

Report of the Council

1978



Monash University

Report of the Council of Monash University 1978

**Report of the Council for the period
1 January 1978 to 31 December 1978**

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REPORT OF THE COUNCIL FOR 1978

In accordance with Section 41 of the Monash University Act 1958, as amended, I submit the Report of the Council for 1978.

For and on behalf of the Council

**R. M. Eggleston
Chancellor**

THE COUNCIL

Members of the Council as at 31 December 1978*

Members ex officio

The Honourable Sir Richard Moulton
Eggleston, Q.C., LL.B., Hon.LL.D. (Melb.)
— *Chancellor*
Raymond Leslie Martin, M.Sc. (Melb.), Ph.D.,
Sc.D. (Cantab.), D.Sc. (A.N.U.), F.R.A.C.I.,
F.R.I.C., F.A.A. — *Vice-Chancellor*

Appointed by the Governor-in-Council

Norman Alexander William Billing, K.St.J.,
M.L.A.
Ian Rupert Cathie, M.L.A., B.A., Dip.Ed.
(Melb.)
Geoffrey Alistair Knights, M.A., Ph.D. (Cantab.)
John Widdis Leslie, O.B.E.
Neil Malcolm McInnes, M.L.A.
Hugh Mitchell McKenzie
Sir James Charles McNeill, C.B.E., F.A.S.A.,
F.A.I.M.
Sandford Saul Nevile, O.B.E., B.Com.
(Melb.)
John William Wood

Elected by graduates of the University

Anthony Henry May, B.Ec., LL.B.
Kay Christine Lesley Patterson, B.A. (Syd.),
Ph.D., Dip.Ed., M.A.Ps.S.

Elected by the Faculties

David Hector Monro, M.A. (N.Z.), F.A.H.A.,
F.A.S.S.A. (*Arts*)
Eve Ruth Mahlab, LL.B. (Melb.), (*Economics
and Politics*)
Maxwell Wilkinson Oldmeadow, B.A.
(Melb.), Dip.Ed., T.P.T.C., M.A.C.E. (*Edu-
cation*)
Ian Langlands, O.B.E., B.E.E., M.Mech.E.
(Melb.), F.I.E.Aust., F.A.I.B. — *Deputy
Chancellor (Engineering)*
Gordon David Lewis, LL.B. (Melb.) (*Law*)
Nigel John Gray, A.M., M.B., B.S. (Melb.),
F.R.A.C.P., F.A.C.M.A. (*Medicine*)
David Maughan Churchill, M.A. (Cantab.),
B.Sc., Ph.D. (W.A.) (*Science*)

Elected by the Professors

Martin Joseph Patrick Canny, M.A., Ph.D.
(Cantab.)
Solomon Rufus Davis, LL.B. (W.A.), Ph.D.
(Lond.), F.A.S.S.A.
Ross Henry Day, B.Sc. (W.A.), Ph.D. (Brist.),
F.B.Ps.S., F.A.Ps.S., F.A.S.S.A.
Alan George Lewers Shaw, B.A. (Melb.),
M.A. (Oxon.), F.A.S.S.A.

Elected by teaching staff other than the Professors

Ian McCance, M.Sc. (Melb.), Ph.D.
Robert Erich Melchers, B.E., M.Eng.Sc.,
Ph.D. (Cantab.), M.I.E.Aust., M.I.C.E.
Jennifer Strauss, B.A. (Melb.)

Appointed by the Minister for Education

Allan Thomas Hird, B.Com., B.Ed. (Melb.),
A.A.S.A., T.P.T.C., M.A.C.E.

Co-opted

Margaret Hamer, B.E. (Syd.), B.A. (Melb.)
Patricia Frances Hutson, M.B., B.S. (Melb.)
Joseph Ezra Isaac, B.A., B.Com. (Melb.),
Ph.D. (Lond.), F.A.S.S.A.

Co-opted from among the Deans of the Faculties

Donald Cochrane, C.B.E., B.Com. (Melb.),
Ph.D. (Cantab.), F.A.S.S.A.
Lance Aubrey Endersbee, B.C.E., M.E.,
F.I.E.Aust., F.A.S.C.E., M.Aust.I.M.M.

Elected by the non-academic staff

Geoffrey Steven Wilson, A.L.C.M.

Elected by the students of the University

Peter Howard Costello
Geoffrey Gordon McArthur
David Malcolm Parkes, B.Sc.

*See Appendix 1 for changes in membership during 1978.

**REPORT OF THE CHANCELLOR,
THE HON. SIR RICHARD M. EGGLESTON, Q.C., LL.B.,
Hon.LL.D.(Melb.)**

The Council held ten meetings in 1978 between March and December inclusive; the last three of which were chaired by the Deputy Chancellor, Mr. I. Langlands, during my absence overseas. 1978 was the first full year in office of the Vice-Chancellor, Professor R. L. Martin, who commenced his appointment in February 1977. Professor Martin attended all meetings of Council apart from the August meeting when he was absent overseas attending the Twelfth Commonwealth Universities Conference in Canada.

As always, there were a number of changes in the membership of the Council during the year and details of these are given in *Appendix I*.

At its meeting in June, Council was saddened to learn of the death of Sir Brian Hone on 28 May. Members stood in silence in memory of Sir Brian who had been a member of both the Interim Council and Council of the University continuously up until his death and who had contributed greatly to the proceedings of Council during this long period of service to the University. He will be greatly missed. The resultant vacancy of one coopted member of Council has not yet been filled.

Council was also saddened to learn at its April meeting of the death on 8 March of Sir Walter Bassett, a member of the Interim Council and a former member of the Council representing the faculty of Engineering up to his retirement in 1973.

At its meeting in March, Council noted with pleasure that in the New Year Honours List, a knighthood had been conferred on Sir James McNeill. In June, Council congratulated Dr N. J. Gray on being created a Member of the Order of Australia and Mr J. W. Leslie on being created an Officer of the Order of the British Empire in the Queen's Birthday Honours List. At the same meeting Council also noted with pleasure that an M.B.E. had been awarded to Mr C. J. Bourke, director of the Centre for Research into Aboriginal Affairs at the University and that an O.B.E. had been awarded to Mr J. Brown, who has been a generous benefactor to the University in recent years and a valued patron of the University's growing art collection.

At graduation ceremonies during the year, the following honorary degrees were conferred: Doctor of Engineering — John Clifton Vaughan Holland and Charles Gullan McGrath, Doctor of Laws — Godfrey Alfred Rattigan.

REPORT OF THE VICE-CHANCELLOR, PROFESSOR R. L. MARTIN, M.Sc.(Melb.), Ph.D., Sc.D.(Cantab.), D.Sc.(A.N.U.), F.R.A.C.I., F.R.I.C., F.A.A.

1978 was a challenging year for universities which had to grapple with their internal problems as a result of budget cuts and were also faced with increasing public scrutiny and critical, often hostile, attention from the media. Public comment was not always well informed and the reasons for the considerable degree of autonomy which universities have traditionally been granted were certainly not generally understood. However, it must be recognised that in these times of financial stringency it is inevitable and proper that universities will face an increasing demand to justify the nature of their operations and, in particular, their expenditure of public funds. It is important therefore that they work to establish a public image consonant with the contribution they are making to the intellectual and material well-being of the whole community of which they are a part. The Report of the Council is directed to this end.

It was with great regret that, late in the year, I accepted the request of the Comptroller, Mr F. H. Johnson, to take early retirement in mid-1979. Frank Johnson was Monash's first Registrar from February 1960 to 1965 when, after a re-organisation of the administration, he was appointed to the new position of Comptroller. He will always be remembered for his untiring efforts and inspiration during the formative years of Monash and for his continued dedication, and imaginative and wise counsel. I think it fair to say that when Frank Johnson retires in 1979, an important part of the early spirit of Monash will go with him.

The year was one of consolidation and again I was ably supported by Professor W. A. G. Scott as Deputy Vice-Chancellor and Professor B. O. West as part-time Pro-Vice-Chancellor, both of whom were appointed by Council for further terms. As foreshadowed in my previous report, Professor J. D. Legge

commenced his term as dean of the faculty of Arts in February following the retirement of Professor G. R. Manton at the end of 1977. At its meeting in March, Council conferred the title of professor emeritus on Professor Manton in recognition of his distinguished scholarship and service to the University. A similar honour was conferred on Professor A. K. McIntyre by Council at its meeting in December, to mark his retirement from the University as foundation professor of Physiology. Such was Professor McIntyre's standing in the international scientific community that a two-day symposium, held at the University in November as a personal tribute to his distinguished career, was attended by many scholars from overseas.

In August, I was granted leave by Council to visit Europe and North America, principally to attend the Twelfth Congress of Commonwealth Universities in Vancouver and the preceding Conference of Executive Heads of Commonwealth Universities in London, Ontario. In all, I visited ten universities and one research institute, including a useful two-day visit to Harvard University to evaluate the recently introduced core curriculum aimed at stricter academic standards in the undergraduate programme. As a relatively new Vice-Chancellor in a relatively new university, I found great value in discussing matters of mutual concern with colleagues from a wide spectrum of universities in the Commonwealth and the United States. It came as no surprise to learn from these discussions that the problems of reduced funding, steady state, and eroding public support were not unique to Australia.

1978 seemed to be a year dominated by funding matters and in this respect fortunes and expectations varied throughout the year. Early in the year the University finalised its

submission to the Universities Council for the 1979-81 'rolling triennium' amid a growing uncertainty of the Commonwealth Government's intentions on funding. Late in 1977 the Government had passed the State Grants (Tertiary Education Assistance) Act 1977 which effectively locked the universities into annual funding and seemed to mark the demise of the triennial system which had served the universities so well in the past. Certain aspects of this new legislation concerning the carrying forward of funds from one year to the next remained obscure and unresolved for almost the whole year and created severe budgetary difficulties. It was not until the Government introduced the States Grants (Tertiary Education Assistance) Bill 1978 in November that these matters finally became clarified by the introduction of measures which allowed more flexibility for the use and expenditure of recurrent funds.

The future prospects for the University were spelled out in three successive instalments during the year with the publication of the Tertiary Education Commission's First Report for the 1979-81 triennium in April, the Commonwealth Government's triennial spending guidelines announced in June, and the TEC's Second Report in September. The University was able to press its case personally to members of the Universities Council who paid a two-day visit to the University in May, marking a resumption of 'triennial visits' introduced by the original Universities Commission. Although useful and frank discussions took place with interested sections of the university community, particularly about research, equipment and buildings, I think it fair to say there was little that could be offered in the way of positive encouragement for new initiatives by the university.

The Government's spending guidelines on education for 1979-81 released in June confirmed our fears that universities were to face continued financial stringency into the early 1980s at least. The Government's intentions of lifting expenditure by only 0.7 per cent in real terms meant a significantly decreased

effective level of funding for the triennium, given the increased costs that the universities had been asked to absorb. The University did, however, welcome the acceptance by the Government of the TEC's recommendation to return to fixed triennial funding for recurrent expenditure. This will make the task of budgeting for an uncertain future easier.

In contrast to this gloomy outlook early in the year the University felt somewhat relieved with the release in September of the TEC's Second Report detailing specific allocations for 1979-81. Although the recurrent funds allocated to Monash represented an unwelcome reduction of approximately 0.5 per cent in real terms, there was some good news. Monash was included in a group of six universities selected to share an additional \$1M per annum for special research. Also, given the limited funds available for capital works, Monash was fortunate indeed to be given the go-ahead for a much-needed new building on campus to house the department of Microbiology.

I turn now to one of the most divisive matters of the year — the inquiry into study leave by the TEC. A working party of the TEC published an interim report in May with draft recommendations that would have substantially curtailed the present operation of study leave in Australian universities. The essence of the University's response to this draft report in a submission forwarded by Council was that the effects of the proposed limits on the extent of study leave and financial assistance would be to reduce very severely the opportunities for sustained research currently available to Australian academics. The final TEC Report on Study Leave was published in October and contained a significantly revised set of recommendations to govern what should now be called 'Outside Studies Programmes'. The expected savings from the so-called 'reforms' of study leave are estimated by the Government to be \$1M in 1979 and \$1.5M in 1980 and 1981 — small sums indeed compared with the damaging

The Vice Chancellor, Professor R. L. Martin (*centre*) with Emeritus Professor D. N. F. Dunbar (chairman, Universities Council) and Professor Leonie Kramer (University of Sydney) during the visit of the Universities Council.



effects on staff morale and academic scholarship in Australia.

Another matter which generated a great deal of comment during the year was the publication in March of the Partridge Report of Inquiry into post-secondary education in Victoria. In general, Monash welcomed this report which promised a much-needed rationalisation of tertiary education in the State without seeming to impinge on the traditional autonomy of the universities. The University, however, took a different view when the State Government introduced legislation to establish the recommended Victorian Post-Secondary Education Commission. One clause in the original bill was seen as a direct threat to university autonomy and contrary to the spirit and recommendation of the Partridge Report. I am pleased to report that reason eventually prevailed and the Act as finally passed by the Government contained some substantial modification.

It was encouraging that the Partridge Committee in its Report recognised Monash as 'now a well-balanced University with strong departments in the physical and biological sciences, in the several branches of engineering, in the humanities, in the social sciences and in various professional areas'. It also commented favourably on the 'notable strength in research and higher degree work that Monash has developed'.

Capital development of the University is obviously slowing down now that Monash has achieved its optimum size. However, building activity has not ceased altogether. Work on the new Physiology building and extensions to the department of Anatomy proceeded during the year and when satisfactorily completed these new buildings should greatly improve the teaching and research facilities of these departments. Work commenced on an Arts and Crafts building as part of the Union facilities and this is expected to be

completed and in use by mid-1979. Early in the year, the University purchased the land and buildings of the former Marist Brothers' College in Normanby Road on the northern boundary of the campus. The college is an important and valuable acquisition, the transaction being in accordance with Council's continuing policy of acquiring property on the University's perimeter, taking a long term view of the ultimate needs of the University. The property consists of six and a half acres of land with a modern building containing nearly a hundred self-contained bedrooms, chapel, libraries, offices, common rooms and discussion area. Council approved a recommendation that the college, now renamed Normanby House, should be converted for a two-year trial period into a centre for conferences, seminars and other educational and training activities. The development of Normanby House will enable teaching departments of the University to sponsor continuing education activities at all times of the year. It will also provide an excellent venue for activities organised by outside professional, industrial and community organisations.

In July, in recognition of growing public concern over the possible effects to public health of recombinant DNA research, Council established a Biosafety Committee to monitor and maintain strict surveillance over any potentially biohazardous research which may be conducted in the University.

The proposal of the Commonwealth Government to establish a defence force academy to be known as Casey University was also debated by Council. It resolved that the use of the term 'University' was inappropriate and undesirable for what is essentially a military academy. Council expressed concern that the students at the proposed academy would in substance be limited to persons who are committed to a particular career and was also concerned that the constitution proposed for the governing body is heavily weighted in favour of the special interests of the armed services and has not the broadly representa-

tive character normally provided for in the governing bodies of universities. It was the view of Council that to qualify to be called a university an institution should embrace a wide diversity of scholarship and should foster freedom to hold divergent points of view, free from any commitment to a particular philosophy.

I turn now to a brief summary of some of the many on-going projects which, in many ways, are indicative of the richness and diversity of life at Monash. The Religious Centre celebrated its tenth anniversary in June with the inauguration of its fine new organ built by the noted Sydney organ builder, Ronald Sharp. A contract was drawn up and building commenced in Germany of the 'Matheson Organ' honouring Monash's foundation Vice-Chancellor. The instrument is due to be installed in the Robert Blackwood Hall early in 1980. In this organ, being built by Jurgen Ahrend, the University will have an instrument of international standing which will further enhance the cultural life of Monash and the surrounding community.

Two artists' rooms were constructed in Robert Blackwood Hall early this year. They were built largely at the instigation of Mrs Ruth Alexander who was convinced that Robert Blackwood Hall, acknowledged as a world class concert hall, should have performers' facilities to match. Much of the money was raised from people associated with Monash and particularly with its second Chancellor, Sir Douglas Menzies. One room will be named 'The Douglas Menzies Room' and the other 'The Ruth Alexander Room'.

An exhibition of the fine Banksia paintings by the University Artist, Mrs Celia Rosser, was held at the Monash Exhibition Gallery in April. The exhibition provided a preview of the set of volumes which will eventually be published depicting by description and illustration all species of this genus of native plants. Negotiations continued with Academic Press for the publication of this significant work.

During the year the W. K. Kellogg Foundation of the United States gave \$149 000 to the Reference Centre at Monash's Biomedical Library to expand and strengthen the library's special facilities in the hospital field. The Australian Hospital Association proposed the establishment of the service and has supported it as a pilot project from mid-1976 with initial funding of \$10 000. The object is to disseminate information, at request, on matters related to hospital administration, management, health care and associated fields. The service will widen the scope of the facilities already provided by the Biomedical Library. It will enable the library to provide a comprehensive service to hospital administrators and staff, particularly to those hospitals which lack adequate library facilities. Since the service began, information, reference lists and periodicals have been supplied to numerous hospitals and institutions throughout Australia.

In conclusion, I should like to turn briefly to the future. At the end of 1978 Monash

completed its eighteenth year of teaching. In a State where majority is accorded to citizens on reaching the age of 18, Monash now must be regarded as 'grown-up'. Some may regard it as having had a rather precocious childhood and a somewhat unruly adolescence, but at eighteen, Monash has emerged as a mature, developed, and well-balanced University with a distinguished international reputation for scholarship and research established during its short history.

At the close of 1978, Monash, like all universities, finds itself at the cross-roads awaiting the long-delayed publication of the Williams Report of Inquiry into Education and Training and wondering whether this report will give a firm lead for the direction of tertiary education up to the year 2000. To my mind, the main challenge for the future is to cope effectively with the problems of maintaining a stimulating and innovative academic programme in a no growth situation, and to alleviate the consequent staffing problems in a climate of growing unease. I am confident that these challenges can be met.

DEVELOPMENT AND ADMINISTRATION

Site and buildings

In 1978, the medical school extension and the Moorabbin Community Practice Teaching Centre were completed and taken into use. Work is proceeding on Medical 'D' Block alterations; the anticipated completion date is May 1979. Construction of the Arts and Crafts building commenced in August 1978 and should be completed by June 1979. Planning is progressing for the Microbiology building and tenders will be called in March 1979.

Site works items completed in 1978 included the construction of access roads to Educational Technology and to Physics, the construction of two lecture theatres for Engineering, the provision of increased telephone cabling capacity, the installation of a switchboard for the Central Animal House, the construction of the south-west car park, the construction of the sub-station within the medical extensions, as well as the service duct to carry high pressure hot water pipes to these extensions, the installation of a second main boiler together with the associated pipework and boiler house extension, the landscaping of areas adjacent to the sports centre and the first stage of a security and service control system.

Legislation

Twelve statutes and forty-five new and amending regulations were made by the Council in 1978.

University publishing

The Publications Section published the University Calendar, Report of the Council, Research Report, and the seven faculty handbooks at the appropriate times during 1978. Mr Reuben Havin, the University's Publications Officer for the past fourteen years, retired in May and Mrs Lee White was appointed to the position.

The section received an increased number of requests for publishing advice from

academic staff and guidance or practical assistance was given where practicable. In addition to its publishing duties the section has accepted responsibility for the processing of a part of the University's archival material and preliminary work has commenced in this area.

The official publishing programme was examined in the light of the need to conform with strict budget requirements and as a result, production and format changes will be implemented in the coming year.

Three meetings of the Publications Committee were held during the year and the committee continued to assist in the development of the University's scholarly publishing programme. Five books by Monash authors were published with the financial assistance of the committee, including two titles in the monograph series produced for the Centre of Southeast Asian Studies.

The new restriction on the carry-forward of unspent funds will add to the Publication Committee's difficulties in planning the use of its allocation for subsidies.

Safety

Safety standards have been improved in two major areas: reducing slipperiness of pedestrian ways, and protection of floor to ceiling glazing. The emergency vehicle was used on fifty-four occasions and the incidents effectively dealt with by central service staff and the health service. Resuscitation and fire fighting demonstrations continued, and all departments were supplied with safety publications issued by the National Safety Council. The new Physiology building has had installed a fire/evacuation alarm system which is in accordance with a recently approved Australian Standard, i.e. a wailing siren. Labels for containers denoting their hazardous contents have been supplied to departments on request. Community interests have been maintained. The University safety officer is chairman of the Dandenong and District Safety Group, and a full day safety seminar

was held at Monash when some 300 apprentices from local industry attended.

In addition to the personal monitoring of ionising radiation workers by film badges and thermoluminescent dosimeter, considerable attention was given in 1978 to the protection aspects of high specific activity iodine-125 used for the labelling of biological compounds. University rules for work with ¹²⁵I have been promulgated and a programme of *in situ* thyroid monitoring introduced. This

aspect has been emphasised in the training lectures and demonstrations given at the beginning of the year to new users. A survey on the use of non-ionising radiations in the University, such as ultra-violet, laser and microwave radiations, is continuing. The Radiation Protection Officer attended a conference on physical sciences and engineering in medicine and biology and an IREE-ERDA seminar on the biological effects of electromagnetic radiation.

STAFF APPOINTMENTS

As in 1977, the University's recruitment of teaching staff in 1978 was not as active as in recent years. The total full-time academic staff numbered 809 at 31 December 1978. The mobility of teaching staff was less than in 1977, there being 100 appointments and 114 resignations, compared with 118 appoint-

ments and 116 resignations in 1977. Of the 100 appointments eight were fixed term.

Professor A. K. McIntyre retired from the foundation chair of Physiology at 31 December 1978 and has been accorded the title of professor emeritus.

Full-time Academic Staff as at 31 December 1978

	Arts	Ecops	Educ'n	Eng'ng	Law	Medicine	Science	Tchng & Res. Centres	Totals
Deans	1	1	1	1	1	1	1		7
Professors	22(2)	14(2)	5	9	*6(1)	19(1)	21		96(6)
Readers	5	5	1	2	3	5	21		42
Associate Professors	12	4	4	12	3	9	6		50
Senior Lecturers	74	33(1)	23(2)	36	20(2)	46(3)	67(2)	2	301(10)
Lecturers	45(2)	30(4)	15(4)	14(1)	17(1)	22(3)	26(2)	1(1)	170(18)
Principal Tutors	6	2	2			1	1		12
Senior Tutors/ Tenure	4				1				5
Senior Tutors	19(3)	2(4)	5(4)	8(1)	5(4)	21(12)	10(8)		70(36)
Tutors	18(6)	26(18)			5(4)		7(2)		56(30)
Totals	206(13)	117(29)	56(10)	82(2)	61(12)	124(19)	160(14)	3(1)	809(100)

*Includes Visiting Professors.

The numbers in brackets indicate those who took up their appointments at Monash in 1978.

Full-time academic staff who left Monash during 1978 to take other appointments on expiry of contract, at the end of visiting appointments, or on retirement were:

Professors	2*
Visiting Professors	4
Readers	2
Associate Professors	1†
Senior Lecturers	17
Lecturers	23
Principal Tutors	1*
Senior Tutors with tenure	1
Senior Tutors	41
Tutors	22
	<hr/>
	114

*Includes 1 retirement in each category.

†Death

The following Professors took up appointments during 1978.

Honorary Professor (Medicine)
H. G. Burger

Professor (Geography)
W. C. Clarke
Professor (Anatomy)
D. M. deKretser
Professor (Econometrics)
D. E. A. Giles
Professor (Philosophy)
F. C. Jackson
Professor (Accounting
and Finance)
C. G. Peirson
Professor (Meteorology —
part-time
appointment)
C. H. B. Priestly

The number of research appointments was higher than in 1977. There were 9 research fellowships and 39 full-time junior research posts filled during the year compared with 4 research fellowships and 28 full-time junior research posts in 1977.

Administrative and Support Staff 1978

	Data				Total
	Admin.	Processing	Managerial	Special	
Faculty and Teaching	27		21	25	74
Central Administration	73	7		8	88
Computer Centre	1	9		4	14
Library	3	3			6
Ancillary areas including Halls of Residence and Bookshop	19		8	4	31
Totals	123	20	29	41	213

In the University Library, graduate and other staff with formal qualifications total 58 as compared with 60 in 1977.

The University records with regret the deaths

during 1978 of Mr K. R. Archer (Library), Mr W. T. Hanrahan (Central Services), Mr H. Frankland (Physics), Mrs M. A. Troedel (Biochemistry) and Associate Professor I. A. H. Turner (History).

