

MONASH UNIVERSITY

Report of the  
Interim Council

JUNE 1958 - JULY 1961

AND

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Council

AUGUST - DECEMBER  
1961



# REPORT OF THE INTERIM COUNCIL

JUNE 1958 - JULY 1961

To His Excellency the Governor of Victoria, Sir Dallas Brooks,  
K.C.B., K.C.M.G., K.C.V.O., D.S.O., K.St.J.

May it please Your Excellency,

Monash University was created by an Act of the State Parliament of Victoria on April 15, 1958, and was opened by the Premier of Victoria, the Honourable H. E. Bolte, M.L.A., on Saturday, March 11, 1961. Within those three years were concentrated a series of events without precedent in Australia and perhaps elsewhere; a site was secured, buildings were planned and constructed, academic and administrative staff were appointed and the whole complex mechanism of a University was set in motion. These operations were estimated by the Murray Committee to require not less than six years.

This period was reduced to less than half only because of the determination of all concerned that there should not be a breakdown in the provision of University education for the young people of Victoria on whom so much depends. The members of the Interim Council, especially those who served on the Buildings Committee, and the University staff as they arrived, directed themselves with energy and enthusiasm to this task; they were greatly aided in their work by the officials of many Government departments and sustained by the encouragement and support of the Government itself.

## 1. THE INTERIM COUNCIL

The Interim Council which was set up under the Monash University Act 1958 to govern the University for three years continued in being until July 1961. The following served as members of it:

Chairman: Robert Rutherford Blackwood, Kt., M.C.E., B.E.E.,  
M.I.E.Aust.

Richard Roderick Andrew, M.D., F.R.C.P., M.R.A.C.P.

Walter Eric Bassett, K.B.E., M.C., M.Mech.E., B.E.E.,  
M.I.E.Aust.

Michael Chamberlin, O.B.E.

- Ronald William Trafford Cowan, M.A.  
 Alexander Sadler Craig, B.Ed.  
 Valentine Joseph Doube, Dip.Phys.Ed., M.L.A. (from November 1958).  
 Maurice Rossie Ewing, M.B., Ch.B., M.Sc., F.R.C.S., F.R.C.S.,Ed., F.R.A.C.S.  
 Percy Victor Feltham, M.B.E., LL.M., M.L.C. (from December 1959).  
 Joseph Robert Archibald Glenn, B.C.E., A.M.I.E.Aust., F.A.I.M.  
 Cedric Lewis Hirst (from February 1959).  
 Brian William Hone, M.A.  
 Alice Hoy, M.A., LL.B., Dip.Ed.  
 Frederic Peter Johns.  
 Walter William Killough, M.B.E.  
 Ian Langlands, M.Mech.E., B.E.E., M.I.E.Aust.  
 Leslie Harold Martin, Kt., C.B.E., Ph.D., F.A.A., F.R.S. (to November 1958).  
 James Adam Louis Matheson, M.B.E., M.Sc., Ph.D., M.C.E., M.I.Struct.E., M.Inst.C.E., M.I.E.Aust. (from January 1960).  
 Alexander McDonell, B.A., B.Sc., B.Ed.  
 Thomas Walter Mitchell, M.L.A. (from August 1958 to December 1959).  
 Malcolm Stewart Moore, C.B.E., B.C.E., B.M.E., M.I.C.E., M.I.E.Aust., M.A.I.M.M.  
 Oliver Emanuel Nilsson, O.B.E., B.Sc., M.I.E.Aust., F.R.S.A., F.A.I.M.  
 George Whitecross Paton, Kt., M.A., B.C.L., LL.D., D.C.L.  
 Alan Hollick Ramsay, Kt., C.B., C.B.E., D.S.O., E.D., B.Sc., Dip.Ed.  
 John Frederick Rossiter, B.A., M.L.A. (from August 1958).  
 James William Schulz.  
 Alfred Ernest Shepherd, M.L.A. (from August 1958; died September 1958).  
 John Ralph Carlisle Taylor, C.I.E.  
 Edgar John Tippet.  
 Frank Douglas Walter (to November 1958).

The University was honoured by the award, announced in the Queen's Birthday Honours List in 1961, of a knighthood to the Chairman of the Interim Council.

## 2. ACADEMIC PROGRAMME

The original report of the Murray Committee to the State Government envisaged the opening of the University in 1964 beginning with Faculties of Pure Science, Engineering and Technology, to be followed by the social sciences including Law and Commerce; the inclusion of a medical school was also recommended. These recommendations were made by the Murray Committee in the light of anticipated needs based on figures available to the Committee, and the pressure of increasing student numbers in the University of Melbourne.

At the inception, however, it became clear from a re-study of the statistics of likely increases in student numbers in Victoria that teaching should begin in the new University not later than March 1961 in order to relieve the increasingly difficult position at Melbourne University, and steps were taken to accelerate the original programme.

The Interim Council decided initially to proceed with the Faculties of Science, Engineering and Medicine as those requiring the most urgent relief, followed closely by Arts and Commerce. The view of the Australian Universities Commission, however, was that the provision of extra University facilities in Arts and Commerce was equally urgent, and after discussion between the Interim Council and the Commission, it was decided to include Arts and Commerce courses from the outset. The Faculty of Commerce was later renamed the Faculty of Economics and Politics.

