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REPORT OF THE COUNCIL FOR THE PERIOD
1 JANUARY 1965 TO 31 DECEMBER 1965


MAY IT PLEASE YOUR EXCELLENCY:

I have the honour to transmit to Your Excellency the Report of the Council of The Australian National University for the period from 1 January 1965 to 31 December 1965 furnished in compliance with Section 33 of the Australian National University Act 1946–1965.

H. C. COOMBS
Pro-Chancellor
The Council

The Council met five times during the year in February, April, July, September and November. The Chancellor presided over the meeting in April. Dr H. C. Coombs, Pro-Chancellor, presided over meetings in February, July and November. In the Pro-Chancellor's absence Mr N. L. Cowper was elected to preside over the meeting in September.

The term of office of the Chancellor, Sir John Cockcroft, expired on 31 July 1965. Lord Florey of Adelaide was elected to hold office for two years from 1 August 1965.

The terms of office of the following members expired on the dates shown:

Members chosen or elected: Mr J. S. Hagan; Professor J. C. Jaeger*; Professor J. E. Richardson and Mr S. C. Yocklunn*—29 September 1965.

Members elected by the Senate: Senator K. A. Laught* and Senator Dorothy M. Tangney*—30 June 1965.

The following resignations from the Council were accepted by the Council from the dates mentioned: Professor N. G. Butlin from 2 September 1965; Professor R. St C. Johnson from 15 November 1965 and Dr J. A. Clegg from 30 November 1965.

MEMBERS OF THE COUNCIL AS AT 31 DECEMBER 1965

MEMBERS EX-OFFICIO


Herbert Burton, C.B.E., B.A.(Q'ld), M.A.(Oxon. and Melb.)—The Principal of the School of General Studies; retired 31 December 1965.

Percy Herbert Partridge, M.A.(Syd.)—The Deputy Chairman of the Board of the Institute of Advanced Studies.

MEMBERS ELECTED BY THE SENATE

Keith Alexander Laught, LL.B.(Adel.).
Elected 1 July 1959; re-elected 1 July 1962 and 1 July 1965; present tenure expires 30 June 1968.

Dorothy Margaret Tangney, B.A., Dip.Ed.(W.Aust.).
Elected 13 July 1951; re-elected 1 July 1953, 1 July 1955, 1 July 1957, 1 July 1959, 1 July 1962 and 1 July 1965; present tenure expires 30 June 1968.

* Re-appointed or re-elected.
MEMBERS ELECTED BY THE HOUSE OF REPRESENTATIVES

Kim Edward Beazley, B.A.(W.Aust.).
Became member of Interim Council 10 June 1949; elected to Council by House of Representatives 13 July 1951; re-elected 1 July 1953, 1 July 1955, 13 June 1956, 1 July 1958, 8 September 1960 and 3 March 1964; present tenure expires 2 March 1967.

John Malcolm Fraser, M.A.(Oxon.).
Elected 3 March 1964; present tenure expires 2 March 1967.

MEMBERS APPOINTED BY GOVERNOR-GENERAL

Norman Lethbridge Cowper, C.B.E., B.A., LL.B.(Syd.).
Appointed 1 July 1955; re-appointed 1 July 1958, 30 September 1960 and 30 September 1963; present tenure expires 29 September 1966.

John Qualtrough Ewens, C.B.E., LL.B.(Adel.).
Appointed 30 September 1960; re-appointed 30 September 1963; present tenure expires 29 September 1966.

Warwick Oswald Fairfax, M.A.(Oxon.).
Appointed 30 September 1963; present tenure expires 29 September 1966.

Herbert John Goodes, C.B.E., B.A.(W.Aust.).
Became member of Interim Council 9 August 1946; appointed to Council by Governor-General 1 July 1951; re-appointed 1 July 1953, 1 July 1955, 1 July 1958, 30 September 1960 and 30 September 1963; present tenure expires 29 September 1966.

Brian William Hone, B.A.(Adel.), M.A.(Oxon.).
Appointed 30 September 1960; re-appointed 30 September 1963; present tenure expires 29 September 1966.

Peter James Lawler, O.B.E., B.Ec.(Syd.).
Appointed 12 December 1962; re-appointed 30 September 1963; present tenure expires 29 September 1966.

Charles Gullan McGrath
Appointed 30 September 1963; present tenure expires 29 September 1966.

Sir (Horace) Frank Richardson
Appointed 1 July 1953; re-appointed 1 July 1955, 1 July 1957, 30 September 1960 and 30 September 1963; present tenure expires 29 September 1966.

Arthur Thomas Shakespeare
Appointed 30 September 1960; re-appointed 30 September 1963; present tenure expires 29 September 1966.

Sir Frederick (William George) White, K.B.E., M.Sc.(N.Z.), Ph.D.(Cantab.).
Appointed 30 September 1960; re-appointed 30 September 1963; present tenure expires 29 September 1966.

Two seats vacant.

CHOOSEN BY HEADS OF THE RESEARCH SCHOOLS IN THE
INSTITUTE OF ADVANCED STUDIES

Chosen 30 September 1964; rechosen 30 September 1965; tenure expires 31 December 1965.
Professor E. W. Titterton, F.A.A., has been chosen to hold office until 29 September 1966.

One seat vacant.
CHOSEN FROM AMONG THE DEANS OF THE FACULTIES IN THE SCHOOL OF GENERAL STUDIES

David Noel Ferguson Dunbar, M.Sc.(N.Z.), Ph.D.(Melb.).
Chosen for three years from 30 September 1963.

Chosen 8 December 1965; present tenure expires 29 September 1967.

ELECTED BY THE PROFESSORS IN THE INSTITUTE OF ADVANCED STUDIES

William Edward Hanley Stanner, M.A.(Syd.), Ph.D.(Lond.).
Elected 2 September 1965; present tenure expires 29 September 1966.

ELECTED BY THE PROFESSORS IN THE SCHOOL OF GENERAL STUDIES

Graham Shardalow Lee Tucker, B.Com.(Melb.), Ph.D.(Cantab.).
Elected for three years from 30 September 1965.

ELECTED BY THE NON-PROFESSORIAL ACADEMIC STAFF IN THE INSTITUTE OF ADVANCED STUDIES

Alan Ross Hall, B.Ec.(Syd.), Ph.D.(Lond.).
Elected 1 August 1964; present tenure expires 29 September 1966.

ELECTED BY THE NON-PROFESSORIAL ACADEMIC STAFF IN THE SCHOOL OF GENERAL STUDIES

One seat vacant.

ELECTED BY THE RESEARCH STUDENTS

John Arthur Merritt, M.A.(W.Aust.).
Elected for one year from 30 September 1965.

ELECTED BY THE UNDERGRADUATE STUDENTS

Elected 30 September 1962; re-elected 30 September 1963, 30 September 1964 and 30 September 1965; present tenure expires 29 September 1966.

ELECTED BY CONVOCATION

William Macmahon Ball, M.A.(Melb.).
Elected 30 September 1960; re-elected 30 September 1963; present tenure expires 29 September 1966.

Sir Harold (George) Raggatt, C.B.E., D.Sc.(Syd.), F.A.A.
Elected 30 September 1960; re-elected 30 September 1963; present tenure expires 29 September 1966.

Sir Roland Wilson, K.B.E., B.Com.(Tas.), D.Phil., Dip.Econ. and Pol.Sc. (Oxon.), Ph.D.(Chic.).
Elected 1 July 1951; re-elected 1 July 1955, 1 July 1959, 30 September 1960 and 30 September 1963; present tenure expires 29 September 1966.

Appointed to Interim Council by Governor-General 9 August 1946; elected to Council by Convocation 1 July 1951; re-elected 1 July 1953, 1 July 1957, 30 September 1960 and 30 September 1963; present tenure expires 29 September 1966.
CO-OPTED MEMBERS

Sir John (Grenfell) Crawford, C.B.E., M.Ec.(Syd.).

Co-opted for two years from 13 November 1964.

One seat vacant.

SECRETARY

The Registrar.

PRINCIPAL ACTIVITIES

Sir John and Lady Cockcroft visited the University in March and April, this being Sir John's last visit as Chancellor. He presided at a meeting of Council on 9 April. Sir John's official engagements began when he welcomed Her Royal Highness The Duchess of Gloucester on her visit to the University on 22 March. Other public functions performed by the Chancellor included a University Lecture in the Hall of University House on 24 March the opening of Siding Spring Observatory on 8 April, and the Conferring of Degrees Ceremony in the Albert Hall on 9 April when Sir John conferred degrees on 188 graduands of the University.

Lord Florey of Adelaide assumed the office of Chancellor on 1 August, succeeding Sir John Cockcroft who had been Chancellor since 1961. Lord Florey, who is Provost of The Queen's College, Oxford, and, until recently, President of The Royal Society, will be installed as the third Chancellor of the University at a ceremony in the auditorium of the Canberra Theatre Centre on 7 July 1966. Lord Florey was prominently associated with the initial establishment and development of the University.

The University Act was amended to provide for the abolition of the office of Principal and the establishment of the office of Deputy Chairman of the Board of the School of General Studies. Minor amendments relating to procedure at meetings of the Boards, the use of the Common Seal, remission of fees and the qualifications of the member of Council elected for the undergraduates were included in the amending Act. The Act also provides for the preservation of the rights of members of the Department of Forestry who were formerly employed in the Forestry and Timber Bureau.

Consequent upon the retirement of Professor H. Burton and Parliament's approval of the Council decision that the office of Principal should lapse, other arrangements are being made for carrying out the duties of the office. Most of these duties will be divided between the holders of two new offices, the Deputy Chairman of the Board of the School of General Studies, and the Dean of Students. Professor C. A. Gibb and Professor D. A. Brown have been appointed as the first holders of these offices respectively; they will retain their appointments as Heads of the Departments of Psychology and Geology respectively.

The Australian Universities Commission visited the University on 25, 26 and 27 October to examine the University's submissions for the 1967-69 triennium and for discussions with members of the University. The Commission will return early in 1966 to conclude the discussions.

Council appointed Professor E. W. Titterton, Head of the Department of Nuclear Physics, as Dean and Chairman of the School Committee of the Research School of Physical Sciences for three years as from 1 January 1966, in succession to Professor J. C. Jaeger who had served since the resignation of Professor Sir Mark Oliphant from the Directorship in 1963.
Retirements

At the end of the year Professor H. Burton and Professor Sir Keith Hancock retired.

Professor Burton has rendered distinguished service as Principal and Professor of Economic History, first in the Canberra University College from 1949–60, and from 1960 in the School of General Studies of the University.

Professor Sir Keith Hancock was one of the members of the Academic Advisory Committee which took a leading part in the shaping of the University in its earliest days. In 1956 he accepted appointment as Professor of History and Director of the Research School of Social Sciences but resigned the latter post in 1961 to enable him to concentrate on his academic work. He has accepted appointment as University Fellow, a post which was recently created as a means of honouring a limited number of distinguished scholars and enabling them to continue scholarly work after their retirement.

International Association of Universities—Fourth General Conference

The University was represented at the Fourth General Conference of the International Association of Universities held at the University of Tokyo from 31 August to 6 September by the following: the Pro-Chancellor (Dr H. C. Coombs), Professor P. H. Partridge, Professor R. St C. Johnson and the Registrar (Mr R. A. Hohnen).

Title of Professor Emeritus

The University has decided that there shall be a Roll of Professors Emeritus of the University on which Council may from time to time direct the inscription of the names of professors who have left the University by reason of age or ill-health, or in other circumstances such that they are unlikely to take a fresh appointment to a Chair.

Medical Education in the School of General Studies

The discussions referred to in the last Annual Report have been continuing. A committee has given preliminary consideration to the desirability and feasibility of the University undertaking undergraduate medical education. The seminar on medical education referred to in the 1964 Report will probably be held early in 1967. The Board of the School of General Studies and the Professorial Board will then advise Council on the establishment of a teaching medical school.

Student Welfare

Council has accepted in principle the proposals of its Committee on Student Welfare. These envisage the establishment of a full-time Student Health Service under the direct control of a medically qualified person; a full-time Student Counselling Service directed by a qualified counsellor; and the establishment of the office of Dean of Students who would be the Vice-Chancellor’s delegate in general matters concerning the welfare of undergraduate students. While the main responsibility for the welfare of postgraduate students will rest with their teachers and supervisors, these students will have access to welfare services.

University Press

Mr M. Jeanneret, Director of the University of Toronto Press, visited the University at the end of September to undertake a study of its publishing activities and to advise on the establishment of a University Press. As a result of this study Mr Jeanneret has prepared a comprehensive and most valuable report embodying recommendations for the reorganization of the existing Publications Section and for the revision of the policies under which it operates. The report will be considered by Council early next year.

Conditions of Service of Female Members of Staff

The Committee, under the chairmanship of Mr D. M. B. Butt, appointed by Council to inquire generally into conditions of service of women appointed to the University staff, has produced a comprehensive and interesting report and made recommendations relating, inter alia, to superannuation, housing and appointment expenses. Many of the Committee’s recommendations were adopted but Council decided that the matter of equal pay for men and women in all grades of non-academic staff was a problem which went beyond university circumstances and that action in this respect should not be taken at this stage.
Work has begun on the erection of the first stage of the building for the Research School of Chemistry; this stage of the building is estimated to cost $2,100,000 which will be met from funds made available by the Commonwealth Government. It is expected to be ready for occupation in the first half of 1967.

Professor A. J. Birch, F.R.S., Professor of Organic Chemistry at the Victoria University of Manchester, has been appointed Dean-Elect of the School. Professor Birch and Professor D. P. Craig, Professor of Theoretical Chemistry at University College, London, will take up their appointments in the Research School of Chemistry during 1967. Pending the completion of the laboratories a number of postgraduate scholars and postdoctoral fellows will work in Britain with Professors Birch and Craig.

The Council and the Boards of the Institute and the School considered the future role of Adult Education in the University. In November Council decided to establish, late in 1966, a Department of Adult Education as a University activity, replacing the present Department in the School of General Studies. Steps are being taken to appoint a Director of Adult Education, and Council has established a Committee to advise him.

The University and the Canberra Community Hospital Board have agreed on the establishment of a Department of Clinical Science. The new Department will be part of the John Curtin School of Medical Research but will be housed in a building being constructed under the Hospital's present expansion programme. Dr H. M. Whyte, Director of Medical Research, Kanematsu Memorial Institute, Sydney Hospital, has been appointed as Professor and Head of the Department of Clinical Science, and will take up his post early in 1966.

Dr M. R. Osborne, Assistant Director of the Computer Unit at the University of Edinburgh, has been appointed as Head of the University Computer Centre. Dr. Osborne will take up his appointment in January 1966. The Centre will provide a service to the whole University but is initially housed in the Research School of Physical Sciences and within the administrative responsibility of the Dean of that School.

Under an agreement with the United Kingdom Atomic Energy Authority, the University has been operating a large seismic installation near Tennant Creek since mid-December. It has been named the Warramunga Seismic Array after the tribe which lived in the area. The availability of this equipment in Australia will enable the University to make substantial contributions to studies of the crustal structure of Australia and to knowledge of the seismic characteristics of the world. Work on the array is the joint responsibility of Professor J. C. Jaeger, Head of the Department of Geophysics and Geochemistry, and Professor G. H. Newstead, Head of the Department of Engineering Physics.

The University has established an Urban Research Unit in the Research School of Social Sciences for the study of the economic, political and social aspects of urbanization. Dr G. M. Neutze, formerly Senior Lecturer in Economics in the School of General Studies, has been appointed Senior Fellow in charge of the Unit and will take up his appointment in January 1967.

The University records its appreciation to the Leverhulme Trust Fund for its generous offer to provide funds totalling $8,000 per annum for five years for two Visiting Fellowships a year. One of these Fellowships will be used by a senior member of staff of this University going to a university in one of ten nominated Asian countries; the other will enable a senior academic from one of those countries to visit this University. Similar offers have been made to five other Australian universities.
Training of Indian Technicians

The Department of External Affairs asked the University to undertake, under the Colombo Plan, the selection and training for some fourteen months of twelve Indians who will work in the All India Institute of Medical Sciences in New Delhi. Mr J. B. Wight, Technical Manager of the John Curtin School of Medical Research, was responsible for the arrangements, which are likely to be repeated. As part of the arrangements the University designed a research equipment workshop and nominated and selected the equipment for the workshop.

Opening of the University Union

The Chancellor opened the first stage of a building for the University Union on 8 April. It is designed to be a social, cultural and recreational centre for University life, where students and members of staff may dine, relax, talk and participate in group activities.

Opening of Siding Spring Observatory

On 5 April the Chancellor opened Siding Spring Observatory near Coonabarabran, New South Wales, the field station of the Department of Astronomy. The station has at present two telescopes, a 40-in. and a 16-in., which were built in the U.S.A. to the specifications of the University's astronomers. An observatory lodge provides accommodation for observers from the Department of Astronomy at Mount Stromlo, while houses on the site provide accommodation for technical staff engaged on the maintenance of equipment.

Oriental Studies Centre

The building for the Oriental Studies Centre has been in use since March.

Halls of Residence

Burton Hall was completed during the year, with places for 250 students. The first two blocks of Garran Hall were completed by the end of the year and the second two blocks, bringing the accommodation also to 250, should be ready early in 1966. Both Halls take men and women students. Mr G. G. Rossiter and Dr J. R. T. Short took up their appointments as the Wardens of Burton and Garran Halls respectively during the year.

University Bookshop

The University has invited the University Co-operative Bookshop Limited to establish a branch in the University Union from the beginning of the academic year 1966 with a guaranteed tenure of three years.

A committee has been set up to consult with the bookshop management on questions relating to the needs of the users of the bookshop.

A study is being undertaken for the siting and design of an appropriate building which might provide permanent accommodation for the bookshop and other University services.

Sports Ground

The Minister for the Interior has approved a ninety-nine year special lease to the University for a sports ground of part of Section 25, Boldrewood Street, Turner, comprising approximately 11½ acres. A full scheme of development of the area has been prepared and work will begin in 1966.

The Leonard French Panels

Through the generosity of an anonymous donor the University has acquired a group of large paintings by Leonard French called 'Seven Days'; this comprises a set of six panels each approximately 6 ft. by 5 ft. and a seventh, circular, of 12 ft. diameter. The University records its deep gratitude to the donor for this gift, which is a valuable acquisition not only for the University but also for the nation.

Apulian Vases

An important acquisition for the University has been the purchase of a group of twenty Apulian Vases of the late fourth century B.C. The vases which were found in a tomb in the cemetery of an ancient Greek settlement in Apulia, the south-eastern region of Italy, are particularly well preserved and their decoration is remarkably fresh.
The University established the following new chairs and departments:

*Chair of Clinical Science* in the John Curtin School of Medical Research—Dr H. M. Whyte as Professor and Head of the Department.

*Chair of Pharmacology* in the Department of Physiology, John Curtin School of Medical Research—to be filled.

*Chair of Engineering Physics* in the Research School of Physical Sciences—Professor G. H. Newstead as Professor and Head of the Department.

*Chair of Organic Chemistry* in the Research School of Chemistry—Professor A. J. Birch, F.R.S., as Professor and Head of the Department.

*Chair of Physical and Theoretical Chemistry* in the Research School of Chemistry—Professor D. P. Craig as Professor and Head of the Department.

*Department of French* in the Faculty of Arts—Professor D. P. Scales as Head of the Department. (French, German and Russian studies were previously carried out in the Department of Modern Languages, of which Professor Scales was the Head. A Department of German was established in 1964 and a Department of Russian will be established when a Professor is appointed.)

*Chair of Japanese* in the Faculty of Oriental Studies—Dr E. S. Crawcour as Professor and Head of the Department.
Developments of 1965 in Summary

THE INSTITUTE OF ADVANCED STUDIES

Within the four research schools research has continued for the most part in the areas marked out in earlier years. Nevertheless, several important developments in 1965 deserve to be noted.

The plans of the John Curtin School of Medical Research to establish a Department of Clinical Science, which will be located in the Canberra Community Hospital, advanced with the appointment of Dr H. M. Whyte, Director of the Kanematsu Memorial Institute, Sydney Hospital, as first Professor and Head of the Department of Clinical Science. Dr Whyte will take up his appointment in 1966.

On the recommendation of the Board of the Institute of Advanced Studies, Council decided to establish a Chair of Pharmacology within the Department of Physiology.

In the Research School of Physical Sciences the resignation of Professor Sir Mark Oliphant, as Head of the Department of Particle Physics, occasioned the reorganization of that Department. It has been renamed the Department of Engineering Physics, and Professor G. H. Newstead, formerly Professor of Electrical Engineering in the University of Tasmania, was appointed to the Chair. Council invited Dr O. J. Eggen, a very distinguished astronomer who was recently Assistant Chief Astronomer at the Royal Observatory in England, and has also been associated with the Mount Wilson and Palomar Observatory, to accept appointment as Director of the Observatory and Head of the Department of Astronomy, a post which will become vacant in 1966 when Professor B. J. Bok leaves for an appointment in the University of Arizona. Dr Eggen has accepted Council's invitation and will take charge of the Observatory and the Department in July 1966.

In the course of the year a decision was made to establish a Computer Centre which will serve the whole University but will be located for the time being in the Research School of Physical Sciences. The University decided to acquire an I.B.M. 360/50 Computer and to establish the new post of Head of the Computer Centre. This post has been filled by the appointment of Dr M. R. Osborne, Assistant Director of the Computer Unit at the University of Edinburgh. The new building to house the geochemistry section of the Department of Geophysics and Geochemistry was completed and occupied during the year, and progress was made on the building at the Siding Spring Observatory to house the 24 in. polarizing telescope.

The Research School of Social Sciences decided to open up a new field of research into problems of urban development, and set up a small Urban Research Unit for this purpose to which two appointments were made before the end of the year. The Unit represents an innovation in the structure of the School in the sense that it is separate from any of the nine existing departments, and it is expected to provide an opportunity for inter-departmental collaboration. The Department of Law is also extending its interests in the study of legal problems of Papua-New Guinea and has established a new senior post in Papua-New Guinea Law.
In the Research School of Pacific Studies, an increasing volume of work is in progress dealing with South and South-East Asia, the Far East and the Pacific. In his report the Director calls attention to the expansion of the activities of the linguistic and pre-history sections of the Department of Anthropology and Sociology. It is anticipated that these sections will become separate departments before very long, but they require considerable laboratory space and their development will depend partly on the completion of the H. C. Coombs Building, funds for which have been requested in the University's submission for the 1967-69 triennium.

The fifth research school, the Research School of Chemistry, is taking shape. Under the direction of Professor A. J. Birch of the Victoria University of Manchester, and Professor D. P. Craig of University College, London, who are to occupy the Chairs of Organic Chemistry, and Physical and Theoretical Chemistry respectively, planning of the building for the School was completed and construction begun. The building is sited close to the Chemistry Building in the School of General Studies to facilitate collaboration between the two chemistry schools. Until they move to Canberra, Professors Birch and Craig will direct research and supervise postgraduate students of the University in their laboratories in Manchester and London; several postdoctoral fellows and postgraduate scholars have been appointed, and they will move to Canberra when the laboratories are ready for use.

There has been considerable discussion during the year in the four research schools of aspects of the academic policies and practices of the Institute of Advanced Studies. Especially in the Research Schools of Pacific Studies and Social Sciences, much thought has been given to the training of postgraduate students; and there has been some support for the introduction of more formal course work than has so far been customary in the Institute of Advanced Studies and in other Australian (or in British) universities. No general agreement on this subject has emerged, partly because the conditions and requirements of disciplines differ; but one result of the discussion will be that some of those who desire more formal course work to be introduced will in 1966 experiment with specially designed lecture courses. The heads of research schools have also been discussing the desirability of giving rather more emphasis to the encouragement of work at the postdoctoral level by devoting a larger part of the resources of the research schools to this level. One important advantage of this policy is that it would permit the Institute of Advanced Studies to offer relatively short-term appointments to a larger number of research workers, thus providing for the continuous injection of new blood—a very important consideration for a research institute.

In this connection it should be mentioned that all research schools were again fortunate in 1965 in having as visiting fellows many distinguished scholars and scientists from abroad, and a number from other Australian universities. It is of the greatest importance that the programme of visiting fellowships should continue to expand and that the Institute of Advanced Studies should possess ample funds for this purpose, partly because the Institute justifies itself to the extent that it becomes a national and international research centre, and also because the work of its own staff is stimulated by the presence and collaboration of scholars from other places. Such series of seminars as those arranged by the Research School of Pacific Studies on political and economic developments of modern Japan (which with the assistance of the grant from the Ford Foundation several well-known Japanese scholars attended) and on developments throughout the communist world (in which specialists from other Australian universities as well as staff of this University participated), and the seminars arranged by the Research School of Social Sciences on aspects of city growth and planning, attended both by members of university staffs and men engaged in city planning and administration, are illustrations of the Institute's role as a centre or focus of research. It may be added that during 1965 some staff members of other Australian universities spent part or the whole of their sabbatical leave in the Institute of Advanced Studies.
Academic collaboration between the Institute of Advanced Studies and the School of General Studies continued to develop: collaboration in the form of lecturing by Institute staff to undergraduate classes, attendance of scholars of the Institute at appropriate courses in the School of General Studies, co-operation between Institute and School staff in the supervision of postgraduate students, common participation in postgraduate seminars. For example, staff of the Research School of Social Sciences and the School of General Studies continued throughout the year to provide jointly a range of courses in Sociology for Master of Arts degree students; and a start was made in providing opportunities for members of the staff of the School of General Studies temporarily to join a department in the Institute of Advanced Studies to complete a piece of research. All the forms of collaboration referred to above could be extended and it is hoped that they will be since they are beneficial to both parts of the University.

At the end of 1965 there were 239 students enrolled in the Institute of Advanced Studies as candidates for the degree of Doctor of Philosophy and another thirty-eight enrolled in the School of General Studies, making a total of 277 Doctor of Philosophy students in the University as a whole. Of these students, 133 were from other countries. During the year, 112 new scholarships were accepted in the five research schools. At the 1965 Conferring of Degrees Ceremony, forty-four students of the Institute of Advanced Studies received the degree of Doctor of Philosophy, together with eight who had pursued their courses in the School of General Studies. These totals compare very favourably with those of the larger Australian universities.

THE SCHOOL OF GENERAL STUDIES

The rapid growth of student numbers in the School of General Studies was the subject of detailed comment in last year's Report. While the rate of growth for Australian universities over the previous five years had been high our rate was three times as great as the Australian average. This tempo was maintained in 1965; the figure for new enrolments was 1,159, compared with 870 for the previous year. Total enrolments in the School reached 2,550 at 31 July 1965, compared with 2,010 in 1964. A notable feature, however, was that for the first time full-time students made up a majority of the enrolments (1,360).

In the pattern of enrolments the chief change was the growth in student numbers in the Faculty of Science; these rose to 575 compared with 320 in 1964. This steep increase was in fact due to the enrolment of forestry students (some 80 in number) for the first time, but even without these the expansion would have been notable. The Faculty of Science in 1965 ranked next to the Faculty of Arts (1,252) in student numbers and above the Faculties of Economics (410) and Law (267); the Faculty of Oriental Studies remained the smallest with 123 enrolments. The rapid growth of science enrolments, if maintained, could raise acute problems of laboratory accommodation in some departments in 1966 and subsequent years.

Fortunately, the growth of student numbers was accompanied by a steady expansion of accommodation and equipment. The Faculty of Oriental Studies moved into its new building in March 1965 and so gave a little more room to the Faculties of Economics and Law in the old buildings at Childers Street. Construction began on a new building to house the Faculty of Economics (and the Faculty of Law temporarily), adjacent to the Haydon-Allen Building in University Avenue; however, occupation is not likely to be possible before May 1966. Residential accommodation for undergraduate students increased substantially with the opening of Burton Hall in March 1965. The 250 new places, equally divided between men and women, brought the total number of resident students to 570; with the completion of Garran Hall in 1966 the total will rise to 820. Provision for student residences is essential for the national role of the University, and it is gratifying to see that so far the programme has kept pace with the needs. Equally gratifying was the allocation during 1965 of two areas, each of five acres, on the
University site for residential denominational colleges. One area will be developed by the Roman Catholic Church, the other by a consortium of the Anglican, Presbyterian and Methodist Churches. The allocation of areas on the site for these colleges was greatly facilitated by the Commonwealth Government making available, through the good offices of the National Capital Development Commission, an area of some eleven acres adjoining the north end of the site, as a recreation and sports area.

The year has also been notable for a significant step forward in the provision of student services and facilities. A major event was the opening of the first stage of the University Union in March 1965. Not only does this provide the usual amenities for all students but it also provided all meals for the residents of Burton Hall for the first two terms until the dining hall block of the new hall was completed. University sporting teams also benefited greatly by the building of the Sports Pavilion on the west side of the Oval, and by the construction of another four tennis courts on the east side of the Oval. The appearance of the campus has steadily improved with planting of lawns and trees, construction of paths and parking areas, and bridges over Sullivans Creek. In particular, the development of a sunken court between the General Studies Building of the Library and the Union has converted a wilderness into a green, pleasant land. This work has been greatly assisted by the appointment of a landscape architect to the University, Mr J. Stevens, and a long-term programme is underway for the whole campus.