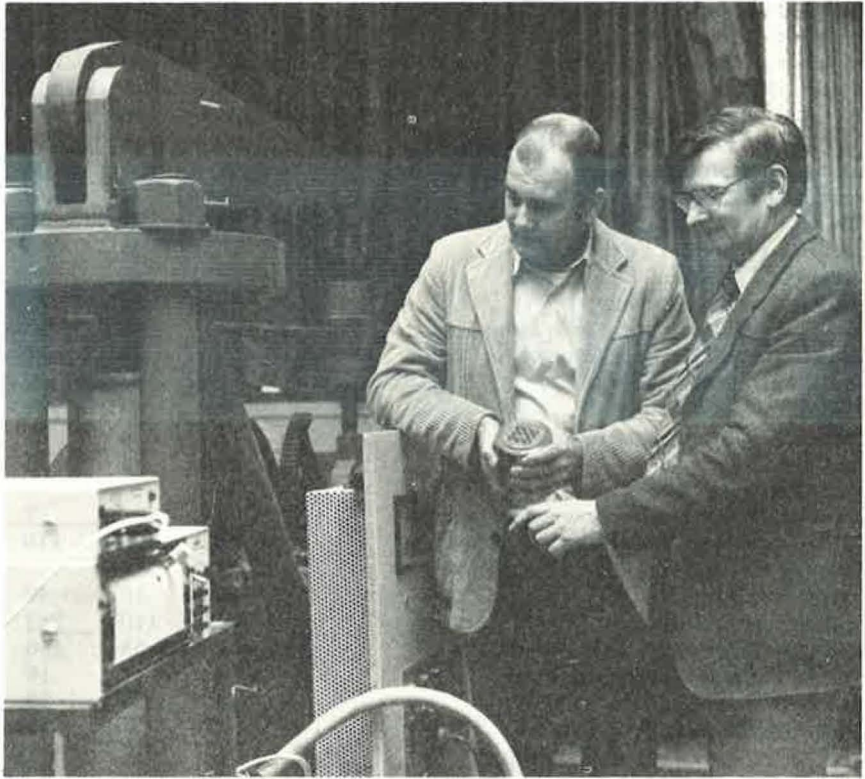
ACADEMIC DEVELOPMENTS

Degrees and diplomas conferred

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1978, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University:

			1978	1961-78
	Male	Female	Total	Total
Bachelor of Arts	173	405	578	6 167
Bachelor of Arts with Honours	39	55	94	1 022
Bachelor of Social Work	—	—	—	4
Bachelor of Social Work with Honours	10	28	38	57
Master of Arts	19	15	34	220
Bachelor of Economics	226	86	312	3 356
Bachelor of Economics with Honours	26	5	31	392
Master of Administration	29	5	34	200
Master of Economics	10	—	10	103
Bachelor of Education	97	70	167	1 103
Bachelor of Special Education	16	20	36	99
Master of Education	29	15	44	167
Bachelor of Engineering	69	3	72	719
Bachelor of Engineering with Honours	95	—	95	874
Master of Engineering Science	12	—	12	139
Bachelor of Jurisprudence	41	8	49	849
Bachelor of Laws	171	44	215	1 156
Bachelor of Laws with Honours	12	4	16	109
Master of Laws	20	4	24	61
Bachelor of Medical Science	—	—	—	11
Bachelor of Medical Science with Honours	7	—	7	118
Bachelor of Medicine, Bachelor of Surgery	93	26	119	1 213
Bachelor of Medicine, Bachelor of Surgery with Honours	28	10	38	334
Bachelor of Science	173	110	283	2 422
Bachelor of Science with Honours	101	55	156	1 461
Master of Environmental Science	14	4	18	51
Master of Science	18	5	23	222
Doctor of Philosophy — Arts	8	3	11)	
— Economics	1	—	1)	
— Education	9	1	10)	
— Engineering	22	—	22)	100 877
— Law	2	2	4)	
— Medicine	8	1	9)	
— Science	38	5	43)	
Doctor of Medicine	2	—	2	18
Doctor of Science	2	—	2	6
Honorary Master of Science	—	—	—	2
Honorary Doctor of Letters	—	—	—	9
Honorary Doctor of Engineering	2	—	2	7
Honorary Doctor of Laws	1	—	1	22
Honorary Doctor of Medicine	—	—	—	5
Honorary Doctor of Science	—	—	—	7
Total Degrees	1 623	989	2 612	23 582

Dr David Boger (l) and Associate Professor Arthur Williams (faculty of Engineering) examine a test rig developed by Williams to study heat transfer. Both Dr Boger and Associate Professor Williams have been selected to participate in major research projects backed by the National Science Foundation of the U.S.



	Male	Female	1978 Total	1961-78 Total
Diploma in Computer Science	2	—	2	2
Diploma in Education	245	166	411	4 894
Diploma in Educational Psychology	9	20	29	42
Diploma in Engineering Geology	3	—	3	3
Diploma in Linguistics	—	1	1	1
Diploma in Microbiology	—	—	—	3
Diploma in Migrant Studies	3	7	10	11
Diploma in Russian	—	1	1	1
Total Diplomas	<u>262</u>	<u>195</u>	<u>457</u>	<u>4 957</u>

1978 Annual examination pass rates

The high percentage of students passing examinations has continued and pass rates in most faculties have improved. Fluctuations in the pass rates may occur from various factors including level of intake, changes in course content and structure and variations in assessment method. The following table shows the pass rates for first year full-time students.

For the purpose of this table, students are divided into: **Group (a)** if students have passed more than half the subjects or units taken, except that those taking three subjects are regarded as having passed the year only if they have passed all three subjects; and **Group (b)** if students passed all subjects or failed in one or two subjects but were granted passes in the year as a whole and continued into the next year of the course.

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Group (a)										
Arts	77	78	80	83	85	87	88	83	87	86
Economics and Politics	76	76	88	81	87	85	80	75	83	85
Law	72	80	82	79	88	92	94	91	90	93
Science	86	89	90	89	87	84	87	85	80	83
Group (b)										
Diploma in Education	92	92	92	96	97	95	95	98	94	98
Engineering	75	84	88	82	76	64	64	67	71	71
Medicine	96	99	96	98	98	95	90	99	95	95

Faculty of Arts

Dean: Professor J. D. Legge, M.A. (Melb.), D.Phil. (Oxon.), F.A.S.S.A.

Students

At 30 April 1978 enrolments in the faculty fell short of the target figure of 3060 equivalent full-time students (E.F.T.S.) by a small margin with the shortfall occurring in undergraduate enrolments. The task of achieving the undergraduate target was complicated by an unexpectedly high number of new students deferring their places, a slight fall in the retention rate of students into second and third years, and a slight increase in the proportion of part-time undergraduates.

The faculty again admitted a group of early leaver applicants who had applied under the University's Special Admissions Scheme, and their examinations performance continues to compare favourably with candidates admitted in the normal way.

There was a slight decrease of 4.5 E.F.T.S. in the number of higher degree enrolments, although the target figure of 480 E.F.T.S. was exceeded by a margin of some 18 E.F.T.S.

The quality of applicants for postgraduate study in the faculty was reflected by an increase in the faculty's share of Commonwealth postgraduate awards from 11 in 1977 to 19 in 1978.

Staff

Professor F. C. Jackson, formerly of La Trobe University, took up his position as professor of Philosophy at the beginning of the year, and Professor W. C. Clarke arrived to take up the second chair of Geography.

Dr L. F. Brakel, of the department of Indonesian and Malay, was appointed to the

chair of Austronesian Languages and Cultures in the University of Hamburg, and Dr R. J. Bowring to a position in the department of East Asian Languages and Cultures of Columbia University. Dr J. R. Brehaut of the department of Anthropology and Sociology was appointed to the headship of the new department of Community Studies in the North Brisbane College of Advanced Education. Mr A. Idrus of the department of Indonesian and Malay, and Dr R. E. Blake of the department of French, also resigned during the year.

Professor F. C. Jackson was elected president of the Australasian Association of Philosophy during the course of the year and was appointed to the editorial board of *Cambridge Studies in Philosophy*. Professor W. H. Scott was elected, for the second time, president of the Sociological Association of Australia and New Zealand. Dr Ernst Keller, senior lecturer in German, was elected a Fellow of the Academy of the Humanities in Australia.

The faculty, like other parts of the University, has been affected by the present financial climate. In order to live within its budget it has had to leave unfilled six of the positions which fell vacant during the course of the year. The number of tenured academic staff in the faculty has, in fact, fallen by twelve over the last three years though student enrolments have been maintained at a comparable level during the period. Any further staff reductions would seriously impair the ability of the faculty to discharge effectively its teaching and research functions.

Undergraduate studies

The faculty has been aware of the general problems facing the University as a whole — those of preserving flexibility and of encouraging innovation in a 'steady-state' university. The departments of Visual Arts, Social Work and Librarianship are likely to be the last major additions to the faculty for the foreseeable future. Individual course

changes in a number of departments, however, reflect the changing interest of staff and students and provide evidence that a steady state is not inconsistent with change and development. Philosophy, for example, has offered new interdisciplinary courses in the philosophy of history and the philosophy of science, History has offered a new first-year course on the second World War, the department of Classical Studies proposes a new course in New Testament Greek for 1979, the Board of Studies in General and Comparative Literature has planned a major sequence (to accompany another major) for 1979, the department of French has rearranged its pass and honours courses in order to secure a greater degree of coherence in the options open to students, and the department of Visual Arts has planned the introduction of two new courses in film. The department of French joined the departments of German and Japanese in providing facilities for their students to study abroad for part of their course. By arrangement with the University of Nice, students of French were able, for the first time, to take a 15-weeks course there.

The faculty has decided for 1979 to require students to complete a minimum of 70 credit points for the Bachelor's degree, in place of the 68-point minimum which has existed over the last few years.

Research

At 30 April 1978, 245 candidates were enrolled for Masters' degrees in the faculty, of whom 44 were candidates for the degree of Master of Librarianship and 8 candidates for the degree of Master of Social Work. One hundred and ten candidates were enrolled for the degree of Doctor of Philosophy.

Thirty-two candidates were enrolled for postgraduate diploma courses. New diploma courses in English and Librarianship were introduced in 1978, attracting 6 and 11 candidates respectively. The Diploma in Migrant Studies continues to be popular, with 13 candidates enrolled.

The Centre for Migrant Studies and the Centre of Southeast Asian Studies continued to facilitate interdisciplinary co-operation in the supervision of graduate work in their respective fields. The Centre for Migrant Studies has continued to act as the editorial base of the journal *Ethnic Studies*. In conjunction with the University Library, the centre has begun to build up in the Library an 'Ethnic Heritage Collection' which will include books, journals, diaries, family and ethnic histories, tapes, cassettes and photographs. The collection is intended in due course to provide a store of primary material for the use of researchers in this field.

The Centre of Southeast Asian Studies has published one monograph and three working papers during the course of the year. During the year the centre's foundation director, Mr J. A. C. Mackie, left to take up the foundation chair of Political and Social Change in the Research School of Pacific Studies of the Australian National University.

Apart from the publications of the two centres, the department of Geography has continued its monograph series and a number of journals of scholarly standing have been edited within the faculty. *The Bulletin of the Bibliographical Society of Australia and New Zealand*, the *Australian Journal of French Studies*, and *Ramus* are examples.

The faculty attracted \$76 987 in A.R.G.C. grants for 1979. Grants were awarded to members of the departments of Anthropology and Sociology, Geography, German, History, Indonesian and Malay, Linguistics, Music and Visual Arts.

Conferences and seminars

The inaugural conference of the newly-formed Association for the Study of Australian Literature was held in mid-May, which coincided appropriately with Barry Oakley's stay in the faculty as Writer-in-Residence under the Writers-in-Residence programme jointly funded by the Literature Board of the Australia Council. Mrs M. Lord of the de-

partment of English was elected as president of the Association.

With the support of the Myer Foundation, the Graduate School of Librarianship organised two seminars on information science.

During term, both the Centre of Southeast Asian Studies and the Centre for Migrant Studies again presented a series of seminars on a wide range of topics.

Creative and performing arts

Income from the Vera Moore Fund, established in 1976, enabled grants to be made towards the cost of a production of Euripedes' *Hippolytus* by the Classic Theatre Company, comprising staff and students of the department of Classical Studies, a series of workshop recitals by the Australian Contemporary Music Ensemble organised by the department of Music, and a photographic exhibition of the works of Michelangelo organised by the department of Visual Arts and held in the department's gallery. The department of Visual Arts also presented a number of other exhibitions, including an exhibition of the art of the 1960s and 1970s (with the assistance of the Visual Arts Board of the Australia Council), an exhibition of the work of Roger Kemp (sponsored by the Australian Galleries Directors Council) and an exhibition of the Monash collection of Bankisia paintings by Celia Rosser.

Members of staff in the department of English presented a number of plays during the year.

Visitors

Visitors to the faculty during the course of the year included Professor C. Segel (Brown University, U.S.A.), Professor M. E. Stone (Hebrew University, Jerusalem), Professor E. Handley (University of London), Mr J. Sharples, (curator of the Numismatic Collection in the Science Museum of Victoria), Professor Robert B. Kaplan (University of Southern California), Dr Peter Mülhaüsler (Technische Universität, Berlin), Professor

David McAllester (Wesleyan University, Connecticut), Professor Bertram Turetzky (University of California, San Diego), Professor Cyril Greenland (McMaster University), Professor Lucien Leclaire (University of Caen) and Professor O. H. K. Spate (Australian National University).

Administration

Two seminars on University government were arranged by the faculty's Committee on

Faculty Government, as a preliminary to its enquiry into such questions as the chairmanship of departments and the character of the deanship. The first of these, on departmental chairmanships, was addressed by Mr Paul Morgan, Assistant Registrar (Arts) of the University of Melbourne, Mr R. Pinkerton, Dean of Humanities at La Trobe University, and Mr L. Gardiner, of the department of History at the University of Melbourne. The second seminar, on the role of the dean, was addressed by Emeritus Professor G. R. Manton and Dr D. B. Miller.

Faculty of Economics and Politics

Dean: Professor D. Cochrane, C.B.E., B.Com. (Melb.), Ph.D. (Cantab.), F.A.S.S.A.

Selection and enrolment

As the faculty has achieved its long term maximum size in terms of E.F.T.S. the only changes each year are small variations in the composition of the student body. However, it is anticipated that there will be a gradual increase in the ratio of graduate students to undergraduate students.

The total E.F.T.S. for the faculty in 1978 was 2356 compared with 2342 in 1977, a slight excess over the target figure of 2320. Higher degree E.F.T.S. increased from 367 to 387.

Staff

Associate Professor C. G. Peirson was appointed to a chair in Accounting and Finance, Dr D. E. A. Giles to the chair of Econometrics and Dr D. Kemp to the third chair in Politics.

Mrs S. Monester, Mr D. M. Gilling and Mr W. McGregor took up appointments as lecturers in the department of Accounting and Finance, Mrs H. Owens took up a lectureship in Administrative Studies and Dr A. Jorgensen-Dahl took up a fixed-term lectureship in Politics.

Several members of the faculty resigned to take up chairs elsewhere — Professor M. S. Henderson at Adelaide University, Dr C. B. Schedvin, the chair of Economic History at the University of Melbourne (as from May 1979) and Dr P. Dixon, the chair of Economics at La Trobe University.

Many members of staff took part in seminars and conferences held in Australia and overseas, and several short courses and seminars were held at Monash.

As in previous years, a number of distinguished visitors contributed to the work of the faculty.

Diploma in Operations Research

During the year, a graduate Diploma in Operations Research was approved to begin in 1979. The diploma is designed for graduates of the faculty or of other faculties who have a quantitative background. The course occupies one year full-time or two years part-time study and will consist, initially, of seven units of coursework offered by the department of Econometrics and Operations Research.

Technical facilities

In 1978 a number of major additions to the faculty's computer facilities were made. The facilities now incorporate (i) sixteen computer terminals working to the University's Burroughs B6700 computer; (ii) a Digital Equipment Corporation VAX 11/780 computer which when installation is complete will support a further thirty-two terminals; (iii) three DEAMON/ECS mark-sensed card microcomputers and two Cromemco microcomputers. These systems, together with a range of powerful software packages now available, provide the faculty with considerably enhanced research and teaching facilities.

Prizes and bequests

The faculty was offered a prize of \$100 per annum for the best student in a Marketing subject by the Australian and New Zealand Marketing Association. The faculty agreed that the prize should be awarded to the best student each year in the unit MA637 Strategic Marketing, a unit available in the Master of Administration course.

A sum of \$2000 was left to the faculty by the late Sol Kosky and under the terms of the will the principal and income may be used to pro-

vide prizes for scholarships or to purchase books or equipment to assist the advancement of studies directed towards international economics and political problems. The Faculty Board agreed that the principal should be invested and the income be used for prizes or other activities directed towards international economics and political problems.

Faculty library

Usage of the faculty library, particularly by staff, continued at a relatively high rate and is reflected in the loan of current material.

Seminars on the use of indexing and abstracting services were arranged and presented to Masters students in the departments of Economics and Accounting and Finance as well as to the Honours students. Again it was found to be useful in introducing students to services of which they were previously unaware.

The library acquired on microfiche the *Public Records Series* of the United States Financial Accounting Standards Board and the microfiche series on *Australian Company Annual Reports* produced by the Australian Graduate School of Management of the University of New South Wales.

Faculty of Education

Dean: Professor P. W. Musgrave, M.A., Cert.Ed. (Cantab.), Ph.D. (Lond.), F.A.S.S.A.

Students

There were 1547 students, who counted as 1231 E.F.T.S., enrolled in the faculty on 30

April 1978. The details given below relating to these totals indicate the main directions of the teaching undertaken during the year.

	Number of Students	E.F.T.S.
Diploma in Education	452	369
Bachelor of Special Education	63	63
Diploma in Educational Psychology	66	34
Bachelor of Education	357	157
Master's by Course Work	408	384
Master's by Research	149	158
Doctor of Philosophy	52	66

These figures document a continuance of the policy adopted in 1975 whereby the faculty puts more emphasis upon research degrees and higher professional training and, without abdicating this field, focuses less upon initial teacher training. In relation to this last area for the first time a system was introduced to enable students to defer entry to Diploma in Education for one year: this enabled some twenty students to test their vocation for teaching by working outside the profession prior to starting their training; half of those who deferred have decided not to undertake teacher training.

At the start of the year students were able for the first time to enrol for the new degree of Master of Educational Studies: the high numbers of new enrolments and of those transferring from the course work version of the Master of Education, now to become a degree gained only by thesis, has shown that there is a strong demand within the profession for high-level professional training.

Staff

During the year there has been a number of new appointments. Amongst those who have left the faculty was Dr R. S. Laura who has accepted a chair of Education at the University of Newcastle (N.S.W.). Two problems have been met in relation to staffing the faculty in 1978. First, for some time now the faculty has had difficulty in appointing persons with both academic and practical competence in the field of educational administration, because usually only those with some seniority have had the chance to gain the necessary experience and they are unwilling to accept the level of salary that we can offer. Second, until this year the faculty had had the services of the equivalent of some 14 staff seconded by the Education Department to assist in teaching practical courses in the Diploma in Education, but for 1979 these secondments have been reduced to 5 staff and will probably be phased out in 1980. This reduction has entailed much forward planning during 1978.

Curriculum

Amongst the many minor changes that inevitably occur year by year in the courses in any academic institution three major changes stand out in the faculty.

The first has already been referred to, namely the introduction of the new degree of Master of Educational Studies. This degree aims to provide professional training at a high level to serving teachers and administrators through a series of specified programmes or through an approved course chosen to meet the needs of individual students.

The second major change has been that arrangements have been made to offer the Bachelor of Special Education on a part-time basis. Although the faculty had plans to make such facilities available in the near future the change had to be made during 1978 because the arrangements whereby serving teachers were seconded full-time to work for this degree were severely curtailed. This change has had major implications upon the organisation of the Krongold Centre.

A third development was the introduction of a Summer School for Bachelor of Education teaching during January. Six subjects were offered to 80 students, half of whom undertook two subjects. These arrangements were organised on a trial basis for 1978, but were so successful that they are now seen as a regular feature of the faculty's offerings, enabling many students to complete their Bachelor of Education degree more quickly and also opening up the opportunity of further education to teachers serving in the country who can not reach Melbourne during school term time.

Professional and public service

Despite the worsening staff-student ratio in the faculty due to the current financial stringency academic staff continue to serve on many professional committees and to give advice to schools and other educational in-

Dr Gilbert Best (faculty of Education) and audiologist Dorothy Moore test the hearing of a child at the Krongold Centre for Exceptional Children. Dr Best has been researching the common childhood problem of infection of the middle ear.



stitutions. Amongst the many who were involved in such work in 1978 Professor R. J. W. Selleck served on the Federal Educational Research and Development Committee and Dr A. Gregory served as a member of the State Committee inquiring into Teacher Education.

One innovation in the field of community service in 1978 was that the faculty took part in the work experience programme of a local high school, providing work in the Educational Services Centre for four secondary students for a week in each case.

Visitors

Within a tighter budgetary situation and anticipating a more stringent programme of student leave the faculty has continued to allo-

cate funds to bring visiting lecturers from overseas. In 1978 Associate Professor Pauline Jones (Memorial University, St. John's) taught courses in Educational Psychology, Ms Brenda Cohen (University of Surrey) in Philosophy of Education, and both Ms Joyce Watt (Aberdeen University) and Mr W. B. Tyler (University of Kent) in the Social Foundations of Education.

Research

Much research is being undertaken by staff and students into many aspects of education. Staff have received grants from various sources including the A.R.G.C., E.R.D.C., and C.D.C., as well as such commercial donors as Channel 7. In addition, a growing source of funding has been through con-

tracts awarded to members of the faculty by schools, tertiary institutions and other educational bodies for the purpose of providing answers to problems within the specific organisations concerned. This growth has sparked off considerable discussion within the faculty about the relative weight to be given, on the one hand, to research initiated outside the faculty and, on the other hand, to research initiated by members of the faculty. After considerable discussion the faculty decided that the present balance is about right. The faculty does not wish to find itself in a position where most of the problems that its members are studying are dictated to it by interested external bodies.

Support services

Particularly because of the increased emphasis put by the faculty upon higher professional training during 1978, a somewhat higher proportion of our funds has been spent upon equipping various support services. In particular, the Educational Services Centre within the faculty has been reorganised, has recatalogued its holdings and has been able to purchase a quantity of needed book and non-book items. Considerable efforts have also been made to complete the installation of the audio-visual equipment in the Krongold Centre, a facility rendered particularly important by the new part-time Bachelor of Special Education.

Faculty of Engineering

Dean: Professor L. A. Endersbee, B.C.E., M.E. (Melb.), F.I.E.Aust., F.A.S.C.E., M.Aust.I.M.M.

Student entrance

In 1978, the Engineering Faculty Board reduced the quota for entry into first year engineering by 100 students from 360 to 260. For a few years now the faculty has had difficulty in attracting a sufficient number of students with potential ability to pass the courses, and pass rates in first year have been less than 70 per cent. With the reduced quota, a greater proportion of first year students will be able to cope with the course. Even so, there is an unsatisfied demand for our graduates in all disciplines in engineering, and every indication that there will be a serious shortage of engineers in Australia over the next few years.

The proportion of high school students taking subjects appropriate for entry to engineering is also lower each year. The proportion of sixth form class taking two mathematics, physics and chemistry has declined from 25 per cent in 1969 to 15 per cent in 1977, revealing a serious retreat from basic

disciplines. As mentioned in our report last year, the faculty cannot readily accept students deficient in mathematics and science, and take them into first year alongside students competent in mathematics, physics and chemistry; failure is the inevitable consequence. The difference in capability, with able students, is at least one full year of disciplined study at sixth form level.

To a certain extent the faculty has been shielded from the impact of changes in H.S.C. subject selection by virtue of the large number of Asian students taking Victorian H.S.C. examinations in mathematics, physics and chemistry with a view to entry into Victorian universities.

Two years ago the Engineering Faculty Board established a Committee on Engineering Prerequisites and First Year Course Structure to investigate how the faculty should adapt to this changing pattern of H.S.C. for which fifty-five subjects are now available. The committee reviewed the content of first year subjects, and decided that

our first year courses in mathematics, physics and chemistry should be retained at present standards, but that provision should be made for students entering with H.S.C. General Mathematics to undertake a special mathematics programme. This new programme was introduced in 1978, but with

only moderate success. It is becoming increasingly evident that students without a strong background in mathematics and science require an additional full year of study before commencing first year. It may be necessary for the faculty to introduce a 'preliminary year' for such students.

Undergraduate studies

The total number of undergraduates in the faculty in 1978 was 825, divided among the five departments as shown in the table.

Undergraduate Enrolment as at 30 April 1978
(1977 figures in brackets)

	1st year	2nd year	3rd year	4th year	Total
First year	285 (283)				285 (283)
Chemical		13 (19)	21 (29)	21 (16)	55 (64)
Civil		61 (81)	71 (78)	74 (78)	206 (237)
Electrical		61 (52)	34 (30)	23 (40)	118 (122)
Materials		16 (7)	7 (14)	10 (11)	33 (32)
Mechanical		45 (73)	52 (34)	31 (36)	128 (143)
Total	285 (283)	196 (232)	185 (185)	159 (181)	825 (881)

Postgraduate coursework

A major development in the faculty in the previous year (1977) was the introduction of a wide range of postgraduate units for the degree of Master of Engineering Science by coursework and minor thesis. The courses are designed for practising professional engineers looking to professional development by further study on a part-time basis; the subjects are offered mainly in the late afternoon and evening during term, and students will normally take three years or so to complete the courses.

The coursework programme developed further in 1978 in the number of subjects offered and students enrolled. The creation of these extensive and intensive Masters coursework programmes within two years is a

credit to all the staff involved, but has resulted in considerable strains. It is hoped that the strains will lessen now that much of the developmental phase is over.

A total of 102 students were enrolled in the Masters coursework programmes in 1978. There were 67 students the previous year.

Honours, degrees and awards

The faculty is pleased to record that Sir John Holland and Sir Charles McGrath were awarded honorary degrees of Doctor of Engineering by the University. These two gentlemen have made outstanding contributions to civil engineering and manufacturing in Australia.

The faculty is pleased to report that Professor Polmear was elected a Fellow of The

Dr George Rozvany (r) and research worker Dr Robin Hill (faculty of Engineering). The screen read-out shows a detailed plan of a roof designed by the computer. Working with the German Aerospace Institute, Dr Rozvany has harnessed computers to assist in the design of long span surface structures.



Australian Academy of Technological Sciences.

During 1978 there were 105 graduates enrolled for higher degrees by research.

Research and publications

All departments have continued to maintain a high level of research output despite the strains of the introduction of the new programmes of postgraduate coursework. Over 160 learned papers and two books are recorded for 1978.

Buildings

For the past few years the faculty has been short of lecture and tutorial rooms. The new lecture theatre block was completed during the year, containing one 77-seat theatre and one 44-seat theatre. The new theatres are especially well-suited for later-year under-

graduate classes and postgraduate courses. There is still a need for three additional small tutorial rooms.

The faculty's proposal for a new Hydraulics Laboratory, particularly for research in ocean, coastal, estuarine and river engineering, was included in the University's submission for the 1979-1981 triennium, but regrettably, the proposal was not selected for funding. The faculty is providing increasing research support to firms and government agencies concerned with off-shore and coastal projects, as well as conducting significant research and teaching in these fields. The proposed laboratory is needed to assist all these purposes.

Several years ago the Universities Commission approved the construction of Building 7, the final major building in the original development plan for the faculty; the project did not proceed because of curtailment of government spending at that time. Building 7 is primarily to house the department of Civil Engineering and remains a high priority need for the faculty.