It was further decided to plan for a student population of 450 in 1961, rising to a total of 8,000 full-time students and some 4,000 part-time students by 1968.

## 3. DEVELOPMENT OF SITE AND BUILDINGS

After a survey of a number of possibilities, a site of 250 acres was selected at Clayton. The firm of Bates, Smart & McCutcheon were appointed as planning architects and an overall plan for the development of the site was prepared. It was decided to erect buildings to their final size and purpose in a planned sequence and to adapt and use them temporarily for purposes other than those which they would ultimately serve. Accordingly the first buildings planned were those for the elementary science courses and in these the five Faculties of Arts, Economics and Politics, Engineering, Medicine and Science, together with the library, University administration and student amenities were to be accommodated and do their work during 1961. After preliminary level-

ling of the site, construction of the first stage of the Science buildings commenced in March 1960.

Meanwhile a large house on the site was taken over as the Vice-Chancellor's residence and a part of this was temporarily used as offices for the Registrar and his Department. Temporary office accommodation for professors as they arrived was arranged in a former gardener's cottage and in builders' huts on the site, and temporary premises for the library were leased at a local factory. The development of the site involved the provision of a sewer from the University to the Braeside disposal works at a cost of £600,000.

Meanwhile a building programme for the triennium 1961-1963 had been drawn up and was included by the Australian Universities Commission in recommendations to the Commonwealth Government in its report of October 1960. The Commission's recommendations were accepted by both Commonwealth and State Governments and as a result the University has a building programme costing £7,780,000 for 1961-1963 as follows:

<i>Building</i>	<i>Financial Provision</i>	<i>Period of Construction</i>
Science block—		
Physics } Chemistry } Biology }	£2,200,000	1960-61
Science-Engineering library	374,000	1961
Engineering	1,295,000	1961-63
Maintenance workshop	42,000	1961
Site works and services	454,000	1961-63
Medicine	500,000	1962
Hall of residence	200,000	1961
Arts block—		
Arts } Economics } Education } Law }	1,150,000	1961-62
Sports facilities	14,000	1962
Administration	322,000	1962
Library	629,000	1963
Union	600,000	1963
	<u>£7,780,000</u>	

The planning architects are also the project architects for the Science, Engineering and Union buildings but other firms have been retained to work on other projects.

It was not possible to make available in advance of the beginning of building work sufficient finance for preparatory site works to be completed. As a result, access to buildings, both when under construction and later when they came into use, was rather difficult. The situation was also aggravated by the unusually heavy rains in April 1960 which made the site a sea of mud at the time when foundations of buildings were being laid.

It had been hoped that the buildings would be ready in time to permit a reasonable settling-in period before the students arrived in March 1961. The time for settling-in proved somewhat less, however, than had been hoped, the lecture theatre block being handed over only on the Friday preceding the first Monday of first term! However, the academic staff was accommodated and the laboratories were functioning by the beginning of term, though owing to shortage of time for securing equipment the Science Departments in particular were operating under some difficulty. The southern half of the main Science building was handed over in May 1961 and enabled the Department of Zoology and Comparative Physiology to vacate the temporary quarters it had been occupying and thus allow all the then existing Departments to come together on the main site. In addition to these buildings, a part of the maintenance workshops and some roads and car-parking facilities came into use before July 1961.

Work was carried out in early 1961 in levelling the sports area. The planting of trees and the laying-out of the University grounds commenced on an extensive scale. A bush area on the eastern fringe of the site was set aside as a natural reserve for the use of the Department of Zoology.

The firm of Bates, Smart & McCutcheon continued as planning architects for the Interim Council, in accordance with the contract, until this expired with the dissolution of the Interim Council on July 3, 1961.

Continuing concern was felt throughout the period under review that attempts to have the land on the University's northern and eastern boundaries re-zoned to residential development met with no success. Correspondence with the appropriate Government department is, however, continuing.

#### 4. STAFF

From the beginning, a major concern of the Interim Council was, of course, the recruitment of administrative, academic and library staff. The Vice-Chancellor, Dr. J. A. L. Matheson, and the

Registrar, Mr. F. H. Johnson, took up their appointments in February 1960.

The first professors to be appointed were those of Chemistry and Zoology. The Professor of Chemistry entered upon his duties in May 1960 and was followed by others as new appointments were made. The following chairs were held at July 1961:

Chemistry:	Professor R. D. Brown
Economics and Politics:	Professor D. Cochrane
Engineering:	Professor K. H. Hunt
English:	Professor W. A. G. Scott
History:	Professor J. D. Legge
Mathematics:	Professor K. C. Westfold
Philosophy:	Professor D. H. Monro
Physics:	Professor R. Street
Zoology and Comparative Physiology (formerly Biology):	Professor A. J. Marshall

In addition, Professor R. R. Andrew was appointed Dean of the Faculty of Medicine.

The Librarian, Mr. E. H. Clark, took up his appointment in May 1960.