Another extremely important event was the report presented by the Council's Committee on Student Welfare, under the chairmanship of Mr B. W. Hone. The acceptance by Council of this report initiates a positive policy towards student welfare and recreation. Council agreed to expand the existing counselling services by the appointment of a full-time counsellor, and to introduce a health service under a full-time director. The report also recommended the appointment of a Dean of Students, virtually on a full-time basis, to look after this important area and to advise the Vice-Chancellor and Council. Since the University had already decided that on the retirement of the Principal of the School of General Studies at the end of the year the office of Principal should lapse it was imperative that provision should be made to carry out his responsibilities with regard to students. Council therefore appointed Professor D. A. Brown as Dean of Students. Council also appointed Professor C. A. Gibb to be Deputy Chairman of the Board of the School.

Second chairs were advertised and filled in the Departments of English, History and Political Science—three of the largest departments in the Faculty of Arts. Professor G. H. Russell of the University of Sydney accepted the Chair of English; Dr K. S. Inglis and Dr B. D. Beddie were appointed to the Chairs of History and Political Science respectively.

The School of General Studies has reason to congratulate itself on its success in recruiting new staff during 1965. Professor Russell, whose appointment has already been referred to, occupied for some years the McCaughey Chair of Early English Language and Literature at the University of Sydney; Mr G. K. W. Johnston, who resigned from the Robert Wallace Chair of English at the University of Melbourne in 1965, accepted a readership in the Department of English of this University later in the year. The Department of English is, therefore, one of exceptional strength with Professor A. D. Hope at its head, and Mr W. Milgate a former professor at the University of Sydney on its staff. There was a very general satisfaction that Professor Hope won the Britannica award for Poetry for 1965.

On the other hand, the School lost two of its senior members in mathematics; Dr J. B. Miller, Reader in Pure Mathematics, and Associate Professor R. F. E. Van der Borght in Applied Mathematics, both left to take up chairs at Monash University.

During the year Professor A. L. Basham took up his post as Head of the Department of Asian Civilization, and Professor J. W. de Jong as Head of the Department of South Asian and Buddhist Studies.
The University's good fortune in attracting these scholars from the School of Oriental and African Studies in London, and from the University of Leiden, has been a matter of great satisfaction.

The Faculty of Oriental Studies suffered a severe loss during the year when the Head of the Department of Chinese, Professor N. G. D. Malmqvist, resigned in order to accept the chair left vacant by the retirement of his old teacher, Professor Karlgren, at the University of Stockholm. It is noteworthy that our first two professors of Chinese were pupils of Professor Karlgren, and this University owes much to this distinguished scholar. Dr E. S. Crawcour, Senior Fellow in the Department of Far Eastern History, Institute of Advanced Studies, was appointed to the Chair of Japanese.

In the Faculty of Law Professor R. L. Sharwood left to take up the Wardenship of Trinity College, Melbourne, and Mr H. Whitmore of the University of Sydney was appointed to the vacant chair; Professor Whitmore was able to take up duty before the end of the year.

The chair left vacant by the transfer of Professor H. W. Arndt to the Institute of Advanced Studies was filled by the appointment of Dr J. D. Pitchford, formerly a reader in the Department of Economics.

In the Faculty of Science the vigorous growth has been due in part to the incorporation of the former Australian Forestry School, but this accounts for only about one-third of the total growth in student numbers over the previous year. The expansion has been most significant in the biological sciences, which are being integrated to a greater degree than previously. The establishment of a Chair of Biochemistry is part of this programme of integrated science teaching, but although it was advertised no appointment had been made by the end of the year. On the other hand, plans for a building for the Department of Botany during the 1967-69 triennium were going forward, as were plans for a Forestry Building. For the next two years the work of the advanced years in Forestry will continue to be done at Yarralumla.

In academic matters concern continues to be felt about wastage and failure rates, the pressure of numbers in particular subjects and standards of admission.

There has been much concern in the last few years about the poor standard of many students who manage to matriculate, particularly their inadequacy in their own language. In 1965 the University tested all new entrants in English Comprehension and Expression, and revealed just how serious is this inadequacy. It also offered free but voluntary classes for those who wished for a course in remedial English. This procedure is to be used again in 1966.

In spite of these problems the year 1965 has been one of gratifying achievement. The first group of scholars chosen under the National Undergraduate Scholarship scheme graduated with high honours and vindicated the University policy to the full. On many fronts substantial progress had been made, and although many problems remained to be solved the University seemed to be growing in strength and diversity from year to year.

**GENERAL UNIVERSITY ACTIVITIES**

The range of courses provided in 1965 was substantially more diversified than in previous years. A total of thirty-nine courses in twenty-five subjects, for which there was an enrolment of just over 1,300, were provided. Twenty-three of these courses were of twenty-seven to thirty sessions each; seven of fifteen to twenty sessions; and nine of ten sessions each. A total of 850 two-hour lecture discussion sessions were held.

In conjunction with the Remedial English Committee of the Board of the School of General Studies twenty one-hour tutorials of fifteen sessions each in English Expression were arranged for undergraduate students.
During the year the Advisory Committee on Adult Education presented reports on the future of the Department, recommending that a Directorship be established carrying the salary of a Professor and that the Director should be a member of the Board of the School of General Studies. The Boards of the Institute of Advanced Studies and the School of General Studies adopted the recommendations in September and these were later approved by Council. The position of Director will be advertised early in 1966 with a view to filling it by the end of that year.

The committee met twice during the year. It concerned itself with the general fostering of dramatic activity with the University and with the development of adequate theatrical facilities. Owing to the growing demand from various sources, on the Childers Street Hall, it is becoming increasingly difficult to stage plays on the campus and the committee noted with regret that plans to erect a properly equipped theatre within the University are still delayed. Space is also urgently needed to store the growing collection of costumes and equipment which are now University property.

Scenery, costumes, lighting and sound equipment were purchased during the year and productions by The Australian National University Dramatic Society and the Department of French were given financial support.

The Research Students’ Association successfully negotiated for increased scholarship stipends and the inauguration of an insurance scheme. Negotiations begun by the Association in 1962, came to fruition with the opening of a block of fifty flats for married scholars. The thesis typing and welfare funds continue to operate.

Despite the holding of new elections for the Students’ Representative Council after the invalidation of the original elections, and some unfortunate incidents in ‘Bush Week’, 1965 was a year of progress for the Students’ Association.

Although some inconveniences were experienced during the first two terms, students were able to use the University Union which is a great improvement on former facilities in Childers Street.

To replace the former destructive rivalry between the students of The Royal Military College, Duntroon, and The Australian National University, the two institutions co-operated in organizing a highly successful programme of novel sporting events (‘Amnesty Day’), social functions and student exchanges. This fostered friendly contacts between cadets and students and raised a considerable sum for Legacy.

Concern over the inadequacy of undergraduate library facilities led to the formation of a Student Library Committee for liaison with the Associate Librarian of the General Studies Collection, and the donation of $500 from student funds for the purchase of multiple copies of reference texts.

Students of the University participated to an increased degree in a wide range of national student activities. Aided by grants from the Students’ Representative Council five students participated in the Australia Overseas Student Travel Scheme, while ten students took part in Work Camps in Papua and New Guinea.

At the suggestion of the Association, a Liaison Committee was formed to provide more effective communications between the students and the University Administration.

The Sports Union broadened its activities when it took over control of all sporting facilities within the University. Coupled with the completion of the Pavilion on the South Oval, this enabled sport within the University to be placed on an organized footing.
The Sports Council has developed a programme of future expenditure of funds and priorities for the establishment of further sporting facilities, and in 1965 set a pattern whereby one third of all income was devoted to funding a capital expenditure account for the future construction of major facilities, and for the provision of minor capital works such as floodlighting of ovals, etc. The Council is hopeful that this pattern will continue in future, and the capital expenditure fund will be the basis of loan funds in the very near future.

In addition to financing the twenty-three affiliated clubs in local and inter-varsity sport, other funds were spent on the conduct of sporting events against teams from New Zealand universities. The wide range of sports now being catered for has allowed the Sports Council to turn its attention to other major matters, particularly the maximum use of university sporting facilities by all members of the university, and the raising of the standard in all sports. Financial and accommodation arrangements are being made for the conduct of inter-varsity sport in Canberra in the near future.

Inaugural Lectures

The holders of two new chairs in the University gave inaugural lectures during the year. Professor J. D. Ovington, who took up his appointment as Professor of Forestry on 15 April, spoke on 'The Role of Forestry' on 10 September, and Professor H. Kuhn, who took up his appointment as Professor of German on 1 January, gave a lecture entitled 'Language and Nation' on 12 October.

Public Lectures

Highlights of the 1965 public lectures programme were two series of lectures which enabled speakers to deal at length with various aspects of their respective subjects. The first series comprised lectures given on 27 May and 3, 10 and 17 June under the general title of 'South-East Asia Today'. In this series Dr J. A. Modelski, Professorial Fellow, Dr P. J. Boyce, Research Fellow, and Dr T. B. Millar, Fellow, in the University's Department of International Relations, and Dr D. C. Corbett, Associate Professor in the Department of Political Science, School of General Studies, spoke on the political, military and economic aspects of Australia's relations with the countries of South-East Asia.

The second series of lectures was given by Sir Steven Runciman, Honorary Fellow of Trinity College, Cambridge. Sir Steven, who was touring Australia for the British Council, spoke on 'The Decline and Fall of Byzantium' in lectures given on 13, 15, 20 and 22 September.

The first of the year's public lectures was given on 20 January when Professor C. Rogers, Resident Fellow in the Western Behavioural Sciences Institute, California, offered 'Some Reflections on Interpersonal Communication'.

On 23 March Professor E. S. Dewey, Professor of Zoology at Yale University and Director of that University's Geochronometric Laboratory, spoke on 'Human Population and the Rise of Urbanism'. He subtitled his lecture 'An Ecologist's View of History'. Professor Dewey visited Canberra as a guest of the University and the United States Educational Foundation in Australia.

Sir John Cockcroft spoke on 'The Changing Character of the Universities' in his University Lecture on 24 March during his last visit to the University as Chancellor.

The University, in association with the Australasian Association of Philosophy (Canberra Branch), arranged a lecture by Professor H. Feigl, Professor of Philosophy at the University of Minnesota and Director of the Minnesota Center for the Philosophy of Science, on 15 June. The title of Professor Feigl's lecture was 'Empiricism at Bay'.

On 23 June Emeritus Professor D. G. E. Hall, from the University of London, spoke on 'South-East Asia Today—major factors in the situation'.

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In association with the Royal Society, Canberra, the University arranged a lecture given on 14 July by Professor H. Godwin, F.R.S., Professor of Botany at the University of Cambridge, who spoke on 'Radiocarbon Dating and Quaternary History'.

'China Mans Her Northern Frontiers' was the title of a lecture given on 19 July by Professor H. J. Wiens, Professor of Political Geography at Yale University.

Prince Subhadradis Diskul gave an illustrated lecture on 'The Classical Arts of Thailand' on 15 September before he returned to Thailand after having spent four months in the University as its first Asian Fellow.

In his lecture 'Development—For What?' on 22 September, Professor R. W. Steel, Rankin Professor of Geography at the University of Liverpool and a Commonwealth University Interchange Visitor, surveyed some problems of the developing countries, with special reference to Africa.

On 30 September Dr E. L. Ruhe, Associate Professor of English at the University of Kansas, and a Fulbright Visitor at the University of Adelaide, spoke on 'The Contemporary American Novel 1945–1965'.

The final lecture of the year was given on 25 October when Professor B. V. Gnedenko, of the Department of Probability Theory at Moscow State University, spoke of 'Mathematical Education in the Soviet Union'. Professor Gnedenko was in Australia under the Exchange Visitor Scheme operating between Moscow State University and The Australian National University and his lecture was arranged by the University in association with the Canberra Mathematical Association.

Professor M. Praz, Professor of English at the University of Rome, visited Canberra to give the first of the Myer Foundation Lectures on 22 July. However, Professor Praz was taken ill and his lecture was read by Emeritus Professor A. D. Trendall, Master of University House. Professor Praz's lecture on 'Italy in English Life and Thought' was given as part of an Italian Cultural Week held in Canberra. In the course of the week Professor G. Baldini, also Professor of English Literature at the University of Rome, gave a lecture on 'Dante, Blake and the Pre-Raphaelite Brotherhood'. The lectures of Professors Praz and Baldini were arranged by the Embassy of Italy, the Italian Institute of Culture, the Australian Humanities Research Council and the University.

The Publications Committee is a committee of Council whose thirteen members are appointed from the Institute of Advanced Studies and the School of General Studies. The Committee administers the University imprint and publishing fund.

In 1965 the Committee's independent publishing increased substantially: only three of the seventeen titles issued were published in association with other presses. The new titles were: Dr B. D. Graham, French Socialists and Tripartisme, 1944–1947; Dr E. C. F. Bird, Coastal Landforms; Dr M. Roe, Quest for Authority in Eastern Australia, 1835–1851 (in association with Melbourne University Press); Dr R. J. Lawrence, Professional Social Work in Australia; Dr G. M. Neutze, Economic Policy and the Size of Cities; Dr H. Y. Tien, Social Mobility and Controlled Fertility (Australian edition); Professor O. H. K. Spate, Let Me Enjoy: Essays, partly geographical; Dr Jean I. Martin, Refugee Settlers: A Study of Displaced Persons in Australia; Dr L. R. Hiatt, Kinship and Conflict: A Study of an Aboriginal Community in Northern Arnhem Land; Dr Margaret Steven, Merchant Campbell, 1769–1846 (in association with Oxford University Press); Professor C. P. FitzGerald, Barbarian Beds: The origin of the chair in China (Australian edition); Messrs L. A. Murray and G. Lehmann, The Ilex Tree; Dr I. Turner, Industrial Labour and Politics: The Dynamics of the Labour Movement in Eastern Australia, 1900–1921; Professor G. C. Bolton, Richard Daintree: a photographic memoir (in association with Jacaranda Press); Drs D. G. Bettison, C. A. Hughes, and P. van der Veur (eds.), The Papua-New Guinea Elections, 1964; Professor J. D. B. Miller and Dr T. H. R. Rigby (eds.), The Disintegrating Monolith: Pluralist Trends in the Communist World; and Mrs N. Caiden, A Bibliography for Australian Universities.
Three titles were reprinted: Dr C. A. Price, *Jewish Settlers in Australia*; Dr E. C. F. Bird, *Coastal Landforms*; and Mr F. H. Langman (ed.), *A. H. Clough, Selected Poems*.

Four new titles will be published early in the new year—Professor J. Rutherford and Dr T. Langford Smith, *Land and Water*; Mr E. K. Fisk (ed.), *New Guinea on the Threshold*; Dr W. S. Ramson, *Australian English*; and Dr B. D. Graham, *The Australian Country Party*—five others are now in course of production and two others are being reprinted: Dr T. M. Perry, *Australia's First Frontier*; and Dr R. A. Gollan, *Radical and Working Class Politics* (both in association with Melbourne University Press).

Overseas interest in this University's books, which varies in accordance with subject and specialization, nonetheless continues; editions of three independently published titles have already been placed in England and America, and, as a result of our participation in the Frankfurt Book Fair, four more are presently being negotiated, in addition to those placed on the overseas market by the co-publisher.

The Publications Section continues to give editorial and production advice, and assistance to various departments of the University. On behalf of Central Administration it has edited and seen through the press the translation of Professor D. Ia. Martynov's *Observatories in Australia* and two inaugural lectures: Professor J. D. Ovington's *The Role of Forestry* and Professor H. Kuhn's *Language and Nation*. During the year the section has also distributed the following new and continuing works for departments: Dr E. C. F. Bird, *A Geomorphological Study of the Gippsland Lakes*; Professor W. D. Borrie and Miss G. Spencer, *Australia's Projected Population by States and Territories*; Professor L. Broom *et al.*, *An Occupational Classification of the Australian Workforce*; Mr A. L. Burns *et al.*, *Nuclear Dispersal in Asia and the Indo-Pacific Region*; Professor A. H. Johns, *A Gift Addressed to the Spirit of the Prophet*; Dr G. J. R. Linge, *Delimitation of Urban Boundaries, New Guinea Research Unit Bulletin*; Mr D. C. S. Sissons (ed.), *Modern Japan, 1965*; and Dr J. L. Vellut, *Asian Policy of the Philippines*.

In September Mr M. Jeanneret, Director of the University of Toronto Press, visited Canberra for two months on the invitation of the University, to advise Council on the development of the University Press. Mr Jeanneret's report and recommendations are to be considered early in the new year.

**SITE AND BUILDINGS**

Details of buildings completed in 1965, those under construction and in the design stage, are given in the Building Programme Summary which appears later in this Report.

A number of the projects included in the approved building programme for the 1964–66 triennium were completed during 1965, and the remaining projects are expected to be completed during 1966. Many of the latter are under construction and the remainder are at an advanced stage of planning.

Major buildings under construction include the Economics Building in the School of General Studies, the completion of the Halls of Residence complex, extensions to the Mathematical Sciences Building in the Institute of Advanced Studies and a building for the Research School of Chemistry.

Site works on a large scale have been required to meet the needs of occupants of new buildings and of increasing student traffic. Footpaths and parking areas have been provided, and a further bridge has been constructed across Sullivans Creek to provide pedestrian access from the Halls of Residence to the University Union and the General Studies Building of the University Library.

The University’s landscaping and planting programme has continued in step with the construction of buildings. Further reclamation and beautification of Sullivans Creek is being undertaken, and is expected to be completed by 1969.
The University’s submission to the Australian Universities Commission for the 1967–69 triennium was completed and submitted to the Commission in February 1965.

ENROLMENTS

Eighty-eight new research students were enrolled in the Institute of Advanced Studies in 1965 (up to 31 July) for courses of higher research. (The new research students include some forty-five Australians, fifteen from Britain, five from New Zealand, five from U.S.A. and ten from Asian countries.)

There were 1,173 new students in the School of General Studies compared with 885 in 1964. The total number of students was 2,568 compared with 2,029 in 1964. Of these 1,309 were full-time students and 1,259 were part-time students. Students enrolled in 1965 for the degree of master numbered 168 (165 in 1964). The number of enrolments for bachelors’ degrees was 2,340 and there were 318 enrolments (333 in 1964) for miscellaneous subjects.

DEGREES AWARDED

The degree of Doctor of Philosophy was conferred on: B. L. Abbi (Anthropology and Sociology); V. P. Ackerman (Experimental Pathology); M. R. Allen (Anthropology and Sociology); L. D. Atkinson (History, Institute of Advanced Studies); G. R. Bartlett (History, Institute of Advanced Studies); K. G. Basavarajappa (Demography); R. J. Baxter (Theoretical Physics, Institute of Advanced Studies); D. J. Belford (Geology); R. Bhavilai (Astronomy); R. S. Boesen (Geophysics and Geochemistry); R. J. Cameron (Botany); K. E. H. Dixon (Zoology); D. W. Dockrill (Philosophy, Institute of Advanced Studies); R. M. Dreizler (Theoretical Physics, Institute of Advanced Studies); M. J. Dunwoody (Mathematics, Institute of Advanced Studies); D. K. Gibson (Physics); Barbara J. Gillam (Psychology); J. G. Hall (Experimental Pathology); R. A. Hawkes (Microbiology); A. Healey (Anthropology and Sociology); C. C. Heyde (Statistics, Institute of Advanced Studies); M. A. Jaspan (Anthropology and Sociology); R. L. Jory (Electron and Ion Diffusion Unit); R. Kumar (History, Institute of Advanced Studies); G. P. Lawrence (Nuclear Physics); D. A. M. Lea (Geography, Institute of Advanced Studies); J. M. Matthews (Anthropology and Sociology); J. Narain (Law, Institute of Advanced Studies); T. Oshima (Physiology); R. T. Pidgeon (Geophysics and Geochemistry); K. G. Pont (Philosophy, Institute of Advanced Studies); D. I. Pool (Demography); N. A. Powell (Geology); I. D. Rae (Chemistry); W. R. Roff (Pacific History); R. W. Ryall (Physiology); J. H. Sass (Geophysics and Geochemistry); D. A. Scarr (Pacific History); P. Schiff (Biochemistry); M. W. Simpson-Morgan (Experimental Pathology); L. P. Singh (International Relations); J. P. Singh Uberoi (Anthropology and Sociology); M. R. Stauffer (Geology); L. Sternstein (Geography, Institute of Advanced Studies); J. A. A. Stockwin (International Relations); C. M. Tatz (Political Science, Institute of Advanced Studies); Alice E. S. Tay (Law, Institute of Advanced Studies); T. Teitei (Medical Chemistry); R. B. Vaughan (Experimental Pathology); J. L. Vellut (International Relations); D. B. Waterson (History, Institute of Advanced Studies).

The degree of Master of Arts was conferred on: D. Buxton (Political Science, School of General Studies); Hope V. Fitzhardinge (History, School of General Studies); J. L. Melhuish (Economics, School of General Studies).

The degree of Master of Arts with Honours was conferred on: J. A. Grieve (French); Chander K. Gupta (Pure Mathematics, School of General Studies); Patricia M. Kennedy (Classics).

The degree of Master of Economics was conferred on: D. J. Cleary (Economics, School of General Studies); Margaret A. Waugh (Economics, Research School of Pacific Studies).
The degree of Master of Science was conferred on: K. S. Cheah (Physiology); D. P. Fearnley-Sander (Mathematics, Institute of Advanced Studies); A. R. Jensen (Geology); C. S. Rann (Chemistry); Catherine M. Sass (Experimental Pathology); Teresa Scruton (Mathematics, Institute of Advanced Studies); N. N. Tait (Zoology); E. G. Wilson (Geology).


The degree of Bachelor of Arts with Honours was conferred on: Vida E. Andruska, A. P. Godfrey-Smith, T. R. Jones, Winifred G. Kearsley, J. Vrolijk.


The degree of Bachelor of Economics with Honours was conferred on: J. D. Craig, W. T. Dent, Judith N. Potter, J. J. Shadlow, E. R. Thorn.

The Diploma in Public Administration was awarded to: L. W. Lyons.

The degree of Bachelor of Laws was conferred on: K. J. Johnston, J. M. C. King.

The degree of Bachelor of Laws with Honours was conferred on: S. P. K. Brown, A. Cirulis, P. N. Guild, J. Laucis, T. A. O’Brien, R. T. Viney, P. K. Waight.

The degree of Bachelor of Arts (Oriental Studies) was conferred on: S. L. Graham, Janet L. Hely, A. Jackson, Biruta Udris.

The degree of Bachelor of Arts (Oriental Studies) with Honours was conferred on: Leonie J. Callaghan, Jennifer E. Mayne.

The degree of Bachelor of Science was conferred on: Elizabeth M. Betts, G. V. Chapman, Denise A. Daly, J. A. Deakin, H. F. Doutch, Andrea J. Hunter, I. D. Munro, M. M. W. Ngan, P. F. Pentony.

The degree of Bachelor of Science with Honours was conferred on: W. K. Bertram, M. J. Dallwitz, A. S. Kaye, Hilary J. Kingdon.
PRIZEWINNERS

*The Alliance Francaise de Canberra Prize*  French I: Judith Alison King  French II: Jane Philippa Gilmour  French III: Susan Elizabeth Falk and Shirley Anne Irwin Waller (equal)  French IV: John Leslie Lander

*The Australian Institute of Physics Prize*  Jeremy Francis Haasz

*The Australian Society of Accountants’ Prize*  William John Coad

*The British Psychological Society Prize*  Penelope Joan Cunliffe and Lynette Anne Davis (equal)

*Canberra Association of University Women Prize*  Ann Louise Kumar: South-East Asian Studies

*The Canberra Goethe Society Prize*  German I: Janet Elizabeth Price  German II: Elizabeth Sawer  German III: Helena Aulikki Immonen  German IV: Not awarded

*The C.S.R. Chemicals Prize*  Ian Gosney

*The Commonwealth Forestry Bureau Book Prize*  Kenneth James Phillis


*The Geological Society of Australia Prize*  Not awarded

*The George Knowles Memorial Prize*  Pauline Ruth Armstrong

*The Institute Prize for Economic History*  Colin Frederick Allum and Peter Lawrence Swan (equal)

*The Lady Isaacs’ Prize*  Peter John Reath Read

*The Marie Halford Memorial Prize*  Jillian Mary Arthur

*The Permanent Trustee Company (Canberra) Limited Prize*  Equity: Peter Buchanan  Property II: Gunvaldis Janis Lukstins

*The Professional Officers’ Association Prizes*  Physical Sciences: Edward Norman Dancer  Biological Sciences: Not awarded


*Rachel Dorph Memorial Prize*  Adrienne Burgess

*The Ramsay Prize*  Lois Jacqueline Lovedee and James Barry Shineberg (equal)

*The Royal Australian Chemical Institute Prize*  Paul William Atkinson

*The Royal Institute of Public Administration Prize*  Not awarded

*The Shell Company Prizes*  Economics: Desmond John Ball  Science: Physics III: Geoffrey Stewart Marchant

*The Statistical Society of Canberra Prize*  Andrew Struiik

*The Timbind Utilization Prize*  Marcus Langham Higgs

*The Tillyard Prize*  John Henry Coates and Elizabeth Anne Reid (equal)

*The United Commercial Travellers’ Association Prize*  Barbara Judith Swan

*The University Prizes*  John Henry Coates: Honours School of Pure Mathematics  Michael John Dallwitz: Honours School of Pure Mathematics  Alan David Gilbert: Honours School of History  Ann Louise Kumar: Honours School of South-East Asian Studies

*The W. B. Clarke Prize in Geology*  David Powys Legg and James Ian Raine (equal)
Through the generosity of an anonymous donor the University has acquired a group of seven large paintings by Leonard French depicting the seven days of creation. Mr D. K. R. Hodgkin, Registrar, Institute of Advanced Studies, is admiring the largest painting which is 12 ft in diameter.
Professor H. Burton, C.B.E., Principal of the School of General Studies, retired in December 1965.
The opening of Burton Hall added 250 places to the accommodation available for men and women undergraduate students in the University. Burton Hall shares the central amenities block with Garran Hall.
The homopolar generator, which underwent successful tests in 1965, seen during assembly, showing the main structure, the two rotors, the brush gear air tanks and the main current leads from the machine.

In the language laboratory used in the Faculties of Arts and Oriental Studies students are able to hear tape recordings of the language being studied and to make recordings by which to gauge their progress.

The Centre of Oriental Studies building which has classrooms and staff offices in its main block, seen from across Sullivans Creek.
Siding Spring Observatory—the field station of the Department of Astronomy—was opened in April by the Chancellor, Sir John Cockcroft.

The University Union seen across the grassed court which separates it from the General Studies Building of the University Library.
An architect's model of the main building, associated lecture theatre and library for the Research School of Chemistry.

Forestry students measuring the cross sectional area at various levels up a tree stem. These measurements enable an estimate to be made of the growth and yield of the tree.
Before the conclusion of his term as Governor-General, Viscount De L'Isle presented a silver loving cup to University House. The cup has a base of Alpes jade and the detachable cover bears a porcupine—part of the Sidney family arms.

A research scholar and his wife relax in their flat, which is one of fifty in a three-storey block erected by the University. Each flat has a living-room with a kitchen alcove, a bedroom, bathroom and small study area.
The Vice-Chancellor, Emeritus Professor Sir Leonard Huxley, speaking with The Rt. Hon. Lord Casey in the R. G. Menzies Building of the University Library during His Excellency’s first visit to the University as Governor-General.

H.R.H. The Duchess of Gloucester accompanied by the Dean of the Faculty of Science, Professor D. N. F. Dunbar, the Chancellor, Sir John Cockcroft and the Vice-Chancellor, Emeritus Professor Sir Leonard Huxley, moves through the science precinct during her visit to the University in March.
Staff Numbers

The total full-time staff (excluding research scholars) as at 31 July 1965, was 1,733 representing a net increase of 153 over the corresponding figure at 31 July 1964, namely 1,580.

The academic staff increased by fifty-two (eleven per cent) from 458 to 510 and the non-academic staff increased by 101 (nine per cent) from 1,122 to 1,223.