Faculty budget

The faculty has been particularly hard pressed for funds in both 1977 and 1978. The total funds available have barely covered basic salary commitments, leaving relatively little for stores, materials and equipment. Nevertheless, the faculty is maintaining the academic teaching and research programmes, and economising in all other areas where possible.

Advisory, consulting and professional activities

Many members of the faculty are actively involved in councils and committees of learned

societies, and several serve on editorial panels of learned journals.

Professor Crisp is chairman of the College of Mechanical Engineers, and of the Task Force on Manufacturing, a national inquiry initiated by the Council of The Institution of Engineers, Australia. The dean is completing a second term as chairman of the General College of Engineering, and is senior vice-president elect of The Institution of Engineers, Australia. He was also chairman of the Task Force on Energy which completed its work in 1978.

There continues to be considerable call on departments and members of the faculty to advise and assist governments and industry, and to conduct research, carry out engineering studies and to participate in committees.

Professor Hunt has been appointed a part-time Commissioner of the Health Commission of Victoria, and was also elected deputy president of the Victoria Institute of Colleges. The dean is a member of the National Energy Advisory Committee, and is chairman of the Standing Group concerned with general energy matters and energy conservation. The dean and members of the faculty have also been called upon to advise the Victorian Parliamentary Committee of Inquiry into Conservation of Energy. The dean is a review consultant for the Drakensburg Underground Power Station in South Africa, and with Savage River Mines in Tasmania in connection with the large open pit mine. Savage River Mines are also endowing a post-graduate scholarship in the faculty for research into stability of rock slopes.

Within the University the dean is chairman of the University's Conservation of Energy Committee; Associate Professor Williams is chairman of the Sub-Committee on Heating, and Associate Professor Bonwick is chairman of the Sub-Committee on Lighting and Power.

Faculty of Law

Dean: Professor P. G. Nash, LL.B. (Melb.), LL.M. (Tas.)

Students

As at 30 April 1978 there were 1638 students enrolled in the faculty giving a faculty E.F.T.S. figure of 1168.

The breakdown of actual enrolments as at 30 April 1978 is as follows:

	Full-time	Part-time	Total
B.Juris/LL.B	350	138	488
B.A./LL.B.	374	39	413
B.Ec./LL.B.	434	38	472
B.Sc./LL.B.	85	4	89
	<hr/>	<hr/>	<hr/>
	1243	219	1462
Diplomas	—	9	9
LL.M. by major thesis (prelim.)	1	3	4
LL.M. by major thesis	1	7	8
LL.M. by coursework and minor thesis	23	80	103
Ph.D.	1	9	10
	<hr/>	<hr/>	<hr/>
	26	108	134
Not for degree	3	39	42

Staff

The equivalent academic staff (E.A.S.) of the Law School in 1978 was 74.6 (including casual staff). Actual appointments as at 30 December 1978 numbered 72 persons.

The dean was overseas for three months from early August and during that period Professor R. Baxt was acting dean of the faculty.

The faculty continues to be strongly represented on professional bodies both at Federal and State level.

Visitors

The Law School entertained a number of visitors from all branches of the profession. Many of these came to the Law School for

short periods and gave lectures or conducted seminars for students or staff. Three visitors came for longer periods.

Emeritus Professor E. J. Sykes of the University of Queensland Law School, who joined the faculty for a period of three months on 21 November 1977, made a major contribution to the teaching of the Law of Employment during the 1977-78 summer term. Mrs S. Maidment, senior lecturer in law at the University of Keele, accepted a visiting fractional lecturership in the faculty for the second half of 1978 and took a major part in the teaching of Poverty and Social Security Law as well as being involved in the teaching of Family Law. Professor J. D. McClean of the University of Sheffield was a visiting professor for 1978 and gave lectures in Children and Parental Rights, Administration of Criminal Justice, Conflict of Laws and Family Law. He delivered the seventh Wilfred Fullagar Memorial Lecture on 3 September 1978.

Undergraduate programme

In 1978 a major curriculum review by a special committee under the chairmanship of Professor E. M. Campbell was instituted. It is hoped that one of the products of this curriculum review will be a restructuring of the Bachelor of Jurisprudence (B.Juris.) degree to make it a more attractive first degree, both to students and to potential employers.

In May 1978 the Council of Legal Education decided to discontinue its law course conducted at the Royal Melbourne Institute of Technology. No new students will be admitted in 1979 and the course will be phased out. As a consequence, the faculty and Council have approved an increase in the Law faculty quota for 1979 from 320 to 370. It is not anticipated that this increase will have any significant effect on the standard of students entering the Law faculty.

The Moot Court, the Honourable Mr Justice Thompson presiding, gives law students valuable experience in the preparation and presentation of court cases.



Mounting concern has been expressed at the problems which law graduates face in obtaining Articles of Clerkship and, in the early years after admission, employment as solicitors. Two studies, *Victoria's Lawyers* published by the Victoria Law Foundation in 1978 and a *Labour Market Analysis of the Legal Profession 1978-1982* published by the Department of Employment and Industrial Relations, both indicate that in the short term the problem relates to the placement of inexperienced graduates rather than to an over-supply of lawyers to meet present community needs. It may be that, in the long term, with changes in the nature of legal practice and of the skills required of the average practitioner, it will be necessary for this faculty and other Australian law schools to set higher standards for their graduates. The present employment situation for Bachelor of Laws (LL.B.) graduates seems to suggest that the B.Juris. degree, if clearly seen as a first degree awarded after a strong general education

containing a carefully arranged core of basic legal studies, would be well received in the graduate market place.

Clinical legal education

Demand for places in the clinical subject, Professional Practice, has continued to exceed supply. Budgetary recognition of the needs of the clinical programme in 1978 enabled the programme to grow and develop both effectively and efficiently with the appointment of an administrative assistant to coordinate the Springvale Legal Service aspect of the course.

The Student Legal Advice Service has now grown to the stage where it requires new accommodation. The decision of the Development Committee to make space available in the former Marist College will help to relieve space problems in the Law School and to improve the quality of the service available to students. The development of the pro-

gramme during 1978 owes much to the drive and organising ability of Associate Professor Connell, Mr C. Powles, and Mr H. Reicher.

Summer teaching

The experiment with summer teaching for undergraduates over the 1977-78 long vacation proved highly successful. A total of 205 students enrolled in the eight subjects offered. The actual enrolments in each of the subjects taught were as follows:

Administration of Estates	68
Banking and Negotiable Instruments	24
Maritime Law	6
Death, Gift and Stamp Duties	19
The Law of Employment	61
The Lawyer	103
Succession	84
Professional Practice	36

Summer teaching has once again been approved by the Professorial Board for 1978-79 long vacation. A total of twelve subjects will be taught during the 1978-79 summer including one Master of Laws subject. The programme of year-round teaching continues to be popular both with staff and with students.

Graduate studies programme

The graduate programme maintained its important role in the life of the faculty. The number of students enrolled in the Master of Laws by coursework and minor thesis exceeded 100 for the second year.

In 1978 our first graduate from Papua New Guinea completed the Master's course. He held a Monash Postgraduate Award which had been specifically set aside for a candidate from Papua New Guinea. Two other Monash Graduate Award holders became the first of our Masters' graduates from Japan and Uganda. The faculty wishes to acknowledge the importance of the contribution which the overseas graduate students make to the life of the faculty and to emphasise the importance of the funding provided under the Monash Postgraduate Award programme.

The other major development in the graduate programme in 1978 was the successful introduction of the graduate Diploma in Commercial Law pursuant to the Diploma in Law regulations adopted in 1977. For the first time the faculty has been able to make its graduate courses available to highly qualified professionals who are not law graduates.

The graduate programme was also added to the 1978-79 summer teaching programme and the subjects Banking Law, Economic Regulation, and Environmental Law were conducted during that period. The graduate programme therefore joins the rest of the faculty in operating on a year-round basis.

The Leo Cussen Institute

During 1978 new agreements were worked out between Monash University, the University of Melbourne and the Leo Cussen Institute, which will enable the Leo Cussen Institute for Continuing Legal Education to receive from the Federal Government, through Monash University, the funds necessary to maintain its Legal Practice course. The funds received from the Tertiary Education Commission will be earmarked funds and the University will not be responsible for making up any shortfall between the amount of the grant and the needs of the Leo Cussen Institute.

Continuing legal education

The continuing legal education programme of the faculty continues to make a significant contribution to professional education. The faculty, in conjunction with the Law Council of Australia and other university law schools, conducted the second National Summer Seminars in January 1978. Unfortunately the Summer Seminars in 1978 were not as successful as the 1977 Seminars. It is proposed that no National Summer Seminars should be held in 1979 but that a series of seminars should be mounted in May 1979.

In addition to the National Summer Seminars, the Law faculty in 1978 conducted

(jointly with the Taxation Institute of Australia) a series of evening seminars on Recent Developments in Taxation and a series of nine evening lectures on Company Law (jointly with the University of Melbourne Law Faculty and the Leo Cussen Institute for Continuing Education). The Law faculty, either alone or in collaboration with other professional bodies or the Monash Centre for Continuing Education, has conducted a number of one-day and two-day seminars on topics of current legal interest, including seminars on Law and the Aborigine, European Community Law, Trade Practices, Tax Planning, Teaching Law in Schools, Recent Tax Anti-Avoidance Legislation, Stamp Duty, Primary Production and Taxation. It also conducted, at the request of the Victorian Attorney-General's Department, a workshop on the proposed Consumer Credit Legislation then before Parliament.

Law Library

Early in the year, on behalf of the Australian Institute of Criminology, the library compiled and edited a union list of criminological periodicals held in Australia. Union lists of law reports and statutes should be completed by the end of 1978. This will expedite inter-library loans work and make it possible to assess Australian holdings of these materials with a view to rationalising acquisitions policies.

A grant of \$3000 from the Japan Foundation will be used to purchase Japanese law reports. Additional grants from the faculty and from general library funds enhanced the original budget for 1978 and permitted the Law Library to make a number of significant acquisitions including a complete back set of American Maritime Cases and a number of important German primary source titles.

Research and publications

Research in the faculty of Law during 1978 has covered a broad spectrum. Few areas of

law have not been the subject of research and comment by members of staff. The emphasis of this research highlights the present faculty strengths in the areas of Comparative Law, International Trade Law, Taxation, Company Law, Commercial Law and Economic Law generally, Family Law, Criminal Law, Procedure and Evidence.

Members of the faculty have during 1978 published, either alone or in collaboration, a total of fourteen books, a publication record that has not previously been equalled by this faculty and which must be unique in Australian law schools.

Mr J. Epstein received a major research grant from the Department of Transport to undertake research on the legal implications of frangible poles. Dr M. D. H. Smith received a generous research grant from the Australia-Japan Foundation to undertake further research in the area of Japanese law and its effects in Australia. Professor C. G. Weeramantry received an A.V.C.C. Visiting Fellowship to carry out research on human rights in Japan.

The year as a whole

The year 1977 was a year of change: the year 1978 has seen those changes develop. The new initiatives in relation to clinical studies and summer teaching have been developed and rationalised. New initiatives by the Law Institute of Victoria, by the Law Council of Australia and by the Australian Legal Education Council and the publication by the Victoria Law Foundation of the Report, *Victoria's Lawyers*, have all led to a closer examination of the role of the law schools in educating school leavers both generally and for membership of the profession. The role of the Monash Law faculty in all these developments has been, and is, a highly significant one. It is anticipated that in 1979, partly as a result of work done by members of this faculty, solutions to many of the problems which at present face legal education in Australia will begin to emerge.

Faculty of Medicine

Dean: Professor G. C. Schofield, M.D., Ch.B. (N.Z.), D.Phil. (Oxon.), F.R.A.C.P., F.A.C.M.A.

Students

There were 963 medical undergraduates distributed as follows: year I, 166; year II, 164; year III, 165; year IV, 140; Year V, 162; year VI, 164; B.Med.Sc. 2.

Female entrants comprised 36 per cent, as against 37 per cent in 1977.

Of the 1501 students in the faculty, 538 were from the faculty of Science.

Staff

Academic staff comprised 152 full-time and 48 part-time members.

Professor A. K. McIntyre who was appointed foundation professor of Physiology in January 1962 retired at the end of the year. During his years at Monash University he established an outstanding department of Physiology and one of the most important neuroscience centres in Australia. A scientific meeting, attended by academic colleagues and former students throughout Australasia and also from overseas, was held in his honour at Monash University in December.

Dr M. Kidson, department of Psychological Medicine, and Dr M. J. Robinson, department of Paediatrics, both of whom contributed in a most important way to faculty activities, resigned during the year. Dr Kidson continues however to be associated with the faculty through his appointment as a member of the Visiting Medical Staff at Queen Victoria Medical Centre.

The University Council at meeting 2/78 held on 10 April approved the establishment of a Centre for Early Human Development and the appointment of a director. We were fortunate to attract Dr J. E. Maloney to this position, and he took up his duties on 1 August. Dr Maloney was formerly head of the Developmental Biology Research Unit at the Baker Medical Research Institute.

During the year Mr Geoffrey Chamberlain (consultant obstetrician and gynaecologist at Queen Charlotte's Hospital for Women in London) spent a month with the department of Obstetrics and Gynaecology; Professor Cyril Greenland (School of Social Work at McMaster University, Hamilton, Ontario) visited the department of Psychological Medicine; Dr S. M. Goldberg (professor of Clinical Medicine and director of the Division of Colon and Rectal Surgery, University of Minnesota) visited the department of Surgery; Professor Robert Lannigan (department of Pathology, Calgary University, Alberta, Canada) visited the department of Pathology and Immunology; Professor Lawrence B. Sandberg (department of Pathology and Surgery, Medical Centre, University of Utah) and Professor S. Ito (department of Anatomy, Harvard University) visited the department of Anatomy.

Professor Charles E. Engel (Associate Professor of Medical Education and Programme Evaluation in the faculty of Medicine, University of Newcastle) delivered a faculty lecture on 20 July on *Assessment in the Faculty of Medicine at Newcastle*. This was the first of a series of annual faculty lectures on medical education.

Dr N. J. Gray was appointed a Member of the Order of Australia in the Queen's Birthday Honours, for his services to medicine, particularly in the field of cancer. Professor V. C. Marshall accepted an invitation from the Council of the Association of Surgeons of Great Britain and Northern Ireland to be the *British Journal of Surgery* visitor for 1979. Professor R. C. Nairn has been reappointed Honorary Consultant in Cancer Research to the M. D. Anderson Hospital and Tumour Institute, University of Texas System Cancer Centre, Houston, Texas. Associate Professor J. Nayman was awarded a Hunterian Profes-

sorship by the Royal College of Surgeons of England for 1979. The dean was elected a Fellow of the Australian College of Medical Administrators.

Associate deans were appointed as follows: Campus — January 1978 to June 1978 — Professor D. A. Lowther, July 1978 to December 1978 — Professor J. Bornstein; Downtown — January 1978 to December 1978 — Sir Edward Hughes.

Centre for Early Human Development

University approval has been granted for the establishment of a Centre for Early Human Development and for the appointment of a director for the centre, which shares with the departments of Obstetrics and Gynaecology and Paediatrics accommodation in the Robert Menzies Building at the Queen Victoria Medical Centre. Staff in the centre number approximately twelve and research activities are maintained by outside funding. The centre has already established firm and effective links with the two host departments and also with other departments in the University.

Community Practice Teaching Unit

Construction of the Community Practice Teaching Unit at Moorabbin Hospital was completed at the end of 1978 and now houses the Section of Community Practice. During 1978 doctors in the Moorabbin area were invited to apply for appointment as members of a teaching practice associated with the unit. Following receipt of applications, Doctors R. C. Christiansen, N. Cowling, R. I. Faragher, R. M. Fredman, J. K. McDonald and A. T. Rose were invited to constitute the teaching practice for the Community Practice Teaching Unit. The teaching practice which is now in operation is the first of its kind in Victoria; it has a close and effective association with the Section of Community Practice, and the teaching complex is likely to exert a marked influence on standards of community practice in the years ahead.

Medical alumni

A number of meetings have been held with representatives of the graduating classes of 1966, 1967 and 1968 and a consolidated list of all medical graduates and their addresses is being compiled. The proposal has evoked much interest and it is expected that all available graduates will be invited in 1979 to accept membership of the alumni.

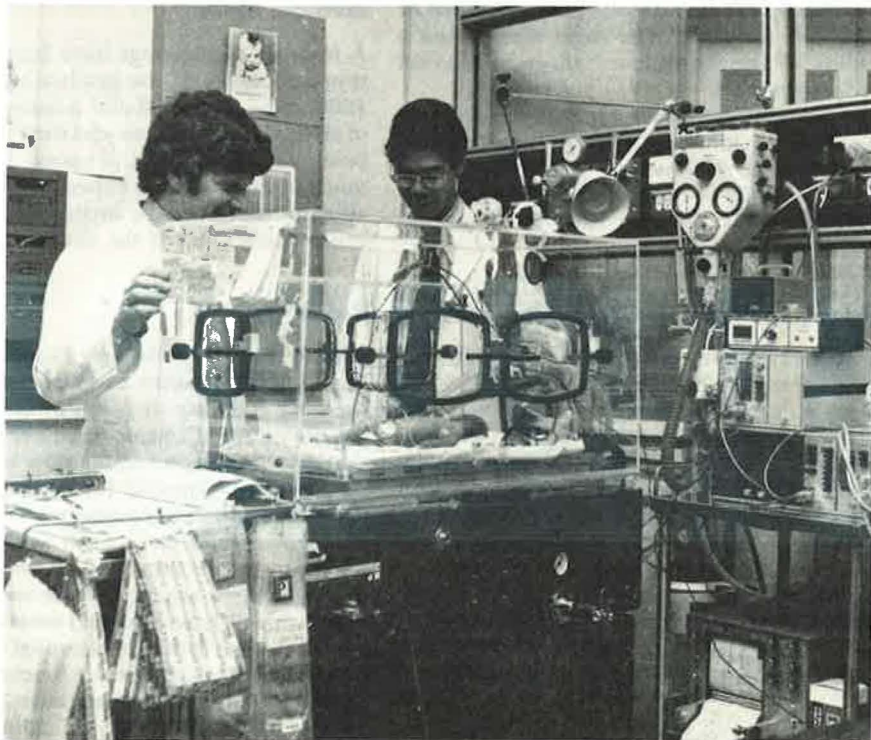
Buildings

The occupation of the new Physiology building and the Anatomy extension has enabled the long standing problem of space for the preclinical departments to be overcome. For the first time departments now have an opportunity of planning for orderly development of graduate programmes. A number of problems remain to be dealt with before the buildings can be regarded as completed but the space requirements of the users and the faculty needs have been met most satisfactorily. The space formerly occupied by Physiology will be available for the Biochemistry department once alterations have been completed. The opportunity of upgrading this accommodation and making good defects which have arisen as a consequence of overcrowding over a period of many years is greatly welcomed by the faculty. We are indeed grateful that the University has recognised the need for substantial reconstruction in this area.

The decision by the Universities Council to approve the construction of a Microbiology building on campus has important consequences for both the faculty of Medicine and the faculty of Science. The problem of overcrowding in each of the clinical schools at Alfred and Prince Henry's Hospitals and the Queen Victoria Medical Centre is no less acute than that experienced on campus before 1978. Some relief at the Medical School building at Alfred Hospital was obtained by arranging for student residential accommodation at Alfred House. This arrangement

Dr John Maloney (l) with Dr Victor Yu, director of Queen Victoria's special care nursery, monitoring the progress of a premature baby. Dr Maloney is director of The Research Centre for Early Human Development

which was formed in the middle of the year. The Centre directly involves the departments of paediatrics and obstetrics and gynaecology, as well as the Queen Victoria special care nursery.



permitted some modest expansion for para-clinical and clinical departments and some further relief will follow relocation of part of the department of Microbiology on campus.

Queen Victoria Medical Centre

In the past the centre has faced a number of difficulties arising out of uncertainty as to when it is to be relocated at Clayton. On 19 September the Minister of Health advised that construction of a hospital to replace the existing centre would not commence until after completion of the Austin Hospital and, in any case, not earlier than 1983. Further, he stated that a hospital of some 300 beds built as one stage would be appropriate to the needs of the area having in mind other hospital

developments for the south-east metropolitan area. The Minister saw a hospital of this size as providing the acknowledged special needs of the University for teaching in Obstetrics and Gynaecology and Paediatrics.

Representatives of the University and the Queen Victoria Medical Centre met with the Chairman and Secretariat of the Health Commission to discuss the consequences of the Minister's announcement. It was made clear at that meeting that the construction of a 300 bed hospital at Clayton would permit the relocation of only part of the present clinical school at the Queen Victoria Medical Centre and if restricted to that bed number would preclude the development of a comprehensive referral centre for the south-eastern metropolitan area. The representatives were

assured that a comprehensive review of the position would be carried out by the commission as a matter of urgency.

The final examination in Medicine

In 1978 a number of changes in the procedure of examining were introduced. The number of examiners involved in the clinical examination was reduced so that each examiner was able to assess more candidates. Clinical examinations were conducted at the Alfred, Prince Henry's and Royal Southern Memorial Hospitals and at the Queen Victoria Medical Centre. The Board of Examiners which reviewed the whole examination included representatives from the University departments and teaching hospitals who had been extensively involved in the examination. As a consequence of recommendations by this board still further changes will be introduced in 1979 but it is a matter of considerable satisfaction to be able to report that the examiners commented on the very high standard of performance achieved by the final year students.

Expansion of facilities for clinical teaching

During 1978 arrangements were made for fifth year students to attend the Western General Hospital for training in obstetrics and gynaecology as from January 1979. The number of deliveries at that hospital is greater than at the Queen Victoria Medical Centre (not including those at the Jessie McPherson Hospital). This arrangement, together with others made with the William Angliss, Bendigo and Northern District, Cab-

rini, Goulburn Valley Base, Shepparton, Moorabbin, Mordialloc-Cheltenham and Sandringham Hospitals, has led to a substantial increase in the opportunities for training in obstetrics and gynaecology for our students. The Western General Hospital has also agreed to enter into negotiations with a view to full affiliation with Monash University as from 1980, permitting attendance at this hospital by students studying all clinical subjects; these arrangements have been made with the agreement of the University of Melbourne.

It is important that the faculty of Medicine should be in a position to react to any change in the pattern of activities of the major teaching hospitals which in their role as major referral centres increasingly are involved in medical care at a level better suited to post-graduate rather than undergraduate training. While the large teaching hospitals will continue to provide the major opportunities for undergraduate training there is a need for students to gain experience in peripheral hospitals. Arrangements have now been made for final year students to attend the Royal Southern Memorial Hospital, Frankston and Dandenong and District Hospitals, at each of which residential accommodation for the students has been made available.

Research

The faculty attracted a significant proportion of research funds allocated in 1978 for new projects by the National Health and Medical Research Council (\$635 566) and from the Australian Research Grants Council (\$293 986). Research support from other sources was \$586 344 and total outside research support for the faculty was \$1 515 896.

Faculty of Science

Dean: Professor J. M. Swan, Ph.D. (Lond.), D.Sc. (Melb.), F.R.A.C.I., F.A.A.

Students

The faculty continues to experience problems with the distribution of student enrolments in relation to the existing provision of staff, buildings, and laboratories. This imbalance between the resources provided by the University and the uneven demand resulting from changing student preferences required the imposition of quotas a number of years ago in several first-year subjects (Biology, Life Science, Geology, and Psychology). The faculty is examining ways in which this situation might be improved, while still allowing the maximum degree of choice to students in their first year. One possible solution under discussion would be to have two sub-quotas for entry into the faculty, one for students wishing to concentrate on the physical (and mathematical) sciences, the other for students wishing to major in the biological sciences, with only limited opportunity for transfer from one stream to the other. In such a scheme, some subjects would clearly have to belong to both streams.

Teaching and laboratory space

In the forthcoming year Computer Science 101 will be introduced as a new first-year subject, and a quota of 150 places has had to be set, as enrolment interest is expected to be high. As a consequence of this extra commitment by the department of Computer Science, and also because of an expanded interest within the department of Mathematics in using computers in the teaching of that subject, a major re-arrangement of staff rooms has been undertaken by the department of Physics to make space available for computer science teaching and tutorial work. The Computer Centre is also involved in these new programmes and the benefits will be felt by students throughout the University.

Increasing numbers of students in other faculties, especially Engineering, and Economics and Politics, are interested in taking courses involving some instruction in computing. We are most grateful to the department of Physics for their co-operation in the matter.

Work commenced on the provision of urgently needed laboratory space for the department of Genetics by partly filling in some of the space presently 'in shell' on the sixth floor of the Biology building. The faculty is grateful that funds were found within the University for this purpose. The Geophysical Fluid Dynamics laboratory of the department of Mathematics was also moved during the year from temporary quarters in the Engineering faculty to an area formerly used as a store by the department of Physics.

Staff

Professor R. W. Cumming, who was appointed to the second chair of Psychology on 1 June 1971, resigned at the end of 1978 to accept appointment as Director of the Caulfield Institute of Technology. In the face of current restrictions on the University budget and the need to retain maximum flexibility, the faculty, on the advice of the department, decided not to fill this chair but rather to use the funds to appoint a lecturer and a tutor to the department of Psychology. Professor B. O. West acted throughout 1978 as part-time Pro-Vice-Chancellor in association with his duties as Professor of Inorganic Chemistry. Professor M. J. P. Canny concluded his term as associate dean in June, and has been succeeded by Professor H. C. Bolton, who is also the current chairman of the department of Physics.

Professor P. D. Finch continues to serve as acting associate dean as required. Mrs Betty Cumming retired from the (part-time) posi-

tion of sub-dean in September and reverted to a full-time senior lectureship in the department of Mathematics. The faculty is most grateful to Mrs Cumming for her outstanding and pioneering contribution as sub-dean. This post has now been filled by part-time secondment of Dr Stella Crossley from the department of Psychology. Professor J. M.

Swan has completed his third year as dean. He has continued to represent the University on the Australian-Asian Universities Cooperation Scheme, on the Council of the Victorian Institute of Marine Sciences (as Deputy President) and on the Executive of the Victorian Universities Admissions Committee.