The total academic staff at July 1961 numbered 49 and was made up as follows:

	<i>Arts</i>	<i>Economics &amp; Politics</i>	<i>Engin- eering</i>	<i>Medicine</i>	<i>Science</i>	<i>Total</i>
Professors ....	3	1	1	1	4	10
Senior Lecturers	4	0	4	0	6	14
Lecturers ....	2	1	0	1	5	9
Senior Teaching Fellows ....	3 (includ- ing 1 Lektor)	0	0	—	7	10
Teaching Fellows	2	1	0	—	3	6
Total ....	14	3	5	2	25	49

In addition there were 11 library and 15 administrative staff at grades corresponding to the above.



Of the academic staff 33 were recruited from Australia (of whom 27 had taken their first degree in Australia and 6 overseas); and 16 were recruited from overseas (of whom 5 had taken their first degree in Australia and 11 overseas).

In order to provide for the immediate needs of members of staff and their families coming from overseas or from distant parts of Australia, houses have been leased for short periods and used as temporary accommodation.

The University has been able, with the co-operation of the State Government, to arrange for members of staff who wish to purchase houses for their permanent residence to borrow from Banks and Insurance Companies under conditions more than normally favourable.

## 5. ACADEMIC DEVELOPMENT

From the first, informal meetings of professors were held, and as soon as a sufficient number of professors had taken up their appointments the Professorial Board was constituted. Following its first meeting on November 8, 1960, the Board met frequently and reported to the Interim Council. By an amendment, approved in December 1960, to the Monash University Act 1958 the Vice-Chancellor became *ex officio* Chairman of the Professorial Board. Pending the arrival of more sub-professorial staff, the Professorial Board acted on behalf of the Faculties, some of which it was possible to constitute only after the appointment of the permanent Council.

Teaching began in first term 1961 in the five Faculties of Arts, Economics and Politics, Engineering, Medicine and Science for the degrees of Bachelor of Arts (B.A.), Bachelor of Economics (B.Ec.), Bachelor of Engineering (B.E.), Bachelor of Medicine and Bachelor of Surgery (M.B., B.S.) and Bachelor of Science (B.Sc.). The following subjects are at present being taught at first year level: English, History, French, German, Philosophy; Economics, Politics, Statistics; Chemistry, Mathematics, Physics, Zoology. During their first year, students whether intending to study for Pass or Honours degrees share the same courses. Requirements for the various Masters' degrees and for the degree of Doctor of Philosophy are still in process of discussion.

It was decided that initially the requirement for admission to the University would be the matriculation examination of the University of Melbourne but that there would be no special Faculty prerequisites. A handbook for students, setting out courses

in the various subjects together with lists of books required, was issued in 1961.

Early in 1961, the library moved from its temporary hired premises into occupancy of two large rooms on the ground floor of the main Science building. From here it will move before first term 1962 to the two upper floors of the Science and Engineering library, where it will remain until the main library is opened in 1964. By July 1961, more than 30,000 volumes were obtained and it is planned to reach 100,000 volumes by the end of 1962.

One of the main concerns of the Heads of Departments in the Faculty of Science has been the securing of necessary equipment in adequate time for its use. This problem was slightly less difficult in Chemistry than in Physics and Zoology because the Professor of Chemistry had taken up his duties at Monash early in 1960. The Professors of Physics and Zoology, however, took up their duties much later, and as much of the equipment had to be obtained from overseas, the smooth functioning of the courses was sometimes dependent on the arrival of ships a matter of days only before the equipment was needed.

In accordance with the decision that clinical teaching should take place in Alfred, Prince Henry's, the Royal Children's and Queen Victoria Hospitals, consultations took place with Alfred Hospital and Queen Victoria Hospital concerning their affiliation and the planning of the Medical School in each.

## 6. PROVISION OF STUDENT FACILITIES

### *Transport to and from the University.*

In preparation for the opening of the University and in the period since, contact has been made and maintained with the Transport Regulations Board whose sympathetic help has always been readily given. Two bus services extended their routes and arranged for official stops within the University grounds; a third now passes the South gate. In one case extra buses have been provided for peak-hour traffic to and from Monash. Inevitably, wholly adequate bus services linking Monash with the three nearest railway stations at Clayton, Huntingdale and Oakleigh and providing easy access to all potential areas of student residence must await the enrolment of sufficient numbers of students to make such services a source of revenue to the bus operators concerned.

### *Catering.*

After careful consideration of various possibilities, it was decided from the commencement to provide, though necessarily at first to

a limited extent, the kind of meals which will be provided when the Union building is available and functioning. Accommodation was made available in the main Science building for both staff and student dining rooms in which hot meals are served at mid-day and light refreshments at other times. To overcome accommodation difficulties a shop was leased for the first year at Oakleigh and all cooking was done there, the food being transported in thermos containers to the University. With the completion of the building which will later house the Science and Engineering library, kitchens and further dining space will become available on the site.

#### *Student Health Service.*

It was arranged that students who enrolled should have the opportunity of being medically examined, the examinations being carried out by doctors of the State Health Department, under arrangements made by the Dean of Medicine. 247 students were examined and steps were taken to deal with health defects found in 98 of these. The value of the scheme was thought such that in future the examination will be compulsory for all students. In 1962 also, student medical counselling will be commenced.

## 7. STUDENTS

The enrolment of students in 1961 was as follows:

Undergraduates, 347.

Postgraduate research students, 10.

