seems a general assumption that no alternative policy is possible. In fact, logically, any country has three possibilities: isolationism (or neutrality); support for international organisations such as the United Nations; or alliances. These, of



University medallist Peter Barry being congratulated by the Vice-Chancellor. (See P. 1)

course, are not all mutually exclusive. Australian governments have adopted almost solely the third—being tied in power blocs, and supporting without demur the policies of great allies. The second possible policy, leaning on a revived international organisation, occurred only once, after 1945, under the Labor leader, H. V. Evatt. For the rest of the time Australians have shown little international idealism, and contented themselves with making sneering remarks at the League, and later the United Nations. As for isolationism and neutrality, the former is a more unthinking and a 'head in the sand' attitude than the latter. A neutral, as Sweden proves, can be intensely concerned in international events, and give more aid abroad than Australia. However, she declines to join major power groupings. Such a policy, to be sound, needs a fairly secure geographical position or a local balance of power. In this matter, Australia is much better off than Sweden. Neutrality also demands a higher rate of rearmament than Australia has been accustomed to. These are complicated matters, but there seems to have been little thought devoted to them. A few brave academics, such as Max Teichmann¹, have raised the issues, but there has been a stony silence from government sources.

They appear to regard such a policy as not worth serious consideration. The recent hesitations and evasions over the nuclear non-proliferation treaty are a case in point. It seems high time that the Australian government and people broke away from the patterns of the past, and coolly reconsidered the bases of their foreign policies.

¹ Chapters in M. Teichmann (ed) *Aspects of Australia's Defence*, and *New Directions in Australian Foreign Policy*.

New Members of the Academic Staff

Dr. I. F. Eckhard has taken up his appointment as Post-Doctoral Fellow working on the Geigy project under the direction of Professors J. A. Allen and L. A. Summers. Mr. P. J. C. Stanton, M.A.Dip.Ed. (Syd.), took up his appointment as Senior Tutor in Economics on August 26.

Dr. Hilary H. Purves commenced duty as a Lecturer in German on September 5. A Master of Arts in the University of Otago and a Doctor of Philosophy in the University of London, Dr. Purves was previously a Teaching Fellow at Monash University, a Lektor Engliches at the University of Münster, Germany and Assistant German Mistress at the Charles Edward Brooke School in London.

A 1966 Honours Graduate in Civil Engineering, Mr. A. W. Page, took up his appointment as Lecturer in Civil Engineering on September 14. He was previously employed in private industry in Australia and Canada and as a Lecturer in Civil Engineering in the Cambrian College of Applied Arts and Technology, Sudbury, Ontario, Canada.

Mr. Y. L. Yousef, a Bachelor of Commerce in the University of Cairo and a Master of Business Administration in the University of New York, took up his appointment as Senior Tutor in Commerce on October 1. Mr. Yousef was a Teacher of Accounting and Management in the High Institute of Commerce, Cairo, was employed in private practice in New York and was a Teacher of Commercial Subjects with the N.S.W. Department of Education and Science.

Dr. D. D. S. Karamachetty, B.E.(And.), M. Tech., Ph.D.(Laragapur), A.M.ASME, A.M.I.E. (I), Memb. Comb. Inst. (I), has been appointed a Lecturer in Mechanical Engineering from August 1. He was previously a Senior Tutor.

Mrs. J. R. S. Wallis, B.Sc.(N.S.W.), M.Sc. (La Trobe), took up her appointment as Lecturer in Mathematics on July 26. She was previously a Lecturer at the Canberra College of Advanced Education and La Trobe University.

Mr. J. W. Lloyd, B.Sc., began duty on July 27 as Tutor in Mathematics. He graduated in 1968 and was attached to the University of Illinois as a Teaching Assistant from September, 1969 to June, 1970.

Mr. B. E. Hazell, M.A.(Syd.), took up his appointment as Student Counsellor on July 20. He was previously Staff Psychologist at Royal Prince Alfred Hospital.

Mr. J. M. Heuzenroeder, M.A., Dip.Ed. (Adel.), Dip.Mus.(Qld.), has taken up his appointment as Lecturer in English. He was previously a Lecturer in the James Cook University of North Queensland.