Library

Librarian: Mr T. B. Southwell, B.A. (Syd.), A.L.A.A.

In retrospect, 1978 was a busy and a satisfying year, quite contrary to expectations. The government-imposed limitation on the carry-forward of funds from year to year imposed an unexpected urgency in the commitment and actual expenditure of the money available. Staff members were quite extensively re-deployed in order that purchasing decisions and action could be speeded up without being mindlessly rushed. Wherever possible funds were devoted to projects which reduced rather than increased the commitment for the future; these included the 'paying-out' of subscriptions to large purchases and such labour-intensive jobs as the badging for automatic data entry of all books in the undergraduate, Hargrave and Biomedical Libraries.

This last job had started in November 1977. The whole undergraduate library collection was processed by the beginning of first term, and library staff had worked with student records personnel to fix machine-readable badges to all re-enrolling students' identity cards. The Plessey light pens and monitoring equipment were in operation in the Main Library by February and with virtually no problems the system and its interface with the well-tried computer back-up went into operation in March. Users were pleased at the ease of borrowing and the accuracy, staff were happy at the control of wanted books and defaulting borrowers, and key-

punch operators were released, either not replaced or re-assigned to the processing of new material and material from the Hargrave and Biomedical Libraries. Badging of books in these two libraries took place during vacations, and was completed before the end of the year, for equipment installation early in 1979.

In addition, an agreement was concluded to permit S.C.V. Rusden to use the central facilities, both hardware and software, and enquiries have been received from S.V.C.s at Burwood and Toorak. It is most encouraging to see the investment in equipment and manpower being shared and providing a useful return.

On a wider front, solid progress was made by CAVAL, the cooperative library agency set up under the aegis of the Victorian Universities and Colleges Committee. An interim director and a small staff were appointed, and the organisation was registered as a company. Of more immediate interest, important work was done in identifying the cataloguing support needs of the twenty-eight libraries concerned, and such agencies as could be called on to meet those needs. Tenders have been called for an interim system, and it is hoped to be servicing at least some of the member libraries by mid-1979. Monash has long been associated with the scheme, and it is therefore not surprising that calls have been made on Monash staff to assist in many ways.

The Centre for Migrant Studies and the University Library have announced the establishment of an Ethnic Heritage Collection. Acting chairman of the Centre, Associate Professor Michael Clyne, holds a copy of *The English and Chinese Advertiser*, published on the goldfields in 1857.



CAVAL's impact has so far been mainly on technical services staff, who are having to re-appraise techniques and even aims in the light of expected changes. Of more immediate interest for reader services people and the library's users has been AUSINET (the on-line information retrieval network) which completed its first full year of operation with a wider range of data bases available, for much more of the time. The service is used heavily in the Humanities and Social Sciences Library; a second terminal has been installed in the Biomedical Library (who are,

of course, already heavy users of MEDLINE) and it is hoped soon to provide access for Hargrave and Law. Improvements in communication announced by O.T.C. and TELECOM make it likely that relatively low-cost access to American data bases will be available in 1979. Reference staff are finding these services invaluable, but there is concern at the time they absorb, as much in preparation for data searches as in the searches themselves.

The year was made difficult for technical services staff by the requirement mentioned

earlier that money should be not only committed but spent by the year's end. After a slow start, this required that a very intense rate of ordering was needed by the period before September to ensure delivery in time. To assist the sadly reduced acquisitions department, staff were transferred temporarily from cataloguing and reader services and casuals hired. It is a tribute to all concerned that the job was carried out with accuracy and care as well as speed, and that those in the depleted departments carried their extra loads with good heart. To put the operation into perspective, the number of orders placed exceeded those in 1977 by 64 per cent.

In cataloguing, too, output was increased despite the heavy losses of time in help to acquisitions and in long service leave and despite the extra work involved in upgrading records to support extensions of the circulation system.

Loans to students were again stationary or slightly lower in all areas except the Biomedical Library; on the other hand staff loans increased by some 18 per cent, the increases being most marked in the Humanities and Social Sciences Library. Total loans were over 534 000 as against 516 000 in 1977. Inter-library loans continued to rise (from 23 234 to 26 799) and borrowings from other libraries fell (from 5903 to 5604). The introduction in August of an interloan 'currency' by the Library Association of Australia should go some way to cover the cost of the photocopies mostly supplied — it may also reduce guilt feelings in libraries who use this library heavily and in fact increase such use.

Reader education activities have been expanded in Humanities and Social Sciences and in Law, but all libraries have now reached what appears to be the limit with present staff numbers. The need for this and other reference services is still expanding, notably with the introduction by both Law and Education of summer schools, both quite heavily library-based.

The general pattern of library provisions to Medical faculty staff located at teaching hospitals has been the co-existence of a hospital library and a sub-branch of the Biomedical Library. Past attempts to rationalise the situation have been fruitless but attitudes have changed with the changed financial climate and discussions at both the Alfred Hospital and the Queen Victoria Medical Centre give some cause for hope. A new library is being established by Moorabbin Hospital, and this is being supported from birth by the Biomedical Library, for the benefit of University staff and students located there. The Biomedical Library has broadened the base of its service to hospital management following receipt of the first instalment of the Kellogg Foundation grant. Effectively two staff members have been employed, the library's holdings have been materially strengthened, and the service is reaching out, initially by personal contact, to the islands of the Pacific.

It was sad that Ms Marea Terry decided to return to Sydney, but her position as Librarian, Humanities and Social Sciences, has been taken by Ms Moira MacKinnon. Ms MacKinnon is currently honorary secretary of the Victorian Branch of the Library Association of Australia, and convenor of the Technical Sub-Committee of AUSINET. Mrs Fay Baker, Biomedical Librarian, serves on the Consultative Committee to the Regional Medical Librarian, Hospital and Charities Commission, a position which has certainly assisted with some of the moves mentioned above. She has also been seconded during the year to the World Health Organization for advisory missions to Fiji and to South Korea. Mr Ted Glasson, Law Librarian, is a director of the International Association of Law Librarians and again attended their annual workshop, this year on Japanese Law and held in Tokyo.

The use of audio-visual material is increasing daily in most of the libraries. Being still a young institution, much of our holdings of retrospective publications are in microform,

and its usage (as measured in the Main Library) has increased by almost a third in one year. The Readings for the Blind service had only two clients for the year and was able to cope quite comfortably.

Staff has been provided to assist and supervise in the development of a Resources Centre in the Centre for Research into Aboriginal Affairs.

In summary, 1978 was a year of modest growth and satisfaction for jobs attempted

and completed or at least with a promise of completion with current resources. The triennium to come looks bleaker. Prices are still rising, demands are not slackening. It is with this background that we thank again the Parents' Association whose continued support is so encouraging, the Friends of the Library, who can be counted on to provide that extra delightful volume we could not otherwise afford, and the hundreds of donors to the Library Appeal who still, we gladly note, wish to maintain contact with Monash and its library.

UNIVERSITY FACILITIES

Alexander Theatre

In a varied and interesting year, the most notable event at the Alexander Theatre in 1978 was undoubtedly Peter Oyston's production of David Williamson's version of *King Lear*. Controversial even before it reached the stage, the production sharply divided opinion. The production certainly gained more publicity than any other since the Alexander was opened, and generated an interesting debate in *Monash Reporter*. Unfortunately, the controversy did not promote even reasonable box office sales: commercially the production was a failure, and the play came off after four weeks.

Nevertheless, 1978 was generally a successful year. It is pleasant to report increased use of the theatre by University drama groups. Monash University Musical Company returned with a highly successful production of *The Boy Friend*, and Di Treloar, the new director of student theatre, gave us an interesting production of Brecht's *A Man's A Man*. The Modern Dance and Film Groups once more made worthy contributions to the theatre's programme and there were some newcomers to the scene, with Understudy, a campus-based group, putting on successful and competent readings for H.S.C. and University audiences, and a Classics department group giving acted readings of *The Trojan Women* and *Oedipus Rex*. During the Australian Studies Conference, the theatre was used for evening readings of poems and stories by writers attending the conference; the theatre thereby had the honour and pleasure of staging the first performance of Barry Oakley's *Scanlon*, starring Max Gillies.

Productions for school-children and the very young were as ever an important part of the Alexander's activities. Saturday Club continued successfully, and helped to create the audience which supported such other shows as *Zany Tales* (very lively and fast-moving) and the Marionette Theatre of Australia and *The Grand Adventure* (puppets). The 1978 Pan Pow offering, *The Emperor's New Clothes*, de-

serves special mention. Not perhaps quite reaching the heights of the previous year's *The Little Tin Soldier*, it was still a first-class show, with colour, good music, and a great deal of humour. It quite rightly had good audiences.

The theatre acted as host for two travelling shows, *Kemp's Jig* and the Chhau Masked Dancers, both of which brought prestige to the theatre early in the year.

Another production which helped maintain the theatre's reputation for 'educational' drama was Bruce Kerr's *Death of a Salesman*. This was hastily commissioned, rehearsed and staged following the early closure of *King Lear*, and in a run of two weeks did extremely well.

The programme sketched above shows considerable activity by both professional and University groups. If the off-campus amateur groups, such as the Cheltenham Light Opera Company, the Heritage and the Babirra Players, are also brought into view, then we have a picture of an extremely vigorous and healthy enterprise being carried on in 1978 at the Alexander Theatre.

As in previous years, the Alexander Theatre was grateful to receive a generous grant from the Victorian Ministry of the Arts.

Careers and Appointments

Once again graduates, especially new graduates, have faced employment difficulties. Though some modest improvement was discerned throughout 1978, many graduates, from most disciplines, had difficulty in finding work which they could regard as fully satisfactory. Students completing courses at the end of 1978 have found employment prospects to be slightly better than those which were encountered by graduates from 1977.

There has not been much improvement in the demand for engineers, reflecting continuing uncertainties in the manufacturing and construction sectors. There seems to have been a rather better demand for

graduates from the physical sciences, largely for work involving computers. Economics graduates who have qualified in accounting have had few problems. New graduates in law have faced a further decline in the availability of articles of clerkship, though there is a steady demand for them from non-legal organisations. The employment pattern for arts graduates is changing with the growing proportion of mature-age graduates; they frequently resume their previous occupations. Very few teachers with adequate qualifications and a determination to teach have failed to find posts.

Graduates with biological and social sciences, and those with pure humanities courses, have found jobs hard to secure, and it is expected that many will accept positions of lower status than they had expected. Indeed, there are few disciplines where graduates, other than those with high academic or personal attributes, can expect the status in the labour market commonly regarded as acceptable only a few years ago.

Once again there has been a shortage of casual and part-time jobs, but enough have been forthcoming to meet most needs. In this area, as with graduate employment, success is likely to attend persistence and flexibility of expectations.

Overseas students, mainly Asians, who completed studies in 1978 are likely to face difficulties in gaining permanent or temporary employment in Australia because of a marked though not very clearly explained change in Immigration Department policy. These students are concentrated in such disciplines as engineering, accounting and computer science, and their forced withdrawal from the labour market may affect the employment situation.

Further work on the manpower studies mentioned in previous reports has been carried out, but no final report is now expected before the end of 1979. A grant from the Educational Research and Development Committee will permit a more thorough analysis of available data and it is expected

that the final outcome will be of great value in careers counselling and, generally, in educational planning.

Two experiments during the year were highly successful. Mrs Susan Smith, of the Professional Employment Office of the Commonwealth Employment Service worked in the office for four months, cementing an important relationship between the two offices. An exchange was arranged by which Mr L. H. Parrott of this office spent a month becoming familiar with the structure and requirements of the Victorian Public Service, whilst Mr Peter Leaper, a senior officer from the staff of the Public Service Board, worked in this office. The office and the University generally gained much from these exercises.

Centre for Continuing Education

A widely-varied range of activities was, once again, the main feature of the centre's programme. A few activities, for which there appears to be a continuing demand, were repeated from previous years. These included language classes (thirteen in 1978), courses in efficient reading, some intensive workshops in engineering (for example 'Noise and Its Control') and the programme of the Graduate School of Librarianship. Apart from these, however, the bulk of the programme was made up from new initiatives in a number of fields.

A series of seminars for welfare workers, concentrating on legal problems which they encounter, was begun and shows promise of continuing with some success. Attendances of 80 to 100 indicate both a high level of interest and a format and fee level which are appropriate for the target audience. The involvement of potential participants in the design process was probably a significant factor in the success of this series, which will be continued in 1979. This whole field of continuing professional education — activities based on areas of common interest shared by more than one profession — is one which was

further explored in planning during the year. More such cross-disciplinary activities may be expected to result in 1979.

Visitors from the U.S.A. contributed to the centre's programme to a greater extent than hitherto. A leading adult educator, Professor Malcolm Knowles, was engaged to lead a workshop sponsored by the centre during his Australian tour. The centre itself acted as the entrepreneur for a successful three-state visit by two world-ranking experts in psychodrama, Carl and Sharon Hollander. The feedback from psychiatrists, counsellors and others who attended their workshops was rewarding. Another new departure was the organisation of a number of public lectures and film screenings. Among these should be mentioned the lecture by Ivan Illich, which filled the Robert Blackwood Hall. Others, programmed during lunchtime and designed primarily for members of Monash staff, were also well attended.

A major development was the centre's involvement in planning for the future of the former Marist College building. Towards the end of the year it was agreed that the function of the major part of the building, during a two-year trial period, should be that of a centre for seminars, conferences and training activities, managed by the director of the Centre for Continuing Education. The availability of such a suitable venue, on a year-round basis, has very great potential significance for the centre's programme and the growth of new and useful links between the University and the community. It could become a watershed in the development of continuing education in the University.

Computer Centre

During 1978 most of the University's computing was performed on the Burroughs B6700 computer installed in the Computer Centre. The B6700 system included dual processors, 1.92 megabytes of main memory, 800 megabytes of disk memory, 5 magnetic tape units, card reader, 2 line printers and data com-

munication facilities to some 85 terminals installed throughout the University, and in the clinical departments. Limited access was available to the B6800 and B5500 computers run for the Victorian Hospitals Computer Service, and to the CDC3200 computer which was used mainly by the Computing Contract Group to provide a computing facility for VUSEB and VUAC.

Around the middle of 1978 the University placed orders for three VAX-11/780 minicomputers, one to be located in the faculty of Economics and the others to be located in the Computer Centre. The VAX computers were installed late in 1978 and will be used in 1979 to provide computing facilities for teaching undergraduates in Science, particularly Computer Science and Mathematics, and Engineering, as well as providing overnight turn-around for large computer-based research jobs on campus. Benchmarks indicate that each VAX system has a compute capacity (32-bit precision) equivalent to one-twelfth of the CYBER 76 at C.S.I.R.O. in Canberra which is about the same as a single processor on the B6700. A node to the C.S.I.R.O. CYBER 76 was established towards the end of 1978 to meet the needs of researchers with large computer-based jobs. It is intended that the VAX computers be interconnected with the existing B6700 and the C.S.I.R.O. node to form a computing network on campus, organised in such a way that users on terminals throughout the campus can communicate directly with any computer in the network, and have the facility to transfer programme and data files between the various computers in the network.

The locally-developed MONECS (Monash Educational Computer Systems) were used extensively by undergraduates to run assignments during introductory programming courses and by postgraduates and senior undergraduates to provide remote batch entry of jobs to the B6700 computer. Ten MONECS computers were available during 1978, two in the Computer Centre, three

in Economics, one in Computer Science and four in Mathematics.

At the beginning of 1978 a total computing budget of \$1 081 010 (non-discretionary funds) was distributed to departments to purchase computing resources from the Computer Centre. In general, allocations were based on established usage patterns, with consideration given to new and significantly expanded projects. The charging scheme, introduced in 1977, aims at recovering an average of \$130 per hour for computer time but introduces different rates based on priority of access to computing resources.

Charges range from \$180 per hour for immediate execution through \$100 per hour for overnight turn-around. Increased use of the B6700 allowed a reduction in the charge rates in November 1978, and the new rates will apply during 1979. The average recovering rate was reduced to \$100 per hour, ranging from \$140 per hour for highest priority jobs to \$80 per hour for overnight turn-around. The recovery rate established for the VAX computer is \$50 per hour, a figure which will be reviewed when usage data is available for the VAX system. The following table shows the allocation of computing funds to faculties and actual usage during 1978.

Faculty	Initial budget \$	Final budget \$	Actual usage \$
Arts	24 600	24 600	17 024
Economics	55 000	55 000	68 088
Education	22 200	23 700	22 035
Engineering	217 500	238 700	223 460
Law	1 200	2 300	3 162
Medicine	26 670	31 870	18 658
Science	525 900	516 950	437 004
Administration	110 000	175 000	187 045
Library	93 940	93 940	108 365
Others	4 000	4 150	705
	<u>1 081 010</u>	<u>1 166 210</u>	<u>1 085 546</u>

An expenditure of \$1 085 546 for computing resources during 1978 represents an increase of \$269 661 on the 1977 figure of \$815 885 (33 per cent). There are two reasons for the increase: (1) loss of computing resources for about two weeks in October 1977 during the power strike, and (2) a significant change toward terminal and interactive use of the B6700 computer.

Total expenditure for the year, including contract work but excluding the Victorian Hospitals Computer Service, amounted to \$1 664 971 of which \$1 421 931 came from University recurrent funds and \$193 040 from the centre's revenue earning activities. Revenue earning work accounted for 5 per

cent of computing resources used on campus during 1978, compared with 11.5 per cent in 1977.

Health Service

1978 saw no significant change in overall visits from 1977, although there was a late epidemic of flu in October and a severe hay fever season starting about the same time. There appeared to be some increase in demand following the changes in Medibank, but it is too early to tell if this is due to this or other unrelated factors.

Dr. Allan Eagle joined the service in March and he has fitted into the team well.

Statistics for 1978 (Figures for 1977 in brackets) were as follows: total attendance 21 921 (21 979) visits by 7084 (6709) persons; 4392 (4338) visits were made by 1588 (1572) staff members; 17 188 (17 343) visits were made by 5293 (5084) students — 38.6 per cent of the 13 698 total enrolment; 341 (300) attendances were made by 203 (153) visitors.

Higher Education Advisory and Research Unit

During 1978 three types of research activity have been conducted by HEARU: action research, in answer to a specific question from an individual or group on campus; institutional research, usually HEARU-initiated to provide information to assist decision-making at Monash University and nationally; and externally-funded research. The full details of the research activity of HEARU can be found in the *Research Report 1978*.

The director, Dr T Hore, senior lecturer, Dr L. H. T. West, and Dr R. D. Linke from Flinders University, edited a book, *The Future of Higher Education in Australia*, published by Macmillan. Partly as a result of this book the director was invited to become a member of the Australian Club of Rome.

One issue of *Notes on Higher Education* was published entitled 'Crisis Management'. Both these publications addressed themselves to the problems associated with slow or no growth and the apparent lack of long-range planning in tertiary education, in general, and Monash University, in particular. The *HEARU Monitor* appeared for the first time in 1978 and the six issues covered developments in educational technology likely to be of relevance to higher education. A brochure giving the locations of HEARU and the services available, was sent to every member of the academic staff.

HEARU staff taught two courses within the faculty of Education and short sequences in other faculties. Remedial English classes for undergraduate and graduate students have been conducted throughout the year and in-

dividual assistance was given to students referred by academic staff. Three universities, six colleges, three T.A.F.E. colleges, eight other educational institutions and two other bodies have sought advice from HEARU over the year.

Consultancies have been wide-ranging, requested by committees, departments, staff or initiated by HEARU. The topics for review have usually been concerned with aspects of teaching or course evaluation, or with advice on media production and/or recommending, testing and installing audio-visual equipment. Two series of in-service workshops for academic staff were held involving 101 staff in 192 workshop attendances.

During 1978 colour television equipment was installed and forty-two teaching programmes have been completed since then. All faculties used the services of the Educational Technology Section either for production of programmes, on videotape, slide or film, or for advice on new equipment, equipment testing and installation, or maintenance of existing equipment.

Monash University Bookshop

During 1978 the bookshop achieved gross sales of \$1 275 739, which was \$74 261 (5.8 per cent) below the budgeted sales for 1978 of \$1 350 000. This resulted overall in a trading loss of \$15 113 for the year despite a reduction in operating costs of \$14 600 (4.9 per cent) below budget. The main factors contributing to this disappointing result have been the presence of other book and stationery outlets on campus; a change in student buying habits caused by a slight change in the student mix and some buyer resistance with the increasing price of books; a closing of the market by a number of publishers, meaning that many purchases must be made from local suppliers rather than indenting from overseas, and the introduction of freight charges by many local suppliers.

The bookshop board and bookshop staff appreciated the achievement of improved

co-operation with academic departments during 1978, which has led to a considerable easing of the workload of the bookshop staff and will be reflected in speedier book ordering for 1979.

Every attempt will be made to increase the gross turnover in 1979 by sending the manager on his second overseas buying trip and by striving to increase margins on materials sold by the bookshop.

Religious Centre

The establishment of chaplains for 1978 included the Rev. Fr P. Knowles, O.P., Roman Catholic chaplain; Mr P. Forgasz, chaplain to Jewish students; the Rev. D. Evans, Protestant chaplain; and the Rev. V. Kleinig (Lutheran), who joined the chaplaincy for two days per week.

Regular services throughout the year included the daily celebration of mass, with the exception of Saturdays and some term holidays, daily Islamic prayers, a Sunday morning Protestant service, a weekly Lutheran service and, during part of the year, a weekly Anglican Eucharist, celebrated by the Rev. Edgar Wood from St Phillip's Church, North Clayton. As in previous years, special observance was made of feast days in the church calendar.

Wide use of the Religious Centre by student societies has continued, with regular bookings occupying week days, evenings and weekends. There were 106 wedding bookings accepted during 1978, and a number of bookings were made by University departments and groups outside the University for meetings or services.

A series of five lectures entitled 'Tragedy and Transcendence' was held during first term and in second term, the chaplains participated with students in a forum on sexuality and religion and a lunch-time concert of poetry and music.

June 1978 marked the tenth anniversary of the Dedication of the Religious Centre. Two functions were arranged to coincide with the

anniversary celebrations: the annual buffet luncheon, attended by members of the Religious Centre Advisory Committee and representatives of societies associated with the centre, and a greatly appreciated social gathering, to which the chaplaincy invited student service personnel from the various areas in the Union. The climax of the commemoration was a Sunday afternoon service designed to follow the original Order of Service, at which people associated with the centre during its planning stages and over the past decade filled the large chapel. Choral items were presented by the Chapel Singers and it was pleasing that the new pipe organ, designed and built by Ronald Sharp of Sydney, was inaugurated at the service, with a recital by guest organist, Mr Douglas Lawrence.

A lunch-time recital series is planned for 1979, and it is gratifying that the high calibre of the instrument was recognised during the Autumn Festival of Organ and Harpsichord, with a recital by Peter Hanyavsky, Organist of St Stephen's Cathedral, Vienna, and a recital held by the Victorian Society of Organists.

During the year, the chaplains established a borrowing library within the chaplaincy offices in the Union. The collection of modern materials includes the fields of theology, ethics, religious studies and sexuality, and is being used increasingly by students.

A welcome addition to the architecture of the centre was the construction of a ramp to provide access for people in wheelchairs.

Robert Blackwood Hall

1978 was a year of achievement. The carpeting and sound proofing of the basement area plus the erection of two artists' dressing rooms has enhanced the prestige of Robert Blackwood Hall and brought the facilities for the comfort of performers in line with major concert halls in the world.

The number of activities taking place in the hall continues to increase, and in 1978 there were 260 functions which included concerts,

The Chancellor, Sir Richard Eggleston (l) views a Foucault-type pendulum developed by Dr Carl Moppert (r) (faculty of Science) in association with Associate Professor Bill Bonwick (faculty of Engineering). The pendulum is powered by an electro magnetic drive and is fitted with a series of electronic sensors so that its motion can be monitored continuously.



rehearsals and recordings. A further twenty days were occupied for the setting up of examinations, building of dressing rooms and so on. A limited amount of time is available for further developments.

During 1978 the budget deficit in the outside earnings fund has been considerably reduced and we hope that by careful house-keeping, it will be totally eliminated during 1979. Thus in 1980 we should be in a position to stage our own attractions once again.

Oakleigh and Waverley Councils continued to provide financial support to the free Sunday afternoon concerts. The highlight of the series was a visit of the choir of Stuttgart University which attracted a near capacity audience.

The A.B.C. extended their usage of the hall beyond the Gold Series and Special concerts, to stage the finals of 'Quest '78'. Three attractions from the Adelaide Festival were staged during the year — vocalist Leona

Mitchell, the St John's College Choir from Cambridge and the Chhau Masked Dancers. The dancers were jointly presented with the Alexander Theatre Committee.

Student Counselling

A substantially larger slice of the staff's energy and time was devoted to 'individual counselling' activities in 1978 than in 1977. The break-up of time devoted to major activities was as follows: individual counselling — 71 per cent; group counselling, consulting — 18 per cent; staff meetings and supervision — 11 per cent.

One thousand one hundred and fifteen clients made use of the unit and, of these, 863 sought individual counselling. The average number of interviews for clients seeking individual counselling was 2.5. There was a tendency for an increasing proportion of our clients to seek us out regarding personal/developmental problems, and as in the past there was again a noticeable increase in the relationship and marital counselling issues presented to the unit.

More students from the faculties of Arts and Medicine sought counselling than in the previous year. The increase in Arts students is commensurate with the increase in female clients (49 per cent) and in the types of problems discussed. The increase in Medical client representation is probably because the unit continued to have a counsellor at the Alfred Hospital for a half day each week.

Demand for groups and workshops in 1978 was substantial. Two hundred and fifty-two students used the unit for a variety of different types of groups ranging from study skills and relaxation groups to personal development groups. Staff helped provide group leadership for workshops conducted by the student-run club 'Interperson'. They also organised and conducted workshops for mature age students and for University staff via HEARU. Staff were also called upon by a number of organisations in and outside the University to teach and consult about various

aspects pertaining to counselling and students.