Details of undergraduate enrolments are given in the following tables:

**TABLE I — DISTRIBUTION OF FIRST YEAR STUDENTS BY FACULTY, SEX AND FULL-TIME AND PART-TIME\***

Faculty	Full-Time			Part-Time			Totals		
	Male	Female	Total	Male	Female	Total	Male	Female	All
Science	23	6	29	—	—	—	23	6	29
Engineering	22	—	22	—	—	—	22	—	22
Medicine	91	10	101	—	—	—	91	10	101
Arts	58	63	121	9	7	16	67	70	137
Economics and Politics	44	5	49	9	—	9	53	5	58
Totals	238	84	322	18	7	25	256	91	347

\* As it is not yet possible to provide evening tuition in the University, part-time students are only those who can be released to attend lectures and tutorials during the day.

TABLE II — DISTRIBUTION OF OVERSEA STUDENTS  
BY SEX AND COUNTRY OF ORIGIN

	Malaya & Singapore	Hong Kong	Borneo	Burma	Thailand	Fiji	Miscellaneous	Total
Male	17	2	2	1	1	1	5	29
Female	2	—	2	—	—	—	—	4
Total	19	2	4	1	1	1	5	33

TABLE III — DISTRIBUTION OF OVERSEA STUDENTS  
BY FACULTIES

	Science	Engineering	Medicine	Arts	Economics & Politics	Total
Numbers	—	2	25	3	3	33
% of Faculty Enrolment	—	9%	25%	2%	6%	9.7%

#### *Student Residence.*

During the first year of the University's life no Hall of Residence was available and students living away from home had all to be accommodated in lodgings. Some availed themselves of the facilities provided by student hostels in or near the city but most preferred private homes in the vicinity of the University. The paucity of bus routes in the district somewhat restricted the use that could be made of offers by householders, and suitable homes without transport difficulties have not been easy to obtain. Some 55 students are living at addresses first given to them by the University after inspection in accordance with the Monash University Act 1958 Section 39.

Meanwhile, the first Hall of Residence is in process of erection and a part of it, to house 76 male and female students, will be available for use in 1962. In April, Dr. J. A. McDonell was appointed as its Warden.

#### *Student Extra-curricular Activities.*

Soon after the beginning of first term the students organized their official representative Union Council. This body promotes and co-ordinates student activities through societies and clubs, arranges weekly film shows, periodical Union nights and an occa-

sional ball and produces a weekly newspaper, "Chaos". The following have been active to date:

Societies:

Arts, Ecops (Economics & Politics), Engineering, English, French, German, Medical, Science, Zoology;  
Drama, International, Music, Palmists, Poetry Reading, World Government;  
Evangelical Union, Jewish, Newman, Student Christian Movement;  
Rationalist;  
Labour.

Clubs:

Basketball, Football, Hockey (Men's), Hockey (Women's), Judo, Rifle, Ski, Soccer, Squash, Table Tennis, Tennis.

Discussions took place between the Interim Council and the churches about the possible establishment of a Chaplaincy centre and Collegiate library on the University site. The Anglican and Roman Catholic Churches have meanwhile appointed Chaplains to students and a room for the Chaplains' use has been provided.

## 8. FINANCE

Legislation establishing the University and making provision for funds was passed by Commonwealth and State Parliaments as follows:

State:

Monash University Act 1958  
Monash University (Acquisition of Land) Act 1958  
Monash University (Amendment) Act 1960.

Commonwealth:

States Grants (Universities) Act No. 27 of 1958  
States Grants (Universities) Act No. 106 of 1960.

The year 1961 commenced a new triennium of Commonwealth-State financial assistance to Universities. Grants were based on the recommendations of the newly established Australian Universities Commission, which presented its first report to The Right Honourable The Prime Minister in October 1960.

Under the above-named Acts, funds are provided in the following ratios:

	1958-60	1961-63
Recurrent costs	£3 State to £1 Commonwealth and later £1.85 to £1	£1.85 State to £1 Commonwealth
New Buildings	£1 State to £1 Commonwealth	£1 State to £1 Commonwealth
Equipment for New Buildings	16% of Commonwealth contribution to cost of building	5% of new building cost, shared 50/50 State and Commonwealth.
Special Capital Equipment Grant	Nil Commonwealth grant at first, but £1.85 State to £1 Commonwealth applied as Emergency Grant	£1m. Equipment Fund shared 50/50 State and Commonwealth

On this basis, the following funds were provided for the University:

	State	Commonwealth	Total
<i>1958-60</i>		£000s	
Site purchase and new buildings	457.5	457.5	915
<i>1961-63</i>			
New buildings	3,390	3,390	7,780
5% Furniture Vote	183	183	366
A.U.C. Special Equipment	15	15	30
Recurrent 1961	430	233	663
1962	591	319	910
1963	935	505	1,440

Funds are received from the Treasury quarterly and during the period under review income was as follows:

	Commonwealth	State
(a) <i>Capital Works</i>	£000s	
To December 1959	—	316
January-December, 1960	383	962
January-June 1961	711	450
(b) <i>Recurrent</i>		
To December 1959	—	16
January-December 1960	61	40
January-June 1961	117	330