Mrs. G. V. MacNeill took up her appointment as Lecturer in Linguistics in the Faculty of Arts on November 16. A Master of Arts in the University of Otago, Mrs. MacNeill was a Tutor and then a Lecturer in English in that University before joining



The former Deputy Chairman of the Senate (Prof. E. O. Hall) welcomed the Principal of Newcastle Girls' High School (Mrs. O. V. Wells), and the President of the Newcastle Principals' Association (Mr. L. T. Richardson) and other principals of high schools when members of Senate and the principals conferred at the university. (See P. 3)

Wollongong University College in 1964 as Lecturer in English and Head of the Department of English.

Mr. F. L. Clarke has been appointed Senior Lecturer in Civil Engineering. Mr. Clarke was a Lecturer with the Department of Surveying at the University of N.S.W. from 1963 to 1970. He graduated from the University of N.S.W. as a Bachelor of Surveying with first class honours and the University Medal.

Resignations

Mr. J. K. Winsen, B.Com., A.A.S.A., went to Ohio State University, U.S.A., last August to study for a Ph.D. in Commerce. He graduated with First Class Honours in 1968, and completed his Master's thesis. Mr. Winsen was a Senior Tutor in Commerce before going to America.

Mr. A. C. W. Sparkes, B.A.(Qld. and Lond), M.A.(N.S.W.), has been appointed a Lecturer in the University of Papua and New Guinea. He was previously Senior Tutor in Philosophy.

Mr. G. Hughes, B.A. (Melb.), resigned as Lecturer in German on December 31.

Mr. I. R. Carlin, B.A., resigned as Tutor in History on January 18.

Convocation

The Third Convocation Dinner, held in the Union on September 4, was attended by 63 members, who heard an address given by Dr. B. Davidson, of the Department of

Agricultural Economics, University of Sydney, on "Australia, Wet or Dry".

Convocation's second meeting for 1970 was a Wine and Cheese Evening held in the Staff House on November 18. Mr. D. Morris, Manager of Tulloch's Vineyard, Pokolbin, spoke on "Grape Growing and Wine Making". The success of the evening influenced the Standing Committee to arrange an inspection of Tulloch's Vineyard for members next April.

Members were asked whether or not they favoured the introduction of a contributory membership scheme based on an annual fee of \$3 a member. A majority of 172 replies answered in the affirmative. The purpose of the contributory membership scheme is to make Convocation more active as regards lectures and social functions.

The Treasurer of the Standing Committee of Convocation (Mr. R. Faraday) expects to go overseas in February and his position will be filled by Associate Professor C. S. L. Keay until the meeting of the Committee next May.

At the inaugural meeting of the Newcastle Co-ordinating Committee for Overseas Students on December 2, Convocation was given a place as a foundation member.

Mr. E. J. Buckman has agreed to direct arrangements for the Graduation Ball at the City Hall on March 19. Tickets for the ball and a loge plan are available at the Union.

Graduate Conference

The Warden of Convocation (Mr. J. Talty), who is Past Executive Vice-president of the Australian University Graduate Conference, with the Secretary (Miss M. Kane) and Mr. W. Derkenne attended the Annual Meeting of the Conference in International House, University of Sydney, on the Anniversary Day weekend.

The conference admitted to full voting rights the Australian Federation of University Women and the Australian National University.

An appeal was made to the 100,000 graduates in Australia to take an active interest in the affairs of their own University. They were specially urged to concern themselves with ensuring the continuation of the Universities' autonomy and independence.

The Conference expressed its grave concern at the further deterioration in the finances of the Australian universities. Increasing capital costs and the effects of increases in salaries for non-academic staff have placed severe strains on University budgets. Universities can only train students at maximum efficiency if they receive adequate financial help.

A seminar will be held in Canberra later in 1971 on "Continuing Education for Graduates", dealing with the need for retraining courses for graduates. The conference stated that it believed a vital need existed for this training so graduates would be kept up to date with developments in their fields. Additionally, it would broaden their knowledge, increasing their effectiveness to society.