Student Housing

The number of students assisted through the Student Housing Office has been 3750: of these 1010 have been firm requests for accommodation while the rest have been enquiries about all facets of housing and its related problems.

The difficulty of obtaining sufficient acceptable private home accommodation persists.

The South-East Flats occupancy rate has remained at approximately 80 per cent for 1978. Most vacancies have occurred over the long vacation period. It appears difficult to maintain full occupancy throughout the entire year. The project otherwise is working out satisfactorily and is popular with the student-tenants.

The Halls of Residence experienced a slightly quieter year in 1978 than in 1977. There was 100 per cent occupancy and a waiting list throughout first term. This was not the case later in the year when frequently there were a few unoccupied rooms. It is likely that the lack of continuous publicity was one of the main factors contributing to this slight drop as all halls were again filled during third term following a moderate advertising campaign. Average occupancy over term periods was 98.5 per cent.

Following a full year under the changed system of operation, which provides for separate accommodation and meal fees, data was available enabling a very precise budget to be drawn up and implementation of more effective cost control mechanisms. As a result, the 1978 student accommodation fee was raised only 5 per cent to \$22.05 per week, whereas food prices were on average kept at the same level as the previous year. Average food service expenditure per resident per week was \$8.49. Average expenditure per week for students who took all meals available was \$20.86. Therefore most residents lived in

halls for between \$30.54 and \$42.91 per week.

Mr Hugh Monypenny, warden of Richardson Hall, was chairman of the Committee of Wardens. Dr Bruce Allender was appointed warden of Roberts Hall early in the year replacing Dr Michael Adams. Dr Knud Haakonssen, warden of Howitt Hall, left at the end of the year to be replaced early in 1979 by Associate Professor Jack Smith.

Students' Grants and Loans Committee

The committee approved sixty-seven applications for assistance in the form of grants

and loans, totalling \$69 349, compared with sixty-eight approvals totalling \$65 031 in 1977.

During the year Council approved a broadening of the Students' Loan Fund Regulations to allow the committee to give financial assistance to students who experience difficulty in meeting costs of travel incurred in undertaking studies away from the University. Income to the funds, comprising interest and repayment of principals, was commensurate with the increased level of assistance given.

Former borrowers continue to express appreciation of past assistance received.

STUDENT ENROLMENT

The net total undergraduate population increased from 9977 in the previous year to 10 061, an increase of 0.84 per cent. Graduate enrolments increased from 1784 to 2069 and total enrolments of all students from 13 550 to 13 698. Full details of enrolments are given in the table below.

Of the total of 13 698 students, 1090 (7.96 per cent of the total) were from overseas, as follows: Austria 1; Bangladesh 7; Britain 7; Brunei 2; Burma 5; Canada 9; Fiji 15; France

2; Ghana 3; Greece 2; Hong Kong 38; India 12; Indonesia 17; Israel 1; Italy 1; Japan 16; Kenya 2; Malaysia 783; Mauritius 4; New Caledonia 1; New Zealand 14; Pakistan 4; Papua New Guinea 3; Philippines 4; Rhodesia 4; Singapore 61; South Africa 1; South Korea 1; Sri Lanka 15; Sweden 1; Taiwan 2; Tanzania 1; Thailand 22; Tonga 2; Uganda 3; U.S.A. 5; U.S.S.R. 3; Vietnam 12; West Germany 4. Total of 773 males, 317 females.

Net enrolments by degree /faculty 1978 (as at 30 April)

Faculty and year	Full-time			Part-time			Total		
	M	F	T	M	F	T	M	F	T
Higher degree									
Higher Doctorate	3	—	3	12	—	12	15	—	15
Ph.D.	268	77	345	118	34	152	386	111	497
Master	222	96	318	889	350	1239	1111	446	1557
TOTAL	493	173	666	1019	384	1403	1512	557	2069
Master preliminary									
	29	23	52	76	45	121	105	68	173
Postgraduate diplomas									
Arts: Dip.Engl.	—	1	1	2	8	10	2	9	11
Dip.Lib.	—	—	—	1	5	6	1	5	6
Dip.Ling.	—	—	—	—	2	2	—	2	2
Dip.Mig.Stud.	1	1	2	2	9	11	3	10	13
Education: Dip.Ed.	119	209	328	64	60	124	183	269	452
Dip.Ed.Psych.	5	9	14	19	33	52	24	42	66
Law: Dip.Com.Law	—	—	—	9	—	9	9	—	9
Medicine: Dip.Immun.	1	—	1	—	1	1	1	1	2
Dip.Micro.	1	1	2	—	—	—	1	1	2
Science: Dip.Comp.Sc.	3	—	3	39	4	43	42	4	46
Dip.Eng.Geol.	—	—	—	14	—	14	14	—	14
Engineering:									
Dip.PolymerEng.	2	—	2	—	—	—	2	—	2
TOTAL	132	221	353	150	122	272	282	343	625
Postgraduate Bachelor degree									
Education: B.Ed.	6	5	11	117	169	346	183	174	357
B.Sp.Ed.	35	28	63	—	—	—	35	28	63
TOTAL	41	33	74	177	169	346	218	202	420

Faculty and year	Full-time			Part-time			Total			
	M	F	T	M	F	T	M	F	T	
Bachelor degree										
Arts: B.A.	I	233	506	739	93	329	422	326	835	1161
	II	165	413	578	57	176	233	222	589	811
	III	217	429	646	113	223	336	330	652	982
	IV	40	65	105	8	15	23	48	80	128
	Sub-Total	655	1413	2068	271	743	1014	926	2156	3082
Arts: B.Soc.Wk	III	14	28	42	—	—	—	14	28	42
	IV	6	33	39	—	—	—	6	33	39
	Sub-Total	20	61	81	—	—	—	20	61	81
Economics and Politics	I	302	162	464	70	21	91	372	183	555
	II	275	121	396	70	8	78	345	129	474
	III	300	110	410	201	51	252	501	161	662
	IV	19	7	26	1	—	1	20	7	27
	Sub-total	896	400	1296	342	80	422	1238	480	1718
Engineering	I	268	16	284	1	—	1	269	16	285
	II	192	4	196	—	—	—	192	4	196
	III	182	2	184	—	—	—	182	2	184
	IV	151	8	159	—	—	—	151	8	159
	Sub-total	793	30	823	1	—	1	794	30	824
Law: LL.B.	I	—	—	—	5	9	14	5	9	14
	II	1	2	3	14	10	24	15	12	27
	III	22	9	31	23	5	28	45	14	59
	IV/V	36	10	46	17	7	24	53	17	70
	Sub-total	59	21	80	59	31	90	118	52	170
Law: B.Juris./LL.B.	I	21	12	33	4	—	4	25	12	37
	II	29	12	41	2	—	2	31	12	43
	III	50	21	71	8	2	10	58	23	81
	IV/V	82	41	123	28	3	31	110	44	154
	Sub-total	182	86	268	42	5	47	224	91	315
Law/Arts:	I	19	42	61	—	3	3	19	45	64
	II	44	50	94	1	2	3	45	52	97
	III	43	38	81	5	5	10	48	43	91
	IV/V	95	43	138	14	7	21	109	50	159
	Sub-total	201	173	374	20	17	37	221	190	411

Faculty and year	Full-time			Part-time			Total			
	M	F	T	M	F	T	M	F	T	
Bachelor degree										
Law/Economics and Politics	I	47	12	59	1	—	1	48	12	60
	II	72	15	87	1	—	1	73	15	88
	III	92	18	110	10	1	11	102	19	121
	IV/V	159	19	178	23	1	24	182	20	202
	Sub-total	370	64	434	35	2	37	405	66	471
Law/Science	I	14	6	20	—	—	—	14	6	20
	II	19	1	20	1	—	1	20	1	21
	III	10	6	16	1	—	1	11	6	17
	IV/V	22	7	29	1	—	1	23	7	30
	Sub-total	65	20	85	3	—	3	68	20	88
Medicine	I	100	68	168	—	—	—	100	68	168
	II	105	60	165	—	—	—	105	60	165
	III	111	56	167	—	—	—	111	56	167
	IV	84	57	141	—	—	—	84	57	141
	V	94	68	162	—	—	—	94	68	162
	VI	126	38	164	—	—	—	126	38	164
	B.Med.Sc.	2	—	2	—	—	—	2	—	2
Sub-total	622	347	969	—	—	—	622	347	969	
Science	I	368	251	619	23	15	38	391	266	657
	II	285	152	437	52	35	87	337	187	524
	III	285	175	460	72	41	113	357	216	573
	IV	126	52	178	—	—	—	126	52	178
	Sub-total	1064	630	1694	147	91	238	1211	721	1932
TOTAL	4927	3245	8172	920	969	1889	5847	4214	10061	
Not for degree	7	5	12	176	162	338	183	167	350	
Total other than higher degree	5136	3527	8663	1499	1467	2966	6635	4994	11629	
Total net enrolments	5629	3700	9329	2518	1851	4369	8147	5551	13698	

STUDENT ACTIVITIES

Orientation 1978

This year the usual full programme of events and functions, both social and informative, was arranged over the three days, Wednesday 8 March to Friday 10 March. In addition, two special functions were held for part-time students, a 'meet the staff' on the evening of 8 March and a 'family day barbecue' on Saturday 18 March. The Student Parents Association also arranged an orientation workshop for mature age students on 6 and 7 March.

The orientation handbook appeared this year in a new form, in three separate sections: the Magazine, the Directory, and the Clubs and Societies/Sport and Recreation Brochure. Favourable comment was received about all three, and it is thought that the Directory was a particularly useful publication for new students. The committee has recommended that the Joint Orientation Committee should retain responsibility in conjunction with the Union Board for this publication.

There seems no doubt that orientation has an important role in introducing new students to University life. A recent calculation indicated that some 64 per cent of full-time, first-year, students availed themselves of the information, advice and entertainment provided by the various groups who contributed to orientation in 1978.

Union — administration and general

In 1978 the Union operated on an expenditure budget of \$1 269 355, derived mainly from a Union fee of \$128 per full-time student (and pro rata fees of \$80 and \$56 for part-time students) and surplus funds of \$118 044 carried forward from previous years. As usual, 25 per cent of the fee income was allocated to the Union development fund. The various categories of voluntary Union membership were extended to admit retired members of University staff and students at tertiary colleges.

This year, the Union Board was chaired by Professor Roy Jackson. At the end of the year, Mr John McPhee and Dr Ron Nethercott, representing the Comptroller and the University Council respectively, retired from the Board after long and valued service.

In the area of buildings and property, construction of the Arts and Crafts Centre adjacent to the main Union Building commenced, and is due for completion in mid-1979. The Union is to relinquish its use of the Doug's Folly building, as the University is in the process of selling this property. Following renovation of the premises leased from the Alfred Hospital, recreational facilities for downtown medical and science students are gradually being transferred to this area.

Minor works included refurbishing of the Union theatre: new seating, carpet, portable rostrums and additions to the lighting system have improved the facilities for both film screening and live productions in the theatre. Under the maintenance programme, steam and condensate pipes in the main building were replaced and in 1979 the replacement of the steam generator, currently housed in the Menzies building, is planned. A public address system was installed in the main building for emergency use, and trial evacuations of the building are to be conducted at regular intervals. The Union Board is considering the installation of a lift in the main building suitable for use by handicapped people, to give the latter better access to first floor and basement areas, but will require financial assistance to implement this proposal.

With the growth of the Union organisation, it has become more and more difficult to keep members up to date with the full range of their entitlements. In 1978 the Union Board, in conjunction with the Joint Orientation Committee, published and issued to all students a comprehensive directory of Union and University services and facilities. As this experiment was well received, the Board allocated substantial funds to enable a pocket-sized diary/directory to be issued to all enrolled students in 1979. Thanks are due to the

students and Union staff members who edited and produced this booklet, largely on a voluntary basis. Facilities for media production and duplication within the Union were generally upgraded by the purchase of superior screen printing and video editing equipment, an electronic composer and a headliner for the production of *Lot's Wife*, and an off-set duplicating machine for administrative and general use. Development of a second studio for Radio 3MU is in progress with a view to enabling more students to gain experience in the recording and presentation of radio programmes.

In the catering area the financial situation deteriorated, the deficit for the year being approximately \$64 000, as compared to \$47 000 in the previous year. Significant capital funds were made available for innovations which it is hoped will bring the catering operation closer to the break-even objective in 1979. New works include the remodelling of the main dining room servery to maximise the self-service aspect, and development of a bakery which will specialise in wholewheat breads and other products. Innovations during the year were the establishment of the Milk Parlour which supplies a range of milk-based products, and the production on the premises of wholewheat cakes and pastries. The popularity of unprocessed and vegetarian foods continues, the main outlets for these items being The Pantry and the Wholefood Restaurant which are supervised by student committees.

At Union Board level, a major issue was the critical financial situation of the Monash Crèche, the outcome being that the Board decided to support the cause of student parents through substantial grants to the crèche in 1978 and in 1979. The budget for the Community Research Action Centre (CRAC) also received particular attention by the Board. In the event, the Board approved funds for an energy display as a corollary to the energy education project conducted by CRAC at the beginning of the year, and also

allocated funds for two CRAC projects on employment which are proposed in 1979.

The activities of the major Union groups are outlined below.

Monash Association of Students

Although student participation in the affairs of MAS was minimal in 1978, great gains were made in furthering the welfare of students. The position of student welfare officer was revived after a lengthy and noticeable absence. The student welfare officer is doing great work under the direction of the Student Welfare Action Board and the ground work has already been laid out for what promises to be a very successful year in 1979. The activities of the student employment officer have been extended and many students have availed themselves of this service to find part-time and casual employment.

The ever-pressing question of student control of the actions of elected office bearers again rose this year, and led to the dismissal of a member of the Publications Committee.

Early in the year a number of meetings were held over the question of government interference in the affairs of student unions. These meetings overwhelmingly voted to oppose any legislation intended to make membership of student unions voluntary.

Monash Postgraduate Scholars Association

The logistics of M.P.G.A. are such that our year really begins in May. It is in this context that this report refers to the association's activities for the year.

1978 is generally recognised as the time in which there was a marked change in the environment in the tertiary education sector. The charter of universities has always been twofold; to educate and to conduct research. Postgraduates, who have a foot in each of these areas, were therefore affected by changes to a larger degree than many other people.

On one hand we saw the Tertiary Education Commission acknowledge Monash as a top research institution by increasing the Special Research Grant to the University. Yet, at the same time, the government (having already failed to increase Commonwealth Award Stipends) introduced the taxation of awards. As well, the year saw a drop in the number of available Commonwealth and Monash awards, and the decision by the Ph.D. and Research Committee to delete dependents' allowances from Monash Graduate Scholars awards. Late in the year a new 'half-scholarship', the Graduate Student grant, was introduced. Less money was available for casual teaching for postgraduates, and statistics show that the average length of candidature for a Monash Ph.D. is now 4 years 3 months, that is, people are now taking longer, as they are forced to seek additional employment.

In response to this, M.P.G.A. liaised with postgraduates from several other universities to form a national body known as C.A.P.A. (Council of Australia Postgraduate Associations). We see this as a positive step towards helping postgraduates on a national level. One of C.A.P.A.'s first tasks was the production of a submission on Postgraduate Awards which was presented to the government.

Locally, the association realised that one of its main problems was communication between members. To improve this, three editions of *M.P.G.A. News* were distributed and three social functions were held in the University Club. Even so, more needs to be done in the publication area.

M.P.G.A. represents a very diverse group of people, all of whom have different needs and problems, and different ideas as to what they expect from the association. One major project we undertook was the hiring of a research officer, whose first task was to conduct a socio-economic survey of Monash postgraduates. At this time, results are still being analysed, but have already revealed facts and trends that will enable us to have a better appreciation of our members.

What comes out of all this is that postgraduates, at Monash and nationally, are an important sector of the tertiary community, and a group desperately in search of an identity. It is along these lines that M.P.G.A. has been working, and will continue to do so in the future.

Clubs and Societies Council

An integral part of the Union is the Clubs and Societies Council which had under its wing in 1978 some 130 clubs ranging from social, political, religious and departmental to cultural and ethnic societies. From a grant made by the Union, the council made available to the affiliated clubs funds for various activities — speakers, films, conferences, social functions and anything necessary to help with the day to day running of a club. The council also made available in the first instance to clubs, and then to any student at Monash, the use of typewriters, duplicators, screen printing equipment, games, video equipment, urns and mugs.

Union tuition and summer school

The Arts and Crafts Centre, currently under construction, has been specifically designed to provide proper facilities for the Union tuition and summer school programmes. It will include rooms suitable for pottery, painting, glasswork, woodwork, weaving, spinning, needlework, sculpture, photography and jewellery making, as well as a small library and gallery. During 1978, approximately 50 tuition classes were available for Monash students and staff and almost 120 classes were offered during the 1979 summer school programme which was also open to members of the public.

Sports and Recreation Association

The report for 1977 noted that the completion of the new building linking the sports buildings and the transfer of the general office from the Union building should enable

the association to provide an improved service to the University community. This expectation proved to be correct and was reflected in a further increase in the level of activity in the area. The sports ground-staff made a particular contribution by developing the entrance to the Sports and Recreation Centre and the eastern courtyard into attractive and functional areas. The courtyard, complete with barbecues and outdoor furniture, became a popular place for social activities.

The co-recreational games programme, which is particularly designed for persons not engaged in regular competitive activities, continued to flourish to the extent that facilities were overtaxed at peak periods and some demands were unsatisfied.

Both the indoor and outdoor facilities were again used a great deal by school and community groups at times which did not unduly conflict with student use.

In club competitions a number of contests were won — particularly in rowing, squash, table tennis, hockey and netball. Successes were also achieved in intervarsity contests in men's rowing, table tennis, women's basketball and men's orienteering.

One initiative undertaken this year was the establishment of the Monash Bushwalking Service, which involves the organisation of walking tours at Wilson's Promontory for parties of secondary school students, with Monash students acting as guides and naturalists. The demand from schools for this service has been considerable.

FINANCE

The following points from the audited accounts of the University for the year 1978 are set out for ready reference.

Funds available

Recurrent Commonwealth Government funds available for expenditure on recurrent items during the year ended 31 December 1978 were:

		\$000
University— 1978 grant	51 603	
— brought forward from 1977	<u>2 703</u>	
		54 306
Teaching hospitals		204
Halls of residence		174

Expenditure for recurrent purposes during the year 1978 was:

	University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%
Academic activities	38 093	70.6	204	100.0		
Academic services	4 878	9.0				
Student services	1 218	2.3				
General services	9 684	17.9				
Public services	69	0.1				
Other	57	0.1			174	100.0
	<u>53 999</u>	<u>100.0</u>	<u>204</u>	<u>100.0</u>	<u>174</u>	<u>100.0</u>

Capital Commonwealth Government funds received in 1978 for expenditure on capital projects (buildings and furniture) on the University site totalled \$2 529 000, plus \$59 500 for teaching hospitals.

Research Commonwealth Government funds available for expenditure on special research projects in 1978 totalled \$454 000.

Equipment Commonwealth Government funds received in 1978 for expenditure on equipment totalled \$1 388 000.

Union fees

Union fees payable by students enrolled for the year 1978 were:

Students studying on campus — full-time \$128; part-time \$80 and \$56.

Students studying off campus in Victoria — full-time \$32; part-time \$22.

Accounts

The audited accounts of the University for the year 1978 are appended to this report,

and provide further details of the year's activities.

General

Funding of the general recurrent grant for 1978 was of great significance in three respects.

1. This was the third and, we hope, the last year of funding by individual year, that is, outside the traditional triennial system. Triennial funding has been reintroduced with effect for the 1979-1981 triennium.
2. For the first time since the introduction of supplementation to compensate for increase in costs due to inflation during the year of the grant, no such supplementation was received on account of increases in non-staffing costs which occurred during 1978. Inevitably this forces a reduction in the level of staffing if the same expenditure in real terms on non-staffing items has to be maintained.

3. In this University the level of funding continued on the plateau of no growth, being the same as for 1977 in real terms though subject to the lack of full supplementation for inflation. The year closed with the announcement of the grants for each of the years of the 1979-81 triennium during which our recurrent grant is to be reduced in real terms each year, while the change in supplementation for inflation will exacerbate the situation still further.

The legislation under which the 1978 grants were provided contained a specific requirement that grants to universities for expenditure on university purposes were for spending within the year. Whilst this University, in times of rising prices, endeavours to obtain its requirements for the year early and at the best prices, it is obvious that, particularly in the area of research, funds must be held to meet emerging and changing needs, and it is obvious that in an institution with an annual recurrent expenditure of approximately

fifty-five million dollars efficiency will be facilitated if the financial activities of the institution can be regulated in accordance with longer rather than short-term planning and decisions. In the closing sessions of the Parliament in 1978 the legislation was amended to permit up to one per cent of the recurrent grant to be carried forward into the subsequent year, but, as this amendment was passed only a few weeks before the end of the year, expenditure had been maintained at a level to ensure maximum use of the grant within the year. The result is that this University is carrying forward into 1979 the smallest cash balance in some fifteen years to meet forward commitments.

The level of funds provided to this University for the purchase of equipment continues to be noticeably lower than that for other large Australian universities. Monash University has maintained consistently that its allocations have been relatively small but it is noted that the Universities Council is reviewing its formula for distribution of funds for equipment.

GIFTS AND GRANTS

The following gifts and grants were received by the University:

Abbott Australasia Pty Ltd, to assist Associate Professor R. A. MacMahon with assay costs for the Vamin Study of his parenteral nutrition research programme (Paediatrics)	4 000
Abbott Universal, grant for study with Enduron, Professor C. I. Johnston (Medicine, Alfred Hospital)	4 000
Adams, The Estate of the late George, towards continued dermatological research work, Dr R. Marks (Medicine, Alfred Hospital)	8 000
Alexander, Mrs R., against \$10 500 grant for building The Ruth Alexander Room (one of two artists' rooms) Robert Blackwood Hall	1 000
Angliss, William (Victoria) Charitable Fund:	5 000
toward research on orthopaedic and traumatic surgery (Surgery, Alfred Hospital)	4 000
General donation for the work of the Krongold Centre (Education)	1 000
Anonymous donors as follows —	
Redirected lecture fees, towards clerical assistance (Education)	294
General donation (English)	1 000
'For research on the social and educational issues associated with the possession of physical, mental and sensory impairments' (Education)	5 000
General donation (Education)	2 000
For Centre for Early Human Development, Queen Victoria Medical Centre	2 000
To assist a graduate scholar to travel abroad for research purposes (History)	250
To Special Education Fund (Krongold Centre)	2 000
Supplementary research grant, Dr J. E. Maloney, (Centre for Early Human Development, Queen Victoria Medical Centre)	300
Multiple donation, Leukaemia Research Special Purposes Fund, Professor A. C. L. Clark (Paediatrics)	450
General donations, Dr J. E. Maloney (Centre for Early Human Development, Queen Victoria Medical Centre)	2 760
Grant to Associate Professor J. F. Mainland (Surgery, Alfred Hospital)	2 000
For research (Chemistry)	500
Anti-Cancer Council of Victoria, in support of cancer research projects: Dr P. H. Tutton and Dr D. H. Barkla, Cell proliferation in colonic carcinoma (Anatomy); Professor A. W. Linnane and Associate Professor J. Nayman, An investigation of the relationship of blood narcotic levels to the relief of pain (Biochemistry); Dr A. H. Ellims and Dr M. B. van der Weyden, Pyrimidine metabolism in neoplasia (Medicine, Alfred Hospital); Dr M. B. van der Weyden, The role of purine metabolism in lymphocyte proliferation (Medicine, Alfred Hospital); Associate Professor H. K. Muller and Dr B. H. Toh, Contractile proteins in neoplasia, Professor R. C. Nairn and colleagues, Immunological aspects of cancer (Pathology and Immunology)	95 566
A.P.M. Forests Pty Ltd final payment to assist research on phytophthora to determine causes of tolerance and susceptibility in eucalypts and acacias, Ms J. Tippett (Botany); Research on sugar gliders, Mr G. Suckling (Zoology)	1 443
Artificial Insemination Donor Service Trust, run by some members of the department of Obstetrics and Gynaecology, Monash University, research grant, project: A.I.D. and reproductive biology, being conducted by Dr A. Trounson (Obstetrics and Gynaecology)	3 000

Australia-Japan Foundation (The):		19 200
for student travel to Japan (Japanese)	6 000	
Research grants for projects: Dispute resolution in Australia-Japan transactions, being conducted by Dr M. Smith (Law)	9 100	
The impact of transport costs on the Australia-Japan raw materials trade, Dr K. Trace (Economic History)	4 100	
Australian Associated Brewers, (The), Grant in aid, project: Educational programmes directed at alcohol-abuse groups, being conducted by Dr T. Hore and Dr L. H. T. West (Higher Education Advisory and Research Unit)		11 735
Australian Development Assistance Bureau, grants in aid and Union fees for sponsored overseas postgraduate students (Chemistry), (Materials Engineering), (Earth Sciences), (History), (Linguistics), (Mathematics), (Physics), (Politics), (Board of Studies in Environmental Science)		12 230
Australian Institute of Nuclear Science and Engineering, project: Efficiency, power and energy limitations of a longitudinally-excited copper halide laser, Mr R. C. Tobin (Physics)		1 300
Australian National University (The) toward: The Australian monetary system in the 1970's conference, conducted October 1977 by Professor M. G. Porter (Economics)		1 000
Australian Psychological Society (The), prize in Psychology 1977 examinations, awarded to Miss A. Bodi		100
Australian Road Research Board, projects: Delineating the way ahead at night, Professor R. W. Cumming (Psychology); Car pooling and geographic structure, Mr A. J. Richardson (Civil Engineering); Transport investment and residential location — Choice — Analysis and appraisal of freight generation characteristics, Dr K. W. Ogden (Civil Engineering)		6 322
Australian Safeway Stores Pty Ltd, towards the project: Pilot study into communication needs in industry and commerce, being conducted by Dr D. Davis and Mr B. Spicer (Education)		250
Australian Tobacco Research Foundation, supplementary grant for project: Human neurophysins, being conducted by Professor C. I. Johnston (Medicine, Prince Henry's Hospital)		2 027
Australian Vice-Chancellors' Committee, a 1978 A.V.C.C. Visiting Fellowship for study in Japan awarded to Professor C. G. Weeramantry (Law)		3 000
Australian Welding Research Association, further payment for project:		16 740
Structure and adhesion of plasma and flame sprayed coatings, Associate Professor R. McPherson (Materials Engineering)	6 965	
Project: Stress corrosion cracking of welded pipelines — effects of coatings, Associate Professor B. W. Cherry (Materials Engineering)	4 050	
Extension of contract no. 45 — research project: Microstructure and mechanical properties of welds in polyethylene pipes, Associate Professor B. W. Cherry (Materials Engineering)	4 900	
Balance of research grant, project: Stress relief cracking, Associate Professor R. McPherson (Materials Engineering)	825	