Because of the rapid development of the University the rate of both Capital and Recurrent expenditure has been high:

	To Dec- ember 1959	1960	1961 (Jan.- June)	Total
	£000s			
<b>(a) Capital Works</b>				
Site Acquisition	305	53	—	358
Site Works	—	37	205	242
Architect General Planning	16	12	14	42
New Buildings	—	744	1,143	1,887
5% Furniture Vote	—	—	30	30
	<b>321</b>	<b>846</b>	<b>1,392</b>	<b>2,559</b>
<b>(b) Recurrent</b>				
Teaching Departments				
Salaries	—	23	84	107
Consumables	—	5	35	40
Furniture, Equipment and Books	2	53	112	167
Administration				
Salaries	—	25	31	56
Initial Staff Establishment Costs	2	23	13	38
Maintenance, Furniture and Equipment	1	39	47	87
	<b>5</b>	<b>168</b>	<b>322</b>	<b>495</b>

#### *Student Fees.*

In the interests of simplicity, the fee for a full-time undergraduate student in any Faculty was fixed at £135 per annum. For first year part-time students the fees are £45 per annum for one course, £90 for two courses and £135 for three or more courses. For a Master's degree in any Faculty the fee was set at £45 and for a Ph.D. £30.

#### *Gifts.*

Among gifts to the University the following are selected for special mention:

Funds to support three Shell postgraduate scholarships to be awarded successively in 1961, 1962 and 1963, each tenable for three years and to carry a value of £800-£1,000 for the scholar plus £200 grant-in-aid for the University for equipment used.

General Motors-Holden's Limited postgraduate research awards which were extended to include Monash University.

A grant of \$15,000 made available by the United States Department of the Navy to enable research by Professor A. J. Marshall into the migratory habits of the short-tailed shearwater (the "mutton bird").

A gift of £5,000 by Mrs. Hume Turnbull for the establishment of a scholarship.

## 9. RESEARCH AND PUBLICATIONS

A list of research work undertaken and of publications issued during this period is attached.

## 10. INTERIM COUNCIL AND COUNCIL

The Monash University (Amendment) Act 1960 provided for the extension of the life of the Interim Council beyond April 15, 1961, the date originally set for its dissolution, in order to avoid difficulties inherent in establishing the permanent Council at the time when the University was first opening its doors to students. Subsequently, the Governor-in-Council declared that the third day of July 1961 should be the date on which the permanent Council should be constituted. Accordingly, the Interim Council handed over its responsibilities to Council on that date, among the important matters then under discussion being the preparation of new Statutes to replace sixteen adopted in April 1959 and subsequently added to, which had covered the early conduct of the University.

At its final meeting the members of the Interim Council recorded their gratitude for having been permitted to share in the work of founding Victoria's second University, from which we trust great good may come.

For and on behalf of the Interim Council,

R. R. BLACKWOOD,  
Chairman



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**Research****FACULTY OF ARTS***Department of History:*

- CASHMAN, R. — Nonconformity in Victoria in 1850's.  
CUTHBERT, D. D. — The Third Reform Act: A study of the construction and enactment of the legislation of 1884.  
LEGGE, J. D. — Completion of study of Indonesian regionalism and local government.  
SERLE, A. G. — A history of Victoria during the gold rushes.

*Department of Modern Languages:*

## French:

- BARRELL, R. A. — Note on Germanic element in French language — article completed.  
    Quelques termes Kantiens en Francais — Datations Nouvelles (completed).  
    French medical terms borrowed from German (completed).  
    Marcel Schwob and English literature (in progress).  
    Daniel Defoe and France (in progress).  
    A textbook of French for students (in progress).  
    Marcel Schwob and Daniel Defoe (in progress).  
REDMOND, M — Examination of the treatment of the Orpheus theme in modern French and German literature (D.U.P. thesis).  
KANDEL, H. A. E. — Ph.D. thesis on Colette.

## German:

- BODI, L. — Anthology of German Australiana (from Grimmelshausen to Gunther Eich). To be published by F. W. Cheshire.  
    English edition of Georg Forster : Neuholland und die britische Kolonie in Botany-Bay (1786).  
    Hermann Püttmann: A German Forty-Eighter in Australia.  
    South-Sea motifs in late 18th century German poetry.  
    The function of exotic elements in mid-19th century German poetry.  
KELLER, E. — Thomas Mann — (Betrachtungen eines Unpolitischen).  
FRENCH, C. A. — Die Novellen der Ricarda Huch.

*Department of Philosophy.*

MONRO, D. H. — A projected book on ethical naturalism.

Articles on William Godwin, Jeremy Bentham and James Mill commissioned for *The Encyclopedia of Philosophy* to be published in 1964 by the Crowell-Collier Publishing Co., New York.

MCGECHIE, J. E. — A monograph on Russell's Theory of Descriptions (thesis being revised for publication at invitation of Open Court Publishing Co., Illinois).

A study of the nature of implication with the object of constructing a more satisfactory theory of inference.

An investigation of the contrast between the identity of kinds and the identity of particular things designed to throw some light on the traditional mind-body dichotomy.

MITCHELL, D. — A thesis on Moral Principles to be submitted for the degree of M.A., Melbourne University.