The next Conference will be held at the University of Tasmania in January, 1972. The Conference elected the following people to its executive:

President, Mr. R. A. Corin, University of New South Wales; Vice-Presidents, Miss A. Holzer, Monash University, Miss J. E. Rogerson, University of Western Australia; Executive Secretary, Mr. A. Mason, University of Sydney.

Officers were also appointed to the following positions:

Education Officer, Mr. Michael Lynch, Monash University; Travel Officer, Dr. Ian Ernst, University of New South Wales; Identity Card Officer, Mr. Warren Derkenne, University of Newcastle; WUS Representative, Mrs. W. Roper, University of New South Wales; Publications Officer, Mr. D. Nielson and Miss T. Dolenty, University of New South Wales; International Liaison Officer, Miss A. Holzer, Monash University; Careers Officer, Dr. W. Schnieder, University of Adelaide.

Academic Posts

As a result of the biennial election of Senior Academic officers the following persons will occupy positions for two years from January 1, 1971:

Deputy Chairman of Senate, Professor L. N. Short, M.Sc., (Syd.), D.Phil. (Oxon.), Dip.Ed. (Syd.), M.A.C.E., Professor of Education.

Faculty of Applied Science: Dean, Professor E. O. Hall, M.Sc.(N.Z.), Ph.D. (Cantab.), F.Inst.P., M.Aus. I.M.M., F.I.M. (Lond.), F.A.I.P.; Sub-Dean, Associate Professor C. G. H. Cooke, M.Sc. (N.S.W.), A.S.T.C., A.I.M.(Lond.), M.Aus. I.M.M.

Faculty of Architecture: Dean, Professor F. Romberg, Dipl. Arch. (E.T.H. Zurich), L.F.R.A.I.A.; Sub-Dean, Mr. R. Deamer, A.S.T.C., F.R.A.I.A.

Faculty of Arts: Dean, Professor A. M. Ritchie, M.A. (Syd.), Ph.D. (Lond.); Sub-Dean, Mr. E. J. Braggett, B.A. (N.E.), M.A. (N.S.W.), M.Ed. (Syd.), Dip.Ed. (N.E.), M.A.Ps.S., M.A.C.E.

Faculty of Economics and Commerce: Dean, Professor B. L. Johns, M.A.(Cantab.); Sub-Dean, Mr. D. J. McKee, B.Ec. (Syd.), A.A.S.A.

Faculty of Engineering: Dean, Professor, F. M. Henderson, M.Sc., B.E. (N.Z.), M.I.C.E., M.A.S.C.E.

Faculty of Mathematics: Dean, Professor R. G. Keats, B.Sc., Ph.D. (Adel.), F.A.S.A.; Sub-Dean, Associate Professor I. L. Rose, B.E. (Syd.), Ph.D. (N.S.W.).

Faculty of Science: Dean, Professor W. F. J. Pickering, M.Sc., Ph.D. (N.S.W.), A.S.T.C., F.R.A.C.I.; Sub-Dean, Dr. K. H. Bell, B.Sc., Ph.D. (N.S.W.), A.R.A.C.I.

Academic Dress Available

A limited shipment of academic dress, tailored to the regulations of the University of Newcastle, has been imported from England by the Union for sale to graduands and graduates. The dress can be purchased from the Union Shop.

Stocks of Bachelor's, Master's and Doctor of Philosophy dress are available. It is considered that the number of items in some degrees might not meet the demand, so enquiries should be made early. If necessary, items of dress may be reserved by the payment of deposits.

The Union will also hire academic dress to members. Stocks are limited and bookings for dress to be worn on Graduation Day, March 19, should be made as early as possible. Deposits are required at the time of booking.

Graduands wanting to hire dress must be able to name the degree they will receive. The Union accepts no responsibility for members who name the incorrect degree. It will not undertake to rectify errors at a later date.

Further information can only be obtained from the shop (hours 9 a.m.-1.30 p.m., 2 p.m.-5.30 p.m., Mondays to Fridays, telephone 68 3717).