Baker Medical Research Institute:		30 437
pro-rata disbursement of grant-in-aid from National Institutes of Health, United States of America, Dr J. E. Maloney, (Centre for Early Human Development, Queen Victoria Medical Centre)	21 483	
Transfer of N. H. & M. R. C. Grants, Dr B. Bowes, Dr R. W. Yardley (Paediatrics, Queen Victoria Medical Centre)	8 954	
Baxter, Percy, Charitable Trust, towards purchase of a fluorescence activated cell sorter for use in early cancer detection research being conducted by Professor R. C. Nairn (Pathology and Immunology) \$10 000; for the work of the Krongold Centre, \$1 000		11 000
Beecham (Australia) Pty Ltd, travel grant to Professor S. Faine (Microbiology, Alfred Hospital)		500
Behrend, Mrs Daisy:		600
to provide piano cover for the Krongold Centre	100	
Special Education Fund, Krongold Centre	500	
Bentley, Associate Professor G., travel grant to enable postgraduate student to present a paper at the International Pharmacology Conference		1 300
Boby, (William) & Co. (Australia) Pty Ltd, for research (Chemical Engineering)		200
Boehringer Ingelheim Pty Ltd, continuing support of project: The influences of compound NA872 on the development of the respiratory system, being conducted by Dr J. Maloney (Centre for Early Human Development, Queen Victoria Medical Centre)		50 000
Bristol Myers Company Pty Ltd, 1977 Mead Johnson Award in (Paediatrics)		53
British Society of Rheology, (The) to further the activity in rheology (Chemical Engineering)		50
Broken Hill Proprietary Company Limited:		1 500
toward the costs of visiting Senior Research Fellows Dr G. W. Lorimer and Dr P. E. Champness, January to July 1978 (Materials Engineering)	1 000	
Towards travel expenses London conference on residuals additives and material properties, Associate Professor R. McPherson (Materials Engineering)	500	
Broken Hill Mining Managers' Association, geological research grant for three month extension of the phase of the Broken Hill Lode Horizon Project being conducted by Dr N. J. Archibald		8 000
For drafting assistance for a 1:50,000 compilation of most of the Willyama Complex along with relevant stratigraphic and structural interpretations;	2 000	
For expenses incurred in extension of the current phase of the Lode Horizon project from 12 to 15 months so that the final report may be regionally complete and the implications for exploration fully documented (Earth Sciences)	6 000	
Certus Club (The) (A.M.P. Society), to the Krongold Centre		200
Clark, Professor A. C. L., Queen Victoria Medical Centre		80
Staff donation for the work of the department	40	
Donation of fee for lecture to the Consultative Council on Maternal and Perinatal Mortality (Paediatrics)	40	

Collier Charitable Fund		5 000
Toward building a wave channel for marine research, (Mechanical Engineering)	4 500	
Toward the purchase of a Logic Laboratory, (Physics)	500	
Comalco Ltd		10 600
Grants-in-aid, Electrical resistivity of interfaces in binary alloys, Dr P. L. Rossiter (Materials Engineering)	5 250	
Renewal of support for the research project on Postyield deformation behaviour of aluminium alloy sheet, Mr P. W. Beaver (Materials Engineering)	5 350	
Commonwealth Government		
Aboriginal Affairs, Department of:		32 147
To aid in the establishment of the Aboriginal Resource Centre	5 000	
Employment grant to train an Aboriginal clerical research assistant to help in the management of the Aboriginal Resource Centre (Centre for Research into Aboriginal Affairs)	3 386	
To meet operational expenses (Centre for Research into Aboriginal Affairs)	14 423	
Second half of grant, Mr Kevin Gilbert's research programme (Centre for Research into Aboriginal Affairs)	9 338	
Australia Council, The:		19 360
Half year stipend for artist-in-residence, Ms L. Dumbrell (Visual Arts)	5 000	
Grant for Miss C. Stead's term as writer-in-residence (English)	2 120	
Towards the cost of presenting an exhibition of Milingimbi art at Monash in July (Centre for Research into Aboriginal Affairs)	2 000	
Grant for living allowance, travel and associated expenses for one year for research and writing of two books on the Tasmanian Aboriginals, Mr C. Johnson (Centre for Research into Aboriginal Affairs)	14 240	
Towards travel expenses, interstate studies, Mr G. Distefano (History)	500	
Australian Chicken Meat Research Committee (Department of Primary Industry), project: The role of thyroid hormones in tibial dischondroplasia in broiler chickens, being conducted by Professor D. A. Lowther (Biochemistry)		5 000
Australian Institute of Aboriginal Studies: Grants to Mr J. G. Breen for 1977 and 1978 (Linguistics)		29 726
Australian Research Grants Committee, on the recommendation of the committee, the Commonwealth Government approved grants for 1978 as listed at the conclusion of this section		1 039 157
Commonwealth Serum Laboratories, towards travel expenses, Fourth International Congress of Virology, to be held at The Hague, Associate Professor E. G. Westaway (Microbiology)		500
Curriculum Development Centre		52 441
Projects: Consumer Education, Professor P. W. Musgrave;	4,000	
Core Curriculum Case Studies, Associate Professor L. D. Mackay;	4 580	
Teacher Education Survey, Dr D. Davis (Education)	43 861	

Education, Department of		
Grants-in-aid and Union fees, sponsored overseas postgraduate students (History and Zoology)		1 256
Education Research and Development Committee, on the recommendation of the committee, the Commonwealth Government approved grants for 1978 as listed at the conclusion of this section		7 014
National Development, Department of		
Project: payment against grant of \$36 400 to carry out Australian Water Resources Council research: Small rural catchment hydrology — catchment losses on a regional basis, Professor E. M. Laurenson (Civil Engineering)		13 000
National Health and Medical Research Council, on the recommendation of the council, the Commonwealth Government approved grants for 1978 as listed at the conclusion of this section		45 158
Primary Industry, Department of, grant-in-aid, Forestry Postgraduate Research Award holder, Mr G. C. Suckling (Zoology)		500
Science, Department of, Australian biological resources study grant, project: Compilation of a checklist of liverworts of Australia and the preparation of a handbook on the liverworts of Victoria, Dr G. A. M. Scott (Botany)		3 250
Queen Elizabeth II Fellowship Awards:		36 806
Dr E. C. Cartright (Biochemistry)	18 403	
Dr J. A. P. Rostas (Biochemistry)	18 403	
Social Security, Department of,		58 602
Project: Mental retardation research, Professor S. S. Dunn and Mr S. Sykes (Education)	36 000	
Equipment subsidies (Krongold Centre)	15 061	
Handicapped persons salary subsidy (Krongold Centre)	7 541	
Transport, Department of,		52 557
Additional grant, research project: Development of a safe road crossing gap recognition training procedure for primary school children, being conducted by Dr R. McKelvey (Psychology)	32 372	
Project: Driver response times on rural roads, Dr T. Triggs (Psychology)	11 602	
Project: Efficiency considerations in the use of driving simulators, Professor R. W. Cumming (Psychology)	2 200	
Project: Investigation of the legal implications of frangible poles (electric and telephone poles) (Law)	6 383	
Wheat Industry Research Council (Department of Primary Industry), Final instalment 1977/78 grant, project: Interaction between Take-all and other fungi, being conducted by Associate Professor A. A. Holland (Botany)		2 319
Wool Research Trust Fund (Department of Primary Industry),		50 590
Research grant 1978/79 project: Macrocyclic metal complexes based on amino acids (possible new dyes for wool) being conducted by Dr D. St Clair Black (Chemistry)	46 140	
Overseas travel grant (Chemistry)	1 000	
Patent fees — textile research (Chemistry)	3 450	
Consolidated Electronic Industries Pty Ltd, Reuben Medding Prizes valued at \$50 each, won by Mr A. J. Kras and Mr J. Slyomovits for work completed in 1977 (Electrical Engineering)		100

C.R.A. Exploration Pty Ltd, grant for boat hire used in research Dr L. Frakes (Earth Sciences)	5 369
C.S.R. Chemicals Pty Ltd, 1978 CSR Chemicals Prize (Chemistry)	100
De Kretser, Professor D. M., staff donation for the work of department (Anatomy)	2 549
Eggleston, Sir Richard, Trustee of the Estate of the late Dr Elizabeth Eggleston, toward the Aboriginal Resource Centre (Centre for Research into Aboriginal Affairs)	7 865
Eltham College, first payment against \$2 000 grant for project: Evaluation of the educational program of Eltham College, Professor L. D. McKay, Mr J. A. Fyfield, Dr A. Gregory, Professor R. P. Tisher (Education)	1 000
Electrical Research Board,	6 487
Second half, 1977 grants (Electrical Engineering)	5 250
Balance of grant to Associate Professor B. W. Cherry, project: The behaviour of adhesive joints under the conjoint action of stress (Materials Engineering)	1 237
Esso Australia Ltd, grants 1977/78:	9 700
As an aid to the advancement of geological sciences; to assist in the purchase of necessary equipment for use with the department, excursion field trips for geology students, library books, etc., includes annual grant of \$500 to be applied in the field of geology and/or geophysics (Earth Sciences)	1 700
Research grants (Engineering)	8 000
Felton Bequests Committee, to assist with expenses of the visit of Dr Louis Gluck in 1977 (Obstetrics and Gynaecology, Queen Victoria Medical Centre)	500
Fluor Australia Pty Ltd, general donation (Careers and Appointments Office)	100
Firkin, Professor B. G., towards overseas travel expenses (Medicine)	59
Ford Foundation (The),	41 120
Project: Human embryogenesis research, Professor E. C. Wood (Obstetrics and Gynaecology)	20,171
Project: Capital movements and the stability of exchange rates, Professor M. G. Porter (Economics)	15 998
The role of large private and government organisations in generating flows of inter-regional migrants, Associate Professor J. S. Whitelaw and Mr J. McKay (Geography)	4 951
Forelanders Trust, to facilitate student travel to Japan (Japanese)	1 200
Forsyth, Miss P., proceeds of wine and cheese evening (Krongold Centre)	600
Gardner, Mr Paul, royalties from his book 'Biology Readiness Test Materials', general donation (Education)	13
General Motors-Holden's Pty Ltd,	4 700
postgraduate research fellowship, Mr D. R. Winkler (Chemistry)	4 500
General donation (Careers and Appointments Office)	200
Glaxo Australia Pty Ltd, travel grant, Professor S. Faine (Microbiology, Alfred Hospital)	400
Hecht, H. & L. Trust,	31 000
Grant for (Krongold Centre)	1 000
Towards purchase of a fluorescence activated cell sorter for use in early cancer detection research, being conducted by Professor R. C. Nairn (Pathology and Immunology)	30 000

Holland, Sir John, donation (Krongold Centre)	700
Hore, Dr T. and Mr N. Paget, royalties earned on their book 'Nonverbal Communication: A select annotated bibliography', Melbourne, A.C.E.R., 1975 (Higher Education Advisory and Research Unit)	231
ICI Australia Limited,	480
Towards travel expenses, Mr John Farrar (Pharmacology)	400
1977 Vacation Work Report Prize, final year student (Chemical Engineering)	40
1978 ICI Australia Prize for Vacation Work Report, fourth year (Chemical Engineering)	40
ICI Limited (U.K.), payments against grant of \$15,982 for research project on the ICI Pseudomonas being conducted by Professor Bruce Holloway (Genetics)	7 990
Ingram Trust, The M. A.,	3 067
To research the behaviour and ecology of Leadbeater's Possum, Dr John Nelson;	1 230
Project: Aspects of the population ecology of small native mammals, Associate Professor A. K. Lee (Zoology)	1,837
Institute of Chartered Secretaries and Administrators, 1978 Chartered Secretaries (M. V. Anderson) Award, won by Mr D. D. Taylor for thesis, 'Staff in a college of advanced education' (Economics and Politics)	400
International Planned Parenthood Federation, first instalment against research grant of \$14,737, for project studies on antibodies to the Zona Pellucida of human eggs in relation to infertility and contraception, being conducted by Dr A. Trounson (Obstetrics and Gynaecology)	3 582
Jones, Dr Pauline A., donation to Higher Education and Research Unit, visited by her in 1977	350
Kellogg Foundation (W. K.), first payment against \$149 100 grant to the Australian Hospital Association Reference Centre (Biomedical Library)	53 700
King, Mr Justice, for the purchase of books in the intellectual property area (Law Library)	125
Koppers Australia Pty Ltd, research grant covering first year of two-year project Roasting and leeching studies of chromite bearing material, Associate Professor Lawson (Chemical Engineering)	6 400
Kosky, Estate of the late Sol., legacy 'to provide prizes for scholarships or to purchase books or equipment to assist the advancement of studies directed towards international economics and political problems' (Economics and Politics)	2 000
Krongold Centre — Kemp's Jig Committee: proceeds of the Australian premiere of 'Kemp's Jig' at the Alexander Theatre (Krongold Centre)	2 018
Krongold Parents and Friends Association, funds raised for the Krongold Centre	500
Lawson, Associate Professor F., general donation representing share of a presentation from the South Australian Branch of the Royal Australian Chemical Institute, in recognition of the advances made by Associate Professor F. Lawson and two people from Broken Hill Associated Smelters in the continuous dressing of lead (Chemical Engineering)	25
Life Insurance Medical Research Fund of Australia and New Zealand, Grant in aid, one year, for further research on the role of kallikrein in blood pressure regulation, Professor C. I. Johnston (Medicine, Prince Henry's Hospital);	61 195
	13 598

Project: Myocardial B adrenergic receptors, second payment, two-year award, Professor C. I. Johnston and Dr Funder, (Medicine, Prince Henry's Hospital);	11 638
Grant in aid for one year, project: The role of the kallikrein-kinin system in sodium and water homeostasis and blood pressure control: an approach to identifying renal kinin receptors, Dr P. G. Matthews (Medicine, Prince Henry's Hospital);	10 000
Grant in aid, second instalment of two-year award, project: A study of platelet function and coagulation disorders in patients with thrombotic disorders, Professor B. G. Firkin (Medicine, Alfred Hospital);	13 542
Grant in aid, Centre for Early Human Development, Dr J. E. Maloney, (Paediatrics, Obstetrics and Gynaecology, Queen Victoria Medical Centre)	12 417
Leverhulme Trust Fund (The) for Leverhulme Academic Interchange Scheme, Australia/Japan, 1977/78 — incoming fellow, Professor T. Mukaiyama, University of Tokyo.	4 006
Lowther, Professor D. A., staff donation (Biochemistry)	350
McGauran Trust Fund (J. & R.) towards purchase of a fluorescence activated cell sorter for use in early cancer detection research, being conducted by Professor R. C. Nairn (Pathology and Immunology)	10 000
McIlroy, Miss J. A., for medical education project being conducted by Associate Professor K. McLean (Medicine, Prince Henry's Hospital)	10 000
Medicine, staff of department of (Alfred Hospital), staff donations towards the work of the department	6 824
Merck Sharp & Dohme (Aust.) Pty Ltd, research grant to assist a vacation scholar in investigations towards the synthesis of pyrrolidinones, under the direction of Dr D. St C. Black (Chemistry)	540
General donation (Microbiology)	500
M.I.M. Holdings Ltd, donation (Careers and Appointments Office)	100
Mobil Oil Australia Limited, towards general expenses (Careers and Appointments Office)	300
Monash Medical Mothers Auxiliary, Purchase of books and tape/slide projector (Biomedical Library)	1 000
New lecture theatre screen (Paediatrics)	152
Monash University Parents' Group,	5 114
Centre for Research into Aboriginal Affairs, calculator for use in statistical research	50
Educational Technology, Octave spectrum analyser	610
Halls of Residence, 16 mm projector	800
Library, purchase of books	2 500
Obstetrics and Gynaecology, 150 litre refrigerator for use in infertility studies	179
Paediatrics, apparatus to record breathing and heart function in premature babies for cot death and similar studies	310
Robert Blackwood Hall, for new artistes' rooms: 2 stainless steel trays, 2 coffee percolators, 2 electric jugs	100

University Union, up to date map of metropolitan area	400	
overhead projector for use of student groups	165	
Moore, Mrs Vera, donation (Krongold Centre)		200
Myer Foundation (The),		2 610
Towards expense of producing catalogue raisonné of Tom Roberts, Miss H. Topliss (Visual Arts)	610	
Against a total grant of \$12 000 in support of Diploma in Librarian- ship Information Science. To be made available over a two-year period. In 1978 the money was used to mount specialised seminars on computer-based services and problems. In 1979 will support for a period, a visiting lecturer in the computer field (Graduate School of Librarianship)	2 000	
Myer (The Sidney) Charity Trust, towards purchase of a fluorescence activated cell sorter for use in early cancer detection research, being conducted by Professor R. C. Nairn (Pathology and Immunology)		20 000
National Geographic Society, project: Comparative socioecology of five Australian Bowerbird species, Dr A. Lill (Zoology)		4 927
National Heart Foundation of Australia,		60 122
Grants-in-aid and/or fellowships: Dr G. D. Hirst, Professor M. Hol- man, Dr I. R. Wendt, Dr T. O. Neild, Dr E. McLachlan, Dr J. B. Chapman, Dr C. L. Gibbs, Dr D. S. Loiselle; research fellowship, Dr T. O. Neild; (Physiology)	36 498	
Supplementary grants to cover unavoidable increased costs for pro- jects undertaken in 1977 under Foundation sponsorship: Dr J. B. Chapman and others (Physiology);	2 394	
For equipment purchased under 1978 grant, Drs J. B. Chapman, C. L. Gibbs and D. S. Loiselle (Physiology)	1 340	
Grants-in-aid:		
Professor A. L. A. Boura (Pharmacology)	2 000	
Professor D. W. Lowther, Dr C. J. Handley, Dr H. C. Robinson, Dr B. W. Oakes (Biochemistry and Anatomy)	12 049	
Professor C. I. Johnston, including supplementary grant of \$791 (Medicine, Prince Henry's Hospital)	5 841	
N.S.W. State Pollution Control Commission, research grant award, project: Mer- cury pollution in Gaffney's and Raspberry Creek, Victoria, Miss G. Sandars (Board of Studies in Environmental Science)		530
O'Shea & Bennett Pty Ltd, endowment W. P. & H. E. O'Shea Library Fund, for the purchase of books for the Library		500
Pfizer Pty Ltd, to fund a study of Tinidazole in the treatment of irritable colon syndrome, Mr P. Hunt (Surgery, Prince Henry's Hospital)		10 000
Pond, Mr S. A. F., general donation (Law Library)		50
Porter, Dr Una B., grant to establish The James and Una Porter Fund for the study of human development and behaviour to fund a research project concerned with early development and family relationships, under the direction of Dr Eleanor S. Wertheim (Paediatrics, Queen Victoria Medical Centre)		60 000
Potter Foundation, The Ian,		37 400
Three scholarships of \$500 each (Japanese Study Abroad Pro- gramme);	1,500	

Additional grant for continuation of study follow-up of colo-rectal cancer patients, Mr P. Hunt (Surgery, Alfred Hospital)	10 000	
Travel grants: to Professor S. Faine, for overseas study tour commencing April 1978, \$1,000; Dr R. C. Bayly, to attend Third International Symposium on Genetics of Industrial Microorganisms in the United States in June 1978, \$1 000 (Microbiology, Alfred Hospital)	2 000	
Towards attendance at International Congress of Genetics in Moscow in August, and the International Congress of Microbiology in Munich in September, Professor B. W. Holloway, \$1 000 (Genetics); \$500 towards attendance at Second International Scientific Congress Thera and the Aegean World held in August 1978, Dr I. A. Nicholls (Earth Sciences)	1 000	
Towards the department of French Study Abroad Programme Scholarships;	500	
Travel grants to Dr J. D. Cashion (Physics) \$500; Dr P. E. Clark (Physics) \$500; Professor M. D. Neale (Education) \$400.	1 000	
Toward the purchase of a fluorescence activated cell sorter for use in early detection of cancer, being conducted by Professor R. C. Nairn (Pathology and Immunology)	1 400	
	20 000	
Radio Research Board,		10 525
Grants for the following projects:		
Psychophysical studies of feature detectors using synthetic speech, Dr W. R. Webster (Psychology);	2 075	
A ray tracing programme for the evaluation of variations of ionospheric radio rays, Dr J. A. Bennett (Electrical Engineering);	2 250	
Investigation of FET low noise amplifiers and ancillary circuitry suitable for operation in the 3.7-4.2GHz frequency band, Dr L. Gruner (Electrical Engineering);	2 000	
Electrical conductivity in thin polymer films studied via thermally stimulated conductivity, thermoluminescence and dielectric measurements, Dr R. J. Fleming (Physics)	3 250	
The development of VHF and UHF receiving antennas, Dr G. Gambrell (Electrical Engineering)	950	
Ramaciotti Foundations, Clive and Vera,		11 250
Wellcome-Ramaciotti Research Travel Grant awarded to Dr C. J. Handley (Biochemistry)	1 250	
Grant-in-aid for equipment, early detection of cancer project being conducted by Professor R. C. Nairn (Pathology and Immunology)	10 000	
Reserve Bank of Australia, The,		10 223
Economic and Financial Research Fund project: Structural changes in wage/price behaviour in Australia, being conducted by Doctors A. Fels and Tran Van Hoa (Economics)	5,223	
Rural Credits Development Fund, project: Plant armour plate: The role of polysaccharide/phenol complexes contained in the cell walls of cereal grains and root systems in passive resistance to invasion by micro-organisms, being conducted by Dr T. O'Brien (Botany)	5 000	
Roussel Pharmaceuticals Pty Ltd, for hypertension research, Professor C. I. Johnston (Medicine, Prince Henry's Hospital)		5 500

Royal Automobile Club of Victoria Ltd, to Engineering Science Course (Civil Engineering)	1 000
Royal Australian College of General Practitioners, The, Grant to be utilised for furnishing and equipping academic teaching area, (Monash University Community Practice Teaching Unit, Moorabbin Hospital)	10 300
Grant for study of general practice, Professor N. E. Carson (Social and Preventive Medicine)	5 000
Schnapp, Dr Dale L., towards founding a Century Club, after the style of Melbourne University's Century Club, to which his father belonged (Medicine)	5 300
Scott, Estate of the late Mr Daniel, donation to Krongold Centre	99
Schutt Trust, Helen McPherson, towards purchase of a fluorescence activated cell sorter for use in early cancer detection research being conducted by Professor R. C. Nairn (Pathology and Immunology)	1 000
Servier Laboratories (Aust) Pty Ltd, towards study of Indapamide being conducted by Professor C. I. Johnston (Medicine, Prince Henry's Hospital)	10 000
Smith, Dr G. C., Department of Anatomy, donation for the work of the department Social and Preventive Medicine, staff of department of, General staff donations to Community Practice General Purposes Fund, Professor N. E. Carson (Social and Preventive Medicine)	6 000
Social Sciences and Humanities Research Council of Canada: supplementary grant to cover costs of research assistance in Australia, plus travel to Alice Springs, project: Traditional-modern attitude conflict and acculturative stress of Australian Aboriginal and white samples, Dr P. Jones (Education)	15
State Savings Bank of Victoria, towards the project: Pilot study into communication needs in industry and commerce, being conducted by Dr D. Davis and Mr B. Spicer (Education)	1 010
Stuart Simson Education Trust, half share of the income of the Stuart Simson Educational Trust, to be allocated to the Stuart Simson Scholarship	2 637
Sutton, Mr R., equipment for medical research (Medicine, Alfred Hospital)	1 000
Turner Family Trust, against a grant of \$110 000 for a three-year project on the controlled study of special educational treatment of autistic children with particular reference to their language and play behaviour, Dr L. Bartak (Faculty of Education) and Ms V. Bottroff, Torrens College of Advanced Education	750
University of New South Wales, travel grant of \$100 each to five staff members and four research students, to attend June conference at University of New South Wales on Continuity and change in German literature and society after 1945 (German)	500
U.S./Australia Co-operative Science Program, towards travel expenses, visits to University of Delaware, Newark, to work on polymer processing glow phenomena, Dr D. V. Boger (Chemical Engineering)	15 000
United States Department of the Interior, progress payment Geological survey, Dr M. A. Etheridge (Earth Sciences)	900
Utah Foundation, For research into developing a vaccine against syphilis, Dr S. Graves (Microbiology)	2 527
Towards purchase of a vessel for coastal waters research projects: Turbulence in tidal currents. Currents, wave characteristics and	3 551
	27 000
	7 000

wave loading, Dr J. B. Hinwood & colleagues (Mechanical Engineering)	20 000	
Victorian Government		
Arts, Ministry for the, Cultural Development Grants towards cost of activities 1977/78 (Alexander Theatre)		21 300
Conservation, Ministry for,		24 374
Scholarship grant to Mr B. J. Wykes (Zoology)	3 874	
Research grant through Fisheries and Wildlife Division project: Wildlife as a land use by-product, supervised by Dr D. F. Dorward (Board of Studies in Environmental Science)	5 500	
Research Fellowship for project: Hydrological modelling of Stewart's Creek data, Professor E. M. Laurenson (Civil Engineering) and Dr A. Y. K. Wu of The Soil Conservation Authority	8 500	
Progress payments, research grants, projects: Management for arboreal species in Wombat State Forest, Dr E. H. M. Ealey, (Board of Studies in Environmental Science) \$5 500; Structure change on the Ninety Mile Beach, Dr L. Frakes (Earth Sciences) \$1 000	6 500	
Crown Lands and Survey, Department of, research grant, project: A study of Inverloch and Venus Bay Foreshore Reserves, Dr E. H. M. Ealey (Board of Studies in Environmental Science)		5 000
Education, Department of,		16 500
Linguistic feasibility study (Centre for Research into Aboriginal Affairs)	1 500	
Research grant for Country education project evaluation, Associate Professor L. McKay (Education)	15 000	
Forests Commission of Victoria, grant to support postgraduate studies on Leadbeater's Possum, Mr Andrew Smith (Zoology)		1 200
Victorian Committee on Equal Opportunity in Schools (Department of the Premier) final payment research grant, project: The influence of women principals as role models, Ms S. Sampson (Education)		2 605
Youth, Sport & Recreation, Department of, to assist the development of soccer by provision of power to lower soccer grounds (Sports and Recreation Association)		1 000
Victorian Consultative Committee of Victorian Council of Social Service, grant for consultative activity, Mr C. Bourke (Centre for Research into Aboriginal Affairs)		3 000
Victorian Law Foundation, grant for Law Review (Law)		2 500
Victorian Technical and Further Education (TAFE) Colleges and Organisations:		21 746
Box Hill Technical College for research project, Staff Development Needs in Management and Administration in Victorian TAFE Colleges and Organisations, being conducted by Associate Professor L. Mackay (Education);	1 000	
Royal Melbourne Institute of Technology in support of the above project	10 746	
Frankston Technical College, research project: Education access and transition in the Frankston region, being conducted by Professor L. D. Mackay, (Education)	10 000	