## FACULTY OF ECONOMICS AND POLITICS

DAVIS, S. R. — The Australian trade unions: their government, structure and administration.

WARD, I. D. S. — Early theories of economic development.

## FACULTY OF ENGINEERING

UHLHERR, P. H. T. (with SINCLAIR, C. G.) — Fluid-particle dynamics.

## FACULTY OF SCIENCE

*Department of Chemistry:*

BROWN, R. D. — Synthesis and physico-chemical studies of volatile boron compounds.

BROWN, R. D., HEFFERNAN, M. L. and NUNN, E. K. — Microwave spectroscopy of gases.

BROWN, R. D., EASTWOOD, F. W. and SAFFORD, J. — Kinetics and mechanism of nitration of quinoline and isoquinoline.

BROWN, R. D. and HARCOURT, R. D. — The electronic structures of  $X_2Y_4$  molecules and ions.

BROWN, R. D. and VIGOR, D. B. — Theoretical study of catalytic cracking.

WILSON, I. R. — Mechanistic studies of the chemistry of simple sulphur compounds.

Mechanism of oxidation by hydrogen peroxide.

- WILSON, I. R. and BOLTON, P. D.—Kinetics of some reactions of acid amides.
- EASTWOOD, F. W. and CRANK, G. — The chemistry of epoxy ketone.
- HEFFERNAN, M. L. — Theoretical studies of non-alternant hydrocarbons.

*Department of Mathematics:*

- Theoretical radio astronomy.  
Motion of a charged particle.  
Rocket trajectories.  
Undergraduate textbook.

*Department of Physics:*

- STREET, R., BRETTELL, J. M., WILSON, G. V. H. and BASTOW, T. J. — Study of nuclear hyperfine magnetic fields in metals and alloys.
- SMITH, J. H., PEPPER, A. R. and HICKS, T. J. — Antiferromagnetic manganese alloys.
- STREET, R. and BASTOW, T. J. — Antiferromagnetism in chromium.
- TROUP, G. J. and THYER, J. R. — Electron spin resonance in neutron irradiated beryllium oxide.
- RACHINGER, W. A. and DUGGIN, M. J. W. — Investigations of martensitic (diffusionless) phase changes.
- COATES, D. W. — Meson spectroscopy.

*Department of Zoology and Comparative Physiology:*

- DIXON, J. M. — Taxonomy and ecology of the Peramelidae.
- EALEY, E. H. M. — Ecology and behaviour of the echidna, *Tachyglossus aculeatus*.
- EALEY, E. H. M. and IRVING, D. V. H. — Physiology of reproduction and hibernation in the echidna, *Tachyglossus aculeatus*.
- HISCOCK, I. D. — Physiology of freshwater molluscs.
- IRVING, D. V. H. — Seasonal reproductive changes in the starling, *Sturnus vulgaris*, and their relationship with environmental factors.
- LIM, K. H. — Ecology of freshwater amphipod, *Austrochiltonia subtenuis*.
- MARSHALL, A. J. — Physiology of migration (with D. L. Serventy). Ecology and physiology of *Cereopsis* (with E. G. R. Guiler).
- WILLIAMS, W. D. — The ecology of certain Australian freshwater crustaceans.

## Publications

- MATHESON, J. A. L. (Vice-Chancellor) — "Hyperstatic Structures", Vol. II. Pub. Butterworth's Scientific Publications, London, 1960. (With A. J. Francis).  
 The future of civil engineering. Robin Memorial Lecture, 1961.  
 Universities as factories?. James N. Kirby Oration, 1960.  
 Engineering and Medicine. Arthur E. Mills Memorial Oration, 1960.

## FACULTY OF ARTS

### *Department of History:*

- LEGGE, J. D. — Problems of Australian foreign policy, January-June, 1960. *The Australian Journal of Politics and History*, November 1960.

### *Department of Modern Languages:*

#### French:

- BARRELL, R. A. — German mining and metallurgical terms in French, *Neuphilologische Mitteilungen*, LXI, 1960.  
 Modern languages at Monash University. *Babel*, No. 16, April 1961.  
 Datations Nouvelles — Regular contributions to *Le Français Moderne*.  
 REDMOND, M. — Comparative literature: Lessing's *Minna von Barnhelm* and Diderot's dramaturgy (M.A. thesis).

#### German:

- BODI, L. — Smaller articles and review *Aumla*, 1960, *Quadrant*, 1960, *Historical Studies*, 1960, *Australian Library Journal*, 1960, *Meanjin*, 1961.  
 KELLER, E. — Articles on: Henrich Böll in *Die Tat*, Zurich.  
 Werner Bergengruen in *Tages Anzeiger*, Zurich.  
 Goethe 1802 in *Tages Anzeiger*, Zurich.  
 The German philosopher, R. Kassner, in *Tages Anzeiger*, Zurich.  
 Medieval German lyric in *Tages Anzeiger*, Zurich.  
 Switzerland in German literature in *Tages Anzeiger*, Zurich.  
 Wilhelm Raabe in *Tages Anzeiger*, Zurich.

### *Department of Philosophy:*

- MONRO, D. H. — Impartiality and consistency. *Philosophy*, April-July 1961, vol. xxxvi, no. 137, pp. 161-176.  
 MITCHELL, D. — Some comments on ethical distinctions, accepted for publication in *Philosophical Quarterly*.