Senior Staff Appointments

Dr N. Barnard, Senior Fellow in Far Eastern History, formerly Fellow.
Dr R. L. Blakley, Professorial Fellow in Biochemistry, formerly Senior Fellow.
Dr C. A. Blyth, Professorial Fellow in Economics, Research School of Pacific Studies, formerly Director of the New Zealand Institute of Economic Research Incorporated.
Dr R. F. Brissenden, Senior Research Fellow in Philosophy, formerly Senior Lecturer in English, School of General Studies.
Dr Paula Brown, Senior Fellow in Anthropology and Sociology, formerly Fellow.
Dr E. H. Creaser, Senior Fellow in Genetics, formerly Senior Lecturer at the University of Birmingham.
Dr R. G. Crocombe, Senior Fellow, New Guinea Research Unit, formerly Research Fellow.
Dr R. Ho, Senior Fellow in Geography, formerly Professor of Geography at the University of Malaya.
Dr R. A. Marshall, Senior Research Engineer (Senior Fellow), formerly Fellow.
Dr D. J. Mulvaney, Senior Fellow in Anthropology and Sociology, formerly Senior Lecturer at the University of Melbourne.
Mr N. B. Nairn, Senior Fellow in History, formerly Associate Professor of History at the University of New South Wales.
Professor G. H. Newstead, Professor and Head of the Department of Engineering Physics, formerly Professor of Electrical Engineering at the University of Tasmania.
Dr M. R. Osborne, Head of Computer Centre, formerly Assistant Director of the Computer Unit, University of Edinburgh.
Dr D. D. Perrin, Professorial Fellow in Medical Chemistry, formerly Senior Fellow.
Dr D. R. Rawson, Senior Fellow in Political Science, formerly Senior Research Fellow.
Dr Marieo Reay, Senior Fellow in Anthropology and Sociology, formerly Fellow.
Dr C. D. Rollins, Senior Fellow in Philosophy, formerly Professor of Philosophy at Oberlin College, Ohio.
Dr L. Searle, Senior Fellow in Astronomy, formerly Fellow.

Senior Staff Resignations

Dr D. G. Bettison, Senior Fellow, New Guinea Research Unit, on appointment as Associate Professor in Anthropology at Simon Fraser University, Vancouver.
Dr E. S. Crawcour, Senior Fellow in Far Eastern History, on appointment to the Chair of Japanese in the School of General Studies.
Professor W. H. Elliott, Professor in Biochemistry, on appointment to the Chair of Biochemistry at the University of Adelaide.
Professor S. N. E. E. Fazekas de St. Groth, Professor in Virology, on appointment to the Division of Animal Genetics, Commonwealth Scientific and Industrial Research Organization.
Professor Sir Keith Hancock, Professor and Head of the Department of History, on retirement.
Professor J. W. Miles, Professor in Applied Mathematics, on appointment as Professor of Aerospace Engineering and Geophysics at the University of California.

SENIOR STAFF APPOINTMENTS AND PROMOTIONS

Mr D. W. A. Baker, Reader in History, formerly Senior Lecturer.
Professor A. L. Basham, Professor and Head of the Department of Asian Civilization, formerly Professor of History of South Asia, School of Oriental and African Studies, University of London.
Dr H. Bluhme, Senior Lecturer in Linguistics, formerly Research Fellow in Holland.
Dr J. H. Bradbury, Reader in Chemistry, formerly Senior Lecturer.
Mr L. T. Carron, Senior Lecturer in Forestry, formerly at the Australian Forestry School.
Professor E. S. Crawcour, Professor and Head of the Department of Japanese, formerly Fellow, Department of Far Eastern History, Institute of Advanced Studies.
Dr C. E. Dahlstrom, Senior Lecturer in Physics, formerly Lecturer.
Professor J. W. de Jong, Professor and Head of the Department of South Asian and Buddhist Studies, formerly Professor of Buddhism and Tibetan at the University of Leiden.
Dr W. J. Ewens, Senior Lecturer in Statistics, formerly Lecturer.
Mr W. J. Ginnane, Senior Lecturer in Philosophy, formerly Senior Lecturer in Philosophy at the University of Sydney.
Mr N. Hall, Senior Lecturer in Forestry, formerly Senior Lecturer in Forestry at the Australian Forestry School.
Mrs A. H. Hewitt, Senior Lecturer in English, formerly Lecturer.
Dr L. J. Hume, Reader in Political Science, formerly Senior Lecturer.
Professor K. S. Inglis, Professor in History, formerly Reader.
Mr W. R. C. Jay, Senior Lecturer in Accounting and Public Finance, formerly in the Commonwealth Public Service.
Professor H. Kuhn, Professor and Head of the Department of German, formerly Lecturer in German at the University of New England.
Mr F. H. Langman, Senior Lecturer in English, formerly Lecturer.
Dr T. Liu, Reader in Chinese, formerly Senior Lecturer.
Mr K. Lycos, Senior Lecturer in Philosophy, formerly Lecturer in Philosophy at the University of New South Wales.
Mr K. P. McGrath, Associate Director of Forestry, formerly Acting Principal at the Australian Forestry School.
Mr K. L. McKay, Reader in Classics, formerly Senior Lecturer.
Mr S. M. A. Meggitt, Senior Lecturer in Applied Mathematics, formerly Lecturer.
Mr W. Milgate, Reader in English, formerly Challis Professor of English, University of Sydney.
Professor J. D. Ovington, Professor and Head of the Department of Forestry, formerly Head of the Woodland Section, Nature Conservancy, England.
Professor J. D. Pitchford, Professor in Economics, formerly Reader.
Dr M. J. Rickard, Senior Lecturer in Geology, formerly Lecturer.
Mr A. J. Rose, Reader in Geography, formerly Senior Lecturer.
Mr D. J. Rose, Senior Lecturer in Law, formerly Senior Legal Officer, Attorney-General's Department, Canberra.

Dr J. R. T. Short, Senior Lecturer in Zoology and Warden of Garran Hall, formerly Senior Lecturer in Agricultural Zoology and Head of the Department of Entomology at the University of Aberdeen.

Mr A. H. Simpson, Reader in Law, formerly Senior Puisne Judge of Malaysian High Court.

Mr Soewito-Santoso, Senior Lecturer in Indonesian, formerly Lecturer.

Mr P. E. M. Standish, Senior Lecturer in Accounting and Public Finance, formerly Lecturer in Accounting at the University of Sydney.

Dr Ethel E. Tory, Senior Lecturer in French, formerly Lecturer.

Dr C. H. Tyndale-Biscoe, Senior Lecturer in Zoology, formerly Lecturer.

Dr J. S. Western, Senior Lecturer in Psychology, formerly Lecturer.

Professor H. Whitmore, Professor in Law, formerly Senior Lecturer at the University of Sydney.

Mr L. R. Zines, Reader in Law, formerly Senior Lecturer.

Dr Joyce I. Ackroyd, Associate Professor in Japanese, on appointment to the Chair of Japanese, University of Queensland.

Dr R. F. Brissenden, Senior Lecturer in English, on appointment as Senior Research Fellow, Department of Philosophy, Institute of Advanced Studies.

Mr K. E. Enderby, Senior Lecturer in Law, to private practice.

Professor N. G. D. Malmqvist, Professor and Head of the Department of Chinese, on appointment to the Chair of Sinology, University of Stockholm.

Dr J. B. Miller, Reader in Pure Mathematics, on appointment to the Chair of Pure Mathematics, Monash University.

Dr I. de Rachewiltz, Senior Lecturer in Asian Civilization, on appointment as Fellow, Department of Far Eastern History, Institute of Advanced Studies.

Professor R. L. Sharwood, Professor of Law, on appointment as Warden of Trinity College, Melbourne.

Mr H. Tarlo, Reader in Law, on appointment to a Chair of Law, University of Queensland.

Dr R. F. E. Van der Borrhgh, Associate Professor in Applied Mathematics, on appointment to the Chair of Applied Mathematics, Monash University.

The University was glad to afford facilities for the work of the following overseas research workers: Professor P. S. Sarma, Indian Institute of Science, Bangalore; Dr A. G. Sanders, University of Oxford; Mr G. W. P. Dawson, Trinity College, Dublin; Professor M. M. Rhoades, University of Indiana; Professor N. H. Giles, Yale University; Professor W. Pfleiderer, Technical University of Stuttgart; Dr J. McCormack, Yale University; Professor G. B. Brown, Cornell University; Dr Billie L. Padgett, University of Wisconsin; Dr G. Appleyard, Porton Microbiological Research Establishment; Dr Berttina Wentworth, University of California; Dr J. Hotchin, State of New York Health Department; Dr P. Strata, Institute of Physiology, Pisa; Professor K. T. Brown, San Francisco Medical Center; Dr P. Matthews, University of Oxford; Dr P. P. N. Rudomin, Research and Advanced Studies Institute of Mexico; Dr A. Angel, Institute of Psychiatry, London; Dr D. M. Lewis, University of London; Dr W. Sargent, University of California; Dr J. B. Oke, California Institute of Technology; Dr J. E. Everett, University of Cambridge; Professor A. E. Beck, University of Western Ontario; Dr J. Weigold, University College of South Wales and Monmouthshire, Cardiff;
Visitors

During the year the University was honoured by the visit of:

H.R.H. The Duchess of Gloucester
H.R.H. Princess Alice, Countess of Athlone
H.E. The Rt. Hon. Viscount De L’Isle
T.E. The Governor-General and Lady Casey
H.R.H. The Crown Prince of Laos
Mr Lee Kwan Yew, Prime Minister of Singapore
Lij Kassa Wolde Mariam and H.H. Princess Seble of Ethiopia.

Among overseas visitors to the University were: The Rt. Hon. A. G. Bottomley, Secretary for Commonwealth Relations, England; Sir Steven Runciman, University of Cambridge; Dr K. O. Dike, University of Ibadan; The Hon. J. T. Connolly, Lord Adrian, England; Professor J. E. Harris, University of Bristol; Mr M. R. Krishna, India; Professor R. S. Krishnan, Indian Institute of Science, Bangalore; Professor M. Praz, University of Rome; Dr M. R. Siddiqi, University of Islamabad; Dr. S. M. Sharif, Pakistan; Mr Kwan Sai Kheong, Singapore; Mr B. Reckitt, England; Professor E. A. Boateng, University of Ghana; Sir George Pickering, University of Oxford; Dr M. Ghani, University of Dacca; Dr Lim Tay Boh, University of Singapore; Professor R. W. Steel, University of Liverpool; Professor G. V. Raynor, University of Birmingham; Professor R. W. Southern, University of Oxford; Dr G. Barton, University of Sussex; Professor J. E. Kersell, McMaster University; Professor J. K. Galbraith, Harvard University; Dr N. Stevens, Queen’s University, Belfast; Professor G. Curtis, University of British Columbia; Dr F. J. Turner, University of California; Professor T. Wilson, University of Toronto; Dr R. Fitzgerald, Scripps Institute of Oceanography; Professor R. Russell, Indiana University; Professor H. G. Benda, Yale University; Assistant Professor A. Alfonso, University of Hawaii; Dr Ooi Jin Bee, University of Malaya; Professor G. Dubien, University of Bordeaux; Associate Professor E. L. Ruhe, University of Kansas; Dr J. F. Foster, England; Professor G. Baldini, University of Rome.
BENEFACTIONS

Special Purpose Grants and Bequests to the University during 1965 were as follows:

<table>
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<tr>
<th>Donor</th>
<th>Amount</th>
<th>Purpose</th>
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<td>For scholarship—Department of Geology</td>
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<tr>
<td>Australian Atomic Energy Commission</td>
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<td>Australian Institute of Aboriginal Studies</td>
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<td>Australian Institute of International Affairs</td>
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<td>Australian Institute of Nuclear Science and Engineering</td>
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<td>Yuncken &amp; Freeman</td>
<td>365</td>
<td>For research—Department of Botany</td>
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</tbody>
</table>

Acknowledgement must also be made here of the many gifts in kind received by the University.
On being appointed Deputy Vice-Chancellor of the University, Professor A. H. Ennor, resigned the Headship of the Department of Biochemistry but remained as Dean of the School. It was with great satisfaction that the members of this School learned that the honour of Knight Bachelor had been conferred on Professor Ennor in the Queen's Birthday Honours List.

The University appointed Dr H. M. Whyte, a distinguished investigator in the field of ischaemic heart disease, to the Foundation Chair of Clinical Science. The Department of Clinical Science will be housed in the new wing of the Canberra Community Hospital, which is scheduled for completion in September 1966. This new development in the School has been warmly welcomed by the Canberra Community Hospital Board, and the School looks forward to continuing close relations between the Hospital and the University.

At the end of 1965 there were sixty-five members of academic staff in the School and forty-three students who were proceeding to the degree of Doctor of Philosophy.

In general terms the research of the Department of Biochemistry is concerned with investigations into (i) the nature of the chemical substances which are present in living organisms; (ii) the chemical reactions between these substances, including reactions which result in the synthesis of important cell constituents; and (iii) the means by which these chemical reactions are regulated to appropriate rates and organized in a useful pattern for the requirements of the living cell. Work performed in the past year falling into the first category has included the discovery that lanthionine is present in certain insects. Interest in the compound centres in the fact that this is the first occasion on which it has been shown to exist in the free-amino acid pool of living organisms. The compound was previously thought to arise only as a chemical artefact during the degradation of wool and other cystine-containing materials. Preliminary experiments on the distribution of lanthionine indicate that it is widely distributed throughout the insect kingdom.

Most of the current work, however, belongs to the second and third categories, that is, the study of biological chemical reactions and the way in which they are regulated. Major developments in this area include a study which has provided a detailed understanding of the way in which certain enzymes (proteins) from muscle promote the transfer of phosphate groups and are stimulated or retarded in this process by various ions. Techniques involved in this study include detailed measurements of enzymic reaction velocities under a great variety of conditions and the use of chemicals labelled with radioactive atoms.
Considerable progress has been made on the investigation into the way in which lactic acid bacteria use a derivative of vitamin B₁₂ in the process of synthesizing the building components for the nucleic acid, the material which governs reproduction and heredity. The enzymic protein with which the vitamin B₁₂ derivative co-operates has been purified some forty-fold and the chemical nature of the substances upon which it acts has been elucidated for the first time. Factors which regulate the production of this protein have also been studied in considerable detail. It has been shown that vitamin B₁₂ plays this role in several closely related strains of bacteria.

Another research group has been investigating the way in which micro-organisms synthesize and utilize phosphonates, a class of phosphorous compound in which phosphorus is directly linked to carbon and which has only recently been discovered to be present in living organisms. A protozoan has been shown to utilize phosphonate for the synthesis of phosphonate-lipid analogous to the normal phosphate-lipids.

The Biological Inorganic Chemistry Unit is concerned with the nature of metal complexes, their fundamental chemistry and their application to biology. In the past year studies of the effect of metal ions on the mode of reaction of certain amino acid derivatives have led to a better understanding of the mechanism of these reactions. A significant advance was also made in the understanding of reactions of hydrogen atoms attached to nitrogen when the organic molecule containing the nitrogen atom was captured by a metal ion. Both studies serve as model systems which may eventually help to clarify more complicated biological reactions.

In the Electron Microscope Unit a knowledge of the structural organization within cells, a valuable complement to that obtained by other techniques, such as biochemistry, is being sought by examining biological material at very high magnification. Photographs have been made, for example, showing the assemblage of a number of viruses by infected cells, which has helped towards understanding both the particular problem of controlling these specific viruses and also the most general problems of inheritance in biological systems. Certain other ingenious techniques have provided us with photographs of the actual molecules of nucleic acid, whose number and length are important data for the geneticist since they record the instructions which control the activity of cells.

It is the truly awe-inspiring conclusion of recent biology that the basic biochemistry and the structural units of all living organisms are the same. All are composed of cells and in all of these cells the long genetic molecules (DNA, RNA) direct the cells' biochemical machinery to make the materials from which the organism is constructed. The difference between a bacterium, a gum tree and a kangaroo follow inevitably from the nature of the raw materials their cells make and the way in which, like bricks and mortar, these materials come together. We are unravelling this architectural problem, 'brick by brick', by comparing the constructive details of examples of the very diverse kinds of organisms which form the animal kingdom. Why do some groups of cells stick together and form tissues?; why do others secrete fibres and jellies and fill up the spaces between them ?; are problems that a comparison of the highly magnified electron micrographs of organisms, very differently made, help us to solve.

Work in the Department of Experimental Pathology has continued on the basic mechanisms concerned in the origin and development of atherosclerosis, a disease of the arteries which is the underlying cause of several cardiovascular disorders, especially coronary heart disease. Investigations have been made on the fine structure of the arterial wall, both in normal and diseased states. Special attention has been given to the endothelium, the elastic tissue and to the cells in the wall. Experiments have also been carried out on the mechanism involved in the early stages of thrombosis.

Investigations have also been continued on the fine structure and functions of the small blood vessels, the capillaries. These studies are important in an understanding of the basic mechanisms involved when a tissue is injured by any agent resulting in inflammation.
Another major activity in the Department concerns the lymphatic system which plays an important role in the maintenance of the fluid balance and also in the absorption of antigenic materials which gain access to body. In this latter function, the lymphatic system transports antigens to the regional lymph nodes where they are taken up by phagocytic cells and acts also as a specific route for the return of immunologically active cells such as lymphocytes and macrophages to the blood following their migration into various tissues. Research into the physiology and pathology of the lymphatic system has been concerned with the reaction of regional lymph nodes and lymphocytes to various antigenic stimuli and to the study of the reactivity of lymphocytes when these cells are used as homografts. These experiments are designed to throw light on fundamental problems such as the mechanisms whereby the body develops a specific immunity against various antigens and the role of the lymphocyte in homograft reactions. Work is also in progress on different aspects of immunity in various experimental animals.

The work of the Department of Genetics is concentrated on molecular and biochemical genetics. During the year a laboratory for the analysis of proteins has been equipped and staffed. Already, substantial progress has been made in study of the detailed structure of one enzyme and of the alterations in it that are consequent upon changes in the gene responsible for the enzyme. The objective will be to correlate the changes in chemical structure, both with the genetic changes and with alterations in properties of the enzyme. This development will be supplemented, early in 1966, with a laboratory to study control mechanisms.

The molecular mechanism of genetic recombination is a major unsolved problem in biology. The study of heritable variations in this property promises to be a powerful method of attack on it. Several different genes have been found already. The functions they govern are varied. Ultimately, it should become possible to identify the precise enzymic reactions involved in recombination.

The Department of Medical Chemistry works with substances of low molecular-weight, particularly those belonging to chemical families in which powerful and specific biological effects have previously been found. The long-term aim is to correlate the molecular structure with biological properties. Very important contributions can be made by the chemist to this work through re-examination of the currently accepted structure of molecules. This approach often reveals a hitherto unsuspected lability, which can cause a substance to adopt a very different form from what has been proposed.

One of the most surprising discoveries of this kind, made in this Department a decade ago, was that many of the substances known as pteridines (which are intimately concerned with nucleic acid metabolism in the human body), have larger molecules than had hitherto been supposed. In fact they differ from the accepted structure by the elements of a molecule of water. These elements are not held in a simple mechanical fashion but are incorporated in the total molecule by covalent (i.e. strong) bonds. The implications of this discovery, known as 'covalent hydration' are far-reaching; among other effects, it is now apparent that the distribution of these substances between living tissues must be quite different from what had previously been thought. During the year under review, new examples of this phenomenon have been found, and other examples put on a quantitative basis. As a very promising further development, some recent results suggest that the particular double-bonds in the molecule that have this strong affinity for water, can alternatively attach themselves to other members of a whole class of substances known as nucleophiles, of which acetone is a familiar example.

Another biologically interesting type of lability concerns those ring-shaped molecules which readily fly open and then close to form a different kind of ring. One specially interesting example of this phenomenon, known as the Dimroth Rearrangement, concerns the pyrimidines, a class of substances which form a highly active portion of the giant molecules of nucleic acids. (These acids are the bearers of heridity in the living cell, and synthesize all of the cell's proteins including the enzymes which may be
thought of as the cell’s principal working parts.) The mechanism of the Dimroth Rearrangement has been investigated in this Department over a long period. In the year under review, a remarkable advance was made by the concerted efforts of various members, each contributing his special techniques. As a result, the multi-stage mechanism of this reaction is now reasonably well understood, and some of the kinetics have actually been measured.

Nucleophiles were referred to above, and it is well-known that nucleophilic substituents in a molecule can often be exchanged for one another. However, little is known of the mechanism and kinetics of these exchanges with respect to drugs and other biologically-active molecules. Work of this kind, undertaken in the Department, has now led to several publishable results. This, however, is a long-term project, which will continue through a great many years.

The acridines will now be mentioned. These have slightly larger molecules than those of most substances worked on in this Department. They are substances of entirely synthetic origin, often yellow in colour, and the molecules consist of three hexagons fused together. Formerly prized for their antibacterial and antimalarial properties (atebrin is a well-known acridine drug of this kind) the acridines have taken on a new interest as tools for the experimental biologist. One such use is as a fluorescent microscopical stain to distinguish between different kinds of nucleic acid in the living cell. So little is the cell affected by this ‘vital staining’ that its reproduction is unimpaired. This use has been extended to mapping the topography of the complex molecules of the nucleic acids which have been found to store the acridine molecules in regularly disposed pockets (the ‘intercalation effect’). Biologists are also using acridines such as proflavine, to form particular mutants of bacteria and viruses in the study of the whole phenomenon of mutation. Because of the renewed interest of biologists in the acridines, their study has been resumed in this Department and a new synthetic procedure has been discovered.

Modern chemical work is very much dependent on improved spectroscopic techniques and correlations, and these are constantly being studied here. A welcome addition became available to us this year through the purchase of a nuclear magnetic resonance spectrometer which can record the position of every hydrogen atom in the molecule. This is the smallest of all atoms and the most mobile, and no single technique could previously give this information. In the first eight months 1,500 requests for these ‘n.m.r. spectra’ were made in the Department.

The Department of Microbiology is the largest research group in Australia concerned with the study of animal viruses. During 1965 work on the virus disease of rabbits, myxomatosis, carried out by members of the Department since the disease first spread in Australia in 1950, was summarized in the book Myxomatosis written by Professor F. Fenner and F. N. Ratcliffe of the Commonwealth Scientific and Industrial Research Organization and published by Cambridge University Press. Most of the other work done in the Department has had less direct impact on everyday life than myxomatosis, but during the year work on influenza virus gave promise of a greatly improved vaccine for protection against this important human virus disease.

In keeping with its unique position in virology in Australia, the Department has a comprehensive programme of research which includes epidemiology (studies of the encephalitis virus in New Guinea), pathology (an examination of the classic ‘latent’ virus infection, lymphocytic choriomeningitis in mice) and studies in molecular biology which includes an attempt to elucidate the genetic structure of four viruses typical of four of the major groups, and a physicochemical study of the nucleic acid of an insect virus.

The aim of the Department of Physical Biochemistry is to bring to bear general principles of physical chemistry, and the methods of physical chemistry, on biochemical problems, and to help members of other departments to do so. The members of the Department are mostly physical chemists by original training. The choice of research problems is a matter for individual choice but the work in fact falls into a number of groups.
Outside the cells of the body, embedding and supporting them, lies a matrix of 'con­nective tissue' which takes a variety of forms. This matrix contains a number of complex polysaccharides, whose presence helps to determine the mechanical strength, rigidity and permeability of the tissues. One of our aims is to isolate and characterize these polysaccharides, to determine their properties and the effects that they may have under normal and pathological conditions. During the past year new methods have been devised for measuring the interactions of these substances with water and with other substances such as proteins.

Work on the proteins of milk is carried out, both in relation to their importance as nutritional substances and as examples of proteins that show specific genetic differences between different animals. One class of such proteins in particular, the \( \beta \)-lactoglobulins, show most interesting differences in their molecular stability; aggregation and disaggregation, and changes of molecular folding seem to depend critically on minor differences of composition. A variety of physicochemical methods is in use for investigating these changes; in particular, in the past year, work on optical rotatory dispersion and circular dichroism has thrown light on changes of molecular folding.

Studies are continuing on the enzymes concerned with the metabolism of sulphate in the animal. This class of enzymes, which has suffered relative neglect, is of importance in the metabolism both of tissue polysaccharides and of the steroid hormones. Members of the class also show interesting aggregation-disaggregation properties, with consequent changes of enzymic activity and kinetic properties which may help to throw light on the nature of enzymes generally.

Migration methods are and have been widely used in the separation and characterization of biological substances, but it is only now beginning to be realized that interactions between substances may seriously affect the interpretation of such experiments. A theoretical investigation has been successfully made of this problem and further work is in progress upon it.

The research work of the Department of Physiology continued to be concentrated particularly on the basic mode of operation of the brain and spinal cord. These tissues are composed of thousands of millions of living units or nerve cells, and investigations in the Department have been devoted to the study of the individual nerve cells and the way in which these individuals are linked together in all the co-ordinated activity of the nervous system. This communication from one nerve cell to another is effected by the secretion of minute amounts of chemical substances at special regions of close contact between cells, which are called synapses. The problems under investigation relate in part to the attempt to identify the chemical substances and to discover the way in which they act on the recipient cells. The electrical responses of the recipient cell are also being studied in detail. There are three classes of synapses on nerve cells: those that excite the cell and tend to make it send a message on to other nerve cells, those that tend to prevent this excitation by direct antagonistic action on the nerve cell, and finally, those that tend to prevent excitation by reducing the amount of excitatory substance produced by excitatory synapses.

These investigations on nerve cells and their interaction have led on to a study of the way in which the patterns of nerve cell connections are designed for the processing of information in the brain. That large and specialized region of the brain known as the cerebellum presents particularly favourable opportunities for an investigation of this kind, because there are available the most beautiful and precise studies of the structure of the cerebellum.

The cerebellum is unique in that on the one hand the constituent nerve cells are arranged in a laminated structure and on the other hand this arrangement is in the form of a rectangular lattice. We have been able to discover the functions of the various types of nerve cells and to give on this basis the first description of the way in which this neural machinery operates.
During the last year one group has been studying the nerve cells in the spinal cord and spinal reflexes with particular reference to the mode of action of naturally produced sensory discharges from muscle.

Studies in muscle have been concerned with the factors influencing the output of the transmitter whereby nerve impulses evoked muscle contraction and also with factors that control or modify the speed of muscle contraction. A new development has been the study of neuro-muscular synapses by electron microscopy.

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§ A member of the Department of Experimental Pathology.
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The year 1965 was one of smooth and steady progress in all departments. One notable feature was the large number of distinguished visitors who came from overseas to work for varying periods in the School. Perhaps the most important event was the reorganization of the former Department of Particle Physics into a Department of Engineering Physics. Professor G. H. Newstead, formerly of the University of Tasmania, took up duty as Head of this Department. The year was marked by successful trials of the homopolar generator and the setting up of a high-field magnet laboratory to be powered by this machine.

The new building to house most of the geochemical work of the Department of Geophysics and Geochemistry was completed and occupied. Construction of a building to house the new 24 in. polarizing telescope at Siding Spring Observatory is well under way. A number of minor building works was in progress at the end of the year: construction of a building to house the magnet laboratory and helium liquifier, extension of the working area of the homopolar generator, extension of the Mathematics Building and fitting out of its basement to give more studies, and fitting out of the upper storey of the Cockcroft Building to house the Computer Centre. Despite these additions, the School remains very short of space.

During 1965 Professor B. J. Bok gave notice of his intention to resign as Director of Mount Stromlo Observatory and steps have been taken to fill this position. Dr M. R. Osborne was appointed Head of the Computer Centre which for the time being is the responsibility of the School. Professor J. C. Jaeger's two-year term as Dean of the School expired at the end of 1965 and Professor E. W. Titterton was appointed Dean for a period of three years.

In recent years a feature of the research programme of the Department of Astronomy has been the expanding scope of spectrographic work. Advances have come about, firstly, through new research interests among staff and scholars and secondly, through the continuing expansion of spectrographic facilities. Full advantage is being taken of the Observatory's position in the southern hemisphere, which brings into view many objects inaccessible to the more numerous northern hemisphere observatories.

Stars with peculiar distributions of the chemical elements continued to be in the foreground of the Department's work. A remarkable peculiar star has been found in which all of the normal tell-tale spectrum lines are very faint or absent, but in which the spectrum lines from the rare earth element Holmium come out with almost unbelievable strength.

Work on the Magellanic Clouds and on the southern Milky Way has continued. A study of colours and brightnesses of stars in globular clusters associated with the Clouds, completed this year, proved conclusively that there are some very old clusters present in both Clouds. It has also been established that some of the clusters associated with the Clouds have properties that are not found in our own galaxy.

In studies of the Milky Way, blue stars continue to be of great interest. They are the stars searched for and studied in connection with the work on the spiral structure of the galaxy. The combined optical and radio astronomical data gathered in Australia now show almost conclusively that our galaxy is a tightly-wound spiral galaxy. This year the Department produced a new 'Atlas of Southern Open Clusters' from photographs made with the 74 in. reflector.
Blue stars also figured prominently in studies of the thin outer halo of the galaxy. The search for supernova remnants was continued in collaboration with radio astronomers in the Commonwealth Scientific and Industrial Research Organization.

The National Time Service continued its activities. Mount Stromlo Observatory is one of the few southern observatories contributing to the basic work on world-wide time and time signals are exchanged regularly with the Tidbinbilla Space-Tracking Station.

Daytime visitors to Mount Stromlo Observatory number almost 40,000 annually; at night numbers have had to be restricted to 1,700. Siding Spring Observatory, too, is attracting an increasing number of visitors.

Professor B. J. Bok, who has been Head of the Department since 1957, will leave the University in April 1966 to take up an appointment at the University of Arizona.