Graduation Ball

A loge plan and tickets for this year's Graduation Ball in the City Hall on March 19 are available at the Union. Tickets cost \$5.00 each; supper and refreshments are included in this charge.

The ball will subdivide into two sections—the Main Hall, where the band of Gordon Favell will play, and the Supper Room, where music will be provided by the Har-

bourside Six. Dancing will commence at 8.30 p.m. and terminate at 1.30 a.m. The Graduation Waltz will be danced at 10 p.m. Tickets can only be obtained for cash. Loges accommodate 16 people and 10 tickets must be bought before a separate loge can be reserved. The sale of tickets will be watched closely so graduands do not miss the opportunity to attend the ball. No charge will be made for admission to the Gallery overlooking the Main Hall. The sale of tickets will stop at midday on March 19.

Three-day Mathematics School

About 200 High School students enrolled for the Mathematics Summer School held at the University from January 27 to 29.

It was the third staged by Newcastle Mathematics Association; students from high schools in Newcastle and the Hunter Valley, including Gloucester, Taree, Muswellbrook and Wingham High Schools, attended. Accommodation in Newcastle was arranged for students coming from centres a long way from Newcastle.

The course for the Summer School was specially selected with a view to assisting and encouraging students who entered sixth form this year and are studying first or second level Mathematics. They received tuition in certain areas of modern mathematics that are not normally included in the curriculum.

Attendance was restricted to the capacity of the main lecture theatre at the University (210) and lunches were provided in the Union.

The students were taken on a conducted tour of the University on the last day of the school.

Professor A. F. Horadam, of the University of New England, who is a noted Geometer and Author of Mathematics text books, was visiting lecturer for the summer school. Other lecturers included Dr. W. Wallis and Mr. R. F. Berghout, of the Faculty of Mathematics at the University.

A feature of the school was the tuition given in the use of the university's ICL 1904A computer.

About 20 people, most of whom are Mathematics teachers at secondary schools, acted as tutors. Dr. J. R. Giles, of the Faculty of Mathematics at the University of Newcastle, was Director of the Summer School and Mr. B. Donegan of Newcastle Boys' High School, was Organiser.

University News

Thea Hopson (Economics and Commerce student) and **Bill Dowe** (Engineering student) were selected to join a team of 24 Australian students for a working and touring holiday in Britain in the long vacation. Eight students from universities in N.S.W. were chosen.

The tour of Britain was arranged by the National Union of Australian University Students and the English Speaking Union. The students left Australia on December 11 and will return on February 27. Every one

of the students will work in Britain for about two months.

Mr. J. A. Davidson, a Postgraduate student in the Department of Psychology, has been appointed Lecturer in Psychology in the University of Tasmania.

Mr. B. B. Callaghan, C.B.E., a member of the University Council, has been appointed Chairman of the Board of the Australian European Finance Corporation Limited. The Corporation was formed earlier this year by Commonwealth Trading Bank of Australia and four of the largest banks in Europe.

Dr. R. H. Eather, a Science graduate of the University with Honours Class I in Physics and now an Experimental Physicist at Boston College, Massachusetts, has been awarded the Polar Star Medal by Queen Elizabeth for outstanding service as a member of an Australian Antarctic Research Expedition. The award is for a notable contribution to exploration in Polar regions and was presented in Washington by the Australian Ambassador to the United States (Sir James Simsoll). The Polar Star Medal, originally a British award granted in recognition of service on specified expeditions dating from 1818, is now awarded on the recommendations of the British, Australian and New Zealand Governments.

Mr. G. B. Smith, who graduated from the University in 1967 with Honours Class I in Physics, has gained his Doctorate in Philosophy from the Australian National University.

At the Annual English Society Dinner on November 27 the **Talbot Prize**, donated by Dr. Norman Talbot, was awarded for the first time. The prize is awarded for the best poem in a specified mode or form, read at the dinner and written by a guest. The first award was made for an epitaph, and was won by **Mr. Richard Harland**, a postgraduate student in the department, with an epitaph on Emily Bronte.