Water Research Foundation of Australia Limited, research project, Chemical evolution of groundwater in basalt aquifers, being conducted by Ms P. M. M. Komarower (Earth Sciences)	3 900
Wellcome Australasia Limited, towards travel expenses, Cancer research meetings in Washington April 1978, Dr M. Schwarz (Medicine, Alfred Hospital)	300
West Gippsland Social Worker Group and LV Community Education Centre, research grant, project: Study of counselling services in the Warragul/Buln-Buln Shires, being conducted by Mrs E. Atkinson, Dr G. Burke, Mr A. M. Rice, Ms H. M. Smith, Dr N. J. Smith (Education)	11 800
Western Mining Corporation Ltd,	2 300
\$50 to each of the most successful third year geological projects (Hard-rock) in 1977 and 1978; balance to be spent on atomic absorption tubes (Earth Sciences)	800
renewal of undergraduate scholarship (Chemical Engineering)	1 000
To assist students to travel to Japan in 1977 (Japanese)	500
White, Estate of the late Joe, to the Library	1 000
William Ritchie Food Stores Pty Ltd, research grant (Centre for Early Human Development, Queen Victoria Medical Centre)	3 000
Windermere Hospital Foundation Ltd, research grant (Centre for Early Human Development, Queen Victoria Medical Centre)	5 000
Yooralla Society of Victoria, research grant for the project: Phospholipid and protein metabolism in muscular dystrophy patients, being conducted by Dr L. Austin (Biochemistry)	2 000

Miscellaneous Gifts

From various donors to the following departments and faculties:

Anatomy	200
Biochemistry	2 622
Botany	543
Centre for Research into Aboriginal Affairs	72
Chemistry	84
Education	52
Engineering	120
French, for study abroad programme	835
Graduate School of Librarianship	98
Krongold Centre — Special Education Fund	670
Library	120
University Union	
To Summer Theatre Tour	340
Toward purchase of a four-oared racing boat for the Rowing Club	780

Gifts in Kind

James Hardie & Co. Pty Ltd, plant trough and freeform aqua planta to the Monash Kindergarten (Education)

Esso Australia Ltd and Broken Hill Pty Co. Ltd: a marine research vessel *Scylla* valued at \$91 000 and equipped with anemometers, wind direction indicator, barometric pressure sensors and two radio transmitters and shore stations. The vessel will be used to transmit and

record wind, weather and oceanographic data for ocean engineering studies (Mechanical Engineering)

Ansell International, cine film prepared by Educational Technology Section (Obstetrics and Gynaecology)

Sanitarium Health Food Co., donation of breakfast cereals to 1978 Monash University Summer Theatre Tour (University Union)

Beecham Australia Pty Ltd, 510 gm of carbenicillin valued at approximately \$1 000, to be used in genetic research on bacteria (Genetics)

Consul General, Federal Republic of Germany, Dr F. J. Kroneck, gift of books for presentation to the 1977 winners of the Goethe Prizes for German Studies (German)

Estate of the late Dr H. June Pash, library of obstetric and gynaecological texts, monographs and journals (Obstetrics and Gynaecology, Queen Victoria Medical Centre)

General Motors-Holdens Pty Ltd, two Holden engines and one automatic transmission for study purposes (Mechanical Engineering)

Commonwealth Government Research Grants

The following research grants, recommended by the Australian Research Grants Committee, were approved by the Commonwealth Government:

Investigator	Project Title	Grant \$
ARTS		
Anthropology and Sociology		
Dr L. J. Bryson, Dr R. Brehaut and Mr R. Baker	Consumer, agency and policy: perspectives on the services . . .	8 350
Professor M. G. Swift and Mr G. J. Missen	Malay settlements in Kuantan	10 235
Geography		
Dr C. A. Maher and Dr K. O'Connor	Spatial organisation within Australian metropolitan areas	5 132
Dr A. P. Kershaw	The vegetation history of North East Queensland	4 338
Dr J. M. Powell	Conservation and environmental management in Australia 1914-1945	966
Dr R. J. Wasson	Quaternary geological and geomorphological history and environment of the Cagayan Valley, the Philippines	1 981
Dr J. A. Peterson, Dr D. G. Mercer and Mr D. L. Dunkerley	Glaciers and climatic changes in New Guinea	3 463

Investigator	Project Title	Grant \$
History		
Associate Professor E. D. Potts	Australian-American contacts during World War Two, especially the relations between American G.I.s and Australian civilians and any resulting cultural interchanges	1 220
Professor J. D. Legge	Western educated intellectuals in Indonesia in the later stages of Dutch rule, during the occupation and revolution in the early years of independence	4 170
Dr A. G. Serle	Biography of General Sir John Monash	11 238
Indonesian and Malay		
Dr L. F. Brakel	The impact of traditional Malay literature in Sumatra	2 500
Linguistics		
Associate Professor J. T. Platt	Variation in Singapore and Malaysian English and the role of English in two Multilingual-Polyglossic societies	5 978
Music		
Dr M. J. Kartomi	Traditional music of Sumatra	4 568
ECONOMICS AND POLITICS		
Economics		
Dr Y. K. Ng	Business expectation and economic recovery without aggravating inflation	4 650
Politics		
Dr B. S. Harvey	Social and political history of South Sulawesi, Indonesia, 1942-1965	4 740
Dr A. Davidson	The theory and practice of Italian Communism	4 937
ENGINEERING		
Materials Engineering		
Professor I. J. Polmear	Mechanism of stress-corrosion cracking in Al-Zn-Mg alloys containing small additions of silver	18 555
Dr P. F. Thomson	Application of the finite-element method to analysis of steady-state deformation — strip rolling	3 750
Dr B. A. Parker and Dr J. R. Griffiths	Second phase particles in alloys and their effect on mechanisms of deformation (access to equipment awarded Prof. Polmear above)	Nil Grant

Investigator	Project Title	Grant \$
Chemical Engineering		
Associate Professor J. B. Agnew	Dynamic studies of heterogeneous reaction systems	17 410
Professor O. E. Potter and Mr A. B. Whitehead	Similarity in fluidisation	20 680
Chemical Engineering		
Dr D. V. Boger and Dr C. Tiu	Acceleration and deceleration of viscoelastic fluids	11 506
Professor O. E. Potter	Oxygen and other diffusion coefficients in organic liquids	7 397
Civil Engineering		
Dr G. I. N. Rozvany	Optimisation of structural layouts by analytical methods	11 488
Associate Professor I. B. Donald and Dr I. W. Johnston	An investigation into the engineering properties of Melbourne mudstone with special reference to failure criteria for drained and undrained conditions	12 380
Professor N. W. Murray	Elastic and plastic buckling of thin-walled steel structures	7 150
Electrical Engineering		
Dr K. E. Forward	Anodised GaAs and Al films and their application to field effect devices	1 471
Dr S. J. Redman	The application of electrical circuit models of neurones to the analysis of junctional mechanisms	12 748
Mechanical Engineering		
Dr J. B. Hinwood	Cellular structure in a turbulent shear flow	14 136
Mr C. W. Ambrose	Comparison of models of regenerative dehumidifiers in solar air conditioning applications	4 300
MEDICINE		
Biochemistry		
Dr S. Marzuki and Professor A. W. Linnane	The effects of altered biochemical function on the structure and function of mitochondrial membranes	49 358
Dr P. Nagley and Professor A. W. Linnane	Informational macromolecules in nucleocytoplasmic interactions	11 103
Professor A. W. Linnane and Associate Professor H. B. Lukins	Biogenesis of mitochondria	24 624

Investigator	Project Title	Grant \$
Professor D. A. Lowther, Dr H. C. Robinson and Dr J. D. Sandy	Structural studies of connective tissue including factors involved in the maintenance of cartilage	14 763
Professor D. A. Lowther, Associate Professor B. N. Preston Dr C. J. Handley	Regulation of matrix formation as an expression of the differentiated state of chondrocytes cultured <i>in vitro</i>	12 044
Dr P. L. Jeffrey and Dr L. Austin	Supply, turnover and role of synaptic components	8 802
Dr J. McD. Armstrong	Regulation of phosphoprotein phosphatases of mammalian tissue	2 000
Dr L. Austin and Dr C. Kwok	The role of the cell body in the renewal of axonal and synaptic components	6 250
Professor D. A. Lowther and Dr W. H. Murphy	The biochemistry of cartilage glycoproteins	2 500
Microbiology		
Dr R. C. Bayly	Evolutionary relatedness of enzymes of meta-fission degradative pathways	9 984
Pathology and Immunology		
Dr H. A. Ward and Dr R. L. Boyd	Mechanisms of development and differentiation of B lymphocytes	4 000
Pharmacology		
Professor A. L. A. Boura	Learning retardation produced by the action of antibiotics and amino acid neuro transmitters on the developing brain	16 180
Physiology		
Dr B. G. Cragg	Measurement of neuronal metabolism and signalling of autoradiography	711
Professor R. Potter Dr M. Weiss	Factors involved in dynamic control of movement Biogenesis of steroids by the adrenal tissue of the Australian monotremes and marsupials	18 683 9 500
Professor A. K. McIntyre, Professor R. Porter and Dr U. Proske	Role of joint receptors in proprioception and the control of muscles	16 948
Dr U. Proske	Responses of tendon organs during contraction of single motor units	1 150
Dr E. M. McLachlan	Synaptic mechanisms at peripheral synapses	5 928
Dr L. Aitkin	Connections of the auditory midbrain	5 704

Investigator	Project Title	Grant \$
Dr G. D. S. Hirst and Professor M. E. Holman	The properties and synaptic connections of the nerve cells of the intestine	7 206
Dr I. R. McDonald	Adrenal function in Australian monotremes and marsupials	18 021
Dr C. L. Gibbs and Dr D. S. Loisel	Resting metabolism (heat production) of isolated papillary muscle	600
Professor M. E. Holman	Innervation of smooth muscle	27 926
Professor A. K. McIntyre and Dr U. Proske	Role of deep receptors in control of skeletal muscle	8 038
Dr R. A. Westerman	Mammalian nerve-muscle interactions	11 963
SCIENCE		
Botany		
Dr A. C. Lawrie	Studies on native Australian legumes	5 900
Dr N. D. Hallam	Fine structure of plants adapted to desiccation	13 415
Dr D. F. Gaff	Desiccation tolerant plants particularly grasses	10 058
Dr T. P. O'Brien	Plant armour plate: Polysaccharide-phenol complexes and the resistance of cell walls to fungal attack	7 200
Dr M. N. Clayton	Studies on the reproductive biology and genetics of some brown algae, together with related taxonomic investigations	5 400
Dr G. A. M. Scott	A survey of taxonomic revision of the liverworts of Victoria	3 000
Chemistry		
Dr G. B. Deacon	Lanthanide and actinide organometallics	13 426
Professor R. D. Brown and Dr P. D. Godfrey	Molecules in space	43 530
Dr G. B. Deacon	Elimination reactions in organometallic synthesis	1 800
Dr D. J. Collins, Dr F. W. Eastwood and Dr T. P. O'Brien	The fate of solasodine in ripening fruit of <i>solanum laciniatum</i>	800
Dr I. D. Rae	Structural influences on fluorine-fluorine coupling constants	1 200
Professor R. D. Brown and Dr P. D. Godfrey	Rotational spectra of ions	24 351
Dr B. M. Gatehouse	Crystal chemistry of the solid state	16 829
Professor B. O. West and Dr K. S. Murray	Synthesis, chemistry and electrochemistry of organometallic and metallo derivatives of some transition elements	8 100

Investigator	Project Title	Grant \$
Dr K. S. Murray	Single crystal magnetic and spectral studies of inorganic and bioinorganic compounds	1 000
Dr J. K. Yandell	Mechanisms of the reactions of electron transfer enzymes	2 300
Dr M. F. O'Dwyer, Dr J. E. Kent and Dr R. J. Shaw	Perturbations in the lowest excited single state of sulphur dioxide	2 500
Professor W. R. Jackson	Reactions of organic compounds over supported metal catalysts	800
Associate Professor R. S. Dickson	Organometallic intermediates in the transition metal assisted reactions of substituted alkynes	2 300
Dr D. StC. Black	Methods of synthesis based on nitrone cyclo-addition reactions	11 006
Professor W. R. Jackson	Asymmetric addition reactions of hydrogen cyanide. A potential new route to resolved amino acids	6 980
Dr F. P. Larkins	Theoretical studies in X-ray and in electron spectroscopy	500
Dr F. P. Larkins	Chemisorption and catalytic studies on oxide systems	1 500
Dr I. R. McKinnon and Dr. I. R. Wilson	Chemistry of the lower stratosphere	2 000
Dr A. D. E. Pullin	Inert gas matrix isolation studies	2 563
Dr F. R. Burden	Simulation studies of atmospheric reactions	2 200
Dr D. J. Collins, Dr F. W. Eastwood and Professor J. M. Swan	Chemical studies of <i>Solanum</i> alkaloids	1 000
Dr K. S. Murray	Biological iron compounds	1 800
Dr R. K. Haynes	Lewis acid catalysed oxygenation of olefins and aromatic compounds	11 000
Dr J. Youatt	Ultrastructure and chemical changes in developing sporangia of <i>Allomyces</i>	7 300
Earth Sciences		
Professor B. E. Hobbs and Dr M. A. Etheridge	An experimental investigation of the influence of phase transformations on the mechanical properties of rocks	9 603
Dr I. A. Nicholls	The origin of potassium-rich volcanic rocks in island arc and continental margin environments	5 603
Dr I. A. Nicholls and Mr V. J. Wall	Crystallisation and origin of the aluminous granitic magmas	4 100
Mr V. J. Wall	Experimental and thermodynamic studies in the system	7 460

Investigator	Project Title	Grant \$
Dr L. A. Frakes	Sedimentation in Corner Inlet, Victoria	5 300
Mr V. J. Wall	Hydrothermal mobilisation, transport and deposition of tin	2 000
Genetics		
Dr V. Krishnapillai	Genetics of transfer of <i>Pseudomonas aeruginosa</i> R plasmids	2 500
Dr D. R. Smyth	Patterns of DNA organisation in mitotic and meiotic chromosomes of <i>Lilium</i>	5 917
Professor B. W. Holloway, Dr A. F. Morgan and Dr V. Krishnapillai	Genetic organisation of <i>Pseudomonas</i>	23 800
Dr W. McKechnie and Dr D. Morgan	An elucidation of biochemical and genetic factors which maintain enzyme polymorphisms in <i>Drosophila melanogaster</i>	3 800
Computer Science		
Associate Professor A. Montgomery	File storage system design and evaluation	11 467
Dr J. L. Keedy	Monads: software methods for complex systems	15 417
Mathematics		
Professor R. Van der Borgh	Finite amplitude convection in compressible fluids and its application to astronomical problems	11 488
Dr L. J. Gleeson	Cosmic-ray propagation in the solar system	6 000
Dr J. J. Monaghan	A numerical technique for fluid systems in astrophysics and meteorology	15 350
Professor J. N. Crossley	Recursive content of algebra and analysis	5 545
Psychology		
Dr S. A. Crossley	Behaviour genetic studies of naturally occurring populations of <i>Drosophila melanogaster</i>	1 650
Dr D. M. Thomson	Studies in episodic memory	11 673
Dr L. M. Aitkin and Dr W. R. Webster	Organisation of the central auditory pathway	10 167
Mr M. B. Macmillan	Translation of documents on the history of psychoanalysis	1 100
Dr D. R. F. Irvine	Studies of acoustic input to single cells in non-specific, polysensory cortical and sub-cortical areas	600
Mr M. B. Macmillan	A study of the development of psychoanalytic personality theory	2 000
Dr J. L. Bradshaw and Mr N. C. Nettleton	Human information processing: determinants and correlates of performance	13 442

Investigator	Project Title	Grant \$
Dr C. S. Chen	Induction of audiogenic seizure susceptibility in normal, seizure-resistant mice	8 905
Dr K. I. Forster	Visual processing of sentences	11 514
Professor R. H. Day	The components of geometrical visual illusions	8 020
Physics		
Dr T. J. Hicks	Polarization analysis of diffuse neutron scattering	14 499
Dr J. D. Cashion and Dr P. E. Clark	Mossbauer scattering from solids	8 000
Dr P. E. Clark	Physical properties of composite materials	1 200
Associate Professor J. H. Smith	Magnetic properties of some mictomagnetic alloys and the metamagnetic compound Au ₂ Mn	3 000
Dr A. C. McLaren	Direct observation and identification of crystal defects and their role in the mechanisms of crystallisation and deformation of minerals and rocks	3 000
Professor T. F. Smith	Measurements of the thermal properties associated with solid state transitions	26 460
Dr J. R. Pilbrow	Electron spin resonance in crystals and complexes	7 980
Dr J. D. Cashion and Dr J. A. Barclay	Studies of solids at low temperatures and high magnetic fields	11 940
Dr T. R. Finlayson and Professor T. F. Smith	The study of superconducting transition metal alloys and compounds	5 000
Dr R. J. Fleming	Charge transport mechanisms and alternating current electrical conductivity in some simple organic polymers	4 100
Dr A. C. McLaren and Professor B. E. Hobbs	Applications of the ion beam spectrochemical analyser in mineralogy, petrology and deformation studies	12 846
Zoology		
Dr J. Baldwin	Role of octopine dehydrogenase in energy metabolism of molluscs	2 400
Dr B. Roberts	Studies of puffing proteins in the footpad nuclei of the fleshfly <i>Sarcophaga</i> sp.	1 750

Education Research and Development Committee on Research and Development in Education

The following research grants recommended by the Education Research and Development Committee on Research and Development in Education were approved by the Commonwealth Government.

Education

Dr J. McArthur	The first five years of teaching	1,200
Professor M. D. Neale	Preparation of a seminar paper on reading disabilities	650

Investigator	Project Title	Grant \$
Professor R. P. Tisher	Survey of teacher induction procedures	3 950
Dr B. M. Bullivant	A survey of teacher education for pluralist societies	1 214

National Health and Medical Research Council

The following research grants recommended by the National Health and Medical Research Council, were approved by the Commonwealth Government.

Anatomy

Professor D. M. de Kretser	Ultrastructural and hormonal studies on the human and mammalian testis	10 357
Dr B. W. Oakes	Factors influencing the formation of extra cellular products by vascular smooth muscle cells in tissue culture	9 804
Professor G. C. Schofield	Histamine production in epithelial cells of the gastric mucosa	2 400
Dr G. C. Smith	Neuronal basis of psychoneuroendocrine responses	21,883

Biochemistry

Professor J. Bornstein	Pituitary polypeptides and metabolic control in diabetes mellitus	22 946
Professor J. Bornstein, Dr P. Zimmet and Dr P. Simms	Development of radio-immuno assays for part sequences of growth hormone	10 682
Dr M. K. Gould and Dr I. G. Sloan	Mechanism of the insulin-antagonistic action of growth hormone: a unified hypothesis	2 700
Dr M. K. Gould and Dr I. G. Sloan	Regulation of sugar transport in skeletal muscle: Mechanism of insulin action	2 900
Professor A. W. Linnane	Development of new anti-fungal, antiprotozoal compounds for clinical use	16,087
Professor D. A. Lowther and Dr R. L. Welton	Biochemistry of the inflammatory response in arthritis	9 804
Professor D. A. Lowther and Associate Professor B. N. Preston	The effect of anti-inflammatory drugs on normal and inflamed tissues	19 920

Electrical Engineering

Professor D. G. Lampard and Associate Professor W. A. Brown	Computer control of respiration and anaesthesia	27 790
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Investigator	Project Title	Grant \$
Genetics		
Professor B. W. Holloway, Dr A. F. Morgan and Dr L. V. Asche	Detection and characterisation of antibiotic resistance plasmids in hospital strains of <i>Pseudomonas aeruginosa</i>	14 633
Medicine		
Dr G. N. Brodie	The effect of ristocetin on blood platelets	14 517
Professor B. G. Firkin and Dr M. B. van der Weyden	Pharmacological effects of drugs on erythropoiesis with particular reference to megaloblastic maturation and DNA syntheses	13 967
Professor C. I. Johnston	Release and storage of polypeptide hormones	14 823
Professor C. I. Johnston and Professor P. I. Korner	Renin secretory mechanisms: role in physiological and pathological states	27 159
Dr M. B. van der Weyden	Role of adenosine deaminase in immune function	16 202
Microbiology		
Professor S. Faine	Pathogenesis and virulence in leptospirosis	15 087
Dr S. Graves	Growth in virulent <i>Treponema pallidum in vitro</i>	14 517
Dr E. G. Westaway	Biochemical and immunochemical studies of arbo-viruses	12 370
Dr E. G. Westaway and Dr P. J. Wright	Translation of arbovirus proteins in animal cells	18 556
Obstetrics and Gynaecology		
Dr A. Lopata	The action of luteinizing hormone on the onset of meiotic maturation in explanted rat oocytes	2 000
Associate Professor W. A. W. Walters and Professor A. L. A. Boura	The role of endogenous prostaglandins E and F in human ovulation and corpus luteum function	3 200
Paediatrics		
Associate Professor R. A. McMahon and Associate Professor C. M. Kellerman	Intravenous feeding of premature babies	11 717
Pathology and Immunology		
Professor R. C. Nairn	Effects of immunological anergy in inflammatory and neoplastic diseases	27 976
Pharmacology		
Associate Professor G. A. Bentley	A pharmacological study of cerebral α -adrenoreceptors	16 148

Investigator	Project Title	Grant \$
Professor A. L. A. Boura	A study of the mechanisms underlying the changes in arteriole smooth muscle sensitivity and vascular resistance associated with experimental hypertension	15 617
Professor A. L. A. Boura, Professor D. G. Lampard, Professor B. O. West and Dr J. K. Yandell Dr J. N. O'Neill	Chemistry and Pharmacology of analogues of the hypotensive drug sodium nitroprusside A study of the local influence of the sympathetic nervous system on the function and development of the ovary and ovarian ligaments	14 933
Psychological Medicine		
Professor W. Ironside and Dr D. Mushin	Maternal factors predictive of mother-infant interactional disturbances	25 282
Physics		
Dr P. P. Phahey, Professor W. A. Rächinger and Dr H. J. Orams	Ultrastructure and properties of dentine and enamel	1 100
Physiology		
Dr B. G. Cragg	Senile plaques, and the reaction of the brain to particles of foreign substances	16 444
Dr B. G. Cragg	Disorders of neuronal migration and connections in the brain after methylazoxymethanol treatment	17 283
Dr C. L. Gibbs and Dr J. B. Chapman Dr E. McLachlan	Energetics of mammalian muscle contraction The role of the sympathetic preganglionic neurones in the control of blood pressure	1 650 2 200
Professor R. Porter	Central nervous mechanisms controlling limb movement	16 857
Professor R. Porter	Functional recovery after nerve transplantation in primates	17 956
Surgery		
Dr D. F. Scott	Electroanalgesia for acute post-operative pain control	24 765
Paediatrics		
Dr K. Hayes	Prenatal cytomegalovirus infection; detection, significance and treatment	10 557
Dean of Medicine's Department		
Professor G. C. Schofield	Role of parietal cell membranes in gastric acid secretion	12 257

Some of the gifts and grants shown above have payment schedules which extend over two or more years. The following table, which analyses the sources of grants and donations, shows actual funds received during 1978 and is therefore not reconcilable with the list.

Sources of Grants and Donations

	\$000	%
Private donations and indirect government research grants	1,586	48.3
Australian Research Grants Committee	1,035	31.5
National Health and Medical Research Council	636	19.4
Education Research and Development Committee	25	.8
	<u>3,282</u>	<u>100.0</u>

In addition to the above gifts and grants there have been many gifts of books, journals, artifacts and other material, some very valuable to the library, departmental libraries, The Monash Art Collection and departmental museums.

The appeal by the University for the building of a pipe organ in Robert Blackwood Hall as a tribute to the first Vice-Chancellor, Sir Louis Matheson, reached a total of \$325,591 by 31 December 1978. The Library appeal reached a total of \$271,573; the Development Fund \$17,440; the Special Education Fund \$7,659; gifts for the Elizabeth Eggleston Memorial Appeal totalled \$34,256; the Krongold Centre appeal \$12,965.

ACCOUNTS FOR THE YEAR 1978

Certificate by Monash University

In our opinion the statements which follow, numbered 1 to 19, correctly record the transactions of Monash University for the year ended 31 December 1978.