During his term of office the equipment at Mount Stromlo Observatory has been greatly improved, the new observatory at Siding Spring has been brought into operation and the output of astronomical research greatly increased. The work of the Department is known the world over and is a testimony to Professor Bok's leadership.

The Department of Engineering Physics comprises the former Department of Particle Physics as it existed in 1964. The change of name is more appropriate to the work of the Department but does not constitute a major change in the research activities.

The major work of the Department was a continuation of the development of the homopolar generator. This is completed to a stage where it is ready for experiments with intense magnetic fields to be conducted in the first half of 1966. The homopolar generator will continue to require maintenance and there is also a considerable amount of work to be done to improve the layout, operation, control, instrumentation and auxiliaries and to provide safety measures.

Research work was also carried out on the physics and technology of brushes, technological problems raised by the construction of the homopolar generator and a small toroidal plasma machine. Further modifications to the homopolar generator are being planned but will not be carried out unless a specific need for them arises. During 1965 the machine operated for 195 hours and produced 1,200 pulses, about 400 of these with currents in excess of half a million amperes. One pulse produced a current of 1.8 million amperes and another an energy of 250 megajoules.

Professor G. H. Newstead commenced duties as Head of the Department in July and it was agreed that he could continue with his studies on information processing using facilities on the University's computer. In association with the Department of Geophysics and Geochemistry this Department is responsible for the operation of the United Kingdom Atomic Energy Authority's seismic array near Tennant Creek. The operations at Tennant Creek have been sub-let to a local geophysical company and this Department's function in this operation is confined to the provision of technical support. This Department's interest is mainly in discovering optimum methods of processing the records. The availability of these facilities will make possible a wide variety of important research.

The Department of Geophysics and Geochemistry continued work along established lines, some sixty-four papers having been published during the year. The only completely new activity was the setting up of a small radiocarbon dating laboratory which will be operated jointly with the Department of Anthropology and Sociology.

Work on the dating of Australian and other rocks, partly in collaboration with the Bureau of Mineral Resources, Geology and Geophysics, has continued very actively with special emphasis on Precambrian stratigraphy. About 1,000 results have been obtained by rubidium-strontium methods, some 250 by potassium-argon methods, and about 100 by lead methods, the latter mostly in a study of mineralized regions.
In experimental petrology, systematic studies have been made of the origin and fractionation of basaltic and andesitic magmas; these have fundamental significance for the study of volcanic rocks. Development of apparatus continues; two types of new devices are being developed which at present generate pressure of up to 80,000 atmospheres at temperatures of 1,500°C. Diamonds have been synthesized in both these devices.

Studies of the distribution of trace elements in the crust continues. In particular, systematic measurement of uranium and thorium contents are being made which will be used in connection with heat flow measurements, of which an additional dozen have been made. Palaeomagnetic measurements continue, and have been made on iron ore bodies in South and West Australia. Recent reversals of the Earth's magnetic field have been studied in the volcanic island of Reunion.

Several overseas scientists have come to work on the high-temperature deformation apparatus, and a number of geologically important questions have been studied such as the formations of slaty cleavage, and the deformation of serpentinite, olivine and diopside.

The seismic network has located about 120 local earth tremors during the year. In a highly successful collaboration with the Royal Australian Navy, signals were received from depth charges which have provided valuable information about travel times in Eastern New South Wales.

Members of the Department of Mathematics were again in demand for lectures and consultation in Australia and overseas; and for positions in other Australian departments of mathematics. Dr Z. Janko left to take up a Chair of Pure Mathematics at Monash University, and several research scholars were offered lecturing appointments elsewhere, on completion of their theses for the degree of Doctor of Philosophy. Numerous mathematicians from many parts of the world visited the Department and contributed to its mathematical life.

The first international conference on a special mathematical topic, namely Theory of Groups, to be held in Australia was organized jointly by this Department and the Department of Pure Mathematics, School of General Studies. It took place in August, and attracted forty-five participants from overseas and forty-four from Australia.

The work of the Department of Nuclear Physics during the year centred heavily around the tandem accelerator, which operated for 6,000 hours—a twenty per cent improvement on last year's figures. For the major portion of the time, He\(^3\) and He\(^4\) beams were accelerated using the 2 MeV injector. During July the full inclined field tube was installed and following this the machine achieved a new energy record of 14 MeV.

Although the staff was depleted by the absence of two senior members on study leave overseas, thirty-three papers were published, mainly in overseas journals, and seven were in preparation at the end of the year. Notable among researches with the tandem accelerator were a detailed study of the He\(^3\)+B\(^{10}\) system through all particle exit channels, a study of the compound nucleus O\(^{17}\) through the reactions C\(^{13}\) (aa) and C\(^{13}\) (aγ), investigations of collective models through the excitation of nuclei using He\(^3\) projectiles, elastic α-scattering on He\(^4\) and C\(^{12}\) and elucidation of reaction mechanisms in the Be\(^9\) (pd) Be\(^9\) (He\(^3\)α) and B\(^{11}\) (He\(^3\)α) cases.

In the course of studies on the Ne\(^{22}\) (αγ)Mg\(^{25}\) reaction using a gas target interesting lifetime effects were observed; elucidation of the processes eventually led to the development of a technique for measuring lifetimes. The few-nucleon interaction work has continued—the main experiments being a α-triton and He\(^3\)-triton scattering together with a measurement of the tensor polarization in (d-α) scattering at large centre-of-mass angles. The broad-range Buechner spectrograph is in full-scale operation and by the end of the year the 24 in. double-focussing spectrograph, following its redesign, was within a few months of commissioning.
A data plotting room, with read-out and automatic plotting was completed and brought into operation and a data-acquisition and processing centre designed. This will incorporate an I.B.M. 1800 system and is expected to come into use before the end of 1966.

On the 1.2 MeV accelerator, applications of target modulation techniques to nuclear spectroscopy were examined. A 100 KV power supply was modulated to provide sawtooth waveforms with peak-to-peak amplitudes of 3, 6, 12, 25, 50 and 100 KV.

The method proved powerful for the automatic recording of excitation functions, measurement of resonance widths and the accurate determination of target thicknesses. But perhaps the most important application was for the determination of the energy distributions of particles emerging from thin foils.

The Department of Theoretical Physics continued to work on problems of nuclear physics, elementary particle physics, statistical mechanics, and plasma physics. So far as is possible the work is related to the experimental interests of the School but, as in the whole discipline of Theoretical Physics, there is a tendency to increased abstraction.

During the year there were profitable interchanges of staff with Australian, Indian and Japanese universities. Two staff members were on study leave in the U.S.A. and in England.

The Head of the Computer Centre, Dr M. R. Osborne, was appointed to take up duties in January 1966, and some supporting programming staff have already taken up their duties.

During 1965 the I.B.M. 1620 computer continued to be run by the Department of Theoretical Physics. A total of 5,821 hours of machine time was used.

The specification of the new University computer, an I.B.M. 360, was finalized by the University's Computer Committee. Arrangements have been made to house the equipment in the Cockcroft Building and the necessary work is in hand.

The overall aim of work in the Diffusion Research Unit is to gain information about the least-known state of matter, the liquid state. As one means to this end, the technique of tracer-diffusion using radio-isotopes has been highly developed. Data obtained from this type of experiment allows calculation of friction coefficients which are fundamental parameters for interaction between molecules in liquids.

During the year, such friction coefficients for two systems have been determined and reported in the literature. These are the first meaningful data of this type to be published and have aroused considerable interest in this field. The interpretation of the behaviour of these coefficients when certain variables are changed should lead to better theoretical insight into the nature of molecular forces in liquids.

The Reserve Bank of Australia grant for fuel cell research terminated in October. The research project financed by the grant, which was concerned with transport measurements in molten salts, was completed during the year.

The work of the Electron and Ion Diffusion Unit on the measurement and interpretation of transport coefficients for electrons and ions drifting and diffusing through neutral gas continued. The principal new developments are the successful measurements of these coefficients for electrons under conditions in which primary and secondary ionization are significant processes, the commencement of experiments to determine the identity of the ions formed in mobility experiments and the completion of the first measurements of the ratio mobility to diffusion coefficient for electrons almost in thermal equilibrium with gases at 78°K.

The work on the determination of the energy dependence of the momentum transfer cross-section in helium has been successfully concluded. The degree of self consistence in the analysis of the data for three transport coefficients suggests the superiority of the
cross-section determined from the data and this is supported by the agreement between our experimental values and the most recent and detailed wave-mechanical calculations.

In the Physics of Ionized Gases Unit apparatus was constructed and tested for the detailed study of some aspects of the phenomena accompanying collisions between electrically charged particles (ions), and gases or solid surfaces.

A new method for the acceleration of electrically charged particles to extremely high energies was developed, and some preliminary experiments were designed.

Professor Sir Mark Oliphant was on study leave from April to October, and was able to discuss these problems in detail with experts abroad.

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*Astronomy*


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* Based on work done while a member of the Department.
§ A member of the Department of Geology.
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§ A member of the Department of Nuclear Physics. ‡ Not a member of this University. * Based on work done while a member of the Department.
RESEARCH SCHOOL OF SOCIAL SCIENCES

REPORT OF THE DIRECTOR

Professor P. H. Partridge

Work proceeded in the several departments along the lines described in earlier Reports and resulted in a substantial body of publication during the year.

Prompted by an inquiry to the University from the Minister for Territories following the report of the Currie Commission, the Director and Professor G. Sawyer, together with Professor J. E. Richardson of the School of General Studies and Dr Marie O. Reay of the Department of Anthropology and Sociology, visited Papua and New Guinea to examine a suggestion that the School should undertake research on legal problems connected with the development of the Territory. The Department of Law has decided to initiate research in this area. A new post, a professorial fellowship in Papua-New Guinea law, has been advertised; it is hoped too that present members of the Department will give some attention to legal developments and problems of New Guinea. A seminar is being arranged under the auspices of the Department of Law for the early part of 1966 to enable academic lawyers in Australia and legal officers from the Territory to discuss fruitful fields of research and to examine possibilities of co-operation in research.

The Department of Political Science has also been active in work on political and administrative progress in the Territory. Professor R. S. Parker has been assisting in the development of the Administrative College in Port Moresby and his visit to Africa during his study leave was undertaken partly with his interests in New Guinea affairs in mind. A member of the Department, Dr C. A. Hughes, was joint editor of and contributed three chapters to the book, The Papua-New Guinea Elections 1964, which was published in 1965.

The School has decided to start research on problems connected with urban growth in Australia and for this purpose an Urban Research Unit was set up during the year. The unit will be separate from the ordinary departmental organization of the School; its activities will be supervised by a committee on which all interested departments are represented; and it is hoped that members of several departments will take part in its work. Two appointments have been made to the Unit the early work of which will deal with certain economic aspects of urban growth. Seminars were organized in the School on problems of urbanization in which a number of persons employed in city planning and administration in Australia have participated. There have been discussions in the School of the possibility of making greater use of the kind of inter-disciplinary, inter-departmental Unit, concentrating on a fairly specific research area, of which the Urban Research Unit is an example.

Another attempt in 1965 to fill the Chair of Sociology was unsuccessful. However, the small Department continued to be active and, as mentioned in the last Annual Report, it was fortunate enough to enjoy the presence of a leading sociologist from the United States of America who remained for the greater part of 1965. In collaboration with other members of the Department, he commenced a major study of social stratification in Australia which will require several years to complete and in which he will continue to participate.

Members of the Department were heavily engaged in the teaching of the courses in Sociology for the degree of Master of Arts which were established two years ago by arrangement between the Research School of Social Sciences and the School of General Studies; in fact, the greater part of the teaching has been done by staff of the Research School. The courses have proved to be a distinct success. As many students as could be
comfortably taught and supervised have applied for enrolment; and the course will produce a small output of graduates with postgraduate training in sociology to fill teaching posts in newly established departments of sociology in other Australian universities.

The School also gave assistance, both financially and through the services of staff members, in the launching of a new national journal, *The Australian and New Zealand Journal of Sociology*. A member of the Department of Sociology is editor and the first two numbers have reached a high standard.

Another successful example of collaboration with members of other universities was a summer school in January and February, organized by Dr Eleanor M. Searle of the Department of History, which brought together a group of history students from several universities for training in techniques required for the study of mediaeval history. Under the direction of the General Editor, Professor D. H. Pike, the staff of the *Dictionary of Australian Biography* was slightly increased and rapid progress has been made. The first volume of the Dictionary will appear in March and the second a few months later.

Some of the work of the Research School of Social Sciences has been supported from the grant made to the University by the Ford Foundation. This includes the work in the Department of History on politics of British India and work in the Department of Law on aspects of international law.

Professor Sir Keith Hancock retired from the Chair of History on 31 December and was succeeded by Professor J. A. La Nauze, formerly Ernest Scott Professor of History at the University of Melbourne.

As in previous years, a number of visiting fellows from abroad and other Australian universities worked in the School during the year. It is now established practice for a few teachers from Australian universities, especially more junior men, to spend some time in the School during the long vacation; it is also worth recording that during the past two or three years several members of other Australian universities have chosen to spend their sabbatical leave in the School.

The School was moderately successful in recruiting staff in 1965. Some strong new appointments have been made but, at the end of the year, important vacancies in the Departments of Economics, Political Science, Statistics and Sociology had not been filled. Although in the past it has been exceptionally hard to attract suitable men for research in law, some new appointments were made to the Department of Law during the year, and the Department also attracted some able postgraduate students.

On 31 December fifty-two students proceeding to the degree of Doctor of Philosophy were enrolled and being supervised in the School. Twelve students received doctoral degrees at the 1965 conferring ceremony. Twenty-two new scholarships for the degree of Doctor of Philosophy were awarded during the year.

Research on migration continued on several fronts in the *Department of Demography*. The Head of the Department prepared papers on international migration for the World Population Conference in Belgrade in September. A history of the displaced persons in Australia is in progress. The study of the British migrants in Australia has entered upon its final stage. A study is being made of the nature and effects of Australia’s restrictive immigration policy under the sponsorship of the Australian Institute of International Affairs. One member of the Department has been advising the authorities on the censuses to be taken in several Pacific territories in 1966, and has planned a comparative study of the populations enumerated in urban areas of Fiji in the censuses of 1956 and 1966. Analyses have been made of several African demographic studies and papers relating to various aspects of these have been accepted for publication in 1966. A study of Pakistan’s population has been in progress. Because of an acute
shortage of economists in this country and elsewhere, the Department of Economics is well below its authorized establishment. Research within the Department has dealt with theories of capital and growth; the history of the Melbourne Stock Exchange; problems of contemporary public economic policy and demographic statistics; decision-making under uncertainty; the activities of American enterprises in Australia; and the international monetary system.

The main research interests of the Department of Economic History continued to be in the general fields of Australian economic development and of comparative studies of growth in several selected advanced countries including Australia. Studies of trade union history, business history, inquiries into the recent Australian trade cycle and into the role of experts in Australian development are under way; work is being done to develop long-run quantitative measures of economic growth in Australia and other countries. One member of the Department is continuing his investigation of aspects of Soviet economic development since 1928.

In the Department of History work continued on Volume II of the biography of Field Marshal Smuts and the biography of W. M. Hughes. The history of the Commonwealth Bank of Australia is almost completed. Work has been proceeding in the study of boundary evolution in modern Southern Asia, including Tibet, Kashmir and Chinese Turkestan; research on the former has resulted in a two-volume study to be published in 1966, and on the latter in a long essay which will form part of an analysis dealing with that area, and with Baluchistan and Burma's borders with Yunnan, Laos and Thailand. Other work in progress deals with the origins and early growth of the Australian mercantile industry and its place in Australian economic history; and with the economic and social history of the mediaeval estates of Battle Abbey.

Research undertaken by scholars has ranged over a wide field embracing Australian labour, political and social history, the political, economic and social history of Asian countries, and fourteenth and fifteenth century mediaeval English history. The histories of two Australian trade unions, The Australian Printing Industries Union and the Federated Ironworkers, are being written. Other student work includes a study of the political career of J. A. Lyons, urban development of Hobart, 1850–1900, social policies of the New South Wales Government, 1856–1901, Anglo-French competition in India 1763–1816, British and Russian interests in Central Asia as a background to the Anglo-Russian convention of 1807, social change and political stability in the Punjab 1849–1921, and Britain, Russia and Afghanistan 1905–1921.

The survey being made jointly with the National Library of Australia of manuscript sources in Great Britain and Ireland relating to Australia, New Zealand and the South Pacific has continued.

The Department of Law undertook some special responsibilities in relation to law teaching and research in Papua and New Guinea, some fitting naturally into the Department's ordinary programme and some requiring a special appointment which was advertised late in the year. Professor G. Sawer visited the Territory twice, and prepared a working paper on constitutional problems for a seminar held in Port Moresby in September by The International Commission of Jurists; the paper is also being used by the House of Assembly's Committee on the Constitution, for which Professor Sawer prepared some other notes and references. Two of the Department's regular work programmes were completed with the publication of Mr J. G. Starke's book, The ANZUS Treaty Alliance and Professor Sawer's book, Law in Society.

Students' work completed included a study of Australian air law and of international law protection for foreign investments. Students' work begun included a study of Australian hire-purchase laws and of the Australian Industrial Arbitration System. The latter will involve active participation in arbitration cases. Work continues on fundamental aspects of contracts, and an investigation is being made of American reforms in the law of sale of goods for an inquiry into this subject by the Australian
Committee of Attorneys-General. Long term research on international law, and in particular on United Kingdom and European projects for restating the current diplomatic practice of governments, is continuing partly with a view to making a similar repertoire of Australian practice. An account of international legislation has been completed, and an inquiry into the basic sources and nature of international law has been commenced. Work in progress on Australian constitutional law includes a detailed consideration of some leading High Court and Privy Council decisions for the purpose of a forthcoming book on Australian Federalism in the Courts.

Members of the Department of Philosophy wrote during the year some forty-five commissioned articles for the new International Encyclopedia of Philosophy now being prepared in the United States of America; this is expected to be much the most notable reference work ever produced in this field. It is the first time Australian work has ever appeared in any such publication. The Department continued to take considerable interest in social and philosophical problems affecting education, and a number of articles dealing with the philosophy of education and with policy questions have been published or accepted for publication. Work continued on the more traditional branches of philosophy, especially the philosophy of mind and the methodology of the social and physical sciences. A member of the history of ideas section of the Department has been working in Moscow where, apart from continuing his critical study of Russian intellectual life, he is investigating the working of higher educational institutions.

The work of the Department of Political Science is in several distinct areas. In the field of public administration, a large book on the history of the Commonwealth Public Service was completed and published in 1965; a second book, a study of the contemporary public service, is almost finished. A handbook is being written on Institutes and Schools of Administration in developing countries based on studies in Africa and New Guinea. A study is also being made of the development of territorial administration in Papua and New Guinea, with special reference to manpower allocation, training and education for the needs of government. A project dealing with the South Australian Public Service is in progress.

In Australian politics, a book-length study of the Australian Labor Party, and another on the 1963 Queensland General Election, were finished. A thesis dealing with the Returned Servicemen’s League was presented. Another publication dealt with the Country Party of New South Wales. Material is being collected for a life of Colonel M. F. Bruxner. Other Australian studies in progress in 1965 dealt with political protest movements, state enterprises and the Australian Labor Party, the Australian Labor Party Industrial Groups, Australian Trade Unions and Politics, the influence of primary producers’ organizations in New South Wales, and an investigation of the offices of Premier and Prime Minister in this country.

In Soviet politics, a book of readings dealing with the life and career of Stalin was compiled for publication in 1966. The main project in this area is a study of recruitment to, and the composition of, the Soviet Communist Party 1917–65. Biographical material on Soviet officials is being collected in preparation for a study of the background and career patterns of Soviet government and party functionaries. A student has been working on the politics and administration of Kazakhstan, 1954–1964.

In international politics, work completed during the year included studies of Nuclear Dispersal in Asia and the Indo-Pacific Region and of The Crisis of European Supranationality. One member of the Department has been studying aspects of Australia’s long-term strategic situation; another study deals with Australian Labor foreign policies between 1929 and 1941. The major study going on in the Department in the area of international politics is a book-length critique of quantitative and formal approaches to world politics.
One member of the Department was editor of and a contributor to the book, *The Papua-New Guinea Elections* 1964, which was published in 1965. One student completed his thesis on the socio-economic elite in Philippine politics and government since 1946; another was engaged in research on power in the political systems of selected states of Malaysia.

The research programme of the *Department of Sociology* has continued to develop in three major fields: social stratification in Australia; social function of religion in Australian society; and comparative studies of the social structure of Australian cities.

A large scale national survey was conducted to collect data on the occupational, economic and educational characteristics of the Australian workforce.

Research is in progress in the *Department of Statistics* on a wide variety of problems in probability theory and statistics. These include fundamental studies of the theory of random processes and their application in other sciences such as seismology and genetics, and the development of new methods of statistical analysis for problems in physics and medical research.

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*Demography*

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*Economic History*


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** Based on work done prior to joining this University. * Based on work done while a member of the Department.

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Kamenka, E. 'The Soviet view of law.' *Problems of Communism*, XIV, ii, 8–16, March–April. (Also in Spanish.)


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Partridge, P. H. 'Political philosophy and political sociology.' *Australian and New Zealand Journal of Sociology*, I, i, April.


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† Visiting Research Worker. * Based on work done while a member of the Department.


POWELL, J. P. 'A note on infallibility.' Theology, LXVIII, 144–6.

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COOKSEY, R. J. 'Political review.' Aust. Quar., XXXVII, iv, 94–105, December.


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† Visiting Research Worker. *Based on work done while a member of the Department.


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* Based on work done while a member of the Department. § A member of the Department of Pacific History.
† Visiting Research Worker.
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* Based on work done while a member of the Department.
In the University Act it is implied that the University will assume special responsibilities for research and study in subjects of national importance to Australia. This prescription has particular relevance to the Research School of Pacific Studies which is the only research school with an explicit regional emphasis. I regard it, however, as vital to the academic progress of the School that it should attain a balance between study of the South-East Asian region and the more general theoretical aspects of its work. This is important for two reasons: if the School becomes merely a regional centre in the narrow sense, its impact on the academic world at large will be limited to those whose particular interests square with ours and as a corollary of this it will forego the stimulation which comes from a consistent exchange of people and ideas with other centres of learning throughout the world.

From the summary of the work of departments which follows, it will be seen that the School has continued to direct its emphasis towards the areas of South and South-East Asia, the Far East and the Pacific which it regards as its particular concern. There has been co-operation between several departments which has made possible the detailed study of certain specified areas, for example New Guinea, Indonesia, New Hebrides, and co-operation has readily been extended to the School by departments in the Research School of Social Sciences.

As a research institute, the School naturally seeks to disseminate the results of its research and to complement the usual outlets several departments have undertaken the production of departmental publications. While the matter is not capable of useful statistical test, there is growing evidence of interest in the work of the School not only in the universities of the world but also in government and other non-academic institutions of the region. A series of four public lectures ‘Australia and Asia’ presented by the Department of International Relations was well attended, and members of the School have continued to contribute to public discussion by giving commentaries on radio and television.

The School is feeling the financial pressure of maintaining its research activities and I have no doubt that this pressure will increase. The Department of Geography and the prehistory and linguistics sections of the Department of Anthropology and Sociology have special needs for laboratories and equipment which are not usually met in the more traditional areas of the social sciences; in many respects they require research aids similar to those of a natural science department. Furthermore, while this applies to some departments more than others, it is essential to the work of both staff members and research scholars of all departments to be able to offer facilities for extended field research. It is becoming clear, even now, that the costs of maintaining this support may pose the alternatives of either restricting the areas of research in which staff and scholars may be allowed to engage or (perhaps and) of limiting the numbers of research students the School will be able to accept. Outside funds, especially the Ford Foundation grant enjoyed by the School, offer marginal relief to these problems in some departments.

Much discussion is developing in the School on the requirements of teaching and supervision. As a result some departments may develop more formal course work than has hitherto been the practice.

In the year under review the academic staff of the School increased from fifty to fifty-seven. In January 1965 there were forty-six students attached to the School and by the end of the year, this total had increased to sixty-one, of whom eighteen were from
Australia, eleven from South and South-East Asia, ten from the United Kingdom, nine from New Zealand, four from Canada and the United States of America, four from Europe, two from the Pacific Islands, two from South Africa and one from New Guinea. During the year eighteen theses were submitted for the degree of Doctor of Philosophy and fourteen degrees were awarded.

Research in the *Department of Anthropology and Sociology* was carried out actively in North Australia, New Guinea, the New Hebrides, Fiji, Vietnam and Pakistan. Two important linguistic discoveries were made in Melanesia. It was established that five Papuan (non-Melanesian) languages are spoken in the Santa Cruz Archipelago and adjacent islands. This puts the known boundary of Papuan languages 500 miles farther east than had been supposed, and will affect theories of human migration into the western Pacific. The discovery was also made that tonal languages, where the pitch on which an individual syllable is pronounced affects the meaning of the word, have developed in the Gulf District of New Guinea in the last two or three generations. The fact may throw light on a puzzling linguistic problem that has attracted wide scientific interest. Electronic and other special equipment for the study of tonal languages was installed in the Department. Field research in linguistics was carried out as well in Australia, the Society Islands and North Borneo. In prehistory a radiocarbon dating laboratory was brought nearer operation. The Department collaborated with the National Museum of Victoria and the Universities of Sydney and Melbourne in extending research into the chance discovery of a fossil human skeleton at Keilor, near Melbourne. The skeleton has a radiocarbon date of 8,000 years. The highest significance attaches to it and to the prospect that implements will be found in association or in still older horizons. The find presents the best opportunity to date of establishing the physical type of one set of very ancient Australians, the tools they made and the possible connections with the Tasmanian aborigines. The Department also conducted a wide range of archaeological field-studies in the Australian Capital Territory, New South Wales, the Northern Territory, Tonga, New Caledonia, New Britain, and in New Guinea where (at Goroka) a rock shelter on excavation yielded stratified evidence, to a depth of fourteen feet, of human occupation. From all sections of the Department there were thirty-five significant publications. There were twenty-four students during the year. Two students in Anthropology from the University of Amsterdam were attached to the Department for academic supervision although not proceeding towards an Australian National University degree and two others from the University of Cambridge were afforded the facilities of the Department.

Good progress was made in 1965 in the *Department of Economics* in all the fields of research mapped out in the preceding year. The team being assembled to work on Indonesia produced, experimentally and for private circulation, the first two issues of a *Bulletin of Indonesian Economic Studies* and began work on a number of longer-term projects. Work continued on cash-cropping, land tenure and other problems of economic development in New Guinea; on the agricultural policy of India; on aspects on the economy of Malaysia, as well as other countries of the region; on studies in the theory of growth and trade; and on foreign aid. The first two students of the Department qualified for the degree of Doctor of Philosophy. Several members of the Department co-operated in giving lectures on economic development in the School of General Studies.

Two staff appointments were made in the *Department of Far Eastern History* during the year. One senior post was vacated by the appointment of Dr E. S. Crawcour to the Chair of Japanese in the Faculty of Oriental Studies, School of General Studies.

The enrolment of research scholars until the end of the year was eight, with three forthcoming enrolments. Three of the students came from South-East Asia, three are Australians, one English and one a New Zealander. Six students are working in the field of Chinese History, ancient and modern, and two in modern Japanese history.
The year has been one of considerable expansion and diversification for the *Department of Geography*. The lines of development mentioned in last year’s Report—data organization, experimental and quantitative techniques, increased use of air photography—continue to bulk large; at the same time, recent appointments will mean a strengthening of work in geomorphology and in tropical human geography, especially in South-East Asia. Although staffing in economic geography continues to be difficult, new ground is being broken in this section, while biogeography, geomorphology and tropical human geography continue to attract good students to the point where it is difficult to provide adequate equipment, accommodation and field facilities. The Department has been active in the holding of seminars and has attracted an unusual number of visitors from Australia and overseas. Publication has been well maintained.

Expansion and diversification bring with them serious problems of space, equipment and organization. Within the Department there is a good deal of informal devolution of responsibilities and it may prove necessary to recast this on a more formal footing to ensure a continuance of smooth internal functioning and, no less important, of its effectiveness in maintaining a leaven of the natural sciences, so important to the understanding of human activities in the Pacific realm, in a School whose main orientation is inevitably towards the social sciences.

No staff appointments were made in the *Department of International Relations* during the year, but the Department was host to six visiting fellows and a number of other visitors. Nine students for the degree of Doctor of Philosophy were enrolled in the Department; their research topics were distributed in about equal proportions between Asian international politics and Australian foreign policy and were thus running parallel to the research work of the staff. The training of scholars for the degree of doctor of philosophy continued by means of a special course of lecture-seminars, and will next year take the form of course-work arranged jointly with other departments pursuing work in political studies. Activities made possible by the Ford Foundation grant, in particular research into problems of Japan, international exchanges in the Asian area, and the political effects of foreign aid to South-East Asia, continued along previously established lines and much thought was given to drawing up a programme for such activities in the years 1966–68.