Mr. L. G. Gore, a graduate of the Chemical Engineering Department of Newcastle University College, and a current candidate for the degree of Master of Engineering Science, has been promoted to take charge of the project design group preparing for the new Victorian plant of John Lysaght Pty. Ltd.

Mr. A. R. Hair, an Honours graduate who is just completing his Master's thesis in Chemical Engineering, expected to take up a scholarship for Ph.D. work in the University of New South Wales in January.

Miss Rosalyn Holgate has been appointed Psychologist at the Stockton Mental Hospital. She completed her Honours degree in 1970.

Mr. J. Geraghty, Secretary, of the University Athletics Club, has been chosen by the Australian University Sports Association as selector for the Combined Australian Universities Athletics team to tour New Zealand in March 1971.

Mr. J. L. Seggie, a Senior Lecturer in Psychology at Mitchell College of Advanced Education, has been appointed a Lecturer in



Prof. A. Horadam, of the University of New England, was visiting lecturer for the Mathematics Summer School held at the university.

the University of New England. Mr. Seggie graduated from the University in 1968 as a Bachelor of Arts with Honours Class I in Psychology and the University Medal. **Mr. John Crawford**, an early graduate in Chemical Engineering from Newcastle University College, has begun duties as manager of Koppers Australia Pty. Ltd.

Mrs. J. Solomon, a Master of Education student taking the Young Children's Education course, has been appointed a Lecturer in Education at Perth Kindergarten Teacher's College. Mrs. Solomon graduated from Newcastle University College in 1963 as a Bachelor of Arts.

University News, the University's internal newspaper, begun publication on September 10.

The University of Newcastle Students' Association, in association with NBN Channel 3 and the Newcastle City Council, held an **Art Exhibition** in the University Union from September 18 to 25. Mr. David Strachan, a former Wynne prize winner, judged the 250 entries. The Vice-Principal, (Professor B. Newton-John), opened the exhibition.

Euripides' **"Bacchae"** was performed in the University Courtyard on September 16, 17 and 18. Mr. I. A. Allan, Lecturer in Classics, produced the play for the Student Players.

Mr. Philip J. Thomson, who graduated from the University in 1962 as a Bachelor of Arts with First Class Honours in German, has been awarded a Doctorate in Philosophy by Monash University, where he is a Lecturer in German. Mr. Thomson also holds the degree of Master of Arts in the University of Melbourne.

Mr. P. N. Chopra, B.Sc. (Benares), B.A., Dip. Ed. (A.N.U.), Senior Lecturer in Education was elected Secretary of the Newcastle University Staff Association, and to the Executive at the annual general meeting of the Federation of Australia University Staff Associations in Hobart.

Mrs. H. M. Turner, M.A., Dip.Ed. (Syd.), a member of the University Council, donated sixty-three items to the Library, including five lectures on Shakespeare by Bernhard Ten Brink.

Mr. R. G. Corlis, a 1966 Bachelor of Engineering with Honours Class II Division ii in Chemical Engineering, has been awarded the degree of Doctor of Philosophy by the University of Toronto.

Dr. Sumeth Vongpanitlerd now holds the position of Director of the Multidisciplinary Laboratories at the Mahidol University, Bangkok. He is a Master of Engineering and a Doctor of Philosophy in this University.

Mr. P. Cornish, a 1962 B.A. graduate, is teaching at Christ's Hospital School, Hove, Sussex, England. He was an English and History teacher at Shore before going to England.

Mr. J. Turnbull, who received his B.A. degree in 1968, is distinguishing himself as a Producer of drama for Newcastle audiences. He first worked as an actor in amateur theatre, including the Student Players, but is now closely associated as a Producer, with Novama, a dramatic group which performs at Blackall House. Mr. Turnbull received acclaim from Theatre enthusiasts for his unconventional staging of "Macbeth" last year.

Mr. J. G. Robertson, a 1970 B.A. with Second class honours in Geography, has left for England where Mr. Robertson will study for his Ph.D. at Hull University.