R. L. Martin
Vice-Chancellor

F. H. Johnson
Comptroller

16 August 1979

AUDITOR-GENERAL'S CERTIFICATE

Pursuant to the provisions of Section 36 of the Monash University Act 1958

The books and accounts of Monash University for the year ended 31 December 1978 have been audited. In my opinion the statements of account which follow, numbered 1 to 19, correctly summarize the financial transactions for the year.

B. J. Waldron
Auditor-General

22 August 1979

**1 Summary Statement showing Income and Expenditure for all general purposes
for the year ended 31 December 1978**

	Teaching Hospitals				
	Recurrent Grant	Building Projects Grant	Equipment Grant	Recurrent Grant	Building Projects Grant
	\$	\$	\$	\$	\$
Income					
Cwealth Government Grants	51,603,000	2,529,000	1,388,000	204,000	59,500
Other Income					
Total Income	51,603,000	2,529,000	1,388,000	204,000	59,500
<i>Less</i>					
Expenditure					
Academic Activities	38,092,532	16,284	1,313,152	204,000	2,189
Academic Services	4,877,766		605,263		
Student Services	1,217,627		488		
General Services	9,684,340	3,758,880	138,661		141,250
Public Services	69,063				
Other	57,163				
Total Expenditure	53,998,491	3,775,164	2,057,564	204,000	143,439
Surplus (Deficit) for the year	(2,395,491)	(1,246,164)	(669,564)	—	(83,939)
Surplus (Deficit) at 1 January 1978	2,702,618	1,302,717	669,564	—	107,975
Accumulated Surplus at 31 December 1978	307,127	56,553	—	—	24,036

Special Research Grant	Private and Indirect Gov't Research Grants	General Donations	Union Activities	Student Assist. Fund	Union Devel't Fund	General Auxiliary Activities	Fire Ins'ce Fund	Total	1977 Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
454,000	1,035,277							57,272,777	54,397,231
	1,867,367	474,940	1,199,503	446	516,792	3,537,250	9,970	7,606,268	6,672,049
454,000	2,902,644	474,940	1,199,503	446	516,792	3,537,250	9,970	64,879,045	61,069,280
453,774	2,820,703	180,655						43,083,289	37,554,341
	8,511	62,962						5,554,502	4,449,842
	116,136	13,796						1,348,047	1,228,251
226	5,060	52,335			414,009	1,014,529		15,209,290	12,017,149
								69,063	70,946
		98,162	1,255,194	149	240,863	1,385,042		3,036,573	2,883,750
454,000	2,950,410	407,910	1,255,194	149	654,872	2,399,571	—	68,300,764	58,204,279
—	(47,766)	67,030	(55,691)	297	(138,080)	1,137,679	9,970	(3,421,719)	2,865,001
—	514,527	986,654	122,500	8,030	(159,281)	3,566,481	114,758	9,936,543	7,071,542
—	466,761	1,053,684	66,809	8,327	(297,361)	4,704,160	124,728	6,514,824	9,936,543

2 Recurrent Grant
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
48,692,000	Income	
	Commonwealth Government Grants	51,603,000
<u>48,692,000</u>	Total Income	<u>51,603,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
30,542,044	Salaries and Related Items	32,672,708
1,557,512	Maintenance	2,277,814
631,451	Computing Services	787,551
449,648	Equipment	1,528,730
222,723	Study Leave Travel	260,757
87,472	Appointment Costs	53,988
360,374	Other Items	510,984
<u>33,851,224</u>		<u>38,092,532</u>
	<i>Academic Services</i>	
	Libraries —	
2,273,548	Salaries and Related Items	2,481,085
758,233	Books and Journals	1,335,920
72,187	Maintenance	102,587
80,293	Computing Services	116,628
219 Cr	Equipment	23,245
18,201	Other Items	2,525
<u>3,202,243</u>		<u>4,061,990</u>
	Computing —	
557,348	Salaries and Related Items	614,913
177,304	Maintenance	170,062
2,325	Equipment	250,750
815,882 Cr	Recoveries	1,085,528 Cr
8,399 Cr	Other Items	1,451
<u>87,304 Cr</u>		<u>48,352 Cr</u>
	Other Academic Services —	
756,913	Salaries and Related Items	805,379
143,289	Other Items	58,749
<u>900,202</u>		<u>864,128</u>
<u>37,866,365</u>	<i>Sub-Total carried forward</i>	<u>42,970,298</u>

2 Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1978 (continued)

1977 \$		1978 \$
37,866,365	<i>Sub-Total brought forward</i>	42,970,298
	<i>Student Services</i>	
425,051	Salaries and Related Items	453,375
667,213	Scholarships	743,178
15,071	Other Items	21,074
1,107,335		1,217,627
	<i>General Services</i>	
	Administration —	
3,191,145	Salaries and Related Items	3,309,799
114,693	Computing Services	185,269
52,650	Other Items	156,030
3,358,488		3,651,098
	Overheads —	
439,070	Postage, Telephone and Advertising	504,788
50,820	Furniture and Furnishings	91,730
635,810	Power, Lighting and Heating	724,910
456,411	Other Items	592,875
1,582,111		1,914,303
	Buildings and Grounds —	
2,455,599	Salaries and Related Items	2,641,576
1,145,661	Maintenance	1,430,539
37,606	Other Items	46,824
3,638,866		4,118,939
	<i>Public Services</i>	
	Continuing Education —	
64,459	Salaries and Related Items	63,358
4,812	Other Items	5,705
69,271		69,063
55,935	<i>Union Administration</i>	57,163
47,678,371	Total Expenditure	53,998,491
1,013,629 (S)	Deficit for the year	2,395,491
1,512,989	Surplus at 1 January 1978	2,702,618
	<i>Add</i>	
176,000	Prior year's adjustment	—
2,702,618	Accumulated Surplus at 31 December 1978	307,127

3 Building Projects Grant
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
2,747,366	Income	
2,747,366	Commonwealth Government Grant	2,529,000
	Total Income	2,529,000
	<i>Less</i>	
	Expenditure	
2,379,464	New Buildings	2,826,901
24,407	Furniture and Furnishings	96,851
201,390	Site Development	835,128
40,146	Teaching and Research — Equipment	16,284
2,645,407	Total Expenditure	3,775,164
101,959 (S)	Deficit for the year	1,246,164
1,200,758	Surplus at 1 January 1978	1,302,717
1,302,717	Accumulated Surplus at 31 December 1978	56,553

4 Equipment Grant

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
1,308,000	Commonwealth Government Grant	1,388,000
<u>1,308,000</u>	Total Income	<u>1,388,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
615,401	Equipment	1,313,152
	<i>Academic Services</i>	
	Libraries —	
50,817	Books and Journals	39,299
51,073	Equipment	54,070
<u>101,890</u>		<u>93,369</u>
89,408	Computing	427,097
117,543	Other Academic Services	84,797
<u>1,684</u>		<u>488</u>
	<i>Student Services</i>	
	<i>General Services</i>	
56,216	Administration	93,579
—	Overheads	157
—	Buildings and Grounds	44,925
<u>56,216</u>		<u>138,661</u>
	<i>Public Services</i>	
431	Continuing Education	—
996	<i>Union Activities</i>	—
<u>983,569</u>	Total Expenditure	<u>2,057,564</u>
324,431 (S)	Deficit for the year	669,564
345,133	Surplus at 1 January 1978	669,564
<u>669,564</u>	Accumulated Surplus at 31 December 1978	<u>—</u>

5 Teaching Hospitals: Recurrent Grant
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
194,000	Commonwealth Government Grant	204,000
<u>194,000</u>	Total Income	<u>204,000</u>
	<i>Less</i>	
	Expenditure	
	Academic Activities —	
	Teaching and Research —	
194,000	Maintenance	204,000
<u>194,000</u>	Total Expenditure	<u>204,000</u>
<u>—</u>	Surplus for the year	<u>—</u>

6 Teaching Hospitals: Building Projects Grant
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
—	Commonwealth Government Grant	59,500
<u>—</u>	Total Income	<u>59,500</u>
	<i>Less</i>	
	Expenditure	
	New Buildings	141,250
780	Equipment	2,189
<u>780</u>	Total Expenditure	<u>143,439</u>
780	Deficit for the year	83,939
108,755	Surplus at 1 January 1978	107,975
<u>107,975</u>	Accumulated Surplus at 31 December 1978	<u>24,036</u>

7 Special Research Grant
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
430,000	Commonwealth Government Grant	454,000
<u>430,000</u>	Total Income	<u>454,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
379,038	Teaching and Research —	
17,416	Salaries and Related Items	414,458
100	Maintenance	30,888
9,612	Equipment	—
	Other Items	8,428
<u>406,166</u>		<u>453,774</u>
	<i>Academic Services</i>	
	Libraries —	
23,667	Books and Journals	—
	<i>General Services</i>	
167	Postage, Telephone and Advertising	226
<u>430,000</u>	Total Expenditure	<u>454,000</u>
<u>—</u>	Surplus for the year	<u>—</u>

8 Private and Indirect Government Research Grants
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
1,025,865	Income	1,035,277
	Commonwealth Government Grant	
	Grants and Donations	
1,011,413	Government Financed Bodies	1,113,368
465,174	Other	753,999
1,476,587		1,867,367
2,502,452	Total Income	2,902,644
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
1,386,926	Salaries and Related Items	1,776,107
385,985	Maintenance	545,504
247	Computing Services	330
424,470	Equipment	424,072
54,560	Other Items	74,690
2,252,188		2,820,703
	<i>Academic Services</i>	
	Other Academic Services —	
32 Cr	Salaries and Related Items	5,990
32	Other Items	2,521
—		8,511
	<i>Student Services</i>	
89,020	Scholarships	116,136
	<i>General Services</i>	
5,925	Postage, Telephone and Advertising	4,860
64	Furniture and Furnishings	—
41	Other Items	200
6,030		5,060
	<i>Public Services</i>	
	Continuing Education —	
158	Salaries and Related Items	—
66	Other Items	—
224		—
2,347,462	Total Expenditure	2,950,410
154,990 (S)	Deficit for the year	47,766
359,537	Surplus at 1 January 1978	514,527
514,527	Accumulated Surplus at 31 December 1978	466,761

9 General Donations

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
	Donations	
139,838	Government Financed Bodies	89,528
260,205	Other	249,450
<u>400,043</u>		<u>338,978</u>
	Appeals	
11,046	Robert Blackwood Hall — Organ	22,382
39,440	Library Books	32,616
27,849	Other	18,040
<u>78,335</u>		<u>73,038</u>
55,919	Other Income	62,924
<u>534,297</u>	Total Income	<u>474,940</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
58,020	Salaries and Related Items	72,623
27,821	Maintenance	37,399
65,481	Equipment	20,345
43,114	Other Items	50,288
<u>194,436</u>		<u>180,655</u>
	<i>Academic Services</i>	
	Libraries —	
3,625	Salaries and Related Items	13,366
12,300	Books and Journals	9,170
5,721	Maintenance	1,875
—	Computing Services	331
—	Equipment	439
—	Other Items	437
<u>21,646</u>		<u>25,618</u>
	Other Academic Services —	
165	Salaries and Related Items	20,282
80,382	Other Items	17,062
<u>80,547</u>		<u>37,344</u>
	<i>Student Services</i>	
8,150	Salaries and Related Items	1,055
15,836	Scholarships	2,581
6,226	Other Items	10,160
<u>30,212</u>		<u>13,796</u>
<u>326,841</u>	<i>Sub-Total carried forward</i>	<u>257,413</u>

9 General Donations

Statement of Income and Expenditure for the year ended 31 December 1978 (continued)

1977		1978
\$		\$
326,841	<i>Sub-Total brought forward</i>	257,413
	<i>General Services</i>	
	Overheads —	
557	Furniture and Furnishings	5,298
3	Other Items	359
560		5,657
	<i>Buildings and Grounds —</i>	
60,802	New Buildings	45,058
24	Maintenance	1,620
60,826		46,678
	<i>Public Services</i>	
	Continuing Education —	
279	Salaries and Related Items	—
741	Other Items	—
1,020		—
	<i>Other Items</i>	
2,538	Union Activities	880
442	Halls of Residence	1,072
2,980		1,952
	<i>Appeals</i>	
7,890	Robert Blackwood Hall — Organ	42,060
39,586	Library Books	54,570
22,894	Other	420 Cr
70,370		96,210
462,597	Total Expenditure	407,910
71,700	Surplus for the year	67,030
914,954	Surplus at 1 January 1978	986,654
986,654	Accumulated Surplus at 31 December 1978	1,053,684

Note: Gifts in kind are detailed on pages 67 and 68 of this report

10 Union Activities

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
1,048,635	Union Fees	1,104,578
74,604	Other	94,925
<u>1,123,239</u>	Total Income	<u>1,199,503</u>
	<i>Less</i>	
	Expenditure	
238,336	Sports Association	273,017
162,614	Monash Association of Students	190,076
90,737	Clubs and Societies Council	102,218
87,882	Union Tuition and Courses	105,411
141,183	Union Building Management	113,099
322,674	Union Administration and Special Projects	434,194
	Business Activities —	
43,669	Catering — Operating Deficit	63,619
33,927	Other — Operating Deficit	8,816
<u>1,121,022</u>		<u>1,290,450</u>
	<i>Less</i>	
29,609	Contribution by University for use of facilities by staff	35,256
<u>1,091,413</u>	Total Expenditure	<u>1,255,194</u>
31,826 (S)	Deficit for the year	55,691
90,674	Surplus at 1 January 1978	122,500
<u>122,500</u>	Accumulated Surplus at 31 December 1978	<u>66,809</u>

11 Student Assistance Fund

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
373	Income	446
	<i>Less</i>	
26	Expenditure	149
<u>347</u>	Surplus for the year	<u>297</u>
7,683	Surplus at 1 January 1978	8,030
<u>8,030</u>	Accumulated Surplus at 31 December 1978	<u>8,327</u>

12 Union Development Fund
Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
348,494	Union Development Fees	366,268
126,705	Rentals and Other	150,524
<u>475,199</u>	Total Income	<u>516,792</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
508,178	New Buildings	268,628
89,955	Maintenance — Buildings	117,631
15,371	Furniture and Furnishings	27,750
<u>613,504</u>		<u>414,009</u>
	<i>Other Items</i>	
21,068	Equipment	48,463
58,488	Occupancy Expense	68,887
31,845	Other Items	123,513
<u>111,401</u>		<u>240,863</u>
<u>724,905</u>	Total Expenditure	<u>654,872</u>
249,706	Deficit for the year	138,080
90,425 (S)	Deficit at 1 January 1978	159,281
<u>159,281</u>	Accumulated Deficit at 31 December 1978	<u>297,361</u>

13 General Auxiliary Activities

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
1,796,108	Outside Earnings	1,936,232
1,257,834	Other Income	1,601,018
<u>3,053,942</u>	Total Income	<u>3,537,250</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
	Buildings and Grounds —	
15,748	New Buildings	87,605
42,305	Site Acquisition	818,940
17,847	Site Development	59,681
14,156	Maintenance	48,303
<u>90,056</u>		<u>1,014,529</u>
	<i>Other Items</i>	
9,151	University Bookshop — Net Deficit	12,013
37,675 Cr	Halls of Residence — Net Surplus	8,891 Cr
	South East Flats —	
6,115	Equipment and Furniture	—
3,238	Net Deficit	7,756
146	Owned Houses and Transit Flats	11,267 Cr
1,590,272	Outside Earnings	1,428,794
20,618 Cr	Other	43,363 Cr
<u>1,550,629</u>		<u>1,385,042</u>
<u>1,640,685</u>	Total Expenditure	<u>2,399,571</u>
1,413,257	Surplus for the year	1,137,679
2,329,224	Surplus at 1 January 1978	3,566,481
<u>3,742,481</u>		<u>4,704,160</u>
	<i>Less</i>	
176,000	Prior year's adjustment	—
<u>3,566,481</u>	Accumulated Surplus at 31 December 1978	<u>4,704,160</u>

14 Fire Insurance Fund

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
8,412	Income from Investments	9,970
	<i>Less</i>	
	Expenditure	
5,064	Repair of Fire Damage	—
<u>3,348</u>	Surplus for the year	<u>9,970</u>
111,410	Surplus at 1 January 1978	114,758
<u>114,758</u>	Accumulated Surplus at 31 December 1978	<u>124,728</u>

15 Statement of Balances for all general purposes at 31 December 1978

	1977		1978
\$	\$		\$
2,702,618		Accumulated Funds	
1,302,717		Recurrent Grant	307,127
669,564		Building Projects Grant	56,553
—		Equipment Grant	—
		Teaching Hospitals Recurrent Grant	—
107,975		Teaching Hospitals Building	
—		Projects Grant	24,036
		Special Research Grant	—
514,527		Private and Indirect Government	
986,654		Research Grants	466,761
122,500		General Donations	1,053,684
8,030		Union Activities	66,809
159,281 Dr		Student Assistance Fund	8,327
3,566,481		Union Development Fund	297,361 Dr
114,758		General Auxiliary Activities	4,704,160
		Fire Insurance Fund	124,728
	<u>9,936,543</u>	Total Accumulated Funds	<u>6,514,824</u>
		<i>Represented by:</i>	
		Investments	
358,298		Fixed-interest Securities, at	
421,833		lower of cost or par	340,298
		Ordinary Shares, at cost	413,013
		(Market Value —	
		31 December 1978 — \$425,437	
		31 December 1977 — \$392,482)	
96,104		Property and Mortgage Investment	
		Trust Units, at cost	136,104
	876,235		
		Current Assets	
20,697		Cash at Bank and on Hand	32,094
900,000		Cash on Secured Deposits	2,900,000
12,600,000		Cash on Term Deposits	9,800,000
100,000		Australian Savings Bonds	100,000
		Debtors —	
339,000		Accrued Government Grants	23,000
1,064,171		Other	1,039,999
		Stocks on Hand, at cost less	
782,709		obsolescence	845,490
28,087		Payments in Advance	18,755
	<u>15,834,664</u>		<u>14,759,338</u>
	16,710,899		15,648,753
		<i>Less</i>	
		Current Liabilities	
156,487		Bank Overdraft	1,672,023
3,702,592		Sundry Creditors and Accrued Expenses	4,646,987
727,554		Students' Fees Received in Advance	681,039
			<u>7,000,049</u>
4,586,633		Long-term Liabilities	
		Loans on Mortgage	2,133,880
2,187,723			
	<u>6,774,356</u>		<u>9,133,929</u>
	<u>9,936,543</u>	Net Assets	<u>6,514,824</u>

16 Donor-nominated Trust Funds

Statement of Income and Expenditure for the year ended 31 December 1978

1977		1978
\$		\$
6,967	Income	
	Income from Investments	7,122
	<i>Less</i>	
	Expenditure	
439	Max Buxton Scholarships	450
582	Graham John Beard Memorial Fund	800
634	J. W. Dodds Memorial Scholarship	875
660	Vallejo Gantner Memorial Travel Fund	600
853	Oscar Mendelsohn Lecture	—
57	Monash University Rowing Club	56
275	W. P. and H. E. O'Shea Fund	216
50	The David B. Rosenthal Memorial Trust	50
—	Hume Turnbull Scholarship	500
2,050	William and Katherine Winter Foundation	2,075
5,600	Total Expenditure	5,622
1,367	Surplus for the year	1,500

Balance Sheet at 31 December 1978

1977		1978
\$		\$
100,705	Accumulated Funds	
—	Funds at 1 January 1978	102,072
1,367	Endowment received during the year	500
	Surplus for the year	1,500
102,072	Total Accumulated Funds	104,072
	<i>Represented by:</i>	
	Investments	
1,000	Government Securities, at cost	1,000
62,978	Semi-Government Securities, at lower of cost or par	62,978
27,960	Fixed-Interest Securities, at lower of cost or par	27,960
3,069	Ordinary Shares at cost	3,069
	(Market Value — 31 December 1978 — \$3,053 31 December 1977 — \$1,972)	
95,007		95,007
	Current Assets	
7,000	Fixed Deposit Stock	9,000
65	Cash at Bank	65
7,065		9,065
102,072	Total Assets	104,072

17 Students' Loan Fund

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
2,024	Interest on Loans	2,093
—	Interest on Term Deposit	464
291	Bank Interest	1,167
2	Donations	47
<u>2,317</u>	Total Income	<u>3,771</u>
	<i>Less</i>	
	Expenditure	
	Nil	
<u>2,317</u>	Surplus for the year	<u>3,771</u>

Balance Sheet at 31 December 1978

1977 \$		1978 \$
	Accumulated Fund	
135,910	Fund at 1 January 1978	138,227
	<i>Add</i>	
2,317	Surplus for the year	3,771
<u>138,227</u>	Total Accumulated Fund	<u>141,998</u>
	<i>Represented by:</i>	
	Loans to Students	
109,300	Principal	115,655
3,060	Accrued Interest	3,415
<u>112,360</u>		<u>119,070</u>
	Term Deposit	
—	Principal	10,000
—	Accrued Interest	310
<u>—</u>		<u>10,310</u>
25,867	Cash at Bank	12,618
<u>138,227</u>	Total Assets	<u>141,998</u>

18 Assistance to Students In Need Fund

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
9,116	Interest on Term Deposits	8,280
511	Interest on Loans	1,045
614	Bank Interest	438
<u>10,241</u>	Total Income	<u>9,763</u>
	<i>Less</i>	
	Expenditure	
3,755	Grants paid to Students during the year	2,561
—	Other	32
<u>3,755</u>	Total Expenditure	<u>2,593</u>
<u>6,486</u>	Surplus for the year	<u>7,170</u>

Balance Sheet at 31 December 1978

1977 \$		1978 \$
	Accumulated Fund	
165,532	Fund at 1 January 1978	172,018
6,486	<i>Add</i>	
	Surplus for the year	7,170
<u>172,018</u>	Total Accumulated Fund	<u>179,188</u>
	<i>Represented by:</i>	
	Term Deposits	
115,000	Principal	105,000
4,864	Accrued Interest	4,216
<u>119,864</u>		<u>109,216</u>
	Loans to Students	
48,825	Principal	60,958
857	Accrued Interest	1,422
<u>49,682</u>		<u>62,380</u>
2,472	Cash at Bank	7,592
<u>172,018</u>	Total Assets	<u>179,188</u>

19 Superannuation and Pension Schemes

Statement of Income and Expenditure for the year ended 31 December 1978

1977 \$		1978 \$
	Income	
520,016	Members' Contributions	568,440
887,509	University's Contributions	1,136,997
603,201	Income from Investments	851,320
7,442	Other Income	108,228
2,018,168	Total Income	2,664,985
	<i>Less</i>	
	Expenditure	
173,353	Benefit Payments to Members	232,038
150,101	Payments on Withdrawal	171,565
3,104	Other Payments	3,743
326,558	Total Expenditure	407,346
1,691,610	Surplus for the year	2,257,639
5,440,490	Surplus at 1 January 1978	7,132,100
7,132,100	Accumulated Surplus at 31 December 1978	9,389,739

Balance Sheet at 31 December 1978

(Excluding contributions applied as premiums to assurance policies effected with the Staff Superannuation Scheme)

1977 \$	1978 \$
7,132,100	9,389,739
	Accumulated Funds
	Accumulated Surplus
	<i>Represented by:</i>
	Investments
4,339,175	Fixed-Interest Securities, at lower of cost or par
1,292,122	Ordinary Shares, at cost
	(Market Value: 31 December 1978 — \$1,374,816 31 December 1977 — \$1,306,844)
1,358,200	Property and Mortgage Investment Trust Units, at cost
6,989,497	2,012,740
	8,929,936
242,325	Current Assets
	University Current Account
	481,419
	<i>Less</i>
	Members' Contributions and Maturity Proceeds on hand at 31 December (awaiting disbursement)
99,722 Cr	21,616 Cr
142,603	459,803
7,132,100	9,389,739
	Total Assets

APPENDIX I

Changes in membership during 1978

Term of office completed during 1978

Dr J. E. Issac (co-opted) 11 July 1977 to 30 June 1978; Mr G. D. Lewis (faculty of Law) 21 March 1977 to 2 July 1978; Dr I. McCance (teaching staff other than Professors) 1 January 1976 to 2 July 1978; Professor D. Cochrane (co-option — dean) 1 January 1977 to 31 December 1978; Professor L. A. Endersee (co-option — dean) 1 January 1977 to 31 December 1978; Mrs J. R. Hodgson (faculty of Education) 3 July 1974 to 2 July 1978; Mr D. J. King (non-teaching staff) 1 February 1978 to 2 July 1978; Dr R. D. Lansbury (non-professorial teaching staff) 16 December 1976 to 13 June 1978; Professor R. Porter (professors) 3 July 1974 to 13 June 1978; Dr R. B. Nethercott (graduates) 21 October 1970 to 21 October 1978; Mr M. D. Peckham (undergraduates) 5 June 1976 to 4 June 1978.

Members who resigned their membership during 1978

Mr J. M. Ballagh (non-teaching staff) 3 July 1974 to 31 January 1978; Mr S. J. Rosenthal (undergraduates) 23 June 1977 to 3 March 1978.

Re-elected or re-appointed for a further term of office during 1978

Dr J. E. Isaac (co-opted) 1 July 1978 to 30 June 1982; Mr G. D. Lewis (faculty of Law) 3 July 1978 to 2 July 1982; Dr I. McCance (teaching staff other than Professors) 3 July 1978 to 2 July 1982; Professor D. Cochrane (co-option — dean) 1 January 1979 to 31 December 1980.

Elected or appointed for first time

Professor J. M. Swan (co-option — dean) 1 January 1979 to 31 December 1980; Mr M. W. Oldmeadow (faculty of Education) 3 July 1978 to 2 July 1982; Mr G. S. Wilson (non-teaching staff) 3 July 1978 to 2 July 1982; Mrs J. Strauss (non-professorial teaching staff) 3 July 1978 to 2 July 1982; Professor R. H. Day (professors) 3 July 1978 to 2 July 1982; Dr K. C. L. Patterson (graduates) 21 October 1978 to 20 October 1982; Mr P. H. Costello (undergraduates) 1 June 1978 to 4 June 1980; Mr D. J. King (non-teaching staff) 1 February 1978 to 2 July 1978; Mr G. G. McArthur (undergraduates) 1 June 1978 to 22 June 1979.