## FACULTY OF ECONOMICS AND POLITICS

COCHRANE, D. — The current economic situation. *The Australian Economy 1961 — Trends and Prospects*. Published for the University of Adelaide by Griffin Press. pp. 5-21.

## FACULTY OF ENGINEERING

HUNT, K. H. (with FINK, N. and NAYAR, J.) — Linkage Geneva Mechanisms. A Design Study in Mechanism Geometry. *Proc. I. Mech.E.* **174**, no. 21, 643-668, 1960.

## FACULTY OF MEDICINE

ANDREW, R. R. — Hiatus hernia — A clinical study. *Alfred Hospital Clinical Report*, vol. x, 1960.  
Anticholinergic drugs. *Annals of General Practice*, vol. v, Part 2, December 1960.

## FACULTY OF SCIENCE

*Department of Chemistry:*

BROWN, R. D. — Chemical optimism. *Proc. R.A.C.I.*, **28**, 64, 1961.

Electronic structure and chemical reactivity. *Aust. J. Sci.*, **24**, 22, 1961.

BROWN, R. D. and HARCOURT, R. D. —  $\sigma$ -Electron delocalization and the electronic structure of dinitrogen tetroxide. *Proc. Chem. Soc. (London)*, 216, 1961.

CRAIG, D. P., HEFFERNAN, M. L., MASON, R. and PADDOCK, N. L. — Delocalization and magnetic properties of the phosphonitric halides. *J. Chem. Soc.*, 1376-1382, 1961.

HEFFERNAN, M. L. and WHITE, R. F. M. — The N.M.R. spectra of triphosphonitric 1,1 difluoride 3,3,5,5, tetrachloride. *J. Chem. Soc.*, 1382-1387, 1961.

*Department of Physics:*

STREET, R. (with ROBBELL, D. S. and ROTH, W. L.) — Nuclear magnetic resonance spectrum of  $\text{Co}^{59}$  in metallic cobalt powders. *Physical Review*, **121**, 84, 1961.

WILSON, G. V. H. — Phase changes near the cyclotron centre. *Nuclear Instruments and Methods*, **10**, 259, 1961.

## REPORT OF THE COUNCIL

AUGUST 1961-DECEMBER 1961

To His Excellency the Governor of Victoria, Sir Dallas Brooks,  
K.C.B., K.C.M.G., K.C.V.O., D.S.O., K.St.J.

May it please Your Excellency,

As an addendum to the foregoing report of the Interim Council, I have the honour to present this first report of the Council of Monash University.

### 1. THE COUNCIL

The following were appointed members of Council:  
Monash University Act 1958.

- 7.(1)(a)(i) Percy Victor Feltham, M.B.E., LL.M., M.L.C.  
Henry Alfred Jenkins, M.Sc., M.B., B.S., M.L.A.  
John Frederick Rossiter, B.A., M.L.A.
- 7.(1)(a)(ii) Robert Rutherford Blackwood, Kt., M.C.E.,  
B.E.E., M.I.E.Aust.  
Walter William Killough, M.B.E. (to August  
1961)  
Michael Chamberlin, O.B.E. (from August 1961)  
John William Wood
- 7.(1)(a)(iii) George Pritchard Harvey Wilson.
- 7.(1)(a)(iv) Frederic Peter Johns
- 7.(1)(a)(v) Edgar John Tippett
- 7.(1)(c) Walter Eric Bassett, K.B.E., M.C., M.Mech.E.,  
B.E.E., M.I.E.Aust.  
Ronald William Trafford Cowan, M.A., B.Litt.  
Thomas Edward Lowe, D.Sc., M.D., F.R.C.P.,  
F.R.A.C.P.  
Frederick William George White, K.B.E., C.B.E.,  
M.Sc., Ph.D.  
John Gardiner Wilson, O.B.E., M.A.
- 7.(1)(d) Richard Roderick Andrew, M.D., F.R.C.P.,  
M.R.A.C.P.  
Donald Cochrane, B.Com., Ph.D.  
Robert Street, M.Sc., Ph.D.

- 7.(1)(e) Alan Geoffrey Serle, B.A., D.Phil.
- 7.(1)(f) James Adam Louis Matheson, M.B.E., M.Sc.,  
Ph.D., M.C.E., M.I.C.E., M.I.Struct.E.,  
M.I.E.Aust.  
Alexander McDonell, B.A., B.Sc., B.Ed.  
Oliver Emanuel Nilsson, O.B.E., B.Sc.,  
M.I.E.Aust., F.R.S.A., F.A.I.M. (to Novem-  
ber 1961)  
Alfred Ronald Shannon, B.Sc., B.Ed., M.A.C.E.  
(from November 1961)
- 7.(1)(g) James Alexander Forrest  
Brian William Hone, M.A.  
Alice Hoy, M.A., LL.B., Dip.Ed.  
Ian Langlands, M.Mech.E., B.E.E., M.I.E.Aust.
- 7.(1)(i) George Whitecross Paton, Kt., M.A., B.C.L.,  
LL.D., D.C.L.

The first meeting of Council was held, as meetings of the Interim Council had been, in the library of the Royal Society of Victoria. From August 1961, meetings have been held at the University.