Mr. T. A. Farrelly, currently working as a journalist for the "Sun", a large English newspaper with offices in Fleet Street, London, has had another book published by Rigbys Ltd., of Adelaide. He worked on the book, "New Frontiers", a semi-documentary account of Australian development in the 70's, with Newcastle photographer Mr. R. Morrison. Mr. Farrelly graduated as a B.A. in 1966.



The new Faculty of Architecture building

Mr. R. E. Hedge, who graduated as a Bachelor of Arts in the University of New England while a student in the Newcastle University College in 1959, and graduated Bachelor of Arts with honours at graduation in Indonesian and Malayan Studies in the University of Sydney last year, has been notified of his admission to the degree of Master of Science in Communication in Boston University, U.S.A. He is at present the A.B.C.'s Representative in Djakarta.

Mr. P. W. Whitford, who graduated with first class honours in Civil Engineering and a University medal in 1966, is working for the World Bank in Washington D.C., U.S.A.

Mr. S. J. Burges is an Assistant Professor at the University of Washington, Seattle, U.S.A. He is a B.E. and B.Sc., with first class honours in Civil Engineering.

Both Mr. Whitford and Mr. Burges obtained Master's and Ph.D. degrees at Stanford University, California.

Mr. W. P. Driscoll, a 1957 graduate of the university, has been appointed a Lecturer in History at Armidale Teachers' College. Formerly a high school teacher at Cessnock and Wauchope, Mr. Driscoll qualified for admission to the degree of Master of Arts with a thesis on "The Development of the Wine Industry in the Hunter Valley". He is the author of a Local History monograph which deals with the beginnings of the wine industry in the Hunter Valley and which was published by Newcastle City Council.

Sporting News

A **University of Newcastle Staff** team defeated the Staff of the University of New England at Armidale on October 31. The teams were all square at the conclusion of the match — for the third time in five years of competition between the universities — but Associate Professor A. Oates sealed the match for Newcastle at the third hole in a play-off.

Mr. Alwyn Wardle, a member of the Fencing Club, was a member of the Combined Australian Universities Team which competed at Universiade in Turin, Italy, last



Dr. Robin Boyd, noted architect and writer on architecture, the Dean of the Faculty of Architecture (Prof. F. Romberg) and the Chairman of the N.S.W. Board of Architect's Committee (Mr. O. Jarvis) at the opening of the Architecture building on November 13.

September. Mr. H. Bradford, Amenities Officer, was Assistant Manager of the team. Mr. Wardle has been selected in the Australian Fencing squad for the 1972 Olympic Games.

At the **University Rugby League Club's** first annual presentation night on October 12 trophies were presented to:—

Alan Piercy (The John Raper Perpetual Trophy for best forward in First Grade), John Wondergem (The Bob Bugden Perpetual Trophy for best back in First Grade), Peter Thomson (most improved player in First Grade), Chris Berkeley (best forward in University Cup), Neil Booth (best back in University Cup), Ken Gray (most improved player in University Cup) and Bruce Cruicks (Clubman Award, presented by Doug Cross).

The University's No. 1 **Women's Basketball** team won the grand-final of the C Grade international rules winter competition and, as a result, has been elevated to A Reserve Grade. Coached by Mr. R. Baker the team

consists of Linda Mortimer, Bev Kennedy, Renate Bickley, Sue Richards, Mila Yates, Sue Markham, Marilyn Barnes, Sandra Young and Sue Abbott.

The University's **Women's Squash** team won the C Grade competition conducted by Newcastle Squash association. The team consists of Lee Rynehart, Claire Sidebottom, Carolyn Cranfield, Bess Burns and Margaret Cook. **Blues** will be awarded to Bruce Devin, Darryl Williamson and Keith Brown (all Rugby), Alison Smith (Badminton), David Lai (Table Tennis), Virginia Green (Tennis), Alwyn Wardle (Fencing) and Cliff Hanna (Squash).

Ten Universities competed in the **Inter-university Underwater Contest** at Port Stephens on December 4, 5 and 6, for which the University of Newcastle was host. About 100 students participated in the contest, with the University of Newcastle narrowly winning the aggregate. The Vice-Chancellor (Professor Auchmuty) presented trophies and prizes at a dinner at the end of the contest.