In the *Department of Pacific History* work continued into the history of various colonial administrations in the Pacific area, into economic and mission history and into contemporary political development in Papua and New Guinea. The major development was the editing, for publication early in 1966, of the *Journal of Pacific History*, which will provide a forum for international discussion of all of these aspects of the Pacific region.

Eleven students were reading for the degree of Doctor of Philosophy in the Department during 1965.

The former Executive Officer of the *New Guinea Research Unit* left New Guinea in May and, owing to a prior commitment to complete a consultant assignment for the South Pacific Commission, his replacement did not establish in the Territory until late September.

Research in the following fields was undertaken during the year: Problems of urbanization, particularly in Port Moresby, and in relation to specific peoples in Lae, Rabaul and Madang. The relationship of land tenure to rural productivity. The allocation of time and resources by villagers in the Northern District. The role of the urban teacher as community leader. The emergence and role of indigenous entrepreneurs. A cost-benefit analysis of government sponsored agricultural resettlement in the Gazelle Peninsula.

Staff were recruited late in the year to study industrial potential in New Guinea, and to examine emerging non-traditional economic and political groupings.


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CHOWNING, M. ANN, GOODALE, JANE C.\textsuperscript{†} 'The Paspismanua Census Division, West New Britain open electorate.' In \textit{The Papua-New Guinea Elections} 1964, The Australian National University.

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\textsuperscript{§} A member of the Department of Geography, Institute of Advanced Studies. \textsuperscript{*} Based on work done while a member of the Department. \textsuperscript{†} Not a member of this University. \textsuperscript{**} Based on work done prior to joining this University.


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† Not a member of this University.  * Based on work done while a member of the Department.
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‡ Not a member of this University. † Based on work done while a member of the Department.
** Based on work done prior to joining this University.
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† Not a member of this University. ‡ Based on work done prior to joining this University. § A member of the Department of Zoology.

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VAN DER VEUR, P. W. 'West Irian's Refugees; What is “permissive residence”?' New Guinea, I, iv, 13–19, December.

WEST, F. J. 'A little lower than the Angels about 1200 A.D.' Historical Studies, XI, xliv, 437–51, April

* Based on work done while a member of the Department.
THE SCHOOL OF GENERAL STUDIES

THE FACULTY OF ARTS

REPORT OF THE DEAN

Professor D. P. Scales

The following appointments were made to newly established second Chairs: Professors G. H. Russell (English), K. S. Inglis (History) and B. D. Beddie (Political Science).

The thirty-booth language laboratory, installed in temporary premises at the rear of the Oriental Studies Building, was brought into service at the beginning of First Term and was used throughout the year, not only by the modern European language departments within this Faculty, but also by the Department of Classics for its course in elementary Latin.

A Users' Committee for the proposed second Arts Building, to be constructed during the 1967-69 triennium, was set up by the Vice-Chancellor and met on a number of occasions.

Miss P. M. White, a Graduate Assistant on the staff of the Registrar, School of General Studies, and a part-time tutor in the Department of History, who had previously acted as Faculty Secretary, was appointed Sub-Dean.

The unit Mediaeval Studies I was offered for the first time in 1965. The sub-major Mediaeval Studies I and II will be offered from 1966 onwards.

The Council adopted a recommendation from the Board of the School of General Studies and the faculties concerned that General Linguistics should be transferred from the Faculty of Oriental Studies to the Faculty of Arts, this change to become effective at the beginning of 1966. For administrative purposes General Linguistics will be attached to the Department of German until such time as a Chair of Linguistics is established and filled.

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(B. Applied)

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* Based on work done while a member of the Department. ‡ Not a member of this University.


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Encel, S. 'Science, education and the economy.' *The Australian University*, III, i.


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Stockwin, J. A. A. Translation of 'Socialism and neutrality' (by Sato Noboru). In *Neutralism and Disengagement* (by P. F. Power), 99-104, Scribner.


† Not a member of this University. ‡ A member of the Department of Mathematics, Institute of Advanced Studies. ** Based on work done prior to joining this University.
THE FACULTY OF ECONOMICS

REPORT OF THE DEAN

Professor B. D. Cameron

In 1965 enrolments in the Faculty continued to rise rapidly, the number of students enrolled in the Economics major alone being 448. The Department of Accounting and Public Finance was established with Professor R. L. Mathews and a staff of three senior lecturers. The new Department began with 103 enrolments in the accounting major and public finance as well as five postgraduate students. Both the Departments of Economics and Statistics ran honours programmes during the year and the Department of Economic History was responsible for History of Economic Thought which is a normal part of the economics honours programme.

Dr J. D. Pitchford who spent 1965 on sabbatical leave in the U.S.A., was appointed Professor of Economics in October 1965. Professor E. J. Hannan returned in August from sabbatical leave at Johns Hopkins University.

PUBLICATIONS

Accounting and Public Finance


JAY, W. R. C. ‘The social implications of private superannuation funds.’ In Papers for the 1965 Annual Conference of the Association of Superannuation and Provident Funds of Australia, Canberra, October.


MATHEWS, R. L. ‘Rationalizing business taxes.’ In Monetary and Fiscal Methods of Controlling the Economy, University of Adelaide Tenth Summer School of Business Administration, Adelaide, 33–35.


Economic History


Economics


TISDELL, C. A. ‘Some bounds upon the pareto optimality of group behaviour.’ Kyklos.

** Based on work done prior to joining this University. † Not a member of this University.
Ewens, W. J. 'The adequacy of the diffusion approximation to certain distributions in genetics.' *Biometrics*, 21, 2, 386–94.
Ewens, W. J. 'Further notes on the evolution of dominance.' *Heredity*, 20, 3, 443–50.
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Heathcote, C. R. 'Divergent single server queues.' Chapter 5 of *Proceedings of the Symposium on Congestion Theory*, Univ. of N.C. Press.

§ A member of the Faculty of Law.

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Membership of the Faculty

Membership of the Faculty may include up to four members appointed by the Council. During the year the Honourable Mr Justice P. E. Joske, Judge of the Commonwealth Industrial Court and the Supreme Court of the Australian Capital Territory, and Mr K. F. O'Leary of the legal firm of Martin, Crossin, O'Leary & Barker, were re-appointed members. Following his return from sabbatical leave, Professor G. Sawer, Head of the Department of Law, Institute of Advanced Studies, also resumed membership of the Faculty in place of Dr S. J. Stoljar.

Mr A. F. Mason, Q.C., Solicitor-General, was appointed during the year to fill the vacancy on the Faculty arising from the appointment of Sir Kenneth Bailey as High Commissioner for Australia in Canada.

Staff

The full-time staff consisted of two professors, three readers, four senior lecturers, one lecturer, one temporary lecturer and one tutor. The staff also included three part-time lecturers and seven part-time tutors.

Professor H. Whitmore, formerly Senior Lecturer at the University of Sydney, was appointed to the vacant chair in the Faculty as from November 1965.

Mr H. Tarlo resigned following his appointment to a Chair of Law at the University of Queensland and will take up his new post early in 1966.

Mr K. E. Enderby resigned to assume practice at the Bar in Canberra in 1966.

Professor G. F. Curtis, Q.C., Dean of the University of British Columbia Law School, spent eight weeks with the Faculty during Second Term as visiting professor. Dean Curtis, who is an expert on the Law of the Sea, gave a series of lectures to the Public International Law class.

Guest lecturers included Mr G. Hausner, a former Attorney-General of Israel; Professor G. S. A. Wheatercroft, Dean of the Law School, London School of Economics and Political Science; Mr A. E. Vrisakis of Bartier Perry & Purcell, Solicitors, Sydney; Dr H. W. Poulton, Executive Director, Ansett Transport Industries Ltd.; Dr I. H. Ph. de Rode-Verschoor, Lecturer in Air Law, University of Utrecht; Professor I. Kisch, Head of the Department of Comparative Law and Conflict of Law, University of Amsterdam; and Mr J. G. Starke, Q.C., Department of Law, Institute of Advanced Studies.

Enrolments

A total of 258 students enrolled for the course for the degree of Bachelor of Laws including seventy-four who enrolled for a combined Bachelor of Arts/Bachelor of Laws course. This compared with a total enrolment of 219 in 1964, including sixty-two enrolled for the combined Bachelor of Arts/Bachelor of Laws course.

The ratio of full-time to part-time students enrolled in 1965 has shown little variation from the 1964 figure. Of the total enrolment of 258, 156 were full-time and 102 part-time students.

The Course for the Degree of Bachelor of Laws

As reported last year, Air and Space Law was introduced for the first time in 1965 as an optional subject to be undertaken in the third year of the Bachelor of Laws course. Considerable interest in the lectures was shown by local practitioners.
The compulsory moot programme continued during 1965. With enrolments increasing each year it will be necessary for academic staff to devote considerably more time to the moot programme in 1966, and in future years.

The moot programme is hampered by a shortage of suitable accommodation during the day time. The Faculty has an urgent need for a moot court to be used both in the mornings and in the afternoons from Monday to Friday during first and second terms. Unless it proves possible to arrange regular moots during the day, arrangements for the compulsory programme will prove difficult with increased student numbers.

The Inter-Universities Law Schools Moots Competition was held for the first time at this University in May 1965. Teams participated from every Australian university law school with the exception of Monash, which was represented by observers. In addition, a combined New Zealand universities team entered the competition. The competition was won by the team from the University of Sydney with the University of Melbourne team as runners-up. The judges in the final moot were the Chief Justice of the High Court of Australia, Sir Garfield Barwick, the Solicitor-General, Mr A. F. Mason, Q.C., and Professor Richardson. The prize for the best individual mooter went to Mr P. Biscoe of the University of Tasmania.

Arrangements for the competition were carried out efficiently and enthusiastically by the Australian National University Law Society under the President, Mr M. Scott and the Secretary, Mr A. H. R. Border.

The majority of the full-time academic staff attended the Annual Law Schools' Conference held in Sydney in August, prior to the Commonwealth and Empire Law Conference. Professor Richardson was elected President of the Association for 1966. A number of members of staff were also present at the second conference. At the conclusion of the Commonwealth and Empire Law Conference a number of overseas delegates came to Canberra and several visited the Faculty. Thirty-five Australian National University law students were invited by the Attorney-General's Department to attend a Government reception for visiting Commonwealth Attorneys-General and Chief Justices. The Law School very much appreciated the opportunity which the students were given by the Department to meet these distinguished guests.

The second edition of the Federal Law Review appeared in October. Sales of the Review and exchanges with the Law Reviews of other universities have continued to increase most satisfactorily during the year.

The appearance of the Federal Law Review was again commemorated by a dinner at which guest speakers included Mr E. G. Whitlam, Q.C., M.P., Deputy-Leader of the Opposition, and Senator R. C. Wright.

During the year the Faculty sought substantial funds for the 1967-69 triennium to bring library holdings to the minimum level desirable for a modern Australian law school. The outcome of the submission is awaited. Lack of adequate legal materials from other common law countries is now seriously hampering the development of the Law School,

With the steady increase in student numbers both library and lecture room accommodation for the Faculty is extremely inadequate. During 1966 the Faculty will move temporarily to the Economics Building. Although physical conditions will improve in the new building it is apparent that there will be a shortage of study space for academic staff and full-time research students, and of library seats for students. Planning for an independent Law School building began during the year. A submission has been made to the Australian Universities Commission for funds for the building of a Law School during the 1967-69 triennium and a decision is expected shortly.
Research Activities

As reported in 1964 Mr D. O'Connor, at the request of another government, continued to work on a survey of the criminal law of Australia. It is expected that much of the work will be published about March 1966.

Professor Richardson again published several articles in the press and made a television appearance concerning the review of the laws of the Australian Capital Territory. It was announced during the year that law reform would be undertaken in the Australian Capital Territory. However, it was also announced that the Government would not allow independent representation on the law reform committees it would establish, but would confine representation to officers of the Commonwealth Public Service.

Professor Richardson also published a series of articles in the local press on the Trade Practices legislation and gave several addresses on the subject to professional and business groups in the Australian Capital Territory and various states.

Professor Whitmore is working with Professor D. G. Benjafield of the University of Sydney on a research project concerning "Administrative Law and Practice in Australia". This project, which is expected to extend over three to four years, has been made the subject of a grant by the Australian Research Grants Committee. Its aim is to produce a multi-volume work ranging over the field of law and government in the Commonwealth and all states of Australia. A partial by-product of the preliminary work in this area will be the third edition of "Principles of Administrative Law" by Professors Benjafield and Whitmore to be published in March 1966.

Other Activities

Professor Richardson and Mr A. H. Simpson each paid a visit to Papua and New Guinea in connection with the development of legal education there. Mr Simpson attended, by invitation, the conference of the Territory branch of the International Commission of Jurists in Port Moresby.

PUBLICATIONS


Richardson, J. E. 'Law in Australia.' In Encyclopaedia Britannica Book of the Year 1964, 58.

Richardson, J. E. 'Aviation law in Australia.' 1 Federal Law Review.


Zines, L. R. 'Equitable assignments: When will equity assist a volunteer.' 58 A.L.J.

Zines, L. R. 'Sir Owen Dixon's theory of federalism.' 1 Federal Law Review.

Zines, L. R. 'Copyright and the librarian.' The Australian Library Journal, September.
Professor A. L. Basham took up his appointment as Professor of Asian Civilization and Professor J. W. de Jong his appointment as Professor of South Asian and Buddhist Studies. Professor E. S. Crawcour, formerly Senior Fellow in the Department of Far Eastern History, Institute of Advanced Studies, was appointed to the foundation Chair of Japanese.

Professor N. G. D. Malmqvist resigned the Chair of Chinese on appointment to the Chair of Chinese at the University of Stockholm, where he succeeded the very distinguished scholar, Professor B. Karlgren.

Associate Professor Joyce Ackroyd resigned her appointment in the Department of Japanese to accept the foundation Chair of Japanese at the University of Queensland.

Members of the staff gave lectures at the Universities of Sydney and Melbourne and participated in seminars arranged by departments in the Institute of Advanced Studies, the School of General Studies and in Adult Education courses.

The Faculty was represented at the Conference on Linguistic Problems of the Indo-Pacific Area, held under the auspices of the School of Oriental and African Studies, University of London, and at the A.U.L.L.A. Language Laboratory Workshop at Monash University.

The teaching and research programmes of the various departments have been continued and extended. The series of Occasional Papers continued and the year saw the publication of the first of the Monograph Series of the Centre of Oriental Studies The Gift Addressed to the Spirit of the Prophet by Professor A. H. Johns.

The Oriental Studies Building was completed in March and was occupied at the end of that month. The Language Laboratory came into operation at the beginning of the 1965 academic year and has proved a most useful tool in improving the effectiveness of language teaching in the Faculty.

The total number of enrolments for units offered in the Faculty was 374 (of which 274 were full-time (including thirty-two cancellations) and 100 part-time (including twenty-four cancellations and one non-examination) ) as compared with 291 in 1964. Enrolments in the Linguistics Seminar totalled fifty-one (twenty-five full-time and twenty-six part-time (including nine cancellations) ).

Examination enrolments in different units were 317 (as compared with 222 in 1964) of which thirty-seven students failed and nine were absent. Forty-two students sat for the Linguistics Seminar examination, thirteen failed and seven were absent.

Thirty-two students held Oriental Studies Scholarships during the year. It is regretted that two scholars lost their scholarships due to failures in the annual examinations. However, Mrs A. L. Kumar deserves special mention for having attained First Class Honours in South-East Asian Studies.

Of the six students (three full-time and three part-time) enrolled for the degree of Master of Arts (Oriental Studies) one was awarded the degree with Second Class Honours.

Mrs J. Brewster, who attained First-Class Honours in Japanese in 1964, was awarded a research scholarship tenable in the Faculty, to enable her to study for a degree of Doctor of Philosophy.

Another member of the staff joined two of his colleagues who are enrolled for the degree of Doctor of Philosophy.
PUBLICATIONS

Asian Civilization

LOOFS, H. H. E. 'Some remarks on “Philippine megaliths”.' Asian Studies, December.
LOOFS, H. H. E. 'A dying megalithic culture—urgent ethnological research among the Ifugao, Luzon, Philippines.' Bulletin of the International Committee on Urgent Anthropological and Ethnological Research, Vienna, VII.
LOOFS, H. H. E. 'South of the south: The image of Vietnam.' Hemisphere, December.

Chinese

DE CRESPIGNY, R. R. C. 'Teaching about Asia.' New Horizons in Education, XXXII, 36–42.
LIU, T. Y. 'Amendments to earlier studies of Chinese fiction.' United College Journal, III, 1–23, Chinese University of Hong Kong.
LIU, T. Y. Wu Ch'eng-en. Ming Biographical History Project, Columbia University.

Indonesian Languages and Literatures

ACHDIAT, K. M. 'Humour in Indonesian traditional literature.' Hemisphere, IX, ii, February.
ACHDIAT, K. M. 'Humour in Indonesian modern literature.' Hemisphere, IX, iii, March.
SOEBARDI. 'Calendrical traditions in Indonesia.' Indonesian Journal of Cultural Studies, III, i, 49–61, March.
SOEBARDI-SANTOSO. 'Gamelan music.' Hemisphere, IX, xii, December.

Japanese

ACKROYD, JOYCE, I., MUKAI, H. 'The sleeping beauty.' Translation from a novel by Y. Kawabata in Eastern Horizon, March.
MUKAI, H. 'Australia and Asian cultures.' Hemisphere, September.

General Linguistics

BLUHME, H. 'Zur Relevanz der Quantitätsquotienten.' In Festgabe Zwirner, 50–60, Nijhoff.
BLUHME, H. 'Über die Aspiration in zwei niederländischen Mundarten: Beuningen (Overijssel) under Heerjansdam bei Barendrecht-Rotterdam.' Phonetica, XII, 99–104.
THE FACULTY OF SCIENCE

REPORT OF THE DEAN
Professor D. N. F. Dunbar

The year saw the introduction of forestry courses in the Faculty. The functions of forestry education previously carried out by the Australian Forestry School have now been taken over by the Department of Forestry under the direction of Professor J. D. Ovington who took up duty in May. Honours courses in this discipline have already been introduced.

Student enrolments in all departments continued to rise. It is pleasing to note that the proportion of honours and research students is also increasing at a satisfactory rate.

Discussions continued on the structure of the course for the degree of Bachelor of Science with particular attention being directed to the possibility of introducing a ten unit programme in place of the present eight units. By such means it may be possible to provide greater variety in the courses offered to students but as yet no decisions have been reached.

The revised courses in biological sciences which were introduced for the first time in 1965 appear to have been an immediate success although some revisions are envisaged.

PUBLICATIONS

Carnahan, J. A. 'Weed control in pastures.' Australian Weeds Conference, 2(D), 19-22.


Thurling, N.** 'The aroma of flue cured tobacco. Sensory testing for the discrimination of varieties.'


Bradbury, J. H., Chapman, G. V., King, N. L. R. 'The chemical composition of wool. II. Analysis of the major histological components produced by ultrasonic disintegration.' Aust. J. Biol. Sci., 18, 353-64.


* Based on work done while a member of the Department.  ** Based on work done prior to joining this University.  † Not a member of this University.
BROWN, R. F. C., RAE, I. D.*, STERNHELL, S.† 'Proton magnetic resonance spectra of some 1,2-dithiole-3-ones and 1,2,5-dithiol-3-thiones.' Aust. J. Chem., 18, 1211-19.


McGRATH, K. P. 'Approaches to the solution of the problem of future wood supply.' Aust. For., 29, 198-207.


OvINGTON, J. D. The Role of Forestry. An Inaugural Lecture, The Australian National University, 14.

Geology

BROWN, D. A., CAMPBELL, K. S. W., ROBERTS, J.† 'A Visean Cephalopod Fauna from New South Wales.' Palaeontology, 7, 682-94.


CONYBEARE, C. E. B. 'Oil and gas potential of the Surat Basin.' Australas. Oil Gas J., 11, 12, 45-8.


RICKARD, M. J. 'Taconic orogeny in the Western Appalachians: Experimental application of microtextural studies to isotopic dating.' Bull. geol. Soc. Am., 76, 523-36.


WOLF, K. H.* 'Petrogenesis and paleoenvironment of Devonian Algal Limestones of New South Wales.' Sedimentology, 4, 113-78.


Physics


MORTLOCK, A. J. 'Fashions in physics.' Australian Physicist, 2, 131-2.


* Based on work done while a member of the Department. † Not a member of this University.

** Based on work done prior to joining this University.


Stalker, R. J. 'Preliminary results with a free piston shock tunnel.' *American Institute of Aeronautics and Astronautics Journal*, 3, 6, 1170–1, June.

Clarke, A. M. 'Specifications and characteristics of a sound-proofed, electrically shielded and thermally insulated room.' *Aust. J. Psychol.*, 17, 2, 124–32.


Pentony, P. *Psychological Barriers to Economic Achievement.* Economic Research Institute, Dublin, Paper 25, 20.


Buchdahl, H. A. 'Remark on the defining relation of the $\sigma$-symbols.' *J. Aust. math. Soc.*, 5, 393.


Bryant, C. 'The metabolism of the digestive glands of two species of marine gastropod (*Melanerita melanotragus* and *Austrocochlea obtusa*).' *Comp. Biochem. Physiol.*, 14, 223.


Bustard, H. R. 'A male *Coleonyx variegatus variegatus* (Baird) with two pairs of postanal spurs.' *Br. J. Herpet.*, 3, 8, 208–9.

Clegg, J. A. 'In vitro cultivation of *Schistosoma mansoni*.' *Exp. Parasit.*, 16, 133–47.


† Not a member of this University. * Based on work done while a member of the Department.
HUGHES, R. D., WALKER, D.§ ‘Education and training in ecology.’ Vestes, 8, 3.
WOOLLEY, PATRICIA, NUTTING, W.‡ ‘Pathology in Antechinus stuartii (Marsupialia) due to Demodex sp.’ Parasitology, 55, 383–9.

§ A member of the Department of Geography, Institute of Advanced Studies. † Not a member of this University. §§ A member of the Electron Microscope Unit. * Based on work done while a member of the Department.
There are no outstanding events to record in the Library in 1965 and this report will therefore be mainly a recital of unexciting but essential activities supplemented by the usual statistical analysis of operations. An overseas visit by the University Librarian, in the course of which he visited libraries in Malaysia, India, Israel, the United Kingdom, Holland, Belgium, Austria, Germany and the U.S.A., helped to crystallize and highlight a number of long-term problems and will, it may be assumed, gradually affect programmes of development in the next triennium and beyond. Some of the matters which came under notice in the course of this journey are now being worked out in detail and are referred to in succeeding paragraphs. There is, however, one feature which deserves special mention. Extremely interesting and potentially vastly important work is being carried out in America on the application of computer techniques to library work. Both in the mechanization of routine processes and in the complex areas of information storage and retrieval, Australia has far to go and much to learn. We are planning to send a senior staff member to work for a period in one or more of the institutions in America which have now passed beyond the pioneering stage and are making increasingly significant contributions to machine controlled knowledge. We hope by this and other means to be in a position to take full advantage of the hardware and the expertise which will shortly be available in this University.

In August the Library Association of Australia held its Thirteenth Biennial Conference in Canberra. The Librarian served as Chairman of the Organizing Committee and most of the senior staff made direct or indirect contributions by serving on committees, reading papers and chairing sessions. The Library buildings and their contents in themselves contributed to what was generally held to be a highly successful conference.

The main problem in the R. G. Menzies Building is to induce readers to make use of the seating facilities which are provided. Despite extended hours of opening, the number of persons using the building has not increased to the extent which was expected. This is partly due to the fact that the Institute of Advanced Studies has in the past made available studies or shared studies for many, if not all, scholars as well as staff. This situation is likely to change and the demand for carrels in the R. G. Menzies Building may soon exceed the supply. When and if this happens, it will be necessary to consider ways and means of extending the building. In visiting libraries overseas the Librarian had this problem very much in mind and detailed consideration is now being given to a number of possible solutions. In the meantime, it is apparent that the lack of full air-conditioning is a major deterrent to effective use of the building. For some time this has been a highly contentious issue in the General Studies Building where the large number of undergraduate students have no alternative place to study and conditions in the summer months are often excessively unpleasant. The University is concentrating on improving working conditions in the General Studies Building and if a solution can be found for that building, it will presumably also be applicable to the other buildings of the University Library.

The R. G. Menzies Building is not only the headquarters of the Institute of Advanced Studies section of the Library but it also serves as the administrative centre of the University Library as a whole. Growth of staff to match the continually increasing flow of publications has enforced the first major change in the physical layout of the building. A section of the periodicals stack on the ground floor has been converted into a staff area to house the periodical recording staff, the bibliographical checking section, the
Xerox operators and the machine, and the newly appointed Co-ordinator of Branch Libraries. As a result of re-arrangement of the remaining periodicals stack and of the display racks, little or no periodical shelving has been lost in the process.

The School of General Studies

The story is once again too many students in pursuit of too few seats. Accommodation was increased by sixty new pew type reading places on the second floor of the stack and hours of opening were extended to a total of ninety-four a week, more than any other library in Australia. Despite both these moves there are certain times, particularly in the few weeks prior to examinations, when there is such a demand for places that on occasion it is necessary to turn students away. The magnitude of the problem is fortunately recognized throughout the University and the proposal to build Stage 2 of the building with accommodation for 250,000 books and 1,300 readers has been accorded high priority in the plans for the next triennium.

Continuing losses of books led in Second Term to the appointment of five male attendants who are required to provide uninterrupted supervision of the exit point of the General Studies Building at all times when the building is open for use. This drastic step has undoubtedly reduced losses but it will not be possible to draw up a complete balance sheet until we have had a full year's experience of the new arrangement. In addition to checking all books leaving the General Studies Collection the attendants also reshelve books after use by students in the building and supervise reading areas with a view to eliminating the nuisance caused by thoughtless undergraduates whose conduct disturbs other readers.

At the reserve desk a new loans system was introduced and has proved an efficient means of handling a 53 per cent increase in loans without additional staff. The new system has also made it possible for the first time to keep statistics of the use of individual titles. The results, tabulated at the end of November, came as a shock to both teaching and Library staff. Of the 4,629 titles placed on reserve at the request of faculty, only 2,240 were used more than five times and 1,059 were not used at all. In short, almost 2,400 books were withdrawn from open shelves and lay idle at the reserve desk for the best part of the year. The figures for photocopied articles were even more disquieting; of the 1,007 articles photocopied, only 130 were used more than five times and 396 were not used at all.

Centre of Oriental Studies

The temporary quarters of the Oriental Collection are now full to capacity and no immediate relief is in sight. The proposal to house the Oriental Collection in Stage 2 of the General Studies Building of the Library until such times as a separate building is provided has now been abandoned. The Oriental books and their readers will remain for at least another five years in the R. G. Menzies Building. Temporary alleviation will be provided by converting part of the lower ground floor car park into a book storage area.

Discussions have continued throughout the year with a view to co-ordinating acquisitions and assigning areas of specialization between ourselves and the National Library of Australia and also among the three main sections of the University Library. The recruitment and retention of the highly qualified specialized staff required for the Oriental Collection is an ever present problem with little or no prospect of a solution in the near future.

Branches of the Library

Towards the end of the year a new position of Co-ordinator of Branch Libraries was created with the object of ensuring balanced development of the existing branches of the Library (medical sciences, physical sciences, astronomy and law) and the ordered growth of new ones as the need for them arises. It is hoped that the library assistant appointed to this post will be able to extend the scope of the services at present available to academic staff served by the branches of the library.
Following the record inflow of the preceding year, there was a slight falling off in the number of books taken into stock but the total is still well in advance of the estimated figures submitted to the Australian Universities Commission in support of our requests for the 1964–66 triennium. The number of gifts (including exchanges) increased by fifty per cent. Exchange arrangements have now been made with ninety institutions in twenty-six countries and publications emanating from the University are being sent regularly. This exchange of publications is particularly useful for obtaining books and journals from Eastern Europe and the newer African and Asian countries. In addition, it helps to spread the products of the Australian National University thinking and achievement throughout the academic world.