## 2. CHANCELLOR AND DEPUTY CHANCELLOR

At its first meeting, Council elected Sir Robert Blackwood as Chancellor of the University. Subsequently, it elected Mr. M. Chamberlin as Deputy Chancellor of the University.

## 3. UNIVERSITY BUILDINGS

In preparation for their use from first term 1962, work continued during the period on the Zoology, Senior Chemistry, Senior Physics and Science/Engineering library buildings, on the first stage of the Engineering buildings, on the first Hall of Residence, and on various site works. In addition, contracts were let for and building work commenced on the first stage of the Humanities Building and Stage IIA of the Engineering School. The designing of the first stages of the Medical School and the library was finalized so that contracts might be let early in 1962.

The Prime Minister, the Right Honourable Robert G. Menzies, consented to his name being given to the Humanities Building, which will in consequence be named "The Robert Menzies School of Humanities".

## 4. STAFF

The recruitment of new staff in preparation for 1962 continued and appointments to the following Chairs were made:

Anatomy:	Professor G. C. Schofield
Biochemistry:	Professor J. Bornstein
Modern Languages:	Professor R. M. A. Laufer
Physiology:	Professor A. K. McIntyre
Politics:	Professor S. R. Davis (previously Senior Lecturer in Political Science)

## 5. ACADEMIC DEVELOPMENT

Throughout the year, the University of Melbourne and Monash University collaborated closely in the matter of student enrolment for 1962. The first Faculty handbooks, giving information about the Faculties, courses of study and book lists for 1962, were published in November.

## 6. UNION

The work of the Union continued in University rooms made available as needed. Mr. G. P. T. Sweeney took up full-time duty as Warden in November.

## 7. FINANCE

During 1961 representations were made to State Treasury for additional Recurrent Funds needed to establish and equip the University, and a sum of £163,000 was allocated.

Funds received during the period July to December 1961 were as follows:

	<i>Common-wealth</i>	<i>State</i> £000s	<i>Student Fees</i>
(a) Capital Works	666	663	—
(b) Recurrent	116	224	39

Expenditure during the period was:

(a) <i>Capital Works</i>	£000s
Site Acquisition (C.S.I.R.O.)	116 (Credit)
Site Works	10
New Buildings	1,698
5% Furniture Vote	32
A.U.C. Special Research Equipment	10
	<u>1,634</u>



	<i>State</i>
(b) <i>Recurrent</i>	£000s
<i>Teaching Departments</i>	
Salaries	142
Consumables	29
Furniture, Equipment and Books	295
<i>Administration</i>	
Salaries	39
Initial Staff Establishment	60
Maintenance, Furniture and Equipment	13
	578
	578

*Gifts*

Among gifts to the University should be mentioned:

A grant of £2,500 from the Life Assurance Medical Research Fund of Australia and New Zealand for research in 1962 on the subject of arterial and renal metabolism.

A grant of £4,800 from the Anti-Cancer Council of Australia for research work in the Department of Biochemistry.

A gift of £1,500 from the William Angliss (Victoria) Charitable Fund.

### Publications

In addition to those listed in the report of the Interim Council, the following publications were issued in 1961:

#### FACULTY OF ARTS

*Department of History:*

LEGGE, J. D. — "Central Authority and Regional Autonomy in Indonesia." (Cornell University Press.)

BOLTON, G. C. (with MOZLEY, A. V.) — "The Western Australian Legislature, 1870-1930. Biographical Notes." (Australian National University.)

#### FACULTY OF ENGINEERING

HUNT, K. H. (with COOPER, M. D.) — Function generator linkages: precision synthesis by the use of tangible polodes. *Proc. International Conference for Teachers of Mechanisms*, 197-218. Shoe String Press Inc., 1961.

MURRAY, N. W. — A general design method of axisymmetric shell roofs. *Journal Inst. Civ. Eng.*, 151-162, Sept. 1961.

MURRAY, N. W. (with BAILEY, R. W.) — Theoretical investigation of the behaviour of steel structures at elevated temperatures. Contribution to "Nuclear Reactor Containment Buildings and Pressure Vessels." Butterworth.

MURRAY, N. W. — Skirt seal. British Patent Application No. 39196/60 GEC. (Murray.)

#### FACULTY OF MEDICINE

*Department of Anatomy:*

SCHOFIELD, G. C. (Editor) (with ADAMS, W. E.) — "Notes on Anatomy", vol. ii, Pub. Peryer, Christchurch.

#### FACULTY OF SCIENCE

*Department of Chemistry:*

BROWN, R. D., COLLER, B. A. W. and HARCOURT, R. D. — Mechanism of electrophilic substitution in quinoline and isoquinoline. *Australian Journal of Chemistry*, vol. xiv, no. 4, 643-4, 1961.

*Department of Physics:*

TROUP, G. J. F. — Infrared masers using rare earth ions (Advances in Quantum Electronics).

SMITH, J. H. and GAUNT, P. — The martensitic transformations in gold-manganese alloys near the equiatomic composition. *Acta Metallurgica*, vol. ix, September 1961 (819).

For and on behalf of the Council,

R. R. BLACKWOOD  
Chancellor.