The following table indicates the distribution of purchases and gifts throughout the various sections of the Library:

<table>
<thead>
<tr>
<th></th>
<th>Purchases</th>
<th>Gifts</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The Institute of Advanced Studies:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Library</td>
<td>7,917</td>
<td>2,992</td>
<td>10,909</td>
</tr>
<tr>
<td>John Curtin School of Medical Research</td>
<td>1,135</td>
<td>17</td>
<td>1,152</td>
</tr>
<tr>
<td>Research School of Physical Sciences</td>
<td>1,062</td>
<td>92</td>
<td>1,154</td>
</tr>
<tr>
<td>Mount Stromlo Observatory</td>
<td>278</td>
<td>89</td>
<td>367</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>10,392</td>
<td>3,190</td>
<td>13,582</td>
</tr>
</tbody>
</table>

| **The School of General Studies:** |           |       |        |
| Main Library                  | 12,706    | 1,196 | 13,902 |
| Law                            | 1,560     | 18    | 1,578  |
| **Total**                     | 14,266    | 1,214 | 15,480 |

| **Oriental Studies:**         |           |       |        |
| Western Languages             | 771       | 61    | 832    |
| Oriental Scripts              | 5,314     | 45    | 5,359  |
| **Total**                     | 6,085     | 106   | 6,191  |

| **GRAND TOTAL**               | 30,743    | 4,510 | 35,253 |

At 31 December the total stock of the Library was:

- The Institute of Advanced Studies: 198,625
- The School of General Studies: 114,805
- Oriental Studies: 70,646

**Total**: 384,076

The upward trend in the number of recorded transactions has continued and in some areas has been markedly intensified. There are solid grounds for satisfaction with the figures set out in the following table but what cannot be measured statistically is the quality of services rendered at the circulation and reference desks in the various sections and branches of the Library. The University Library has always prided itself on the standards established in its early days and there is every reason to believe that increased quantity has in no way adversely affected quality.
Transactions recorded at Loans Desks:

<table>
<thead>
<tr>
<th></th>
<th>1963</th>
<th>1964</th>
<th>1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Institute of Advanced Studies</td>
<td>44,821</td>
<td>44,571</td>
<td>55,473</td>
</tr>
<tr>
<td>The School of General Studies:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserved Books</td>
<td>35,750</td>
<td>77,259</td>
<td>117,860</td>
</tr>
<tr>
<td>Others</td>
<td>36,232</td>
<td>43,109</td>
<td>56,625</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>116,803</td>
<td>164,939</td>
<td>229,958</td>
</tr>
</tbody>
</table>

Inter-Library Loans Borrowed:

<table>
<thead>
<tr>
<th></th>
<th>1963</th>
<th>1964</th>
<th>1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Institute of Advanced Studies</td>
<td>4,932</td>
<td>5,257</td>
<td>5,307</td>
</tr>
<tr>
<td>The School of General Studies</td>
<td>2,120</td>
<td>1,906</td>
<td>2,356</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7,052</td>
<td>7,163</td>
<td>7,663</td>
</tr>
</tbody>
</table>

Lent:

<table>
<thead>
<tr>
<th></th>
<th>1963</th>
<th>1964</th>
<th>1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Institute of Advanced Studies</td>
<td>4,011</td>
<td>4,660</td>
<td>4,817</td>
</tr>
<tr>
<td>The School of General Studies</td>
<td>528</td>
<td>476</td>
<td>585</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4,539</td>
<td>5,136</td>
<td>5,402</td>
</tr>
</tbody>
</table>

Photocopies supplied* 735 1,038 983

* Included in inter-library loans above.

In addition to the five attendants mentioned above seven posts were added to the establishment and there was the usual crop of resignations and replacements. One pleasant feature of the year was the level of success attained by Library staff in academic and professional examinations. All degree candidates passed their examinations, some with merit and distinction, and there were exceptionally few failures in the Library Association professional examinations.

After considerable discussion and by due process of arbitration, a new and much improved salary scale for professional staff was introduced with two new grades opening up attractive career opportunities to aspirant librarians.

Exhibitions

The policy of staging exhibitions has been maintained during the year. These exhibitions serve several purposes; to display to the University community and to the people of Canberra books and arts objects in the possession of the University which would be seen only rarely otherwise, to provide a venue for community sponsored exhibitions in a city not liberally endowed with art centres, and to serve as a forum where 'town and gown' can meet in the pursuit of a common interest.

Among the many exhibitions which have been held this year were: Antarctic paintings by Sidney Nolan; Indonesian arts and crafts sponsored by the Australian Indonesian Association; Apulian Tomb vases; recent scientific books from the British Council; contemporary Australian sculpture sponsored by the Canberra Arts Council; books from China; American books on Asian Studies from the Embassy of the U.S.A.; paintings of Leonard French; the life and work of Meliès, and Sévres China from the Embassy of France; paintings from the Blake Prize Competition. Our thanks are extended to all who made these exhibitions possible.
At the end of 1965 the composition of the Governing Body was as follows:

**Master:** Emeritus Professor A. D. Trendall.

**Fellows:**

- **Retiring 15 August 1966:** Mr S. I. Benn, Professor E. S. Crawcour (Bursar), Mr I. G. Sayce, Dr D. C. Shaw, Mr D. C. S. Sissons (Steward).
- **Retiring 15 August 1967:** Dr J. F. Lovering, Professor Hanna Neumann, Professor G. H. Newstead (Deputy Master).

The Master returned from a three-month period of study leave at the beginning of March, after delivering the manuscript and plates of his book on the red-figured pottery of Lucania, Campania and Sicily to the Clarendon Press in February. During the current year he completed a short introductory Guide to the South Italian Vases in the British Museum, which is due to appear early in 1966. In August he was promoted to the grade of Commendatore of the Order of Merit of the Republic of Italy.

Professor G. H. Newstead replaced Professor A. G. Ogston as Deputy Master, and Professor E. S. Crawcour took up office as Bursar in place of Mr D. M. B. Butt. Mr I. G. Sayce was the first resident to be elected to the Governing Body under the provisions of the new Statute.

Mr M. T. Birrell resigned from the position of House Manager in February and was succeeded by Mr C. J. Allender, who took up duty in July. Mrs M. Gurnik, Assistant to the House Manager, acted very capably as Manager during the intervening period.

The total current membership remains fairly constant at about 500 of whom some fifty are Invited Members. With the change to decimal currency in 1966, it was decided to simplify the existing categories of membership and to modify the annual dues, with the result that most members will now pay slightly less than previously.

With the provision of a block of flats for married research scholars without children, it was felt that they no longer needed accommodation in the House. Some of the double flats vacated by these scholars were reconverted to single accommodation; those best suited for the purpose are being retained for use by married visitors, members of staff, etc.

The Chancellor and Lady Cockcroft were in residence for about three weeks from the end of March.

Following a farewell visit to the University on 2 April, His Excellency Viscount De L'Isle dined in the Scarth Room with the Master and Fellows, the Chancellor, the Vice-Chancellor and representatives of the University and of the Residents' Committee.

The House was visited by the Prime Minister of Singapore, Mr Lee Kwan Yew, on 19 March; Princess Alice Mary, Countess of Athlone and Chancellor of the University of the West Indies, on 9 July, when Her Royal Highness was entertained to lunch in the Scarth Room; and Princess Seble of Ethiopia and her husband, Kassa Wolde Mariam, President of Haile Sellasie I University, on 14 September.
The number of visitors from overseas in 1965 broke all previous records. Those who stayed for periods of more than a month included the following: Dr G. Appleyard (Porton), Professor and Mrs L. Broom (Texas), Professor and Mrs A. S. Crafts (Davis), Professor G. F. Curtis (British Columbia), Dr I. M. S. Dey (Sussex), Prince Diskul (Bangkok), Professor and Mrs W. T. Easterbrook (Toronto), Professor and Mrs Einar Hille (Yale), Dr B. Gnedenko (Moscow), Professor and Mrs H. Godwin (Cambridge), Professor J. E. Kersell (McMaster), Dr Joan Landman (Columbia, N.Y.), Professor and Mrs P. M. A. Linebarger (John Hopkins), Mrs Kusum Nair (New Delhi), Dr J. Neubüser (Keil), Professor M. H. A. Newman (Manchester), Professor Louise Overacker (Wellesley College), Dr Billie L. Padgett (Wisconsin), Dr and Mrs S. Pargellis (Chicago), Dr W. Pfleiderer (Stuttgart), Professor T. K. Radha (Madras), Dr Mary Rees (Reading), Professor and Mrs J. R. Risser (Texas), Dr and Mrs W. H. J. Scholten (Durban), Mrs V. N. Shekhova (Moscow), Professor R. W. Southern (Oxford), Professor and Mrs F. J. Turner (Berkeley), Dr R. S. Varma (New Delhi), Dr R. K. Vasil (Calcutta), Dr Wang Gungwu (Kuala Lumpur), Professor Herschel Webb (Columbia), Professor L. E. Weiss (Berkeley), Dr Berttina B. Wentworth (U.C.L.A.), Professor Tuso Wilson (Toronto).

Over sixty other scholars from overseas stayed for shorter periods, including: Lord and Lady Adrian, Lord Bowden, Sir Thomas and Lady Creed, Dr K. O. Dike, Lord Holford, Professor A. Grove Day, Dr J. F. Foster, Dr B. S. Kesavan, Dr Linus Pauling, Professor M. Praz, Sir Steven Runciman, Sir George Taylor, Professor and Mrs Treharne, Sir Robert and Lady Scott.

Buildings and Grounds

During the year it has been necessary to carry out a good deal of redecoration since many of the flats and some of the public rooms were in urgent need of it after twelve years of constant use. Posters presented by the Italian Embassy, some new British Council prints, and, in particular, a set of coloured Japanese wood-block prints by Kiyoshi Saito and Okiie Hashimoto, many of which were presented by Professor Crawcour, have done much to enliven several of the rooms of the House.

Library and Record Collections

The reclassification of the Library has been completed, and once again the British Council has made a generous donation of books. The record-collection continues to grow and in 1966 it will be necessary to redesign the Music Room to afford better facilities for the playing and storing of records.

The television set has been properly installed in the archway room, which has been attractively refurnished.

Functions and Activities

A Commencement Dinner was held on 9 March, to mark the beginning of the academic year and an End-of-Year Dinner on 19 November to mark its close.

The Annual Dance was held on Friday, 9 April, and was attended by the Chancellor and Lady Cockcroft. Some 250 people attended and supper was served in a marquee on the lawn.

Two Guest Nights were held, one in July and the other in October, and on both occasions the Hall was filled to capacity.

The Residents’ Committee has organized regular screenings of films in the Common Room on Sunday evenings and has also arranged a number of informal dances, parties and play readings. An innovation this year has been the introduction of a Print Club, started with some prints purchased with a donation by Dr Madge Adam and others acquired by the residents. Several exhibitions have been held; there is a keen demand for the loan of the prints and the venture must be regarded as highly successful.

Gifts and Donations

His Excellency Viscount De L’Isle presented to the House a suitably inscribed silver loving cup designed by Mr L. Durbin.
Professor R. L. Sharwood presented a silver platter designed by Mr R. Rosenfeld for use in the Scarth Room.

Other gifts included a number of Japanese prints from Professor E. S. Crawcour, two Richter prints of Australian animals from Sir Steven Runciman, a print of early Sydney from Mr H. A. Doyle, and a selection of books and prints from the British Council.

PUBLICATIONS

TRENDALL, A. D. 'The Lipari vases and their place in the history of Sicilian red-figure.' In Melignis-Lipára, 2, 269–89.

TRENDALL, A. D. 'A Sicilian neck-amphora.' Annual Bulletin of the National Gallery of Victoria, 7, 1–6.

TRENDALL, A. D. 'Pestani, vasi.' In Enciclopedia dell'Arte antica, 6, 90–4.

BRUCE HALL

REPORT OF THE WARDEN

Mr W. P. Packard

The major event for the Hall in 1965 was the occupation and subsequent completion of Burton Hall, the second permanent hall of residence for the School of General Studies. Burton Hall has provided Bruce Hall with a welcome basis for comparison and rivalry.

Warden: Mr W. P. Packard

Deputy Wardens (Men):
  Dr B. E. Kent (until May)
  Mr J. A. Dowie (from May)

Deputy Warden (Women): Miss S. C. Somerville

Sub-Wardens:
  Mr P. D. Drysdale
  Mr A. D. Hambly (from September)
  Mr T. Kanaka
  Dr B. K. Selinger (until June)
  Dr C. P. Whittle (from September)

In addition to the Warden and Deputy Warden (ex officio), members of the Governing Body were: Mr P. J. Lawler, O.B.E.: appointed by the Council of the University; Professor D. A. Brown: appointed by the Board of the School; Miss E. Bishop, Miss M. G. C. Bouquet: elected by Tutors; Mr J. H. Coates, Miss E. A. Reid: elected by Junior Members; Dr D. Walker: elected by Governing Body.

In addition to the Sub-Wardens listed above, Tutors during 1965 were: Mr P. H. Bailey, Assistant Secretary, Prime Minister's Department; Dr R. F. C. Brown, Chemistry, School of General Studies; Mr B. K. Dickey, History, Institute of Advanced Studies; Dr B. K. Fieldhouse, History, School of General Studies; Dr E. C. Fry, History, School of General Studies; Mrs J. M. Flood, Archaeology, Institute of Advanced Studies; Mr N. S. McDonald, Geography, School of General Studies; Dr I. A. McDougall, Economics, School of General Studies; Professor B. H. Neumann, Mathematics, Institute of Advanced Studies; Professor A. G. Ogston, Physical Biochemistry, Institute of Advanced Studies; Dr W. S. Ramson, English, School of General Studies (from September); Professor R. L. Sharwood, Faculty of Law, School of General Studies (until May); Miss D. Sherwin, Administration; Miss P. M. White, Sub-Dean, Faculty of Arts, School of General Studies (from September).

As previously, undergraduate and postgraduate students came from every state in Australia, and there were a number from overseas, again principally from South-East Asia. Even with the opening of Burton Hall, the high academic calibre of entrants was maintained and seventy-three per cent of new entrants held or were entitled to hold Commonwealth Scholarships. Bruce Hall Annex ceased to be part of the Hall, and for the first time the Hall was at its planned size of 100 places for women and 109 places for men junior members. During the year there were eight postgraduate students and 197 undergraduate students in residence. Seven men and seven women withdrew during the year.

The Deputy Warden, Dr B. E. Kent, went overseas on study leave at the end of First Term. Dr Daphne Osborne, University of Oxford, Professor Helen Porter, F.R.S., University of Edinburgh, and Professor A. T. A. Learmonth were in residence for parts of the year.
Mr J. R. Lerpiniere, who was appointed to the new position of Hall Manager in May 1964 resigned in March 1965. In May, Mr M. Mohay, previously cafeteria manager of the Royal Perth Hospital accepted the position of Hall Manager. Much of the smooth functioning of the Hall, both in term and with conferences at vacation times, is the result of the work of the Manager and his domestic staff.

Perhaps the best indication of the results of Bruce Hall students is the fact that, of those who sought re-admission, only eleven were refused on the grounds of their academic progress. Eighty-five per cent of the undergraduate students passed in all the units for which they had entered. Forty became eligible to take out a degree, eight with First Class Honours, nine with Second Class Honours and one with Third Class Honours. The results of those enrolled in honours courses again promised well.

As was the case last year, the demands made on the Hall's facilities by conferences held during vacation periods was very heavy. Even when Burton Hall had access to its own dining hall and was therefore in a position to assist, Bruce Hall was still overtaxed.

The Hall was honoured by a visit from Their Excellencies The Governor-General and Lady Casey, Mrs E. Peart, Professor and Mrs R. W. Steel, and Professor E. A. Boateng.

Professor R. L. Sharwood presented the Senior Common Room with a salad bowl on leaving to take up his appointment as Warden of Trinity College, Melbourne; Dr Emma Sadka gave the Hall a large glazed dish and a fine example of Malaysian ‘ikat’ cloth; The Junior Common Room made a donation towards providing more books for the Library; Professor Learmonth and Professor Scales each presented the Library with a number of books.

Commencement Dinners were held at the beginning of each term and a Valete Dinner celebrated the end of the academic year. Speakers on these occasions were—Professor G. Sawer on the U.S.A., Dr L. T. Evans on the C.S.I.R.O. Phytotron, and Professor J. D. Ovington on African National Parks.

The Committee of the Junior Common Room organized a wide variety of activities. It is pleasing to note that with the addition of Burton Hall and Forestry House a wide range of successful inter-hall activities was organized by the junior members of the halls. The Bruce Hall Ball again proved a popular function.

During 1965 the grounds of the Hall received welcome attention. The south car park was sealed; the lawns and trees planted about the extension wing made a noticeable improvement. Towards the end of the year the Governing Body considered and approved plans which would increase storage and other facilities and complete all basic landscaping about the Hall.
LENNOX HOUSE

REPORT OF THE WARDEN

Dr M. M. Gore

Nineteen hundred and sixty-five was the second year in which Lennox House operated as a Hall of Residence within the University.

Warden: Dr M. M. Gore (also lecturer in Physics)
Deputy Warden: Mr D. A. Brewster
Sub-Wardens:
  Mr J. J. Foster
  Mr P. R. Hart

Members of the Governing Body were as follows: Warden; Deputy Warden; Mr J. Q. Ewens, C.B.E.: appointed by Council; Professor H. A. Buchdahl: appointed by the Board of the School of General Studies; Mr J. J. Foster and Mr I. F. H. Wilson: elected by the Tutors of Lennox House; Mr M. N. Paddon-Row and Mr C. Turner: elected by the Junior Members of Lennox House.

In addition to the Sub-Wardens, the following members of the University were non-resident Tutors of the House: Mr G. J. Davies, Law, School of General Studies; Mr R. J. C. Horan, Administration; Professor K. S. Inglis, History, School of General Studies; Mr T. J. Keith, Administration; Mr D. O'Connor, Law, School of General Studies; Professor L. D. Pryor, Botany, School of General Studies; Mr P. J. Sands, Theoretical Physics, School of General Studies; Professor G. S. L. Tucker, Economic History, School of General Studies; Mr I. F. H. Wilson, Political Science, School of General Studies.

One hundred and four full-time undergraduate students and six postgraduate students resided in Lennox House during 1965. Of the undergraduates in residence, ten were holders of Commonwealth Scholarships, thirty-one held Teacher Trainee College Scholarships, and fifty-five were privately supported. Members came from all states in the Commonwealth, and in addition eight overseas students were in residence.

In the latter half of the year the University decided to repaint the exterior of Lennox House and to carry out a few minor renovations to the dining hall. The University gardeners continued their work in improving the grounds.

At the Second Term Dinner, the speaker was Professor L. F. Crisp, who, following his recent trip overseas, addressed the House on the topic of ‘Students Abroad’.

The Lennox House Students’ Association held its Annual Ball in the University Union this year, and it proved a most successful event.

In the Inter-hall Rugby Football Competition, Lennox House retained the trophy by defeating both Forestry House and Bruce Hall.
BURTON HALL

REPORT OF THE WARDEN

Mr G. G. Rossiter

Burton Hall, named for the Principal of the School of General Studies, Professor H. Burton, C.B.E., was opened at the beginning of 1965. Together with Garran Hall, now in the process of construction, it forms a new residential complex which will provide accommodation and other necessary facilities for approximately 480 men and women students. Each hall will consist of two four-storey residential blocks with single study-bedrooms for 120 men and 120 women students and these are being built around a central amenities block. In this block each hall has its own common rooms and dining hall, but there is a central kitchen and they share the various recreational facilities—games room, music rooms, library, etc.

Mr W. P. Packard, Warden of Bruce Hall, served as Acting Warden of Burton Hall from the beginning of the year until the newly appointed Warden took up his duties on 1 June.

Warden: Mr G. G. Rossiter, D.F.C.
Deputy Warden: Miss E. Bishop
Deputy Warden (Men): Dr B. K. Selinger
Sub-Wardens:
   Dr J. E. Everett
   Miss B. Hickman
   Mr D. M. Keenan
   Miss M. D. Rutledge
   Mr J. J. Shadlow
   Miss L. L. Viney
   Mr G. T. Walker

A Governing Body to manage the affairs of the Hall in accordance with the Halls of Residence (School of General Studies) Rules has not yet been appointed but arrangements are in hand for this to be done at the beginning of the academic year 1966.

For the First Term, only one of the residential blocks was ready for use, with the result that students had to share rooms. The second block, however, was completed just before the May vacation, so that by the beginning of the Second Term the standard of residential accommodation for all students was reasonably satisfactory.

There were no dining hall, kitchen, common room or recreational facilities for the First and Second Terms and arrangements were made for members of the Hall to have their meals in the University Union. This continued until the central block became available towards the end of the August vacation. Thus by the beginning of the Third Term, most of the construction work had been completed and a new hall of residence had taken shape.

During the Second and Third Terms, 239 students were in residence, nineteen of whom were postgraduate students and 220 undergraduate students. The number supported by scholarships was 164, made up as follows: eleven National Undergraduate and Oriental Studies Scholarships, 127 Commonwealth and Teachers' College Scholarships, and twenty-six other scholarships.
Fees
Because of delays with the building programme and the consequent inconvenience to members, it was decided to reduce residential fees for the first two terms by a total of $50 per member.

Functions and Activities
The major function of the year was the First Annual Ball which was held during the Third Term to mark the opening of the central block. First and Second Term Dinners were held at the Union and during Third Term a Valete Dinner marked the end of the academic year. The latter also gave members of the Hall an opportunity of saying farewell to Professor Burton on his retirement.

The University Council and the Australian Universities Commission had luncheon in the Hall during Third Term and in December a reception in honour of Professor Burton was given by his many friends and colleagues.

In addition, the Hall has been called upon already to undertake some catering on behalf of the University and to provide accommodation for various conferences.

With the appearance of a new hall of residence, inter-hall competitions have been expanded and have aroused greater interest than before. This year Bruce Hall, Burton Hall, Forestry House and Lennox House all took part in competitions which included most sports, a car trial, inward bound, chess, billiards, table tennis, etc. The competition was won by Forestry House, Burton Hall filling third position.
GARRAN HALL

REPORT OF THE WARDEN

Dr J. R. T. Short

The Warden took up his duties in October. Dr Short is also a Senior Lecturer in Zoology.

Two blocks of the Hall, which will accommodate sixty men and sixty women, will be ready for student use in February 1966. Work is in progress on the selection of these students, on the appointment of Deputy Wardens and Sub-Wardens and on the appointment of Tutors.
THE UNIVERSITY UNION

REPORT OF THE CHAIRMAN OF THE UNION BOARD OF MANAGEMENT

Mr A. G. Hartnell

The University Union was designed to be the centre of extra curricular activities on the campus and its objectives are to provide a meeting place and social centre for its members; to promote the intellectual, social interests, and general welfare of its members; and to secure the co-operation of its members in furthering the interests of the University. An interim Board of Management was appointed in 1964 to work out the operative plans of the Union and Mr E. R. Thorn was the first chairman of this Board which completed its preparatory work late in 1964.

In 1965 Council granted an interim constitution to the University Union, establishing the Board of Management as its governing body under the Council, with a secretary as its chief executive officer. The Secretary, Mr. E. C. de Totth, took up his position in February 1965 and shortly afterwards the University Union became operative. The Chancellor, Sir John Cockcroft, opened the Building on 8 April 1965.

Members of the Governing Body were as follows: Mr A. G. Hartnell: Chairman; The Vice-Chancellor or his nominee: ex officio; Mr A. T. Shakespeare: appointed by Council; The Bursar (Mr W. S. Hamilton): ex officio; Dr Beryl Rawson, Professor J. D. Smyth: appointed by the Staff Association; Mr I. MacIntosh: appointed by the Research Students' Association; Mr P. Simpson: appointed by the Sports Union; Mr T. Higgins, Mr R. MacKay, Mr S. C. Yocklunn: appointed by the Students' Association; Mr G. Havas, Mr G. McCready, Mr R. Rodwell: elected by the general membership at the annual elections held in August 1965.

Since 1 March 1965, when the Union Board of Management commenced operations in the University Union Building, the activities of the Union have grown at an extremely rapid pace. This growth has occurred mainly in the fields of catering and membership amenities. Catering facilities were limited for most of the year by the necessity to cater for residents of Burton Hall whilst their own facilities were being completed.

The games rooms, common rooms, reading rooms, etc., have been functioning successfully and further amenities are being planned for 1966. The Union has provided space for the offices of the Students' Association, the Sports Union and the Student Counselling Service. These organizations have had a very active year, but the need for additional rooms is apparent.

Student activities in the building were continuous right through the year. Cultural programmes, social functions and various meetings of both the Student Representative Council and the Sports Union were held in the Union and it is expected that 1966 will show an increase in all activities.

In 1965 the Union had fourteen life members, thirteen ordinary staff members and 2,504 student members.

During this first formative year of the Union, the Board is grateful to the University for the willing co-operation, assistance and advice rendered at all levels.
BUILDING PROGRAMME SUMMARY

Buildings Completed in 1965

University Union ................................................. February
Extension to Workshop and Garage at Mount Stromlo Observatory ........ February
Sports Pavilion .................................................. April
Halls of Residence ................................................ Part completed in
Oriental Studies Building ........................................ March
Lodge and Houses at Siding Spring Observatory ......................... April
Cockcroft Building Extensions ..................................... June
Chancelry—Stage 2A ................................................. December
Geophysics Building ................................................ December

Date Completed

February
February
April
Part completed in
February 1965
March
April
June
December
December

Buildings Under Construction in 1965

Halls of Residence ................................................ June 1966
Economics Building ............................................... March 1966
Extensions to Liquid Nitrogen Plant Room—Research School of Physical
Sciences ................................................................. January 1966
Extensions to Mathematical Sciences Building ........................ March 1966
Research School of Chemistry ...................................... January 1967
Wardens' Houses, Halls of Residence ................................ March 1966
Synchrotron Workshop Extensions—Research School of Physical Sciences April 1966
Fitting out lower ground floor—Mathematical Sciences Building ........ April 1966

Estimated Completion Date

June 1966
March 1966
January 1966
March 1966
January 1967
March 1966
April 1966
April 1966

Buildings Being Planned

H. C. Coombs Building Lecture Theatre
John Curtin School of Medical Research—Isotope Laboratory
Zoology Building—General Laboratory
Zoology/Psychology Animal House
Botany Controlled Environment House
University Union Snack Bar
Extensions to the Maintenance Depot

In addition planning is proceeding for a number of projects which were included in the submission to the Australian Universities Commission for the 1967–69 triennium.
## UNIVERSITY STATISTICS*

**STAFF**
**AS AT 31 JULY 1965**

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<th>Designation</th>
<th>Total Positions</th>
<th>Males</th>
<th>Females</th>
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<tr>
<td>Full-time—</td>
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<tr>
<td>Full-time—</td>
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<td>Technical Officer positions</td>
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<td><em>Technical Staff Positions</em>— (The School of General Studies)</td>
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<tr>
<td>Full-time—</td>
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<tr>
<td>Full-time—</td>
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<td><strong>Total Full-time Library Positions</strong></td>
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* Compiled in the form required by the Commonwealth Bureau of Census and Statistics.

99
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<th>Designation</th>
<th>Total Positions</th>
<th>Males</th>
<th>Females</th>
<th>Total</th>
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<td><strong>Sundry Positions</strong> - Full-time</td>
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<td>Adult Education positions</td>
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<td>Student Unions, etc., positions</td>
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<td><strong>Departmental Administration Positions</strong> - Full-time</td>
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<td>Senior Administrative Officer positions</td>
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<td><strong>Maintenance and Other Staff Positions</strong> - Full-time</td>
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<td>Maintenance of Buildings positions</td>
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<td>Gardens, Grounds and Playing Fields positions</td>
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<td>Messengers, Porters, Attendants, and other General Services positions</td>
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### The John Curtin School of Medical Research—

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<tr>
<th>Departments, etc.</th>
<th>Professors</th>
<th>Fellows, Readers</th>
<th>Senior Fellows</th>
<th>Fellows</th>
<th>Senior Research Fellows and Research Assistants</th>
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Total                    | 44           | 37               | 53           | 36      | 113                           | 403   |

5700/66.—9

101
### Table: Faculty Positions as at 31 July 1965

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TO 31 JULY 1965

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## ASSISTANCE TO STUDENTS
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| **Undergraduate Students** |       |         |       |
| Commonwealth Government Assistance |       |         |       |
| Commonwealth Scholarships | 160   | 115     | 275   |
| Colombo Plan Scholarships | 15    | 4       | 19    |
| Cadetships | 10    | 1       | 11    |
| Other Awards | 249   | 50      | 299   |
| **Total** | 434   | 170     | 604   |

| State Government Assistance |       |         |       |
| Scholarships |       | 1       | 1     |
| Teacher Training Awards |       |         |       |
| Cadetships |       |         |       |
| Other Awards |       |         |       |
| **Total** |       | 1       | 1     |

| University Assistance |       |         |       |
| Free Places |       |         |       |
| (a) Teaching | 113   | 155     | 268   |
| (b) Other | 46    | 48      | 94    |
| Part Fee concession | 125   | 5       | 130   |
| Scholarships, Bursaries and Exhibitions | 55    | 24      | 79    |
| **Total** | 339   | 232     | 571   |

| Other Assistance |       |         |       |
| Local Government |       |         |       |
| (a) Cadetships |       |         |       |
| (b) Other Awards |       |         |       |
| Overseas Awards | 2     | 1       | 3     |
| Other Known Awards | 1     | 6       | 7     |
| **Total** | 3     | 7       | 10    |

| **Total Assisted Students** |       |         |       |
| Gross Total | 776   | 410     | 1,186 |
| Adjustment for double counting | 131   | 20      | 151   |
| **Net Total** | 645   | 390     | 1,035 |
| **University Total** | 979   | 459     | 1,438 |
### DEGREES CONFERRED

**Year ended 31 July 1965**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Males</th>
<th>Females</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Philosophy</td>
<td>46</td>
<td>2</td>
<td>48</td>
</tr>
<tr>
<td>Master</td>
<td>11</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>Bachelor</td>
<td>88</td>
<td>34</td>
<td>122</td>
</tr>
<tr>
<td><strong>Total Degrees</strong></td>
<td>145</td>
<td>41</td>
<td>186</td>
</tr>
</tbody>
</table>
## FINANCIAL STATEMENTS

### STATEMENT OF ASSETS AND LIABILITIES

**As at 31 December 1965**

<table>
<thead>
<tr>
<th>General Funds—</th>
<th>$</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Assets</strong>—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash at Bank and on Deposit—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Funds</td>
<td>589,290</td>
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</tr>
<tr>
<td>Restricted Funds</td>
<td>713,730</td>
<td>1,303,020</td>
</tr>
<tr>
<td>Held in Imprests</td>
<td>33,028</td>
<td></td>
</tr>
<tr>
<td>Debtors</td>
<td>139,252</td>
<td></td>
</tr>
<tr>
<td>Advances and Prepayments</td>
<td>775,056</td>
<td></td>
</tr>
<tr>
<td>Materials in Stores and Service Pools (at cost)</td>
<td>490,408</td>
<td></td>
</tr>
</tbody>
</table>

| Fixed Assets— | | |
| Buildings (at cost or valuation)— | | |
| Buildings and Service Installations | 21,831,442 | |
| Dwellings | 4,389,670 | 26,221,112 |
| Teaching and Research Equipment and Furniture (at cost or valuation)— | | |
| The Institute of Advanced Studies | 9,153,740 | |
| The School of General Studies | 2,247,294 | |
| The Library | 211,948 | |
| Administration and General Services | 475,212 | |
| Residential Properties | 358,148 | |
| **The Library—** | | |
| Books and Publications (at cost) | 1,790,724 | |
| **Halls of Residence—** | | |
| Buildings (at cost) | 4,829,606 | |
| Furniture and Equipment (at cost less depreciation) | 406,994 | 5,240,826 |
| Works of Art and Record Library (at cost) | 4,226 | |

| Liabilities— | | |
| Creditors | 302,320 | |
| Loans from the Commonwealth Superannuation Fund and Provident Account(vii)— | | |
| For erection of Residential Properties | 190,834 | |
| For purchase of building for Northbourne House | 70,916 | 564,070 |
| **Capital Accumulation Account(ii)** | | |
| General University Reserve | 104,178 | |
| Restricted Funds(vi) | 713,730 | 47,875,698 |
| **Trust and Agency Funds(vii)** | | |
| | 3,231,764 | |

| | | |
| | | |

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**L. G. H. HUXLEY**  
Vice-Chancellor  

**J. RYAN**  
Accountant

The above Statement of Assets and Liabilities and the accompanying Statement of Income and Expenditure have been examined and are in agreement with the accounts, which have been audited. In my opinion, they show fairly the financial operations for the year ended 31 December 1965, and the state of affairs of The Australian National University as at that date.

**V. J. W. SKERMER,**  
Auditor General for the Commonwealth  
13 May 1966
### CAPITAL ACCUMULATION ACCOUNT

**FOR THE YEAR ENDED 31 DECEMBER 1965 (ii)**

<table>
<thead>
<tr>
<th>Description</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance, 1 January 1965</td>
<td>40,576,114</td>
</tr>
<tr>
<td><strong>Add:</strong></td>
<td></td>
</tr>
<tr>
<td>Transfer from Income and Expenditure Statement</td>
<td>1,460,566</td>
</tr>
<tr>
<td>Plus: Previous year's Income and Expenditure Adjustments</td>
<td>6,546</td>
</tr>
<tr>
<td>Commonwealth Grant for Capital Works and Services</td>
<td>5,284,000</td>
</tr>
<tr>
<td>Purchases from Restricted Funds</td>
<td>31,296</td>
</tr>
<tr>
<td>Profit on sale of houses sold to staff</td>
<td>75,934</td>
</tr>
<tr>
<td>Forestry School equipment transferred from the Department of National Development</td>
<td>44,534</td>
</tr>
<tr>
<td>Adjustment of value of Buildings erected by the National Capital Development Commission for the University at cost</td>
<td>102,362</td>
</tr>
<tr>
<td><strong>Total Add:</strong></td>
<td>7,005,238</td>
</tr>
<tr>
<td><strong>Less:</strong></td>
<td></td>
</tr>
<tr>
<td>Disposal of equipment and adjustment of book values</td>
<td>124,706</td>
</tr>
<tr>
<td>Transfer of assets to University Union</td>
<td>20,260</td>
</tr>
<tr>
<td>Proceeds of houses sold to staff and transferred to Staff</td>
<td></td>
</tr>
<tr>
<td>Housing Replacement Reserve</td>
<td>193,328</td>
</tr>
<tr>
<td>Transfer to Computer Facilities Fund</td>
<td>40,000</td>
</tr>
<tr>
<td>Transfer to Tandem Generator Tube Replacement Reserve</td>
<td>14,000</td>
</tr>
<tr>
<td>Transfer to Classical Antiquities Fund</td>
<td>2,600</td>
</tr>
<tr>
<td>Transfer to Fund for Academic Salary Arrears—1964</td>
<td>24,490</td>
</tr>
<tr>
<td>Transfer to General University Reserve</td>
<td>104,178</td>
</tr>
<tr>
<td><strong>Total Less:</strong></td>
<td>523,562</td>
</tr>
<tr>
<td><strong>Balance, 31 December 1965, as Contra to Assets in Statement of Assets and Liabilities(i)</strong></td>
<td>47,057,790</td>
</tr>
</tbody>
</table>

### STATEMENT OF INCOME AND EXPENDITURE

**FOR THE YEAR ENDED 31 DECEMBER 1965 (iii)**

<table>
<thead>
<tr>
<th>Description</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income:</strong></td>
<td></td>
</tr>
<tr>
<td>Commonwealth Grant for Running Expenses</td>
<td>12,325,800</td>
</tr>
<tr>
<td>Student and Examination Fees Received</td>
<td>293,744</td>
</tr>
<tr>
<td>Rentals Received</td>
<td>197,526</td>
</tr>
<tr>
<td>Sundry Income</td>
<td>79,620</td>
</tr>
<tr>
<td><strong>Total Income:</strong></td>
<td>12,896,690</td>
</tr>
<tr>
<td><strong>Expenditure:</strong></td>
<td></td>
</tr>
<tr>
<td>The Institute of Advanced Studies (see Analysis attached—iv)—</td>
<td></td>
</tr>
<tr>
<td>The John Curtin School of Medical Research</td>
<td>1,649,170</td>
</tr>
<tr>
<td>The Research School of Physical Sciences</td>
<td>1,980,392</td>
</tr>
<tr>
<td>The Research School of Social Sciences</td>
<td>807,338</td>
</tr>
<tr>
<td>The Research School of Pacific Studies</td>
<td>1,058,046</td>
</tr>
<tr>
<td>The Research School of Chemistry</td>
<td>15,304</td>
</tr>
<tr>
<td>Electron and Ion Diffusion Unit</td>
<td>37,038</td>
</tr>
<tr>
<td><strong>Total Institute of Advanced Studies (see Analysis attached—iv)—</strong></td>
<td>5,547,288</td>
</tr>
<tr>
<td>The School of General Studies (see Analysis attached—iv)—</td>
<td></td>
</tr>
<tr>
<td>The Faculty of Arts</td>
<td>775,868</td>
</tr>
<tr>
<td>The Faculty of Economics</td>
<td>239,618</td>
</tr>
<tr>
<td>The Faculty of Law</td>
<td>128,082</td>
</tr>
<tr>
<td>The Faculty of Oriental Studies</td>
<td>240,338</td>
</tr>
<tr>
<td>The Faculty of Science</td>
<td>1,198,234</td>
</tr>
<tr>
<td>Department of Adult Education</td>
<td>35,224</td>
</tr>
<tr>
<td>Language Laboratory</td>
<td>4,086</td>
</tr>
<tr>
<td><strong>Total School of General Studies (see Analysis attached—iv)—</strong></td>
<td>2,621,450</td>
</tr>
</tbody>
</table>

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107
### STATEMENT OF INCOME AND EXPENDITURE

**for the Year ended 31 December 1965 (iii)—continued**

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships</td>
<td></td>
<td>$784,014</td>
</tr>
<tr>
<td>The Library—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and Wages</td>
<td></td>
<td>$278,884</td>
</tr>
<tr>
<td>Pay Roll Tax</td>
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<td>$6,328</td>
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<tr>
<td>Superannuation Contribution</td>
<td></td>
<td>$21,066</td>
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<tr>
<td>Binding Costs</td>
<td></td>
<td>$24,548</td>
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<tr>
<td>Administrative Expenses</td>
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<td>$70,856</td>
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<tr>
<td></td>
<td></td>
<td>$401,682</td>
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<tr>
<td>Administration—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and Wages</td>
<td></td>
<td>$682,378</td>
</tr>
<tr>
<td>Pay Roll Tax</td>
<td></td>
<td>$16,956</td>
</tr>
<tr>
<td>Superannuation Contribution</td>
<td></td>
<td>$87,162</td>
</tr>
<tr>
<td>Administrative Expenses</td>
<td></td>
<td>$485,990</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$1,272,486</td>
</tr>
<tr>
<td>Miscellaneous—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Council and Committee Expenses</td>
<td></td>
<td>$4,308</td>
</tr>
<tr>
<td>Sundry Functions and Conferences</td>
<td></td>
<td>$31,340</td>
</tr>
<tr>
<td>Subscriptions, Donations and Grants to other organizations</td>
<td></td>
<td>14,264</td>
</tr>
<tr>
<td>Bad Debts and Fees written off</td>
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<td>$500</td>
</tr>
<tr>
<td>University Calendar and Public Relations Materials</td>
<td></td>
<td>$16,950</td>
</tr>
<tr>
<td>Private Audit and miscellaneous expenses</td>
<td></td>
<td>$5,628</td>
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<tr>
<td>Legal Expenses</td>
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<td>$820</td>
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<tr>
<td>Subvention for Art Fund</td>
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<td>$2,000</td>
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<tr>
<td>Subvention for Publications</td>
<td></td>
<td>$11,000</td>
</tr>
<tr>
<td>Subvention for University Films</td>
<td></td>
<td>$1,000</td>
</tr>
<tr>
<td>Subvention for Drama Committee</td>
<td></td>
<td>$1,120</td>
</tr>
<tr>
<td>Subvention for facilities provided by University House for General University purposes</td>
<td></td>
<td>$10,000</td>
</tr>
<tr>
<td>University House—Master's Stipend and Secretarial Assistance</td>
<td></td>
<td>$19,056</td>
</tr>
<tr>
<td>Bruce Hall—Warden's Stipend and Secretarial Assistance</td>
<td></td>
<td>$16,262</td>
</tr>
<tr>
<td>Lennox House—Warden's Stipend and Secretarial Assistance</td>
<td></td>
<td>$2,630</td>
</tr>
<tr>
<td>University Union—Secretary's Salary and Expenses</td>
<td></td>
<td>$13,058</td>
</tr>
<tr>
<td>Burton Hall—Warden's Stipend and Secretarial Assistance</td>
<td></td>
<td>$8,578</td>
</tr>
<tr>
<td>Garran Hall—Warden's Stipend and Secretarial Assistance</td>
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<td>$826</td>
</tr>
<tr>
<td>Expenses—Staff Centre</td>
<td></td>
<td>$342</td>
</tr>
<tr>
<td>Preliminary Expenses—Medical Education</td>
<td></td>
<td>$182</td>
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<tr>
<td>Creative Arts Fellowships</td>
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<td>$4,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$163,864</td>
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<tr>
<td>General Services and Maintenance—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications Section—Salaries and Expenses</td>
<td></td>
<td>$31,342</td>
</tr>
<tr>
<td>Translation Unit—Salaries and Expenses</td>
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<td>$9,306</td>
</tr>
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<td>Data Processing Unit—Salaries and Expenses</td>
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<td>$50,058</td>
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<td>Student Counselling Service</td>
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<tr>
<td>Visual Aids Unit</td>
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<td>$15,222</td>
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<tr>
<td>Efficient Reading Course</td>
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<td>$2,272</td>
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<tr>
<td>Maintenance—Buildings</td>
<td></td>
<td>$196,916</td>
</tr>
<tr>
<td>Maintenance—Other</td>
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<td>$178,084</td>
</tr>
<tr>
<td>Watchmen</td>
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<td>$35,698</td>
</tr>
<tr>
<td>Freight, Supply and Disposal Expenses, General</td>
<td></td>
<td>$9,868</td>
</tr>
<tr>
<td>Telephone Exchange Costs</td>
<td></td>
<td>$34,202</td>
</tr>
<tr>
<td>Pay Roll Tax—Maintenance and General Service Salaries</td>
<td></td>
<td>$11,852</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$584,408</td>
</tr>
</tbody>
</table>

108
Halls of Residence (see Analyses attached (v))—

<table>
<thead>
<tr>
<th>Residence</th>
<th>Operating Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>University House</td>
<td>15,722</td>
</tr>
<tr>
<td>Bruce Hall</td>
<td>11,754</td>
</tr>
<tr>
<td>Lennox House</td>
<td>14,094</td>
</tr>
<tr>
<td>Burton Hall</td>
<td>5,442</td>
</tr>
<tr>
<td>Forestry House</td>
<td>7,536</td>
</tr>
<tr>
<td>Northbourne House</td>
<td>6,384</td>
</tr>
</tbody>
</table>

Total Operating Loss: **60,932**

Transfer to Capital Accumulation Account (ii): **1,460,566**
ATTACHMENT TO INCOME AND EXPENDITURE STATEMENT
31 December 1965 (iv)

<table>
<thead>
<tr>
<th></th>
<th>Expendable Research Materials</th>
<th>Salaries</th>
<th>Pay Roll Tax</th>
<th>Super-annuation</th>
<th>Field Research and Travelling Expenses</th>
<th>Administrative and Service Expenses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THE INSTITUTE OF ADVANCED STUDIES—</strong></td>
<td>$25,618</td>
<td>$111,796</td>
<td>$13,226</td>
<td>$40,786</td>
<td>$13,038</td>
<td>$29,434</td>
<td>$145,414</td>
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<td>Department of Biochemistry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Physical Biochemistry</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Department of Medical Chemistry</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Department of Microbiology</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Department of Experimental Pathology</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Physiology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Biological Inorganic Chemistry Unit</td>
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<td></td>
<td></td>
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<tr>
<td>Department of Genetics</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Electron Microscope Unit</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>General Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Animal Breeding Establishment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Workshop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$191,490</td>
<td>$1,053,158</td>
<td>$27,546</td>
<td>$125,314</td>
<td>$9,794</td>
<td>$182,310</td>
<td>$241,868</td>
</tr>
</tbody>
</table>

| **The Research School of Physical Sciences—** | | | | | | |
| Department of Engineering Physics | | | | | | $29,292 |
| Department of Nuclear Physics | | | | | | $27,824 |
| Department of Theoretical Physics | | | | | | $56 |
| Department of Geophysics and Geochemistry | | | | | | $51,498 |
| Department of Astronomy | | | | | | $34,400 |
| Department of Mathematics | | | | | | $234 |
| Diffusion Research Unit | | | | | | $4,650 |
| Physics of Ionized Gases Unit | | | | | | $3,992 |
| School Administration | | | | | | $86,538 |
| Workshops | | | | | | $6,586 |
| Electronics Workshops | | | | | | $13,704 |
| Computer Centre | | | | | | $10,766 |
| **Total** | $258,774 | $1,215,828 | $31,744 | $161,390 | $39,460 | $273,196 | $1,980,392 |

| **The Research School of Social Sciences—** | | | | | | |
| Department of Law | | | | | | $264 |
| Department of Economics | | | | | | $826 |
| Department of Political Science | | | | | | $1,768 |
| Department of History | | | | | | $1,846 |
| Department of Demography | | | | | | $1,518 |
| Department of Statistics | | | | | | $388 |
| Department of Philosophy | | | | | | $100 |
| Department of Sociology | | | | | | $1,592 |
| Department of Economic History | | | | | | $2,012 |
| General Administration | | | | | | $50,290 |
| Director's Section | | | | | | $4,308 |
| Archives Section | | | | | | $9,766 |
| **Total** | $10,324 | $606,858 | $15,260 | $57,490 | $35,822 | $81,584 | $807,338 |

continued on following page
## ATTACHMENT TO INCOME AND EXPENDITURE STATEMENT

31 December 1965 (iv)—continued

<table>
<thead>
<tr>
<th>The Research School of Pacific Studies—</th>
<th>Expendable Research Materials</th>
<th>Salaries</th>
<th>Pay Roll Tax</th>
<th>Superannuation</th>
<th>Field Research and Travelling Expenses</th>
<th>Administrative and Service Expenses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of International Relations</td>
<td>4,674</td>
<td>75,652</td>
<td></td>
<td>4,438</td>
<td></td>
<td></td>
<td>84,764</td>
</tr>
<tr>
<td>Department of Anthropology and Sociology</td>
<td>7,472</td>
<td>157,418</td>
<td></td>
<td>38,464</td>
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<td></td>
<td>203,354</td>
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<tr>
<td>Department of Pacific History</td>
<td>2,340</td>
<td>90,202</td>
<td></td>
<td>8,154</td>
<td></td>
<td></td>
<td>100,694</td>
</tr>
<tr>
<td>Department of Geography</td>
<td>6,344</td>
<td>105,684</td>
<td></td>
<td>19,914</td>
<td></td>
<td></td>
<td>131,942</td>
</tr>
<tr>
<td>Department of Far Eastern History</td>
<td>3,628</td>
<td>77,944</td>
<td></td>
<td>3,282</td>
<td></td>
<td></td>
<td>84,854</td>
</tr>
<tr>
<td>Department of Economics</td>
<td>1,356</td>
<td>115,136</td>
<td></td>
<td>16,098</td>
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<td></td>
<td>132,590</td>
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<tr>
<td>New Guinea Research Unit</td>
<td>986</td>
<td>51,272</td>
<td></td>
<td>20,486</td>
<td></td>
<td></td>
<td>72,750</td>
</tr>
<tr>
<td>General Administration</td>
<td>39,708</td>
<td>20,100</td>
<td>79,230</td>
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<td></td>
<td>91,260</td>
<td>236,184</td>
</tr>
<tr>
<td>Director's Section</td>
<td>10,912</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10,912</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>26,800</td>
</tr>
</tbody>
</table>

| The Research School of Chemistry—     |                               |          |               |                |                                        |                                   | 723,928|
| General Administration                |                               |          |               |                |                                        |                                   | 91,266|

| Electron and Ion Diffusion Unit       | 5,692                         | 27,446   | 682           | 3,174          |                                        |                                   | 37,038|

Total—The Institute of Advanced Studies 493,080 3,629,114 95,380 426,810 208,524 694,380 5,547,288

| The School of General Studies—        |                               |          |               |                |                                        |                                   | 5,608,650|
| The Faculty of Arts                  | 14,274                        | 618,702  | 15,818        | 79,816         | 9,960                                  |                                   | 775,868|
| The Faculty of Economics             | 1,558                         | 203,644  | 5,072         | 20,634         | 1,120                                  |                                   | 239,618|
| The Faculty of Law                   | 1,860                         | 102,102  | 2,566         | 11,348         | 1,018                                  |                                   | 128,082|
| The Faculty of Oriental Studies       | 9,694                         | 183,190  | 4,676         | 20,742         | 1,976                                  |                                   | 240,338|
| The Faculty of Science               | 156,130                       | 839,534  | 22,512        | 87,914         | 29,614                                  |                                   | 1,198,234|
| The Department of Adult Education     | 236                           | 28,880   | 14            | 2,430          | 548                                    |                                   | 35,224|
| The Language Laboratory               | 130                           | 3,484    | 72            | 212            | 60                                     |                                   | 4,086|

Total—The School of General Studies 183,882 1,979,536 50,730 223,096 44,296 139,910 2,621,450

|                               | 676,962                       | 5,608,650| 146,110       | 649,906        | 252,820                                  |                                   | 8,168,738|
## HALLS OF RESIDENCE

### CONSOLIDATED OPERATING STATEMENT

**for the year ended 31 December 1965 (v)**

<table>
<thead>
<tr>
<th></th>
<th>University House</th>
<th>Bruce Hall</th>
<th>Lennox House</th>
<th>Burton Hall</th>
<th>Forestry House</th>
<th>Northbourne House†</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income—</strong></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Tariff Received—Residents</td>
<td>165,070</td>
<td>127,340</td>
<td>54,932</td>
<td>122,938</td>
<td>24,172</td>
<td>13,488</td>
<td>507,940</td>
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<td>Visitors</td>
<td>31,758</td>
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<td>10,766</td>
<td>102</td>
<td></td>
<td></td>
<td>66,574</td>
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<td>Membership Fees</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>5,146</td>
<td></td>
</tr>
<tr>
<td>Registration Fees</td>
<td>620</td>
<td>680</td>
<td>2,270</td>
<td></td>
<td></td>
<td>3,570</td>
<td></td>
</tr>
<tr>
<td>Reimbursement of Board—House Staff</td>
<td>5,742</td>
<td>3,184</td>
<td>1,678</td>
<td>882</td>
<td></td>
<td>11,486</td>
<td></td>
</tr>
<tr>
<td>Income from Casual Members and Catering</td>
<td>28,770</td>
<td>8,332</td>
<td>324</td>
<td>13,328</td>
<td>70</td>
<td>124</td>
<td>50,948</td>
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<td>1,784</td>
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<td>100</td>
<td>272</td>
<td></td>
<td>2</td>
<td>2,326</td>
</tr>
<tr>
<td><strong>Less—</strong></td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Expenditure—</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Costs—</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost of Foodstuffs</td>
<td>60,358</td>
<td>50,636</td>
<td>27,298</td>
<td>51,126</td>
<td>13,878</td>
<td>4,650</td>
<td>207,946</td>
</tr>
<tr>
<td>Fuel, Light and Power</td>
<td>19,558</td>
<td>19,092</td>
<td>9,954</td>
<td>15,248</td>
<td>3,286</td>
<td>1,850</td>
<td>68,988</td>
</tr>
<tr>
<td>Cleaning, Laundry and Sundry Materials</td>
<td>8,712</td>
<td>6,200</td>
<td>4,310</td>
<td>4,460</td>
<td>810</td>
<td>462</td>
<td>24,954</td>
</tr>
<tr>
<td>Domestic Staff Wages</td>
<td>95,546</td>
<td>70,344</td>
<td>37,604</td>
<td>56,824</td>
<td>10,364</td>
<td>7,502</td>
<td>278,184</td>
</tr>
<tr>
<td>Losses, Breakages and Replacements</td>
<td>1,484</td>
<td>2,340</td>
<td>1,514</td>
<td>5,086</td>
<td>180</td>
<td>96</td>
<td>10,700</td>
</tr>
<tr>
<td>Local Transport, Freight and Supply Expenses</td>
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<td>286</td>
<td>108</td>
<td>1,352</td>
<td>6</td>
<td>28</td>
<td>2,998</td>
</tr>
<tr>
<td>Other Expenses</td>
<td>460</td>
<td>328</td>
<td>398</td>
<td>38</td>
<td>130</td>
<td></td>
<td>1,354</td>
</tr>
<tr>
<td><strong>Administrative Expenses—</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pay Roll Tax</td>
<td>2,792</td>
<td>2,132</td>
<td>1,052</td>
<td>1,622</td>
<td>242</td>
<td>166</td>
<td>8,000</td>
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<td>Workmen's Compensation Insurance</td>
<td>518</td>
<td>234</td>
<td>304</td>
<td>478</td>
<td>62</td>
<td>36</td>
<td>1,632</td>
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<td>Superannuation</td>
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<td>1,282</td>
<td>392</td>
<td>722</td>
<td></td>
<td></td>
<td>3,568</td>
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<td>Advertising and Appointment Expenses</td>
<td>372</td>
<td>1,200</td>
<td>68</td>
<td>762</td>
<td>4</td>
<td>28</td>
<td>2,434</td>
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<tr>
<td>Posts, Telegrams and Telephones</td>
<td>1,642</td>
<td>916</td>
<td>708</td>
<td>820</td>
<td>90</td>
<td>186</td>
<td>4,362</td>
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<tr>
<td>Stationery, Printing and Office Expenses</td>
<td>1,204</td>
<td>638</td>
<td>382</td>
<td>1,364</td>
<td></td>
<td></td>
<td>3,588</td>
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<td>Newspapers and Periodicals</td>
<td>500</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>Master's and Fellows' Entertainment Expenses</td>
<td>1,886</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,886</td>
</tr>
<tr>
<td>Travelling Expenses</td>
<td>36</td>
<td>76</td>
<td>8</td>
<td>4</td>
<td></td>
<td></td>
<td>124</td>
</tr>
<tr>
<td>Warden's Entertainment Expenses</td>
<td>398</td>
<td>466</td>
<td>234</td>
<td></td>
<td></td>
<td></td>
<td>1,098</td>
</tr>
<tr>
<td>Interest on Loan</td>
<td>720</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,580</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>25,660</td>
<td>17,486</td>
<td>7,834</td>
<td>16,286</td>
<td>798</td>
<td>3,996</td>
<td>72,060</td>
</tr>
</tbody>
</table>

* Forestry House commenced operations on 1 February 1965 as a University Hall.
† Northbourne House (previously operated as Bruce Hall Annex) commenced operations on 1 March 1965.
### CONSOLIDATED OPERATING STATEMENT

**FOR THE YEAR ENDED 31 DECEMBER 1965 (v)—continued**

<table>
<thead>
<tr>
<th></th>
<th>University House</th>
<th>Bruce Hall</th>
<th>Lennox House</th>
<th>Burton Hall</th>
<th>Forestry House*</th>
<th>Northbourne House†</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Property Maintenance and Service Expenses—</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Rates and General Services</td>
<td>422</td>
<td>770</td>
<td>600</td>
<td>700</td>
<td>420</td>
<td>106</td>
<td>3,018</td>
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<td>2,606</td>
<td>874</td>
<td>1,898</td>
<td>576</td>
<td>23,618</td>
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<td>Repairs</td>
<td>1,688</td>
<td>2,000</td>
<td>1,006</td>
<td>180</td>
<td>124</td>
<td>190</td>
<td>5,188</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>14,180</td>
<td>8,364</td>
<td>4,212</td>
<td>1,754</td>
<td>2,442</td>
<td>872</td>
<td>31,824</td>
</tr>
<tr>
<td></td>
<td>226,716</td>
<td>175,208</td>
<td>93,162</td>
<td>152,534</td>
<td>31,802</td>
<td>19,586</td>
<td>699,008</td>
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<tr>
<td>Estimated Depreciation on Furniture and Equipment</td>
<td>12,292</td>
<td>8,798</td>
<td>2,594</td>
<td>3,688</td>
<td>78</td>
<td>412</td>
<td>27,862</td>
</tr>
<tr>
<td>Net Operating Loss Transferred to University Statement of Income and Expenditure</td>
<td>15,722</td>
<td>11,754</td>
<td>14,094</td>
<td>5,442</td>
<td>7,536</td>
<td>6,384</td>
<td>60,932</td>
</tr>
</tbody>
</table>

* Forestry House commenced operations on 1 February 1965 as a University Hall.
† Northbourne House (previously operated as Bruce Hall Annex) commenced operations on 1 March 1965.
STATEMENT OF FUNDS GRANTED FOR RESTRICTED PURPOSES
for the year ended 31 December 1965 (i)—continued

<table>
<thead>
<tr>
<th>Subsidies and Donations Received During 1965</th>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

THE UNIVERSITY—

<table>
<thead>
<tr>
<th>Fund</th>
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<th>$</th>
<th>$</th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>The John Curtin School of Medical Research Reserve</td>
<td>2,004</td>
<td>2,004</td>
<td>20,000</td>
<td>17,996</td>
</tr>
<tr>
<td>The Research School of Physical Sciences Reserve</td>
<td>2,004</td>
<td>2,004</td>
<td>20,000</td>
<td>17,996</td>
</tr>
<tr>
<td>The Research School of Social Sciences Reserve</td>
<td>2,004</td>
<td>2,004</td>
<td>10,000</td>
<td>7,996</td>
</tr>
<tr>
<td>The Research School of Pacific Studies Reserve</td>
<td>2,004</td>
<td>2,004</td>
<td>10,000</td>
<td>7,996</td>
</tr>
<tr>
<td>The School of General Studies Reserve</td>
<td>5,012</td>
<td>5,012</td>
<td>10,000</td>
<td>4,988</td>
</tr>
<tr>
<td>The University Art Reserve</td>
<td>2,000</td>
<td>2,000</td>
<td>10,000</td>
<td>7,996</td>
</tr>
<tr>
<td>The University Film Reserve</td>
<td>1,000</td>
<td>1,000</td>
<td>10,000</td>
<td>7,996</td>
</tr>
<tr>
<td>The University Publications Reserve</td>
<td>38,240</td>
<td>25,858</td>
<td>12,382</td>
<td>60,480</td>
</tr>
<tr>
<td>The Mount Stromlo Observatory Fund for Accumulated Furlough</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>The University Theatre Group Reserve</td>
<td>1,200</td>
<td>1,200</td>
<td>10,000</td>
<td>7,996</td>
</tr>
<tr>
<td>The Rockefeller Foundation Grant for General Purposes</td>
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<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>The Staff Housing Replacement Reserve</td>
<td>193,328</td>
<td>1,436</td>
<td>191,892</td>
<td>301,010</td>
</tr>
</tbody>
</table>

THE INSTITUTE OF ADVANCED STUDIES—

**The John Curtin School of Medical Research**—

Anonymous Donation to the John Curtin School of Medical Research for general purposes | 50 | 50 | 100 | 150 |

Department of Biochemistry—

U.S. Department of Health grant for research of mechanism of action of A.T.P. guanidino phospho-transferases | 2,226 | 2,276 | 50Dr. | 22 | 28Dr. |

National Institutes of Health (U.S.) grant for research | 3,494 | 3,508 | 14Dr. | . | 14Dr. |

Department of Physical Biochemistry—

C.S.I.R.O. grant for research in milk proteins | 400 | 2,736 | 2,336Dr. | 2,882 | 546 |

Department of Medical Chemistry—

National Institutes of Health (U.S.) Fellowship grant | 448 | 468 | 20Dr. | . | 20Dr. |

Smith Kline & French Laboratories (Aust.) Ltd grant for travel | . | 2,000 | 2,000Dr. | 2,000 | . |

Department of Microbiology—

Wool Research Committee grant for research in myxomatosis | 3,630 | 7,436 | 3,806Dr. | 6,718 | 2,912 |

World Health Organization grant for research | . | 276 | 276 | 276 |

World Health Organization grant for maintenance of regional reference laboratory for anthropod-borne viruses | 3,124 | 1,280 | 1,844 | 3,288 | 5,132 |

National Institutes of Health (U.S.) grant for visiting fellow | 446 | 446 | . | . | . |

National Institutes of Health (U.S.) grant for visiting fellow | 446 | 446 | . | . | . |

Rockefeller Foundation grant for research | 6,714 | 6,108 | 606 | . | 606 |

Department of Experimental Pathology—

National Heart Foundation of Australia grant for research in pathogenesis of arteriosclerosis | 3,100 | 2,736 | 364 | 262 | 626 |

National Heart Foundation of Australia grant for study of the ultra structure of the aortic wall | 3,456 | 4,128 | 672Dr. | 778 | 106 |

National Heart Foundation of Australia grant for research fellowship | 3,248 | 3,298 | 50Dr. | 88 | 38 |

World Health Organization grant for studies in immunological mechanisms | 2,678 | 3,058 | 380Dr. | 450Dr. | 830Dr. |
### Statement of Funds Granted for Restricted Purposes

For the Year Ended 31 December 1965 (vi)—continued

<table>
<thead>
<tr>
<th>Subsidies and Donations Received During 1965</th>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Physiology—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special travel fund</td>
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<td>1,644</td>
<td>2400 Dr.</td>
<td>250 Dr.</td>
</tr>
<tr>
<td>Wool Research Committee grant for sheep and wool research</td>
<td>3,252</td>
<td>3,252 Dr.</td>
<td>3,252 Dr.</td>
<td>3,252 Dr.</td>
</tr>
<tr>
<td>Reserve Bank of Australia Rural Credits Development Fund grant for research in physiology of tropical sheep</td>
<td>1,362</td>
<td>1,362 Dr.</td>
<td>1,362 Dr.</td>
<td>1,362 Dr.</td>
</tr>
<tr>
<td>Muscular Dystrophy Association of America grant No. 2 for research</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Muscular Dystrophy Association of America grant No. 3 for research</td>
<td>1,628</td>
<td>964</td>
<td>664 Dr.</td>
<td>78 Dr.</td>
</tr>
<tr>
<td>U.S. Department of Army grant for research on water economy of desert aboriginals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muscular Dystrophy Association of Canada grant for research</td>
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<td>4,010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institutes of Health (U.S.) grant for research</td>
<td>17,300</td>
<td>15,876</td>
<td>1,424</td>
<td>1,424 Dr.</td>
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<tr>
<td>Biological Inorganic Chemistry Unit—</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monsanto Chemicals grant for research in synthesis of metal complexes</td>
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<td></td>
<td></td>
<td>280 Dr.</td>
</tr>
<tr>
<td>The Research School of Physical Sciences—</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Engineering Physics—</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>National Institutes of Health (U.S.) Fellowship grant</td>
<td>222</td>
<td>378</td>
<td>156 Dr.</td>
<td>356 Dr.</td>
</tr>
<tr>
<td>Reserve Bank of Australia grant for research in fuel cells</td>
<td>7,000</td>
<td>5,606</td>
<td>1,394</td>
<td>1,186 Dr.</td>
</tr>
<tr>
<td>Department of Nuclear Physics—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australian Institute of Nuclear Science and Engineering grant for study of low Q valve stripping reactions</td>
<td>244</td>
<td>244 Dr.</td>
<td>244 Dr.</td>
<td>244 Dr.</td>
</tr>
<tr>
<td>Australian Institute of Nuclear Science and Engineering grant for computation of nuclear reactions</td>
<td>1,086</td>
<td>1,086 Dr.</td>
<td>1,200</td>
<td>1,14 Dr.</td>
</tr>
<tr>
<td>Tandem Generator tube replacement reserve</td>
<td>14,000</td>
<td>14,000</td>
<td>1,614</td>
<td>15,614</td>
</tr>
<tr>
<td>Australian Institute of Nuclear Science and Engineering grant for attendance at overseas conference</td>
<td>1,100</td>
<td>1,100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Geophysics and Geochemistry—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australian Institute of Nuclear Science and Engineering grant for activation studies in rocks</td>
<td></td>
<td></td>
<td>210 Dr.</td>
<td>210 Dr.</td>
</tr>
<tr>
<td>Metropolitan Water, Sewerage and Drainage Board and Snowy Mountains Hydro-Electric Authority grant for seismological research</td>
<td>4,000</td>
<td>6,222</td>
<td>2,222 Dr.</td>
<td>1,208 1,014 Dr.</td>
</tr>
<tr>
<td>U.S. National Science Foundation grant for research in differentiation of ferrar dolerites of the McMurdo Sound area</td>
<td>1,558</td>
<td>1,558 Dr.</td>
<td>1,258</td>
<td>300 Dr.</td>
</tr>
<tr>
<td>U.S. National Science Foundation grant for general purposes</td>
<td>178</td>
<td>178 Dr.</td>
<td>178 Dr.</td>
<td>178 Dr.</td>
</tr>
<tr>
<td>U.S. National Science Foundation grant for fellowship</td>
<td>446</td>
<td>446</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Astronomy—</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Myer Foundation grant for International Astronomy Union symposium</td>
<td></td>
<td></td>
<td>218 Dr.</td>
<td>218 Dr.</td>
</tr>
<tr>
<td>International Astronomical Union grant for distinguished visitors</td>
<td>40</td>
<td>40 Dr.</td>
<td>452 Dr.</td>
<td>412 Dr.</td>
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<tr>
<td>Carnegie Institution of Washington grant for research</td>
<td>1,778</td>
<td>1,778</td>
<td></td>
<td>1,778 Dr.</td>
</tr>
<tr>
<td>H. Swope grant for purchase of facilities at Siding Spring Observatory</td>
<td></td>
<td></td>
<td>90 Dr.</td>
<td>90 Dr.</td>
</tr>
</tbody>
</table>

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## STATEMENT OF FUNDS GRANTED FOR RESTRICTED PURPOSES

FOR THE YEAR ENDED 31 DECEMBER 1965 (vi)—continued

<table>
<thead>
<tr>
<th>Subsidies and Donations Received During 1965</th>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mathematics—</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Grant for Summer Research Conference</td>
<td>$446</td>
<td>$446Dr.</td>
<td>$446</td>
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</tr>
<tr>
<td>U.S. Department of Navy grant for research in wind-generated waves</td>
<td>$3,346</td>
<td>$3,286</td>
<td>$9,626</td>
<td>$12,912</td>
</tr>
<tr>
<td>U.S. National Science grant for fellowship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| The Research School of Social Sciences—     |                                          |                                           |                              |                               |
| Department of Economics—                    |                                          |                                           |                              |                               |
| Australian Banks grant for visiting professor |                                          |                                           |                              |                               |
| Special travel fund                         |                                          |                                           |                              |                               |
| Department of Political Science—            |                                          |                                           |                              |                               |
| Australian Institute of International Affairs grant for research in strategic problems | $1,600 | $1,828 | $228Dr. | $580 | $352 |
| Special travel fund                         |                                          |                                           |                              |                               |
| Department of History—                      |                                          |                                           |                              |                               |
| W. M. Hughes grant for W. M. Hughes biography |                                          |                                           |                              |                               |
| Grant for Australian Dictionary of Biography |                                          |                                           |                              |                               |

| Department of Demography—                  |                                          |                                           |                              |                               |
| Australian Institute of International Affairs grant for research in migration problems | $1,600 | $1,692 | $92Dr. | $2,640 | $2,548 |
| Department of Immigration grant for British Migrant Survey | $2,000 | $1,872 | $1,872 |                              |                               |

| Department of Statistics—                  |                                          |                                           |                              |                               |
| Reserve Bank of Australia grant for Australia's educational statistics | $1,484 | $1,484Dr. | $548Dr. | $2,032Dr. |                               |
| National Capital Development Commission grant for survey of school leavers |                                          |                                           |                              |                               |

| Department of Economic History—             |                                          |                                           |                              |                               |
| Wm Cooper & Nephews (Aust.) Pty Ltd grant for research | $1,536 | $1,500 | $36 | $36 |                               |
| Goldsbrough Mort grant for research (formerly Economics) | $12  | $500 | $488Dr. | $500 | $12 |
| Social Science Research Council grant for research | $300 | $300 | $300 |                              |                               |

| The Research School of Pacific Studies—     |                                          |                                           |                              |                               |
| The Ford Foundation grant for international research and training programme | $133,450 | $62,346 | $71,104 | $120 | $71,224 |
| The Myer Foundation grant for seminar on Australian foreign aid |                                          |                                           |                              | $232 | $232 |
| Hunter Douglas Fund for research in the Pacific area | $36Cr. | $36  | $2,896 | $2,932 |
| Director's special fund                     | $66  | $66  | $14  | $80  |                               |

| Department of Anthropology and Sociology—   |                                          |                                           |                              |                               |
| E. M. Symon bequest for research            |                                          |                                           |                              | $1,104 | $1,104 |
| Special Purpose Fund                        |                                          |                                           |                              | $92  | $92 |
| Nuffield Foundation grant for Prehistory    | $2,728 | $1,546 | $1,182 | $1,182 |                               |
| Australian Institute of Aboriginal Studies grant for linguistic research | $10,208 | $9,500 | $708 | $708 |                               |

| Department of Pacific History—              |                                          |                                           |                              |                               |
| Journal of Pacific History Fund             |                                          |                                           |                              | $536 | $536 |

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### STATEMENT OF FUNDS GRANTED FOR RESTRICTED PURPOSES

**for the Year ended 31 December 1965 (vi)—continued**

<table>
<thead>
<tr>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Subsidies and Donations Received During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
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<td>$</td>
</tr>
</tbody>
</table>

**Department of Geography—**

- Bernice P. Bishop Museum grant for Mt. Wilhelm Field Station: 1,168 $1,168 Dr. 1,122 46 Dr.
- C.S.I.R.O. grant for research: .. .. .. .. .. 100 100
- University of Tasmania grant for field-work in Tasmania: .. .. .. .. .. 14 14
- Reserve Bank of Australia Rural Credits Development Fund grant to cover costs of aerial photos of the Chimbu sub-district in New Guinea: .. .. 1,274 1,274
- C.S.I.R.O. grant for visitor: 1,400 40 1,360 .. 1,360

**Department of Economics—**

- Grants for study of American investment in Australia: .. .. .. .. .. 222 222 Dr. 3,854 3,632
- Reserve Bank of Australia Rural Credits Development Fund grant for study of indigenous cash cropping in Territory of Papua and New Guinea: .. 8,034 8,034 Dr. 1,580 Dr. 9,614 Dr.
- Reserve Bank of Australia Rural Credits Development Fund grant for study of indigenous land settlement in Territory of Papua and New Guinea: .. 4,918 4,918 Dr. 22 Dr. 4,940 Dr.
- Reserve Bank of Australia Rural Credits Development Fund grant for a cost-benefits study of the Coleambally irrigation area of New South Wales: .. 3,000 2,306 694 .. 694

**New Guinea Research Unit—**

- Reserve Bank of Australia Rural Credits Development Fund grant for study of economic aspect of indigenous agriculture in Territory of Papua and New Guinea: 14,000 9,000 5,000 224 Dr. 4,776
- Grant for field-work in Territory of Papua and New Guinea: .. .. .. .. .. 8,712 8,712

**THE SCHOOL OF GENERAL STUDIES—**

**The Faculty of Arts—**

- Commonwealth Literary Fund grant for lectures: .. .. .. 20 20 Dr. 86 66

**Department of Classics—**

- Special Fund: .. .. .. 6 6 Dr. 18 12
- Fund for purchase of classical antiquities: .. 2,632 1,960 672 .. 672

**Department of Political Science—**

- University of Melbourne grant for publication of book: .. 60 102 42 Dr. 42 ..
- C.S.I.R.O. grant for research: .. 6,000 3,178 2,822 1,522 Dr. 1,300
- Australian Institute of International Affairs grant for research: 1,400 1,810 410 Dr. 410 ..
- Rockefeller Foundation grant for study of political and administrative aspects of Australian foreign aid in S.E. Asia: 4,762 4,762 .. ..
- Social Science Research Council grant for research: 600 600 .. .. ..

**The Faculty of Economics—**

**Department of Economics—**

- Reserve Bank of Australia grant for study of Australian manufacturing industry: .. .. .. .. .. 1,350 1,350
- Reserve Bank of Australia grant for Econometric study of Australian inflation: 3,000 .. 3,000 .. 3,000
STATEMENT OF FUNDS GRANTED FOR RESTRICTED PURPOSES
for the Year ended 31 December 1965 (vi)—continued

<table>
<thead>
<tr>
<th>Subsidies and Donations Received During 1965</th>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**The Faculty of Law—**

- Law notes and Law Review fund
  - 3,108
  - 3,140
  - 32 Dr.
  - 996
  - 964

**The Faculty of Science—**

- Department of Botany—
  - General Purpose Fund
    - Reserve Bank of Australia Rural Credits Development Fund grant for research in the characteristics of eucalyptus oil
      - 2,852
      - 1,062
      - 1,790
      - 1,268
      - 3,058
  - National Capital Development Commission grant for ecological research
    - 4,000
    - 3,838
    - 162
    - 888
    - 1,050
  - A.P.M. Forests Pty Ltd grant for research in eucalypti at Coffs Harbour
    - 4,000
    - 3,756
    - 244
    - 2,000
    - 2,244

- Department of Chemistry—
  - Wool Research Committee grant for wool research
    - 9,260
    - 7,246
    - 2,014
    - 1,674 Dr.
    - 340
  - The Junior Rothmans Fellowship grant
    - 7,464
    - 7,516
    - 52 Dr.
    - 2,752
    - 2,700

- Department of Physics—
  - Australian Atomic Energy Commission grant for research
    - 10,600
    - 5,066
    - 5,534
    - 90 Dr.
    - 5,444

- Department of Psychology—
  - Espata Educational Trust grant for research in education and professions
    - 3,750
    - 3,130
    - 620
    - 790
    - 1,410
  - Social Science Research Council grant for travel
    - 830
    - 830
    - 830
  - Social Science Research Council grant to assist in processing data from study of attitudes towards aborigines
    - 192
    - 138
    - 54
    - 54

- Department of Zoology—
  - National Capital Development Commission grant for lake biology research
    - 3,300
    - 4,800
    - 1,500 Dr.
    - 3,086
    - 1,586
  - U.S. Department of Public Health grant for biological research in schistosomiasis and hydatid disease
    - 7,876
    - 6,512
    - 1,364
    - 1,022 Dr.
    - 342
  - C.S.I.R.O. grant for marsupial research
    - 1,500
    - 3,228
    - 1,728 Dr.
    - 2,450
    - 722
  - The Nuffield Foundation grant for research
    - 508
    - 508 Dr.
    - 508
  - Insect ecology grant
    - 3,582
    - 5,032
    - 1,450 Dr.
    - 4,850
    - 3,400
  - World Health Organization grant for hydatids research
    - 1,786
    - 770
    - 1,016
    - 1,016
  - Reserve Bank of Australia Rural Credits Development Fund grant for aphid research
    - 10,380
    - 4,618
    - 5,762
    - 5,762

**Scholarships—**

- Commonwealth Postgraduate Scholarships
  - 77,000
  - 73,140
  - 3,860
  - 1,276
  - 5,136

- General Motors Holden's Pty Ltd Scholarship grant
  - 8,600
  - 6,730
  - 1,870
  - 5,426
  - 7,296

- British Commonwealth Postgraduate Scholarships and Fellowships
  - 2,350
  - 2,350 Dr.
  - 7,112
  - 5,362

- Wheat Industry Research Council Scholarship grant
  - 2,904
  - 2,632
  - 272
  - 1,904
  - 2,176

- Commonwealth Government sponsored schemes
  - 4,600
  - 398
  - 4,202
  - 138
  - 4,360

- Reserve Bank of Australia Fiftieth Anniversary Postgraduate Scholarship Scheme
  - 10,950
  - 13,480
  - 2,530 Dr.
  - 1,902 Dr.
  - 4,432 Dr.

- C.S.I.R.O. Scholarships
  - 608 Cr.
  - 608
  - 608 Dr.

- Queen Elizabeth II Fellowship grant
  - 5,764
  - 2,662
  - 3,102
  - 3,102

- Ampol Scholarship grant
  - 1,200
  - 864
  - 336
  - 336
### STATEMENT OF FUNDS GRANTED FOR RESTRICTED PURPOSES

**for the Year ended 31 December 1965 (vi)—continued**

<table>
<thead>
<tr>
<th>General—</th>
<th>Subsidies Donations Received During 1965</th>
<th>Funds Disbursed or Transferred During 1965</th>
<th>Net Amounts Transferred to Capital of Funds</th>
<th>Fund Balances 1 January 1965</th>
<th>Fund Balances 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants for publication of <em>Campanian and Lucanian Pottery</em></td>
<td>1,368</td>
<td>8,434</td>
<td>7,066Dr.</td>
<td>8,116</td>
<td>1,050</td>
</tr>
<tr>
<td>Donations for McDonald Collection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Scholars' Thesis Scheme</td>
<td>6,342</td>
<td>1,058</td>
<td>5,284</td>
<td>2,408</td>
<td>7,692</td>
</tr>
<tr>
<td>Fund for repair of New Guinea Research Unit houses</td>
<td>1,026</td>
<td>1,320</td>
<td>294Dr.</td>
<td>3,244</td>
<td>2,950</td>
</tr>
<tr>
<td>Art and library fund—Library</td>
<td>908</td>
<td>446</td>
<td>462</td>
<td>140Dr.</td>
<td>322</td>
</tr>
<tr>
<td>Art and library fund—Bruce Hall</td>
<td>360</td>
<td>742</td>
<td>382Dr.</td>
<td>382</td>
<td></td>
</tr>
<tr>
<td>Art and library fund—Lennox House</td>
<td>144</td>
<td></td>
<td>144</td>
<td>176</td>
<td>320</td>
</tr>
<tr>
<td>Art and library fund—Burton Hall</td>
<td>244</td>
<td>42</td>
<td>202</td>
<td></td>
<td>202</td>
</tr>
<tr>
<td>Bruce Hall staff amenities fund</td>
<td>82</td>
<td>198</td>
<td>116Dr.</td>
<td>96</td>
<td>20Dr.</td>
</tr>
<tr>
<td>Bruce Hall Junior Common Room fund</td>
<td>1,290</td>
<td>1,304</td>
<td>14Dr.</td>
<td>158</td>
<td>144</td>
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<tr>
<td>Bruce Hall Fellows' fund</td>
<td>250</td>
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<td>250</td>
<td>212</td>
<td>462</td>
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<tr>
<td>Lennox House staff amenities fund</td>
<td>10</td>
<td></td>
<td>10</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Burton Hall Junior Common Room fund</td>
<td>1,516</td>
<td>1,494</td>
<td>22</td>
<td></td>
<td>22</td>
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<tr>
<td>Linguistic Circle Publication fund</td>
<td>206</td>
<td></td>
<td>206</td>
<td></td>
<td>206</td>
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<tr>
<td>Australian Japan Business Co-operative Committee grant for Gavel</td>
<td>80</td>
<td></td>
<td>80</td>
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<td>80</td>
</tr>
<tr>
<td>Fund for purchase of special Art Exhibition</td>
<td></td>
<td>12,150</td>
<td>12,150Dr.</td>
<td></td>
<td>12,150Dr.</td>
</tr>
<tr>
<td>Australia and New Zealand Bank grant for art purchase</td>
<td>100</td>
<td></td>
<td>100</td>
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<td>100</td>
</tr>
<tr>
<td>Computer facilities fund</td>
<td>40,000</td>
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<td>40,000</td>
<td></td>
<td>40,000</td>
</tr>
<tr>
<td>Fund for Academic Salary Arrears—1964</td>
<td>24,490</td>
<td></td>
<td>24,490</td>
<td></td>
<td>24,490</td>
</tr>
</tbody>
</table>

**UNIVERSITY HOUSE—**

| Donations for special purchase for University House |                                           |                                           | 608                                        | 608                            |
| Special purpose fund for University House |                                           |                                           | 88                                         | 88                             |
| University House staff amenities fund | 1,396                                     | 1,436                                     | 40Dr.                                      | 218                            | 178                           |
| University House drawing-room fund | 108                                       | 110                                       | 2Dr.                                       | 2                              |                               |

| Advances from Restricted Funds | 36,024                                     |
| Prepayments from Restricted Funds | 21,262                                     |

---

$781,324 452,098 329,226 384,504 713,730
## STATEMENT OF TRUST AND AGENCY FUNDS

### for the Year ended 31 December 1965

<table>
<thead>
<tr>
<th>Income Received</th>
<th>Subsidies, Donations and Subscriptions</th>
<th>Interest and Capital Appreciation</th>
<th>Total</th>
<th>Disbursements</th>
<th>Transferred to Reserve 1 January 1965</th>
<th>Fund Balance 31 December 1965</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University Funds</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Australian National University Loan Account</td>
<td>$5,776</td>
<td></td>
<td>$5,776</td>
<td></td>
<td>$5,776</td>
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<tr>
<td>The Australian National University Supplementary Superannuation Benefits Fund</td>
<td>$60,482</td>
<td>$14,972</td>
<td>$75,454</td>
<td>$7,490</td>
<td>$67,964</td>
<td>$319,892</td>
</tr>
<tr>
<td>The Australian National University Superannuation Scheme—Members' Accumulations</td>
<td>$40,232</td>
<td>$8,654</td>
<td>$48,886</td>
<td>$22</td>
<td>$48,864</td>
<td>$142,452</td>
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<tr>
<td>Interest Due to Members' Funds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mount Stromlo Observatory Fund</td>
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<td></td>
<td>$850</td>
<td></td>
<td>$5,776</td>
<td>$4,926</td>
</tr>
<tr>
<td><strong>Gifts and Endowments</strong></td>
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<td></td>
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<td>The Lord Rutherford Memorial Trust Fund</td>
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<td>$766</td>
<td>$716</td>
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<td>Morrison Oration Trust Fund</td>
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<td>$66</td>
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<td>$66</td>
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<tr>
<td>Sir Littleton Groom Memorial Scholarship Trust Fund</td>
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<td>$116</td>
<td></td>
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<tr>
<td>Norwegian-Australian Cultural Trust Fund</td>
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<td>$262</td>
<td></td>
<td>$262</td>
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<tr>
<td>Danish-Australian Cultural Trust Fund</td>
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<td>$262</td>
<td>$600</td>
<td>$338</td>
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<td>Swedish-Australian Cultural Trust Fund</td>
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</tr>
<tr>
<td>Canberra University College Public Subscription Fund</td>
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<td></td>
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<td>$82</td>
</tr>
<tr>
<td>The L. C. &amp; C. Webb Trust Fund</td>
<td>$222</td>
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<td>$222</td>
<td>$288</td>
<td>$66</td>
<td>$8,248</td>
</tr>
<tr>
<td><strong>Prize Funds</strong></td>
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</tr>
<tr>
<td>John Deans Prize Fund</td>
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<td></td>
<td>$8</td>
<td>$8</td>
<td></td>
<td>$204</td>
</tr>
<tr>
<td>Lady Isaca Prize Fund</td>
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<td></td>
<td>$12</td>
<td></td>
<td>$12</td>
<td></td>
</tr>
<tr>
<td>Robert Ewing Prize Fund</td>
<td>$22</td>
<td></td>
<td>$22</td>
<td></td>
<td>$22</td>
<td></td>
</tr>
<tr>
<td>Andrew Watson Prize Fund</td>
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<td>$6</td>
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<td>$6</td>
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</tr>
<tr>
<td>Sir George Knowles Memorial Prize Fund</td>
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<td></td>
<td>$20</td>
<td></td>
<td>$20</td>
<td></td>
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<tr>
<td>W. J. Lind Prize Fund</td>
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<td>$4</td>
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<td>$4</td>
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<tr>
<td>Alliance Française Prize Fund</td>
<td>$10</td>
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<td>$10</td>
<td></td>
<td>$10</td>
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</tr>
<tr>
<td>R. Tillyard Prize Fund</td>
<td>$20</td>
<td></td>
<td>$20</td>
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<tr>
<td>J. B. Chifley Memorial Prize Fund</td>
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<td>Rachel Dorph Memorial Prize Fund</td>
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<td>C.S.R. Chemicals Prize</td>
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<td>W. B. Clarke Prize Fund</td>
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<td>Sundry Prize Funds</td>
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<td><strong>Agency Funds</strong></td>
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<td>The Saionji Memorial Scholarship Fund</td>
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<td>$4,114</td>
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<td>$3,814</td>
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<td>The Vice-Chancellor's Discretionary Fund</td>
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<td>$832</td>
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<td>The Melville Fund</td>
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<tr>
<td>The Research School of Physical Sciences Faculty Fund</td>
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<tr>
<td>The Department of Biochemistry Fund</td>
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<td></td>
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<tr>
<td>The Research School of Social Sciences Faculty Fund</td>
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<td>The Research School of Pacific Studies Faculty Fund</td>
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<td>The John Curtin School of Medical Research Contingencies Fund</td>
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<td>$160</td>
<td>$13,018</td>
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<td>The R. G. Menzies Building of the University Library Retention Fund</td>
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<td><strong>Total</strong></td>
<td>$517,414</td>
<td>$139,562</td>
<td>$656,976</td>
<td>$45,816</td>
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## STATEMENT OF TRUST AND AGENCY FUNDS

### for the Year ended 31 December 1965 (vii)—continued

<table>
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<tr>
<th>Investments</th>
<th>Face Value</th>
<th>Appreciated to Date</th>
<th>Purchase Price</th>
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<tbody>
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<td>Commonwealth Superannuation and Provident Account Fund</td>
<td>2,556,560</td>
<td>2,541,442</td>
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<td>The Australian National University Supplementary Superannuation Benefits Fund</td>
<td>391,430</td>
<td>388,080</td>
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<td>The Australian National University Superannuation Scheme—Members' Accumulations</td>
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<td>164,698</td>
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<td>Mount Stromlo Observatory Trust Fund</td>
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<td>The Lord Rutherford Memorial Scholarship Trust Fund</td>
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<td>Morrison Oration Trust Fund</td>
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<td>Sir Littleton Groom Memorial Scholarship Trust Fund</td>
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<td>Norwegian-Australian Cultural Trust Fund</td>
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<td>Danish-Australian Cultural Trust Fund</td>
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<td>Swedish-Australian Cultural Trust Fund</td>
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<td>The Vice-Chancellor's Discretionary Fund</td>
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<td>24,702</td>
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<td>Canberra University College Public Subscription Fund</td>
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<td>John Deans Prize Fund</td>
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<td>Lady Isaacs Prize Fund</td>
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<td>Robert Ewing Prize Fund</td>
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<tr>
<td>Sir George Knowles Memorial Prize Fund</td>
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<td>Tillyard Prize Fund</td>
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<td>J. B. Chifley Memorial Prize Fund</td>
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<td>Rachel Dorph Memorial Prize Fund</td>
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<td>3,185,570</td>
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| Loans from Vice-Chancellor's Discretionary Fund | 3,165,884 |
| Cash at Bank—Commonwealth Savings Bank of Australia—$979 | 6,550 |
| | 59,330 |
| | 3,231,764 |